

EXHIBIT G

CERTIFIED COMMONWEALTH FISCAL PLAN

2021 Fiscal Plan for Puerto Rico

Restoring Growth and Prosperity

**As certified by the Financial Oversight and Management
Board for Puerto Rico**

April 23, 2021

DISCLAIMER

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This 2021 Fiscal Plan is not a Title III plan of adjustment. It does not specify classes of claims and treatments. It neither discharges debts nor extinguishes liens.

The 2021 Fiscal Plan may be amended from time to time, as appropriate in the sole discretion of the Oversight Board.

This 2021 Fiscal Plan is based on what the Oversight Board believes is the best information currently available to it. To the extent the Oversight Board becomes aware of additional information after it certifies this 2021 Fiscal Plan that the Oversight Board determines warrants a revision of this 2021 Fiscal Plan, the Oversight Board will so revise it.

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- *Any future actions taken or not taken by the United States government related to Medicaid or the Affordable Care Act;*
- *The amount and timing of receipt of any distributions from the Federal Emergency Management Agency and private insurance companies to repair damage caused by Hurricanes María and Irma;*
- *The amount and timing of receipt of any amounts allocated to Puerto Rico and provided under the Community Disaster Loans Program;*
- *The amount and timing of any additional amounts appropriated by the United States government to address the impacts of the COVID-19 pandemic;*
- *The amount and timing of receipt of any additional amounts appropriated by the United States government to address the funding gap described herein;*
- *The timeline for completion of the work being done by the Puerto Rico Electric Power Authority ("PREPA") to repair PREPA's electric system and infrastructure and the impact of any future developments or issues related to PREPA's electric system and infrastructure on Puerto Rico's economic growth;*
- *The impact of the COVID-19 pandemic on the financial, social, economic, and demographic condition of Puerto Rico;*
- *The impact of the measures described herein on outmigration; and*
- *The impact of the resolution of any pending litigation in the Title III cases*

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List of Acronyms and Key Terms

AAFAF	Puerto Rico Fiscal Agency and Financial Advisory Authority (Spanish acronym)
AAR	Annual Audited Report
ACA	Affordable Care Act
ADEA	Agricultural Enterprise Development Administration (Spanish acronym)
ADSEF	Family Socio-Economic Development Administration (Spanish acronym)
ACFR	Annual Comprehensive Financial Report
AFSCME	American Federation of State, County and Municipal Employees
AMA	Metropolitan Bus Authority (Spanish acronym)
AMPR	Puerto Rico Teachers' Association (Spanish acronym)
April 2018 Fiscal Plan	Fiscal Plan certified by the Oversight Board in April 2018
ARP	American Rescue Plan Act of 2021
ASEM	Puerto Rico Medical Services Administration (Spanish acronym)
ASES	Puerto Rico Health Insurance Administration (Spanish acronym)
ASSMCA	Mental Health and Anti-Addiction Services Administration (Spanish acronym)
ATM	Maritime Transportation Authority (Spanish acronym)
BBA	Bipartisan Budget Act of 2018
CAF	(FCC) Connect America Fund
CAGR	Compound Annual Growth Rate
CARES	Coronavirus Aid, Relief, and Economic Security Act
CASA	Sustainable Support to Students Centers Project (Spanish acronym)
CAT bond	Catastrophe bond
CBO	Congressional Budget Office
CDBG	Community Development Block Grant
CDBG-DR	Community Development Block Grant – Disaster Relief
CBDG-MIT	Community Development Block Grant – Mitigation
CCPRC	Cardiovascular Center of Puerto Rico and the Caribbean
CDPR	Center for Research, Education, and Medical Services for Diabetes
CDT	Diagnostic and Treatment Center (Spanish acronym)
CEE	State Elections Commission (Spanish acronym)
CHIP	Children's Health Insurance Program
CILT	Contribution-in-lieu of Taxes
CINE	Corporation for the Development of the Arts, Science and Film Industry of Puerto Rico (Spanish acronym)
CMS	The Centers for Medicare and Medicaid Services
COFIM	Municipal Finance Corporation (Spanish acronym)
COFINA	Puerto Rico Sales Tax Financing Corporation (Spanish acronym)
COSSEC	Public Corporation for the Supervision and Deposit Insurance of Puerto Rico Cooperatives (Spanish acronym)
COR3	Central Office for Recovery, Reconstruction, and Resiliency
CRF	Coronavirus Relief Funds
CRIM	The Municipal Revenue Collection Center (Spanish acronym)
CRRSA	Coronavirus Response and Relief Supplemental Appropriations Act
CTC	Child Tax Credit
CUB	Land Use Consult
DCR	Department of Corrections and Rehabilitation
DB	Defined Benefit pension plan
DC	Defined Contribution pension plan
DDEC	Puerto Rico Department of Economic Development Commerce (Spanish acronym)
DDP	Permitting Performance Dashboard
DEC	Determination of Categorical Exclusion
DMO	Destination Marketing Organization
DOH	Department of Health
DOJ	Department of Justice
DOJ-PR	Department of Justice – Property Registry
DOS	Department of State
DNER	Department of Natural and Environmental Resources
DPR	Discover Puerto Rico
DPS	Department of Public Safety
DRD	The Sports and Recreation Department (Spanish acronym)
DRF	Disaster Relief Fund
DRG	Diagnosis-Related Group
DSA	Debt Sustainability Analysis
DTOP	Department of Transportation and Public Works (Spanish acronym)
EA	Environmental Assessment
eFMAP	Enhanced FMAP
EIP	Economic Impact Payments
EITC	Earned Income Tax Credit
EPA	Environmental Protection Authority
ERP	Enterprise Resource Planning
ERS	Employee Retirement System
ESSER	Elementary and Secondary School Emergency Relief fund
FAM	Municipal Administration Fund (Spanish Acronym)

FCC	Federal Communications Commission
FDI	Foreign Direct Investment
FEDE	Special Fund for Economic Development (Spanish acronym)
Federal Government	The U.S. Federal Government
FEMA	Federal Emergency Management Agency
FEMP	Federal Energy Management Program
FFCRA	Families First Coronavirus Response Act
FHWA	Federal Highway Administration
FICA	Federal Insurance Contributions Act
FIE	Economic Incentive Funds (Spanish acronym)
FMAP	Federal Medical Assistance Percentage (FMAP)
FMM	Municipal Improvement Fund (Spanish acronym)
FOMB	Financial Oversight and Management Board for Puerto Rico
FPUC	Federal Pandemic Unemployment Compensation
FQHC	Federally Qualified Health Center
FTA	Federal Transit Administration
FTE	Full-Time Employee
FTZ	Foreign-Trade Zone
FY	Fiscal Year
FYTD	Fiscal-Year-To-Date
GAO	US Government Accountability Office
GASB	Governmental Accounting Standards Board
GDB	Government Development Bank for Puerto Rico
GDP	Gross Domestic Product
GF	General Fund
GNP	Gross National Product
Government	Government of Puerto Rico
Governor	Governor Pedro Pierluisi
GSA	General Services Administration
Hacienda	Puerto Rico Department of Treasury
HHS	US Department of Health and Human Services
HHS-OIG	Office of Inspector General at the U.S. Department of Health and Human Services
HIT	Health Insurance Tax
HMO	Health Maintenance Organization
HMS	HMS Ferries, LLC
HOPU	University Pediatric Hospital (Spanish acronym)
HPSA	Health Professional Service Areas
HRM	Human Resource Management
HTA	Highways and Transportation Authority
HUD	US Department of Housing and Urban Development
IEEE	Institute of Electrical and Electronics Engineers
IEP	Individualized Education Plan
IFCU	Independently Forecasted Component Units
IMF	International Monetary Fund
IPA	Investment Promotion Agency
IPR	Invest Puerto Rico
IRP	Integrated Resource Plan
Island	Puerto Rico
JP	Planning Board (Spanish acronym)
JRS	Judiciary Retirement System
KPIs	Key Performance Indicators
LEA	Local Education Agency
LUMA	LUMA Energy, LLC
M&A	Merger and Acquisition
March 2017 Fiscal Plan	Fiscal Plan certified by the Oversight Board in March 2017
MADS	Maximum Annual Debt Service
MCOs	Managed Care Organizations
MDRP	Medicaid Drug Reimbursement Program
MFCU	Medicaid Fraud Control Units
MICE	Meetings, Incentives, Conferences, and Exhibitions
MiPE	Mi Portal Especial
Mi Salud	Medicaid program in Puerto Rico (now called VITAL)
MMIS	Medicaid Management Information System
MOU	Memorandum of Understanding
MTSS	Multi-Tiered System of Support
NAP	Nutrition Assistance Program (Spanish: Programa de Asistencia Nutricional, PAN)
NRW	Non-Resident Withholdings
NTSP	Transportation and Public Services Bureau (Spanish acronym)
OATR	Office of the Administration and Transformation of Human Resources
OCFO	Office of the CFO
October 2018 Fiscal Plan	Fiscal Plan certified by the Oversight Board in October 2018

O&M	Operations and maintenance
OECD	Organization for Economic Cooperation and Development
OGP	Office of Management and Budget (Spanish acronym)
OGPe	Permits Management Office (Spanish acronym)
OIPC	Independent Office of Consumer Protection (Spanish acronym)
OMA	Operations and Maintenance Agreement
OMB	Office of Management and Budget
OMEP	Office for Public School Improvement (Spanish acronym)
OPEB	Pension and Other Post-Employment Benefits (Spanish acronym)
P3	Public Private Partnerships
P3 Authority	Public Private Partnership Authority
PA	Public Assistance
Parties	AAFAF and the Government
PayGo	Defined benefit actuarial responsibility program by which agencies and instrumentalities are responsible for paying their pensions obligations on an annual basis via a "PayGo Charge"
PBA	Public Buildings Authority
PBL	Project-Based Learning
PCOC	Consolidated construction permit (Spanish acronym)
PDMP	Prescription Drug Monitoring Program
PERM	Payment Error Rate Measurement
PEUC	Pandemic Emergency Unemployment Compensation
PIA	Pharmaceutical Industry Association
PISA	Program for International Student Assessment
Platino	Medicare Advantage program that also provides Medicaid wraparound services equivalent to Mi Salud / VITAL program
PMO	Program Management Office
PMPM	Per Member Per Month
POA	Plan of Adjustment
PPOA	Power purchase and operating agreement
PPP	Public Private Partnership
PPT	Pilot Project Team
PRASA	Puerto Rico Aqueduct and Sewer Authority
PRCCDA	Puerto Rico Convention Center District Authority
PRDE	Puerto Rico Department of Education
PREB	Puerto Rico Energy Bureau
PREMA	Puerto Rico Emergency Management Agency
PREPA	Puerto Rico Electric and Power Authority
PRHFA (or HFA)	Puerto Rico Housing Finance Authority
PRHTA (or HTA)	Puerto Rico Highway and Transportation Authority
PRIDCO	Puerto Rico Industrial Development Company
PRITA	Puerto Rico Integrated Transit Authority
PRITS	Puerto Rico Information Technology Service
PROMESA	Puerto Rico Oversight, Management and Economic Stability Act
PRPB	Puerto Rico Police Bureau
PRPL	Puerto Rico Poverty Line
PRTC	Puerto Rico Tourism Corporation
PSC	Puerto Rico Public Service Commission
PSRB	Public Service Regulatory Board
PU	Single business permit (Spanish acronym)
PUA	Pandemic Unemployment Assistance
PYMEs	Small and Medium Enterprises (Spanish Acronym)
RCM	Revenue Cycle Management
RFP	Request for Proposal
RR	Roosevelt Roads
RSA	Restructuring Support Agreement
SAEE	Associate Secretary for Special Education (Spanish education)
SAIDI	System Average Interruptions Duration Index
SAIFI	System Average Interruptions Frequency Index
SBP	Single Business Portal
SCO	State Coordinating Officer
SEAs	State Education Agencies
SIFC	State Insurance Fund Corporation
SIFDE	Financial Information System of the Department of Education (Spanish acronym)
SOGR	State of Good Repair
SRF	Special Revenue Fund
SR	Structural Reform
SRI	Infrastructure Agency Recommendation
ST ratio	Student-to-Teacher ratio
SURI	Internal Revenue Unified System (Spanish acronym)
SUT	Sales and Use Tax
SWIS	State Wage Interchange System
T&A	Time and Attendance

TAMP	Transportation Asset Management Plan
TANF	Temporary Assistance for Needy Families
TNC	Transportation network companies
TPB	Transportation Policy Board
TPFA	Third-Party Fiduciary Agent
TRS	Teachers' Retirement System
TU	Urban Train (Spanish acronym)
UDH	University District Hospital for Adults
UPR	University of Puerto Rico
URP	Uniform Remuneration Plan
USDA	United States Department of Agriculture
USDE	United States Department of Education
VITA	Volunteer income tax assistance
WIOA	Workforce Innovation and Opportunity Act
WIPR	Public Broadcasting Corporation (Spanish acronym)
2019 Fiscal Plan	Fiscal Plan certified by the Oversight Board in May 2019
2020 Fiscal Plan	Fiscal Plan certified by the Oversight Board in May 2020

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Executive Summary

The people of Puerto Rico need and deserve plentiful good jobs, a dynamic and prosperous economy, affordable and reliable electricity, and an efficient and responsive public sector—but have not had any of these things for more than a decade. Instead, since 2005, the economy has shrunk, the number of people living under the poverty line has increased, electricity has remained expensive and unreliable, labor market regulations have remained burdensome, the business environment has remained complicated and difficult, and the public sector has provided declining levels of service at a high cost to residents.

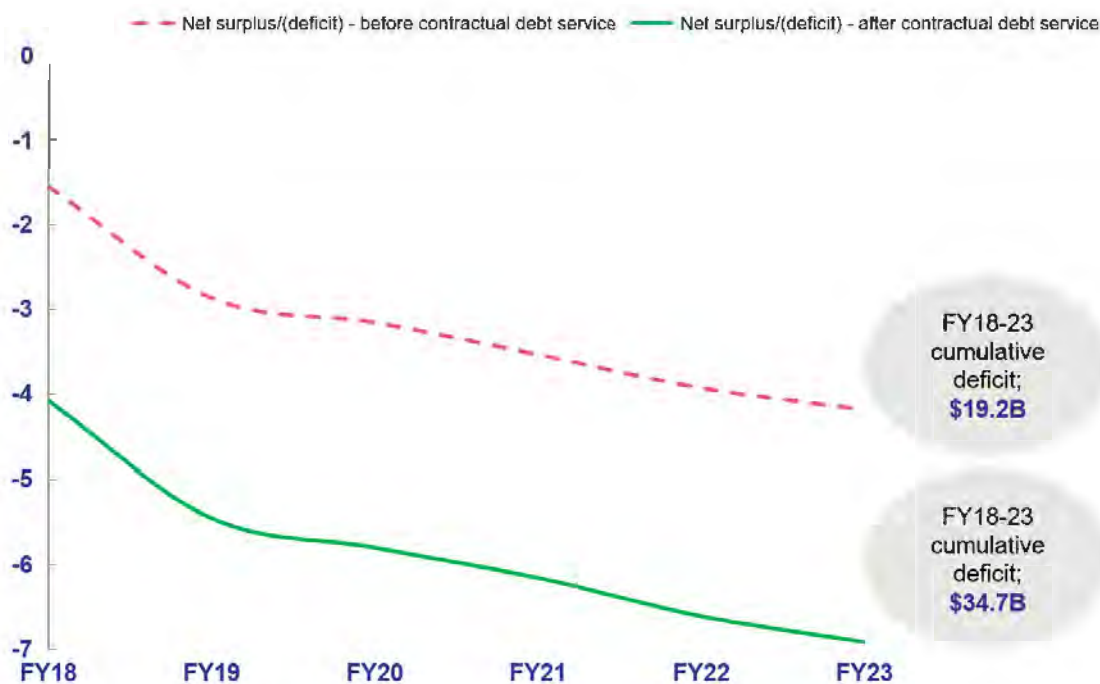
In addition, over the last four years, the people of Puerto Rico have come through unprecedented hardships, including catastrophic hurricanes, political upheaval, earthquakes, and now the worldwide COVID-19 pandemic. The Island has shown remarkable resilience and appears to be on the brink of emerging from the health and economic emergency.

The Federal Government's response to the crises – including over \$100 billion in disaster recovery and COVID-19 response funding – provides a window of opportunity for the Government of Puerto Rico to take the transformative steps needed to create the conditions for growth, spur private sector innovation and investments, and improve opportunity and quality of life for residents. The 2021 Fiscal Plan builds on that support and investment, while providing a comprehensive roadmap of reforms, investments, and measures to allow the Island achieve these critical objectives and ensure that the Government is sustainable and effective for the residents of the Island going forward.

* * *

To enable progress, the 2021 Fiscal Plan includes the steps necessary to address the longstanding fiscal management challenges that were contributing to growing forecasted deficits before the Fiscal Plan (See *Exhibit 1*). This deficit was difficult to forecast with certainty because of the protracted delays in issuing annual audited financial statements, lack of proper fiscal controls, lack of centralized financial records, and inefficient financial management. Puerto Rico had also been in an economic structural decline for over a decade, which led to an eroding tax base. To finance these primary deficits, Puerto Rico had resorted to issuing debt, which became unsustainable. As the Oversight Board began its work in late 2016, the Commonwealth was projected to run structural annual deficits exceeding \$7 billion, or \$3 billion before debt service.

EXHIBIT 1: PROJECTED PRE-FISCAL PLAN DEFICIT (BEFORE THE HURRICANES)



On top of these longstanding economic challenges, multiple large-scale natural disasters—including the 2017 hurricanes, 2019 and 2020 earthquakes, and recently the COVID-19 pandemic—have struck Puerto Rico in the last five years, testing the resiliency of public, private and social sector institutions like never before.

For nearly five years, the Financial Oversight and Management Board for Puerto Rico (“FOMB” or the “Oversight Board”) has worked to fulfill the mandate of PROMESA—to ensure fiscal sustainability and restore access to capital markets—by developing a roadmap to institute robust structural reforms to spur economic growth, make strategic investments to improve the Island’s resilience against natural disasters, and implement fiscal measures to improve government efficiency.

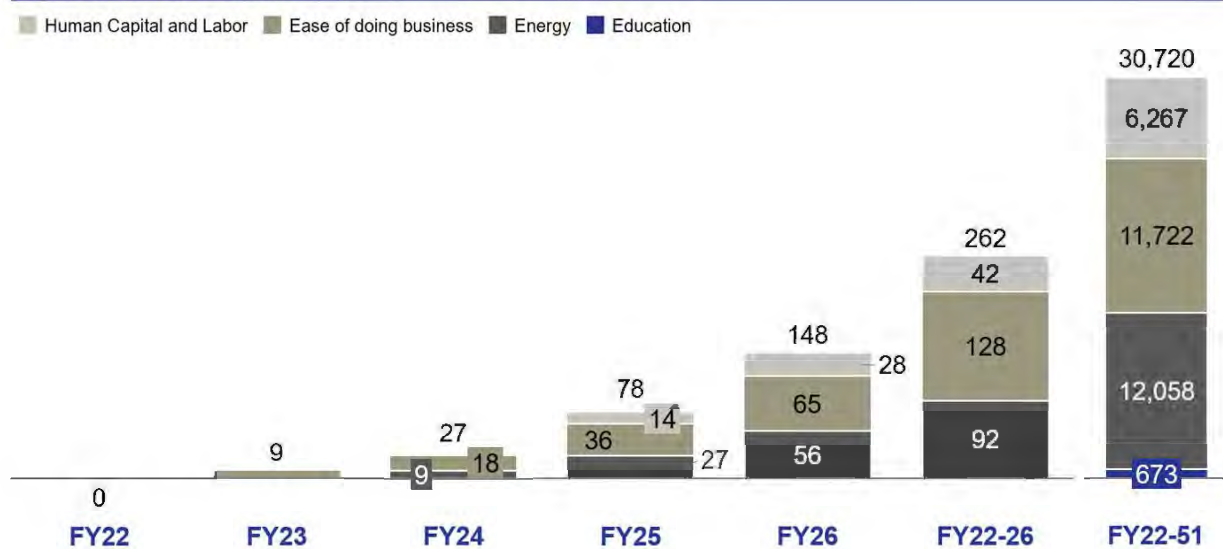
First, the 2021 Fiscal Plan lays out a set of structural reforms that, if successfully implemented, would enable Puerto Rico to begin to grow again, countering the negative growth trajectory that has plagued the Island for over a decade. These include human capital, welfare, and education reforms to advance successful participation in the formal labor market, reforms to streamline core business processes (e.g., paying taxes, registering property, and obtaining permits) to enable job creation by attracting greater levels of investment into the economy, and reforms to facilitate reliable power and stable infrastructure for businesses and households. Each of these are elements required for Puerto Rico to compete within the United States and globally, and to stem outmigration from the Island:

- **Human capital and welfare reform:** Promoting participation in the formal labor force by creating incentives to work through Earned Income Tax Credit (EITC) benefits and Nutritional Assistance Program (NAP) reform, as well as providing comprehensive workforce development opportunities to improve skills and ensure workforce is prepared for the jobs of tomorrow. EITC and NAP reform are projected to increase the economic growth rate by 0.15% in FY2025.
- **K-12 education reform:** Transforming the K-12 education system to dramatically improve student outcomes and contribute to an effective workforce in the long-term. Education reforms are projected to add 0.15% to the GNP growth rate between FY2037-FY2051.

- **Ease of doing business reform:** Improving the competitiveness and attractiveness of Puerto Rico's economy by reducing obstacles to starting and sustaining a business through improvements to processes to obtain permits, register property, and pay taxes; and by establishing best-in-class entities to attract investment and increase tourism. These reforms are projected to drive a 0.30% uptick in overall growth by FY2026.
- **Power sector reform:** Providing lower cost and more reliable energy through the transformation of PREPA, the establishment of an independent, expert, and well-funded energy regulator, and the development of cleaner and lower cost power generation. This reform is projected to increase growth by 0.30% by FY2026.
- **Infrastructure reform:** Integrating all transit assets under PRITA, so it can act as a unitary transit authority managing all transit assets on the Island (e.g., all buses, ferries, Tren Urbano), and reforming the public transportation sector more broadly.

EXHIBIT 2: IMPACT OF STRUCTURAL REFORMS

Impact of structural reforms, \$M



The 2021 Fiscal Plan has also allocated strategic investments to enhance economic growth, enable government response to emergencies, and enhance frontline service delivery. Fiscal Plans have included funds for an Earned Income Tax Credit to encourage more formal labor market participation on the Island and needs-based scholarships for UPR to ensure every student on the Island can access higher education. To support frontline service delivery, Fiscal Plans have included raises for teachers, principals, firefighters, and police officers to ensure salaries for these critical frontline roles are more competitive. Strategic capital investments have been made in hospitals, correctional institutions, public safety equipment, and other infrastructure. After each natural disaster and crisis, the Oversight Board has worked with Government to make funds available to help individuals, businesses, and agencies navigate the crisis and recover, including pausing most fiscal measures for FY2021 to enable agencies to combat the COVID-19 crisis and allowing more time to implement operational changes. Finally, Fiscal Plans have established emergency reserves to enable the Government of Puerto Rico to act immediately to support the people of the Island during crises.

Moreover, to help the Commonwealth rebuild its infrastructure, strengthen its economy and improve the lives of local residents, the 2021 Fiscal Plan includes investments aimed at strengthening the ability of the Island to benefit from the growing importance of technology in every facet of life and business, as well as ensure a qualified, trained work force able to respond to the needs of this ever growing segment of the economy. The 2021 Fiscal Plan allocates \$400 million to incentivize private sector investments in broadband build-out and to improve access to

faster speed offerings in underserved areas. These investments should help overcome barriers to broadband expansion and ensure that all residents and enterprises in Puerto Rico benefit from this capacity. It also allocates \$50 million for a 21st century Technical and Business Education Fund to invest in local residents acquiring technical and business skills so that the people of Puerto Rico are able to compete in a global economy. Finally, the sustainability and quality of public services requires a comprehensive civil service reform to resolve the underlying problems and challenges of human resources management in the Government. The 2021 Fiscal Plan outlines a comprehensive plan to improve the civil service, starting with a pilot for financial management personnel. The 2021 Fiscal Plan includes almost \$800 million in investment (FY22-51) in order to improve strategic human capital planning, recruitment, performance management and evaluations, and succession planning, as well as hiring of additional staff and salary increases for key personnel (where deemed necessary). Civil service reform is critical to address the root causes behind the lack of execution on important initiatives by the Government of Puerto Rico in the past. Without it positive sustainable change is not possible.

In addition to these investments, the Fiscal Plan focuses on improving the responsiveness, efficiency, and affordability of the Government. Fiscal Plans have included a set of fiscal measures that aim to create robust fiscal controls and accountability through the establishment of the Office of the CFO, consolidation and streamlining of agency operations, reduction the ever-escalating costs of Medicaid and pensions, increasing revenue collections through improved compliance, and enhancing the fiscal self-sufficiency of the University of Puerto Rico and municipalities. The Oversight Board has worked hand-in-hand with Government agencies to craft clear pathways for each reform and reduce barriers to change.

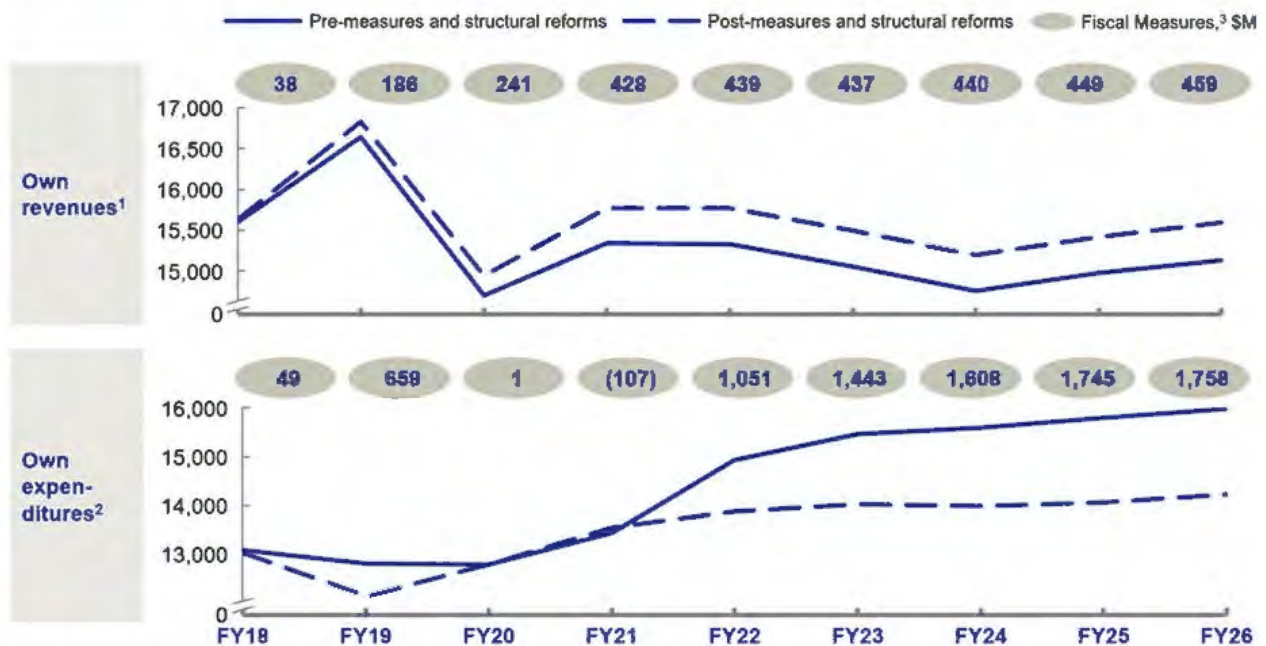
These measures include:

- **Creation of Office of the CFO:** Instituting fiscal controls, centralizing fiscal authority, and improving governance, accountability, and transparency over budgets, reform implementation, procurement, and personnel to ensure the Government is an efficient and effective steward of its resources
- **Agency efficiencies:** Consolidating agencies to leverage valuable human and financial resources; centralizing procurement to achieve greater purchasing power and transparency; and transforming processes and deploying new management practices to deliver better governmental services for substantially lower cost
- **Medicaid reform:** Taking the necessary steps to curb fraud, waste, and abuse in the healthcare system, ensuring that resources are directed to those in need of health services, and improving health outcomes on the Island
- **Enhanced tax compliance and optimized taxes and fees:** Employing new technology and data to broaden the tax base, reducing non-compliance, and improving fairness to boost overall tax revenues while adjusting existing taxes and fees to capture revenues from under-leveraged sources
- **Reduction of appropriations:** Encouraging sound fiscal self-management and revenue generation among municipalities and the University of Puerto Rico by reducing central government appropriations, while meeting the needs of students facing financial challenges with the creation of an independently-managed, means-tested scholarship fund
- **Comprehensive pension reform:** Improving the financial stability of public employees through reforms that maintain enough funds to comply with the payment of pension benefits and provide the administration necessary to create a defined contribution plan for employees

The impact of these measures on revenues and expenditures is demonstrated in *Exhibit 3*.

EXHIBIT 3: IMPACT OF REVENUE AND EXPENDITURE MEASURES ON OWN REVENUES AND EXPENDITURES

Impact of measures on Government revenues and expenditures, \$M



¹ Own revenues includes all Commonwealth collected revenues excluding gross up items included in the 2021 Fiscal Plan and excludes all federal transfers, includes impact of COFINA settlement

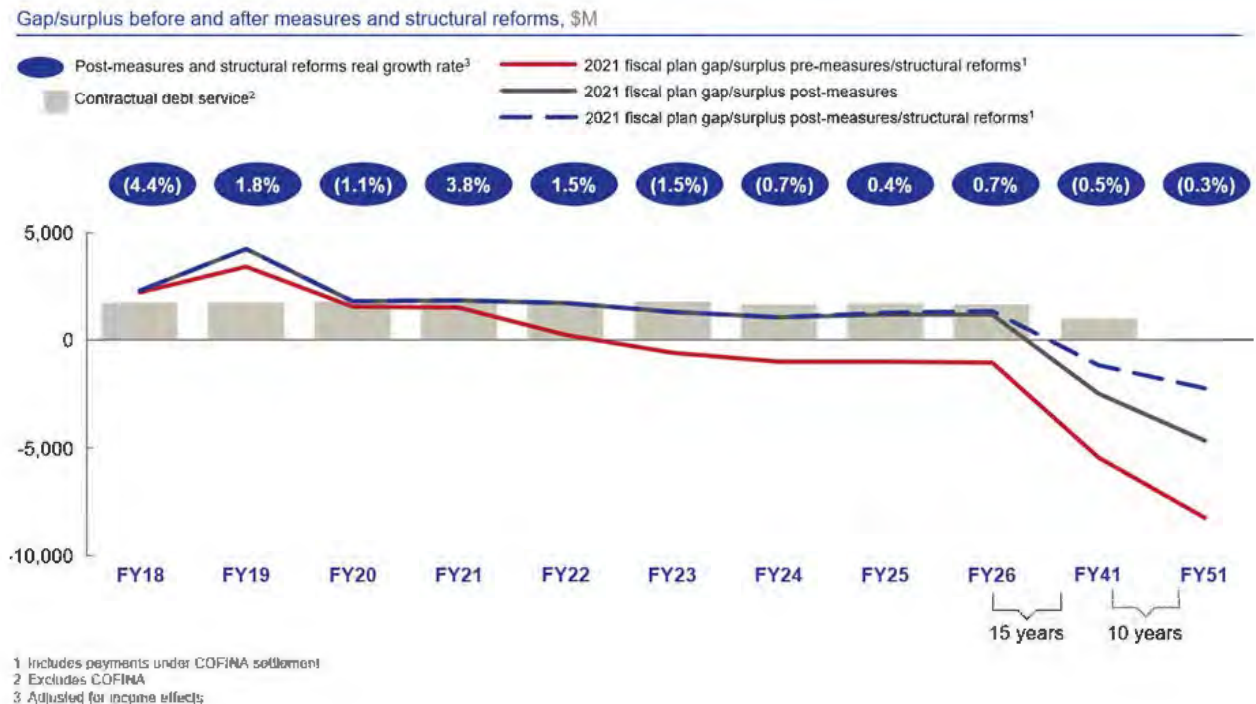
² Own expenditures includes total Commonwealth funded operating expenditures, excluding federally funded Medicaid and Social Programs, own expenditures increase during FY22 due to Medicaid Supplemental Funding phase out

³ Comprised only of fiscal measures attributable to the Commonwealth. Figures represent the net of expense measures and new investments

Since certifying the first Fiscal Plan in 2017, and notwithstanding the emergencies, the Oversight Board has worked with the Government to make initial progress toward the objectives supporting the fiscal measures. This has resulted in the ability of the Government to increase expenditures at a time of crisis, while ensuring total expenditure levels remain within total available revenues, rather than be forced to cut budgets that have not been carefully managed, as other states have been forced to do as COVID-19 has caused revenues to drop. There is a new level of transparency and control over government spending, including the elimination of multi-year appropriations that permitted overspending; controls over the reappropriation of funding between concepts of spend to eliminate the defunding of accrued liabilities; and regular reporting on revenues and expenses. Moreover, the fiscal year 2020 and 2021 budgets were built at a granular “concept code” level (e.g., differentiating between spend on professional IT services versus advisory services). The Oversight Board has been able to reject contracts that could have led to overspending, such as the proposal to externalize Puerto Rican prisons, and the Government has been held accountable to its implementation requirements via public hearings, such as those held on education, public safety, corrections, and economic development.

These actions by the Oversight Board are the reason that the Commonwealth has been able to accumulate substantial surpluses, which serve as a foundational element of the Commonwealth’s progress in providing for investment, economic growth, and satisfaction of claims of all stakeholders.

EXHIBIT 4: 2021 FISCAL PLAN PROJECTED TOTAL SURPLUS BEFORE AND AFTER MEASURES AND STRUCTURAL REFORMS (EXCLUDING DEBT SERVICE)



* * *

Though much progress has been made, diligent and focused efforts are needed in the coming years to accelerate momentum and reach a more sustainable path. While natural disasters and the pandemic have been incredibly damaging and disruptive to lives and livelihoods of the residents on the Island, they have been accompanied with over \$100 billion in federal relief funding for disaster relief and recovery, and to respond to the COVID-19 pandemic.

In conclusion, this unprecedented level of federal support—which represents over 100% of Puerto Rico's Gross National Product—provides a once in a generation opportunity to build resilient infrastructure, invest in economic growth, improve government services, and rebound from the effect of the pandemic on residents, businesses, and the not-for-profit sector. The investments can also unlock creativity, entrepreneurship, and private sector investment when coupled with the much needed reforms to the business climate outlined in the Fiscal Plan. Finally, the near term support enables a window of opportunity to build a more effective government to serve the people. Taken together, these actions – if fully implemented – can help to stem the demographic outflow, improve quality of life, and return Puerto Rico to growth.

PART I: Context for Puerto Rico's current economic and fiscal challenges

Chapter 1. Long-term economic trends in Puerto Rico

Even before suffering a series of natural disasters in the form of hurricanes, earthquakes, and the COVID-19 pandemic from 2017-2020, Puerto Rico's economy had been in an acute structural decline for over a decade. The Government had defaulted on much of its debt, and nearly half of local residents lived below the national poverty line. The reasons for these problems are multiple, but the root causes stretch back 40 years.

In the 1940s and 1950s, led by Operation Bootstrap, Puerto Rico's economy grew rapidly and productivity increased by 5% per annum as it transitioned from an agricultural-led to a manufacturing-led economy. However, as economic performance began to decline in the 1970s, the Federal Government adopted two significant policies to help Puerto Rico shore up its economy.

First, transfer programs increased dramatically, particularly as Puerto Rico started receiving Nutritional Assistance Program (NAP) funding, eventually providing, in aggregate, a proportion of residents' personal income that was twice the U.S. mainland average. In addition to raising costs for the Government, these programs, at times, created disincentives to work due to benefits that were high relative to wages available in the formal labor market.

Second, in 1976, Section 936 of the federal tax code was introduced to promote investments by companies that could transfer their "intangible assets" to Puerto Rico, and thereby shift profits to the Island. These Section 936 companies, which were mostly in pharmaceuticals and life sciences, became a pillar of Puerto Rico's economy, creating valuable local supply chains and local banking deposits, and contributing substantial tax revenue. In the same year, Puerto Rico passed Law 80, which instituted protections against wrongful discharge for local workers and mandated severance for firms attempting to remove employees. This law made Puerto Rico's labor market significantly more rigid and placed it out of step with the prevailing labor markets in the U.S.

In 1996, Congress decided to end Section 936, gradually phasing it out by 2006. In the face of an anemic local private sector, the Government also expanded its employment to the point that, by 2000, 30% of Puerto Rico's jobs were in government and a full 40% of workers with college degrees worked in the public sector. Major sectors such as water, electricity, and ports are still run by public corporations, and have consistently created a drain on the economy by delivering lower quality services at high costs while crowding out private investment. There was also pervasive cross-subsidization among the Commonwealth, public corporations, and other parts of the public sector that obfuscates financial management and accountability. Finally, there was a high degree of political interference in decisions that affect every aspect of life in Puerto Rico. As a result, Puerto Rico underperformed on all important measures of a modern economy, including educational attainment, cost of electricity, quality of water, tax compliance, and labor market participation.

To promote the private sector, the Government undertook a broad tax incentives policy that led to a highly complex web of non-transparent subsidies and special tax arrangements. These actions neither promoted growth nor treated companies equitably, often discriminating against Puerto Rican companies in favor of multinational companies. Moreover, this system created no inducement for new investment without similar tax incentives, further eroding the potential tax base. In addition, generous government and federal transfer programs, taken together, produced disincentives to formal work, given the potential loss of housing and/or healthcare, while

increasing the share of the informal economy. Tax compliance has never been adequate in Puerto Rico, and it became increasingly difficult in this environment.

Government revenues suffered and became increasingly hard to forecast. Taken together with unmanageable and unconnected systems of accounting across government entities, as well as delayed financial audits, fiscal discipline eroded. To make up for this recurring and growing budgetary shortfall, the Commonwealth turned to debt markets. Puerto Rico bonds found themselves in every corner of the U.S. bond market and, as investor appetite began to wane, the Government turned to securing new debt by conditionally pledging various revenue streams. The result was a highly complex financial structure that limited transparency as well as financial accountability and management.

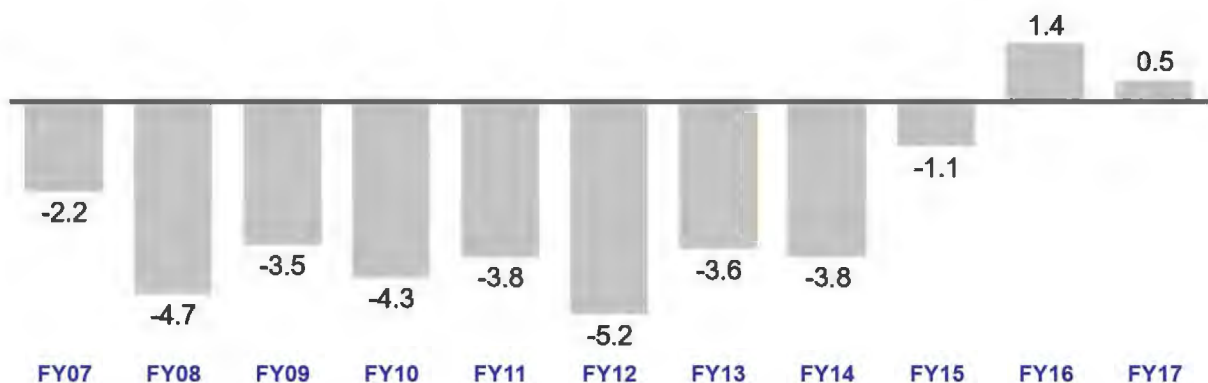
When the financial crisis hit in 2008, Puerto Rico's economy was already in a fragile fiscal and financial position. Since then, the economy has continued to worsen. Puerto Rico has seen its gross national product (GNP) shrink by 17%, labor force participation fall to a record low of 39%, and population decline by 15%.¹ Puerto Rico is much poorer relative to the mainland U.S. today than it was in 1970.

Chapter 2. Context for PROMESA and the creation of the Oversight Board

In the context of these long-term economic and demographic trends, government spending lacked transparency and did not adjust to the new reality. As a result, before the establishment of the Puerto Rico Oversight, Management and Economic Stability Act (PROMESA), the Government was running large, long-term structural deficits (*Exhibit 5*).

EXHIBIT 5: LONG-TERM STRUCTURAL DEFICITS

Long-Term Historical Structural Deficits, \$M



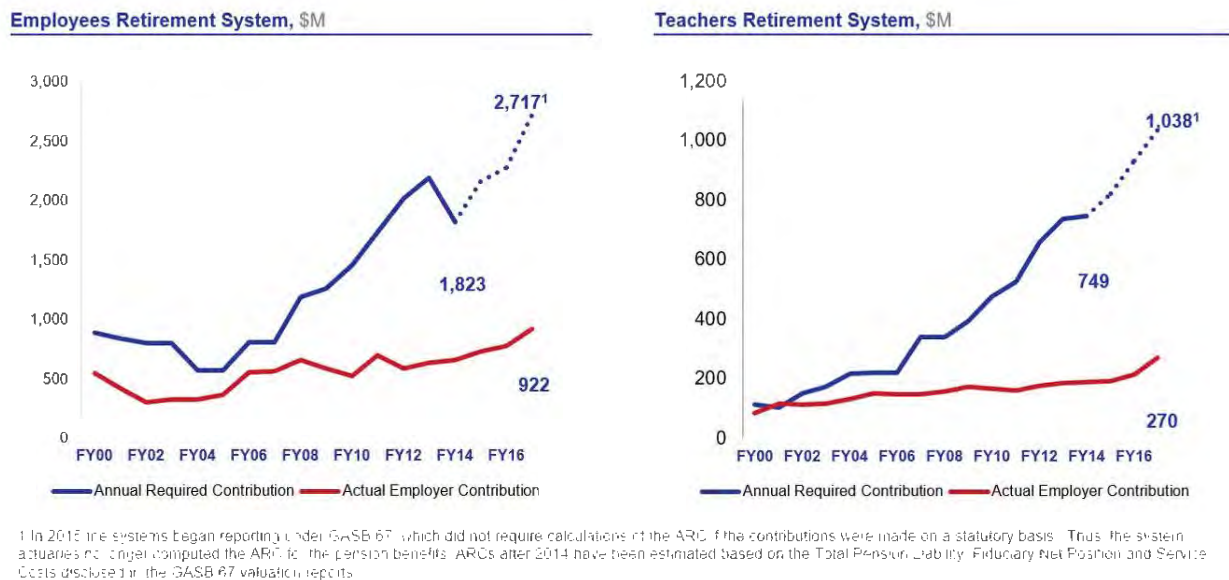
SOURCE: Audited financial statements

Although some changes were made to reduce government spending in the years leading up to PROMESA, contributions to the pension systems were persistently far below necessary levels. As shown in *Exhibit 6*, over the past two decades, the actuarial annual required contributions to the pension systems were far greater than the actual employer contributions made. In fact, as early as 2007, system actuaries had expressed that statutory contribution requirements were not sufficient to meet future plan needs. Despite that reality, while various steps were taken to

¹ GNP and population decline represent the change between 2008 and 2018 per data from the World Bank Group's World Development Indicators

improve the funded status of the Retirement Systems over time, these large annual financial and operational shortfalls directly led to the depletion of the fund assets to a point where the pension systems were no longer viable.

EXHIBIT 6: EMPLOYEES AND TEACHERS RETIREMENT SYSTEM REQUIRED AND ACTUAL CONTRIBUTION



By 2016, Puerto Rico was in the midst of an irreconcilable liquidity, fiscal, and economic crisis. The Commonwealth was being crushed under the weight of public debt that was larger than its GNP, it had started to default on its debt obligations, and it had lost access to external financing. All of the overspending drew down the Government's bank account balances, leading to dangerously low liquidity levels and revenue shortfalls. At one point, the Government's primary cash account, the Treasury Single Account (TSA), fell to as little as \$15 million. Even worse, these calamitous financial circumstances threatened to create a humanitarian crisis for the over 3 million residents living on Island. As the U.S. Secretary of the Treasury at the time observed, the Commonwealth's ability to provide basic healthcare, legal, and education services was in serious doubt. No multi-year, coordinated strategy existed to restore growth and opportunity to the people of Puerto Rico.

2.1 Enactment of PROMESA

On June 30, 2016, President Obama signed into law the Puerto Rico Oversight, Management, and Economic Stability Act (PROMESA), 48 U.S.C. § 2101 et seq., to work toward a remedy to the ongoing fiscal and humanitarian crisis in Puerto Rico. The goal of PROMESA is to meet Puerto Rico's immediate need to provide its residents effective services, to formulate a debt restructuring, and to implement fiscal and structural reforms leading to a sustainable economy, fiscal responsibility, and market access.

PROMESA establishes two primary mechanisms for restoring fiscal responsibility. First, Titles I, II, IV, and V of PROMESA create the Financial Oversight and Management Board (FOMB or Oversight Board) for Puerto Rico and provide it powers and duties governing the review and certification of multi-year fiscal plans, annual budgets, major contracts and strategic infrastructure projects. Second, Titles III and VI of PROMESA provide for debt restructurings, similar to bankruptcy cases and out-of-court restructurings, respectively, for Puerto Rico and its instrumentalities. By incorporating many provisions of Title 11 of the United States Code (the "Bankruptcy Code") into Title III of PROMESA, which provides for restructurings similar to

restructurings under chapters 9 and 11 of the Bankruptcy Code, the statute also protects the debtors from creditor debt-enforcement actions that otherwise could prematurely extract billions of dollars from the Commonwealth and inflict irreparable damage on Puerto Rico's economy. The statute includes unique attributes, such as an automatic stay on debt that was triggered once the bill was signed into law. The Oversight Board is the sole representative of any debtor entity in a Title III case, with the exclusive authority to propose a Plan of Adjustment. PROMESA Title VI provides an alternate, out-of-court restructuring process conditioned on voting thresholds.

It should be noted that the Oversight Board is an independent entity within the territorial Government, rather than a department, agency, establishment, or instrumentality of the Federal Government. It is statutorily charged with restoring fiscal responsibility and market access to the Commonwealth.

2.2 Fiscal plans, budgets, and other Oversight Board tools

Under PROMESA, covered territorial instrumentalities/entities can be required by the Oversight Board to prepare and submit annual fiscal plans, who then reviews and either rejects or certifies them. The Oversight Board certifies fiscal plans and budgets to achieve PROMESA's goals to provide a method to achieve fiscal responsibility and access to the capital markets. The Oversight Board then tracks Government implementation of the fiscal plans to ensure compliance.

The certification and timely implementation of fiscal plans and balanced budgets are invaluable tools to achieve fiscal responsibility and restore Puerto Rico's access to the capital markets. Among other things, the certified fiscal plans and budget provide for estimates of revenues and expenditures in conformance with agreed accounting standards; funds essential public services; provides adequate funding for public pension systems; provides for the elimination of structural deficits; improves fiscal governance, accountability, and internal controls; and provides for capital expenditures and investments necessary to promote economic growth. Fiscal plans provide a route to direct the economy and finances of the Government of Puerto Rico towards economic growth and fiscal accountability. This is crucial for Puerto Rico to avoid repeating the mistakes of the past.

To ensure that covered entities deliver against fiscal plan measures, the Oversight Board has a variety of potential tools available, including:

- **Setting budgets:** The Oversight Board can certify the budget of the Government and its instrumentalities by type of expense and fund type. The Oversight Board has required more detailed budgets to prevent certain expenditures inconsistent with the current fiscal plan, understand consultant spending and enable measurements and monitoring of federal consent decrees or requirements (e.g., special education, juvenile detention).
- **Budget and fiscal plan compliance:** Official letters are written by the Oversight Board to the Office of the Chief Financial Officer (OCFO) and agencies if something is not in compliance of certified budget and fiscal plans (e.g., letters pursuant to Sections 203 and 204 of PROMESA).
- **Approval and review of contracts, legislation, executive orders, administrative orders, rules, and regulations:** The Oversight Board must review and approve all contracts with a value of \$10 million or more to ensure Fiscal Plan compliance, and has the authority to refuse contracts and suggest the terms the new contract is required to meet. In addition, the Oversight Board may select to review contracts below the \$10 million threshold for these purposes, on a random basis or at its own discretion.
- **Recommendations:** Per Section 205 of PROMESA, the Oversight Board drafts letters to the U.S. President and Congressional leadership, outlining recommendations for fiscal and financial management practice improvements, requiring a response from the Governor.

- **Public hearings:** The Oversight Board can hold hearings with agency representatives to publicly discuss progress on efficiency measures and related matters (i.e., use of reapportionments, budget requests). In the last years, the Board has convened several public hearings to bring attention to core issues related to Government reform.
- **Implementation tracking with monthly and quarterly reporting:** Agencies receive a template that they must use to report on headcount, Key Performance Indicators (KPIs), and milestone implementation actions, among other requirements. Monthly reports are drafted evaluating implementation progress and budget to actual analysis.
- **Working group meetings:** Agencies/reforms meet with implementation team with prepared materials, answer questions and requests. Often, Oversight Board may invite the Secretaries and Executive Directors of agencies to present status of implementation of efficiency measures during such working group meetings.
- **Stakeholder Engagement:** The Oversight Board undertakes stakeholder engagement efforts throughout the year with members of the Government, private sector, and nonprofit sector of the Island. These efforts help the Oversight Board better understand stakeholders' opinions, concerns and values. This allows the Oversight Board to incorporate stakeholder input into PROMESA plans and processes. Stakeholders efforts include meetings, webinars, workshops, and public panel discussions.
- **Policy Research and Data Analysis:** The Oversight Board conducts research, public policy analysis, and program evaluation to help bring more informed policymaking to Puerto Rico. It also presents policy ideas, reform proposals, and data analysis to support the public debate about what changes Puerto Rico needs to prosper.²
- **Publication of documents:** The Oversight Board can publish any materials submitted to them by the Commonwealth Government.

2.3 Conditions for termination of the Oversight Board

The Oversight Board was designed to have a finite life, defined objectives, and defined tools and authorities to achieve those objectives. Every action taken by the Oversight Board over the past five years has been dedicated specifically and exclusively to completing its mission as stated in the law as soon as possible. The Oversight Board seeks to complete its work under PROMESA promptly, so that fiscal controls, fiscal sustainability, and economic prosperity and growth can return to Puerto Rico.

PROMESA is specific in terms of how and when the Oversight Board can be terminated. The two provisions, found in Section 209 of PROMESA, that define when the Oversight Board can be dissolved, were incorporated into the federal law to ensure the board disappeared, for good, once Puerto Rico's financial outlook stabilized and better financial management processes have been put in place.

2 Financial Oversight and Management Board of Puerto Rico, Research And Public Policy Department

Section 209 of PROMESA (Termination of the Oversight Board) states the following:

An Oversight Board shall terminate upon certification by the Oversight Board that:

- 1) *the applicable territorial government has adequate access to short-term and long-term credit markets at reasonable interest rates to meet the borrowing needs of the territorial government; and*
- 2) *for at least 4 consecutive fiscal years--*
 - A. *the territorial government has developed its Budgets in accordance with modified accrual accounting standards; and*
 - B. *the expenditures made by the territorial government during each fiscal year did not exceed the revenues of the territorial government during that year, as determined in accordance with modified accrual accounting standards.*

EXHIBIT 7: REQUIREMENTS FOR THE TERMINATION OF THE OVERSIGHT BOARD

Category	Details	
1. Adequate access to credit markets at reasonable interest rates	Complete Sustainable Debt Restructuring	<ul style="list-style-type: none"> Exchanged / new bonds trading well in the public markets Interest from traditional, institutional municipal bond buyers Evidence investors ready to invest in Puerto Rico again
	Timely Financial Reporting	<ul style="list-style-type: none"> Publication of past due audited financials (ACFRs) Reasonable expectations future audited financial (ACFRs) will be issued on a timely basis
2(A). The territorial government has developed its Budgets in accordance with modified accrual accounting standards for at least 4 consecutive fiscal years	Accrual budget	<ul style="list-style-type: none"> Establishment of budget on accrual basis, not cash basis
	Revenue/Expenses	<ul style="list-style-type: none"> Changes in revenues/expenditures should be monitored against the forecast during course of year making necessary adjustments
	Payroll Systems	<ul style="list-style-type: none"> 5 different payroll systems must be integrated into central accounting and budget systems, improving ability to control and limit personnel spending
	Accounts Payable	<ul style="list-style-type: none"> Maintain an accounts payable ledger
	Purchase Orders	<ul style="list-style-type: none"> Registration of purchase orders, professional serviced contracts, prior to service being supplied
	Other Funds	<ul style="list-style-type: none"> Funding sources outside of the General Fund must be budgeted/evaluated by OMB and Legislature, especially those that are comingled in TSA
2(B). Balanced budgets (expenditures did not exceed revenues) for least 4 consecutive fiscal years, as determined in accordance with modified accrual accounting	Accounting	<ul style="list-style-type: none"> Monthly closing and bank reconciliations Perform required activities to record cash transactions, A/P recording, budget transfers and month end close adjustments Understanding of economic conditions affecting revenue generation Measures to increase government efficiency and cost reduction
	Systems	<ul style="list-style-type: none"> Up-to-date systemwide financial information system Integration between various accounting systems shift from manually executed to using system capabilities Visibility into all spending Real time spend reporting and review by leadership
	Controls	<ul style="list-style-type: none"> Adequate real time spending controls Standardize Government-wide Financial accounting processes removing inconsistent adoption by agencies Implement change management to achieve closing cadence

The Oversight Board has worked tirelessly to help the Government move quickly towards the accomplishment of all these requirements.

2.3.1 Progress on requirement #1: Adequate access to credit markets at reasonable interest rates

Sustainable debt restructuring

The Oversight Board has and is following a “once and done” approach to the restructurings, to ensure Puerto Rico will not be insolvent again. Together with the Government of Puerto Rico, the Oversight Board has made substantial progress in adjusting Puerto Rico’s debt, the largest debt

restructuring in the history of the municipal bond market. The restructuring of more than a third of the outstanding debt has already been completed, totaling \$27 billion. Plan Support Agreements have been announced for \$35 billion in claims and over \$50 billion in pension liabilities.

In May 2017, the Puerto Rico Government and the Government Development Bank (GDB) signed a Restructuring Support Agreement (RSA) with a significant portion of GDB creditors to restructure GDB's debt under PROMESA's Title IV. The RSA, as amended in April 2018, reduced about \$5 billion of debt to about \$3 billion, reducing the face value of claims by 45%. The debt payments are secured by GDB cash flow from certain legacy assets without recourse to the Puerto Rico Government. This restructuring cushioned municipalities by offsetting the loans they owed to the GDB by the full amount of their deposits at GDB.

In February 2019, the U.S. District Court approved the Plan of Adjustment for the Puerto Rico Sales Tax Financing Corporation (COFINA), the first debt restructuring completed under PROMESA's Title III. It reduced COFINA debt by \$6 billion, from \$18 billion to \$12 billion. Furthermore, it reduced debt service payments by 32%, saving the people of Puerto Rico approximately \$17.5 billion that will now be available to support the financial needs of the Commonwealth.

In August 2019, the Puerto Rico Aqueduct and Sewer Authority (PRASA) and the Government of Puerto Rico reached an agreement with the U.S. Environmental Protection Agency (EPA) and U.S. Department of Agriculture (USDA) to a consensual modification of about \$1 billion of outstanding loans under PROMESA's Section 207. This agreement lowers PRASA's debt service payments on the U.S. Government program loans by about \$380 million over the next 10 years and eliminates approximately \$1 billion in guaranty claims against the Puerto Rico Government. Additionally, it provides PRASA with access to \$400 million in new federal funding through various clean water programs over the next five years to support PRASA's ongoing effort to improve water quality and safety for the people of Puerto Rico.

On March 8, 2021, the Oversight Board filed an amended Plan of Adjustment (POA) to restructure approximately \$35 billion of debt and other claims against the Commonwealth of Puerto Rico, the Public Buildings Authority (PBA), and the Employee Retirement System (ERS); and more than \$50 billion of pension liabilities. The amended plan, filed with the U.S. District Court for the District of Puerto Rico, provides a path to exit bankruptcy as early as the end of calendar year 2021 and creates a foundation for Puerto Rico's recovery and economic growth. An agreement in principle has been reached with certain monoline bond insurers with clawback claims. Efforts to transform the agreement in principle into a binding agreement are ongoing. An agreement has been reached with holders of Employee Retirement System bonds as well. Mediation continues with holders of general unsecured claims, certain other monoline bond insurers with clawback claims, and creditors holding other claims against the Government of Puerto Rico.

Key to the sustainability of any debt restructuring is the growth of the Puerto Rico economy. The Oversight Board has stressed for the past five years that returning to economic growth requires structural reforms to enhance the reliability of power; improve educational outcomes, labor market participation and labor productivity; enhance the ease of doing business on the Island; and generate more effective returns on capital investments and infrastructure. All of these aim to strengthen Puerto Rico's competitiveness in the global marketplace, attract new private capital, the creation of jobs, and ultimately a better life for the residents of the Island.

Timely financial reporting

The requirement related to timely financial reporting includes expectations that the Government publish past due audited financials begin issuing audited financial statements on a best practice basis (e.g., issue audited financial statements within six months after the fiscal year ends).

The Government of Puerto Rico has yet to produce long past due Annual Comprehensive Financial Report (ACFRs) for FY2018-FY2020. The Oversight Board has continuously encouraged the Government to finalize and publish its past due audited financial statements, including spending time at two recent public board meetings on the topic and providing increased funding for required personnel at Hacienda. The Commonwealth published fiscal year 2017 audited financial statements on August 31, 2020, taking more than 1,158 days (~38 months) to issuance. According to a study by the Governmental Accounting Standards Board (GASB), state governments issued their annual audited financial reports (ACFRs) on average 189 days after fiscal year-end during 2012-2014 and 199 days during 2015-2017.³ Best practice calls for annual comprehensive financial reports (ACFRs) to be made public approximately 180 days or 6 months after the close of the fiscal year. Some states, like Michigan, have taken less than 100 days to release their ACFRs.

To achieve timely financial reporting the Government must, among other things, provide a detailed timeline and implementation plan, positioning Hacienda to successfully oversee the publication of the ACFRs, and signing a multi-year master audit contract. Perhaps most importantly, the Government must transition to implementing monthly closing procedures over its books and records and implement strict monitoring over the process with consequences for agencies that fall behind. Without implementing these changes, ACFR issuance will continue to be delayed and unpredictable.

As seen in *Exhibit 8*, the Government is behind on meeting many of these requirements, but with steadfast political will and leadership, the Oversight Board is convinced that these objectives can be reached, past due ACFRs can be issued within the next two years, and a system can be put in place that assures continued timely issuance as expected by the credit markets.

2.3.2 Progress on requirement #2: Four years of budgets developed with modified accrual accounting principles and expenditures which have not exceeded revenues

Four years of developing budgets in line with modified accrual accounting standards

The Government is expected to develop and implement a budget in accordance with modified accrual accounting standards for four consecutive years, according to accounting practices recommended by the GASB for municipal financial statements, including by publishing ACFRs. There are numerous benefits of transitioning from cash accounting to modified accrual accounting. A modified accrual accounting method is more conservative since it requires recognition of revenues when measurable and promised payments when liabilities are incurred. Consequently, the books and records will present a more realistic picture of spending and help Puerto Rico avoid overspending and present an accurate financial picture to Government managers, taxpayers and other stakeholders. Furthermore, it would eliminate many one-time maneuvers and lead to genuinely balanced budgets once all the debt restructurings are consummated. The transition to modified accrual budgeting was one element that led to New York City's financial recovery in the 1970's, helping to establish stricter budgetary discipline on the city.

Four years of balanced budgets according to accrual based accounting method

Before PROMESA, Puerto Rico had a history of overstating revenues and understating, misstating, or not stating all of its expenditures in a given year. This lack of budgetary control enabled budgets which appeared to be balanced consistent with the Puerto Rico Constitution's requirements, to cause deficits and force borrowing, and resulted in the situation the Government faces today.

The key principles that will need to be met for the Government to achieve this requirement are the formulation of an accrual based budget, better monitoring of revenue and expenses,

³ Financial Oversight and Management Board of Puerto Rico, Research and Public Policy Department reporting

integration of the payroll systems, maintenance of an accounts payable ledger, and registration of purchase orders and budgeting for all other funds, not just the General Fund.

To fully implement accrual budgeting, the Government would need to adopt policies and train employees to record expenses, make sure adjusting entries are communicated and coordinated across agencies, and shift to having accruals and interagency reconciliations automated. Furthermore, revenues and expenditures must be periodically reviewed against the forecast to respond to changes and there must be detailed resolution certifications and expense system registration. Additionally, payroll must be adequately tracked, controlled, and integrated. Accounts payable must be automated and follow clear procedures. Purchase orders and other encumbrances must be booked for the entire year, at the beginning of the year, and as many special revenue funds as possible must be eliminated.

The Government has unfortunately not yet demonstrated meaningful progress in many of the key requirements for the termination of the Oversight Board. As shown in *Exhibit 8*, rapid progress will be needed across a number of dimensions to meet the key requirements under PROMESA.

EXHIBIT 8: PROGRESS TOWARDS ACHIEVING KEY REQUIREMENTS FOR THE TERMINATION OF THE OVERSIGHT BOARD

Requirement	Detail	Not started	Some Progress	Completed	Current Progress
Complete Sustainable Debt Restructuring	Exchanged/ New Debt				
	Muni bond market/ buyers				
	Investors				
Timely Financial Reporting	Timeline and Action Plan				
	Financial reporting division				
	Multiyear master audit contract				
	Implement monthly closing procedures				
	Strict monitoring and publish delays				
Budgets in accordance with modified accrual accounting standards	Accrual Budgeting				
	Revenue/Expenses				
	Payroll Systems				
	Accounts Payable				
	Purchase Orders				
	Other Funds				
Implementing a balanced budget	Payroll spending				
	Closing of books				
	Real time spending reports				
	Visibility into all funds				
	Financial accounting systems				

The 2021 Fiscal Plan includes a number of related actions that the Government must take to create the capabilities and momentum toward achieving these objectives. A strong, legislatively established, centralized Office of the Chief Financial Officer (OCFO) as outlined in *Chapter 15* will create the framework for strong financial management across the ~100 agencies and public corporations that make up the Commonwealth. Civil service reform, with particular focus on

financial management roles, can also help the Government attract and retain the workforce needed to implement and sustain the changes needed.

Chapter 3. Fiscal Plan updates due to natural disasters and emergencies

In recent years, the people of Puerto Rico have endured a series of natural disasters and emergencies without precedent in modern history.

On September 6, 2017 and September 20, 2017, respectively, Hurricanes Irma and Maria struck Puerto Rico, causing unprecedented humanitarian, economic, and infrastructure-related damages and upending the daily lives of Puerto Rico's over three million residents. Thousands of residents were left homeless, basic utilities were completely shut down, and schools, hospitals, and businesses were destroyed. Tens of thousands of local residents fled the Island. The Federal Government's response has become one of the largest and most complex disaster relief efforts in U.S. history.

The damage inflicted on Puerto Rico by the Hurricanes required the March 2017 Fiscal Plan to be revised. Therefore, on October 31, 2017, the Oversight Board formally requested that the Government submit a revised Fiscal Plan for the Commonwealth and its instrumentalities based on the new post-hurricane realities. After months of hard work, engagement with stakeholders, and intense negotiations with the Government, the Oversight Board developed and certified the April 2018 Fiscal Plan to reflect the post-hurricane environment. This Fiscal Plan also provided for the implementation of incremental structural reforms, in particular focusing on improving the competitiveness of the local labor market.

As a result of Government and Oversight Board discussions concerning the necessary legislative actions to deregulate and make the private sector labor market more competitive, the Oversight Board certified an updated Fiscal Plan in May 2018. This Fiscal Plan provided for a series of investments that would be contingent upon the successful implementation of key labor market reforms. Unfortunately, the lack of political will to enact this much needed private sector labor reform required the Oversight Board to update and certify another Fiscal Plan in June 2018 to reflect the removal of this element of structural reform from the plan and the growth forecasts. The October 2018 Fiscal Plan was subsequently certified to reflect actual revenue and expenditure numbers, refined healthcare projections based on actuarial estimates, new federal funding estimates, and changes in the Government's economic growth policy objectives.

The budgetary process under PROMESA requires the annually-certified budget to be consistent with the certified Fiscal Plan. In light of the many variables in the forecasts, the Oversight Board has chosen to annually update and certify a Fiscal Plan for accuracy and to serve as the most updated information for the purposes of certifying an annual budget. As a result, prior to the adoption of the FY2020 Certified Budget, the Oversight Board certified the 2019 Fiscal Plan, which incorporated updates for new information and data from a wide variety of sources. It revised the macroeconomic and population forecast in light of slower disaster relief funding roll out, faster unwinding of the associated stimulus, and more recent federal and Puerto Rico economic statistics. It also updated the forecasted economic impact of structural reforms to reflect slower than expected implementation. Finally, it re-balanced spending across agencies to enable investments in police and public safety, healthcare, and education.

In December 2019, just after the Oversight Board and Government had launched the 2020 Fiscal Plan process, an earthquake registering at a magnitude of 4.7 on the Richter scale hit Puerto Rico. This earthquake represented one of 1,000 overall earthquakes of magnitude 3 or greater that would hit the Island over the next couple months, with six being over magnitude 5.5 and one being the most destructive in Puerto Rico's history. Hundreds of structures, including homes, local

government institutions, small businesses, and houses of worship, have been damaged or destroyed by these devastating shocks.

In March 2020, on top of the Hurricanes and earthquakes, Puerto Rico confronted the COVID-19 pandemic, which created an unprecedented public health crisis. As of April 2020, the Island had officially confirmed 1,539 cases and 92 deaths.⁴ To counter the spread of the disease, the Government instituted the closure of businesses and established a curfew. The Oversight Board quickly made available \$787 million in funds for the Government, individuals and businesses. These funds were used to provide: direct economic support payments to self-employed individuals and small businesses, bonuses to frontline workers (including, nurses, police officers, firefighters, emergency medical services personnel, among others), funding for medical supplies, support to municipalities, resources for PRDE to purchase equipment to facilitate distance learning, and coverage for other incremental expenditures, such as additional public safety investments, health services spending in corrections, and funding for UPR's COVID-19-related research and development.

Soon after, the U.S. Federal Government approved several pieces of legislation—including the Families First Coronavirus Response Act and the Coronavirus Aid, Relief, and Economic Security Act (CARES Act)—providing ~\$18B in federal funds to the Island⁵. This relief package funded direct income support for individuals through expanded unemployment insurance benefits and a broad economic impact payments program, provided financial assistance to small businesses, included additional resources for education, healthcare, nutrition and housing assistance, delivered funds to support the local government, and supplied incremental funding to support strategic government services like transit and transportation, law enforcement, and justice.

It was in the midst of this unprecedented change to the economic and public health climate that the 2020 Fiscal Plan was certified. As with prior Fiscal Plans, it included updates for new information about government revenues, expenditures, and reform implementation efforts. It also included the projected impacts of the earthquakes and the COVID-19 pandemic. Given the pressures facing the Government in the context of the crisis, the Fiscal Plan provided a one year pause in incremental government efficiency savings expectations to allow the Government to focus on the implementation of needed efficiency and structural reforms. In light of the healthcare focus that the situation required, the 2020 Fiscal Plan included a full set of investments that aimed to strengthen the healthcare system in Puerto Rico, comprising capital expenses to enhance and expand health facilities across the Island, improve its digital infrastructure, and fund newly created programs designed to extend healthcare services coverage in public schools and rural areas. Finally, the 2020 Fiscal Plan also provided new investments to further bolster the education and public safety systems; funds to support municipal consolidations and to expand the technology sector and broadband access.

Roughly a year after the certification of the 2020 Fiscal Plan, the U.S. mainland and Puerto Rico have seen several changes. The effects of the COVID-19 public health crisis have been far reaching and devastating – both as a humanitarian crisis and economically. As of March 2021, Puerto Rico has experienced 97,713 cases of COVID-19 and 2,113 deaths due to the disease.⁶ The economy has suffered: as the risks of travel kept tourists at bay, hotel registrations fell by 95% from February to April 2020, and are just now starting to recover.⁷ Unemployment in Puerto Rico reached ~460,000 individuals at its peak, two times the previous number of individuals unemployed.⁸

4 Gobierno de Puerto Rico Departamento de Salud. "Informe de casos positivos COVID-19 (30 abril 2020)," Accessed 8 April 2021

5 This includes funds for Unemployment Insurance benefits, which are funded by both, the Federal Government and the regular local program funds

6 Gobierno de Puerto Rico Departamento de Salud, "Informe de casos positivos COVID-19 (31 marzo 2021)" Accessed 12 April 2021

7 Discover Puerto Rico, "Industry Update COVID-19 – May 1, 2020", 2020

8 Gobierno de Puerto Rico Departamento del Trabajo y Recursos Humanos, "Empleo y Desempleo en Puerto Rico," in Información del Mercado Laboral, 2021, and U.S. Bureau of Labor Statistics, "Employed persons by class of worker and part-time status" 2021

The effects of this sudden constriction in household income was felt across the Island; retail sales plummeted in April 2020 to just 38% of February 2020 levels, the lowest since 2012.⁹

Fortunately, vaccinations became available on the Island at the end of December 2020. As of April 13, 2021, Puerto Rico ranks in the top 6 globally for vaccinations¹⁰, with more than 16% of the total population fully vaccinated.¹¹ The Island also received additional federal support, with the Coronavirus Response and Relief Supplemental Appropriations Act (CRRSA)¹² and American Rescue Plan (ARP) Act bringing around \$7 and \$18 billion¹³, respectively, in federal funding to be available for recovery efforts in 2021. Significantly, the ARP Act created new and permanent economic support programs for the Island: an expanded Earned Income Tax Credit (EITC) program, with up to \$600 million in federal support, and permanent expansion of eligibility criteria of the Child Tax Credit (CTC). Both are projected to have permanent effects on income and growth, and the EITC expansion is expected to support timely realization of the human capital and welfare structural reform benefits. Finally, Puerto Rico saw a gubernatorial transition, with many agencies still working to return to normal while experiencing new leadership and staff.

The 2021 Fiscal Plan, like previous Fiscal Plans, includes updates for new information about the macroeconomic environment as well as Government revenues, expenditures and reform efforts. The Plan accounts for the effects of prolonged heightened unemployment rates on Island, as well as the impacts of federal and local stimulus countering economic shocks from COVID-19. The Plan outlines recent implementation progress on operational and structural reforms, and restores fiscal measures for FY2022 that had been paused in FY2021. Finally, the Plan includes targeted investments in Civil Service Reform and stated Government needs.

Looking ahead, the Island is still in need of support as it recovers from the pandemic. The Government must center all efforts on making the necessary changes to how the Government operates and delivers government services, as well as taking steps to improve the conditions for investment in the economy in a post-COVID-19 world. Now, more than ever, it is essential that the Government focus all of its attention and capacity on implementation to better serve the people of Puerto Rico in need of efficient government services and to eliminate barriers to economic development and recovery from the unprecedented economic damage caused by this series of disasters.

9 Banco de Desarrollo Económico para Puerto Rico, "Retail Sales," on Puerto Rico Economic Indicators, December 2020

10 Covid-19 vaccine tracker: the global race to vaccinate, Financial Times. Accessed 13 April 2021

11 Centers for Disease Control and Prevention, "COVID-19 Vaccinations in the United States" on COVID Data tracker. Accessed 12 April 2021

12 Representing Divisions M and N of the Consolidated Appropriations Act, 2021 H. R. 133

13 These amounts include funding for Unemployment Insurance benefits, which are funded by both, the Federal Government and the regular local program funds

PART II. Puerto Rico's path to fiscal and economic sustainability

Chapter 4. Macroeconomic and demographic trajectory

The 2021 Fiscal Plan includes an updated macroeconomic forecast reflecting the abrupt impact of the COVID-induced recession at the end of FY2020, followed by a rebound and recovery in FY2021 and expected to continue into FY2022.

The baseline economic outlook model, which forecasts real gross national product (GNP) growth, primarily relies on a comprehensive dataset of the Puerto Rican economy from 1965 to 2017. It includes dozens of variables that collectively describe the Puerto Rican economy (e.g., growth, population, capital stock, etc.), and is largely impacted by four major factors: (a) the pre-hurricane trendline of Puerto Rico, (b) impacts from the shocks of hurricanes, earthquakes, and COVID-19 on economic activity, employment and the capital stock, (c) the stimulative impact of federal and local relief assistance for hurricanes, earthquakes, and COVID-19 (discussed in *Section 4.2.3*), and (d) proposed government efficiency measures, investments, and structural reforms (discussed in *Part IV*).¹⁴

The COVID-19 pandemic has been a devastating and unprecedented health crisis for the Island, causing over 2,000 deaths and spikes in unemployment due to impacts on the tourism industry and Government lockdowns put in place to curb the spread of the disease. The shock of the pandemic on employment, as well as related local and federal stimulus funding, impacted Puerto Rico's economy in a variety of dimensions and directions. While economic activity was severely reduced, extraordinary unemployment insurance and other direct transfer programs more than offset the estimated income loss due to less activity. As a result, personal income has temporarily increased on a net basis.

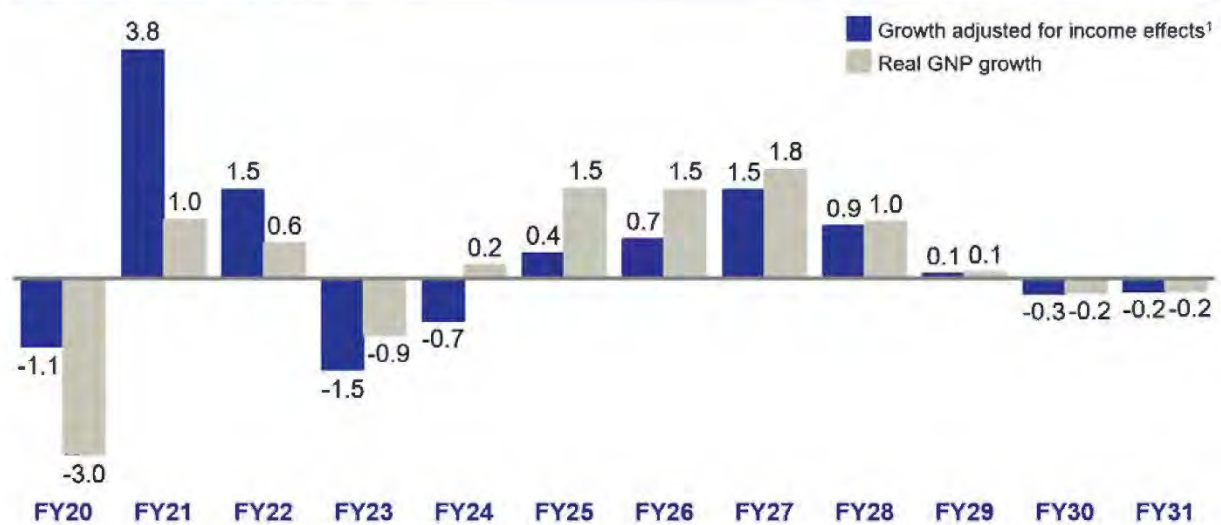
The 2021 Fiscal Plan has incorporated a real growth series that is adjusted for these short-term income effects for the purposes of forecasting tax receipts. The increased level of income is associated with higher levels of consumption and income tax collection in the short-term.

Exhibit 9 shows the real GNP growth rate projection and the adjusted growth rate with income effects, after the impact of measures, structural reforms, and disaster relief funding.

¹⁴ The forecast relies on a 60-year comprehensive dataset and applying statistical regressions to show the effects of multiple yet distinct inter-related components of past hurricanes, exogenous developments, and economic policies on growth and inflation

EXHIBIT 9: ECONOMIC GROWTH RATE AFTER MEASURES, STRUCTURAL REFORMS, AND DISASTER RELIEF FUNDING

Economic growth projections, %



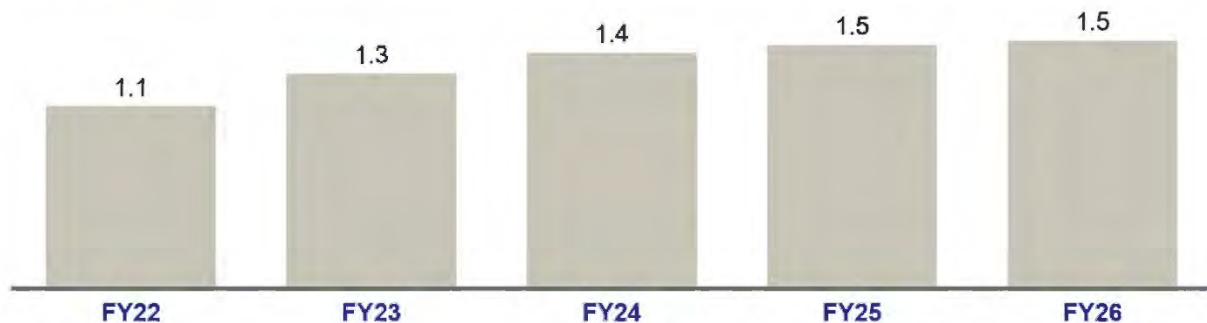
¹ Adjustment reflects the increase in personal income due to successive rounds of income support from federal COVID response legislation

Additionally, the 2021 Fiscal Plan includes the most recently published revision to the International Monetary Fund (IMF) Fiscal Affairs Department's estimates of capital depreciation. The IMF publishes estimates of capital depreciation of public and private capital stocks, as well as capital stocks from public private partnerships (PPPs), drawn from analyzing a comprehensive sample of around 170 countries starting from 1960 until 2017. The IMF now estimates a lower rate of depreciation, which in turn increases Puerto Rico's capital stock and consequent expected growth rate going forward.

The 2021 Fiscal Plan also uses Congressional Budget Office (CBO) U.S. inflation projections along with global forecasts of oil and food prices from the IMF's World Economic Outlook. Puerto Rico inflation projections are summarized in *Exhibit 10* and have been updated to reflect the latest inflation trend prior to the onset of COVID-19, as well as the collapse in world oil prices and the demand shock due to COVID-19.

EXHIBIT 10: ANNUAL PUERTO RICO INFLATION RATE

Annual inflation rate, %



4.1 Impact of the global COVID-19 pandemic

The COVID-19 pandemic created economic dislocation around the world. For Puerto Rico, the economic shock from COVID-19 came on top of multiple prior shocks in the last four years. Hurricanes Irma and Maria struck with devastating impact in September 2017, and the southern part of the Island was hit by the strongest earthquakes that the Island had seen in decades at the end of 2019. With the onset of the pandemic the economy of Puerto Rico virtually ground to a halt, as the public health imperative for people to stay home has left all but the most essential workers unable to travel to their places of business. The economy responded to the vast amount of local and federal stimulus funding, and an economic recovery is now underway, though there is still significant uncertainty about the future of the global, U.S. mainland, and Puerto Rican economies.

The Oversight Board has consulted numerous data sources and expert economists in both Puerto Rico and the U.S. mainland to obtain the best insights possible into the current economic conditions and prospects for recovery. However, there is no precedent for COVID-19 in the historical dataset that informs the 2021 Fiscal Plan's macroeconomic model. As such, the Oversight Board recognizes that there is considerable uncertainty around the near-term economic outlook, as even today there remains a wide range of potential public health and economic outcomes for Puerto Rico, the nation, and the world. Notwithstanding this uncertainty, the Oversight Board has worked to develop a reasonable forecast of the path forward with the information and experience currently available.

4.1.1 Impact of COVID-19 on the U.S. economy

Consistent with past practice, the Oversight Board primarily relies on U.S. government economic forecasts to establish the general economic conditions within which the economy of Puerto Rico evolves. The 2021 Fiscal Plan uses the latest Congressional Budget Office forecasts for U.S. GDP growth and inflation available as of April 2021¹⁵ as key inputs to create the forecast for the economy of Puerto Rico.¹⁶ CBO currently projects a stronger U.S. economy than it did in 2020, in large part because the downturn was not as severe as expected and because the first stage of the recovery took place sooner and was stronger than expected. These estimates are based on the assumption that the U.S. real gross domestic product (GDP) will reach pre-pandemic levels by this summer and employment levels will return to pre COVID-19 levels by 2024, as vaccination stays on track with what was observed by the beginning of February. The revised higher U.S. growth from CBO also translates into higher growth and revenues for the Commonwealth, as U.S. real GDP growth is a major input for the macroeconomic projection used in the 2021 Fiscal Plan.

4.1.2 Specific impacts of COVID-19 on the economy of Puerto Rico

After incorporating U.S. mainland growth estimates, the 2021 Fiscal Plan factors in certain economic effects that are specific to Puerto Rico. The approach accounts for two primary factors, which are outlined below: (i) lost income from an enduring spike in unemployment, and (ii) the relative amount of income that will be replaced by extraordinary Federal Government support.

To determine the lost income due to COVID-19, the Oversight Board has analyzed available public and private sector forecasts of U.S. unemployment and data from the Government of Puerto Rico and the U.S. Department of Labor on initial unemployment claims.

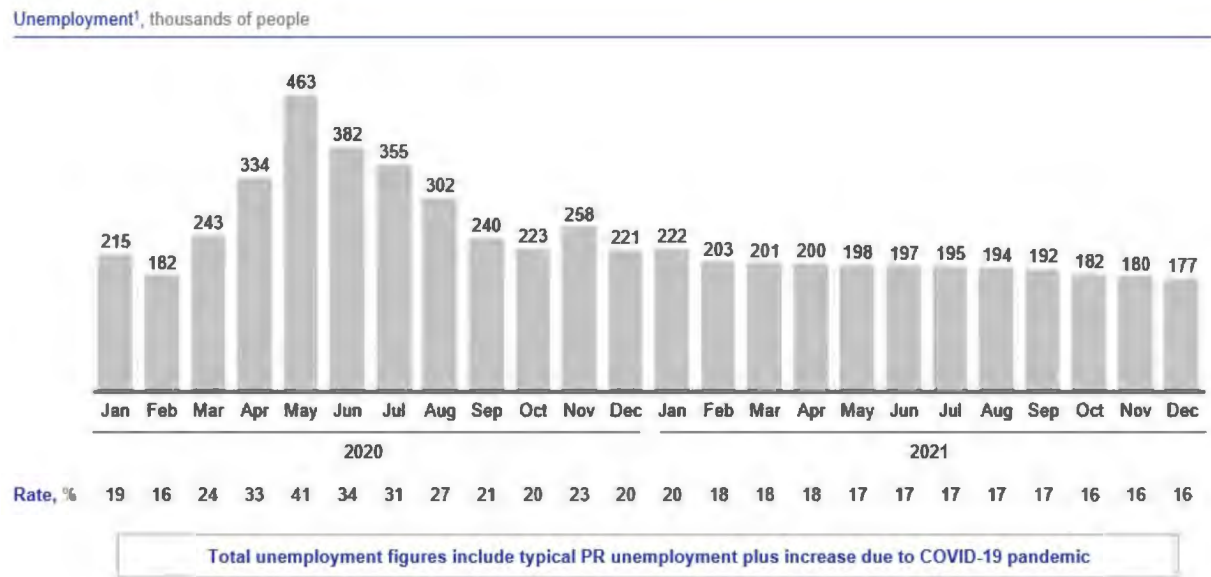
Exhibit 11 illustrates the unemployment forecast that the 2021 Fiscal Plan uses to estimate income loss on the Island. The forecast includes a gradual easing of unemployment figures through

¹⁵ The CBO last published projections for U.S. GDP growth in March 2021.

¹⁶ Congressional Budget Office, Long-Term Economic Projections, March 2021.

FY2021, though unemployment levels at the end of FY2021 are projected to be around 2.5 percentage points higher than at the onset of the crisis.

EXHIBIT 11: PUERTO RICO UNEMPLOYMENT FORECAST



¹ U6 unemployment figures

SOURCE: Departamento del Trabajo y Recursos Humanos, Bureau of Labor Statistics

In light of the economic hardship for the people of Puerto Rico, and the U.S. as a whole, the Federal and local governments have stepped in to provide much needed economic support for residents on the Island. The following sections describe how the 2021 Fiscal Plan treats the combined impact of ongoing disaster relief funding, as well as more recent economic support in light of COVID-19.

4.2 Federal and local relief spending for Hurricanes Maria and Irma, earthquakes, and the global COVID-19 pandemic

4.2.1 Disaster relief spending from the 2017 hurricanes

Disaster spending tends to have a short-term stimulative effect on an economy post-crisis, though not in the long term. In Puerto Rico, the level of committed public and private disaster relief spending is significant when compared to the overall size of the economy. Public and private disaster relief spending has and will continue to impact the economy in two ways:






- **Stimulative impact from post-hurricane disaster relief spending coming from aid packages equivalent to more than 100% of the Island's GNP.** This stimulus can come in multiple forms, such as construction companies hiring local, unemployed workers or workers from the mainland U.S. paying local withholding taxes and spending money for food and lodging.
- **Expected reconstruction of the capital stock on the Island.** The 2021 Fiscal Plan factors in significant damage to capital stock that is repaired, in large part, by this extraordinary infusion of federal and private monies, contributing to growth in the long-term.
- **The 2021 Fiscal Plan projects that ~\$84 billion of disaster relief funding in total,** from federal and private sources, will be disbursed in the reconstruction effort over a period of 18 years (FY2018 to FY2035). It will be used for a mix of funding for individuals (e.g.,

reconstruction of houses, personal expenditures related to the hurricane such as clothing and supplies), funding for the public (e.g., reconstruction of major infrastructure, roads, and schools), and to cover part of the Commonwealth's share of the cost of disaster relief funding (recipients often must match some portion of federal public assistance spend) (*Exhibit 12*).¹⁷

Of the total, ~\$47 billion is estimated to come from the Federal Emergency Management Agency (FEMA) Disaster Relief Fund (DRF) for Public Assistance, Hazard Mitigation, Mission Assignments, and Individual Assistance. An estimated \$7 billion will come from private and business insurance pay outs, and \$8 billion is related to other sources of federal funding.

The 2021 Fiscal Plan includes ~\$20 billion from the federal Housing and Urban Development (HUD) Community Development Block Grant - Disaster Recovery (CDBG-DR) program, of which ~\$2.7 billion is estimated to be allocated to offset the Commonwealth and its associated entities' expected FEMA-related cost-share requirements.¹⁸ This portion of CDBG-DR funding will go towards covering part of the ~10% cost-share burden on expenditures attributable to the Commonwealth, PREPA, PRASA, and HTA from FY2019 to FY2032. The 2021 Fiscal Plan allocates \$4.2 billion for Puerto Rico's cost-match responsibility. After the CDBG-DR funds, out-of-pocket cost-share is reduced to \$1.5 billion for Puerto Rico, of which \$1 billion is attributable to the Commonwealth.

EXHIBIT 12: PROJECTED PRIVATE AND PUBLIC DISASTER RELIEF FUNDING ROLL OUT

	FY18, \$M, %	FY19, \$M, %	FY20, \$M, %	FY21, \$M, %	FY22, \$M, %	FY23, \$M, %	FY24, \$M, %	FY25-FY35 \$M, %	Total, \$M	Total, %
FEMA Public Assistance, Hazard Mitigation, Mission Assignments¹ 	3,607	3,773	544	1,028	2,106	3,309	2,440	29,070	45,877	55%
	8%	8%	1%	2%	5%	7%	5%	63%		
FEMA Individual Assistance¹ 	2,050	241	145	52	50	50	-	-	2,587	3%
	79%	9%	6%	2%	2%	2%	0%	0%		
CDBG-DR 	-	-	-	125	737	1,328	1,618	16,416	20,223	24%
	0%	0%	0%	1%	4%	7%	8%	81%		
Private insurance 	3,001	2,895	606	936	-	-	-	-	7,437	9%
	40%	39%	8%	13%	0%	0%	0%	0%		
Other federal funding 	509	1,237	1,014	704	1,058	632	624	1,963	7,740	9%
	7%	16%	13%	9%	14%	8%	8%	25%		
Total	9,168	8,146	2,308	2,844	3,950	5,318	4,681	47,449	83,865	100%
CDBG cost share	-	-	-	21	96	177	216	2,700		

Disaster aid by source of funding, \$M



¹ Includes federal assistance for 2019/2020 earthquakes

The major sources of disaster relief funding are detailed below:

- **FEMA Disaster Relief Fund:** FEMA provides Individual Assistance to individuals and families who have sustained uncovered losses due to disasters. FEMA also provides Public Assistance to state and local governments and certain types of private not-for-profits for

¹⁷ Puerto Rico's cost-match responsibility was estimated using FEMA-provided data, adjusted by category as necessary for waivers and exceptions

¹⁸ Estimate based on early assessment of CDBG-DR and CDBG-MIT Action Plans for Puerto Rico (with public data as of March 15, 2021), as well as patterns of cost share coverage from CDBG-DR in previous storms

debris removal, emergency protective measures, and permanent repair to damaged or destroyed infrastructure. Through both its Public Assistance Program and Hazard Mitigation Grant Program, FEMA funds projects to reduce or eliminate long-term risks to people or property from future disasters.¹⁹

- **The U.S. Department of Housing and Urban Development (HUD) CDBG-DR:** HUD provides CDBG-DR funding that can be used for assistance to individuals, businesses, state agencies, non-profit organizations, and economic development agencies. Funds are to be used in the most impacted and distressed areas for disaster relief, long-term recovery, restoration of infrastructure, housing assistance, and economic revitalization. The 2021 Fiscal Plan uses Action Plans approved by HUD to estimate the allocation of these funds, with ~\$10 billion for disaster relief related activities, ~\$8 billion to be used towards mitigating risks and potential losses in the event of a future disaster and ~\$2 billion expected to be used to repair the Island's electric infrastructure. The total ~\$18 billion in disaster relief and mitigation funds include ~\$2.7 billion to cover cost-share for the Commonwealth and its instrumentalities.²⁰
- **Private insurance funding:** Large personal property and casualty losses have been incurred in the aftermath of Hurricanes Maria and Irma. An analysis of data from the Office of the Insurance Commissioner of Puerto Rico, adjusted for self-insured and other types of coverage, was used to determine the amount that has been paid out to individuals and businesses for major damages.
- **Other supplemental federal funding:** Additional federal funding has been appropriated to various agencies and projects in Puerto Rico following the hurricane. This money is directed at a wide range of recovery efforts, from reconstruction of damaged buildings (for example, funding to repair damage to Job Corps centers in Puerto Rico) to funding for health programs and environmental management (e.g., U.S. Department of Agriculture (USDA) funding to repair water systems in rural areas) to additional funds for the Nutritional Assistance Program (NAP).

Disaster roll out for FEMA funds has been projected by subcategory to account for differences in when funds are spent:

- Individual Assistance from FEMA was spent in the immediate aftermath of the storm
- Public Assistance Categories A & B and Mission Assignments are used for debris removal and emergency work, and therefore exhausted in the early years of the recovery
- FEMA Categories C-G and Hazard Mitigation are longer-term funding streams that are spread out over 18 years, based on the latest estimates regarding the time that it will take to finalize reconstruction

The 2021 Fiscal Plan incorporates the available data from the Central Office for Recovery, Reconstruction, and Resiliency (COR3) and Vivienda on disbursements of FEMA and CDBG-DR funds (i.e., for FY2018 to the first half of FY2021). The roll out of remaining FEMA funds is informed by the historical disbursement pace of FEMA funds in Puerto Rico, spending patterns in other jurisdictions impacted by major storms (e.g., Hurricane Katrina), and the spend plans developed by major subrecipients (e.g. PREPA, PRASA) specifically for the use of FEMA public assistance funding received. In the case of CDBG-DR funds, they are assumed to be disbursed through FY2035, informed by Puerto Rico Department of Housing's latest projections, with program types as published in the latest available Action Plans.

¹⁹ The 2021 Fiscal Plan does not attribute economic impact to FEMA's Administrative funding, which is used for FEMA's personnel (primarily outside of Puerto Rico), travel, and other internal costs

²⁰ As per the Puerto Rico Disaster Recovery Action Plan, April 2020, "the cost share matching requirements of many of these [FEMA] programs create a financial burden on subrecipients that will dramatically hinder the recovery process without supplemental funding. To substantially reduce this burden, PRDOH intends to leverage CDBG-DR to meet these matching fund requirements..."

The 2021 Fiscal Plan posits that, based on how disaster relief funds are spent, these funds will impact the economy in various ways: to build the capital stock of the Island through constructing and repairing buildings or utilities, to directly impact the economy through spurring consumption of goods and services on the Island, or to fund programs and services on the Island. The 2021 Fiscal Plan estimates a different rate of pass-through to the economy for each of these different types of funding as follows:²¹

- A 15.5% pass-through rate is assumed for funding that is used to construct and repair utilities, given the reliance on specialized labor and materials for such projects (e.g., FEMA Category F Public Assistance funding towards constructing public utilities). The rest of this funding flows to the Puerto Rico capital stock and therefore contributes to long-term growth.
- A 23.5% pass-through rate is used for funding that is employed to construct and repair residential, commercial, and school buildings given the ability to rely more on local labor and materials (e.g., repair to public facilities damaged by the storm). The rest of this funding flows to the Puerto Rico capital stock and therefore contributes to long-term growth.
- A 23.5% pass-through rate is assumed for funding that is directed towards programs and services (e.g., private insurance payments to reimburse personal auto expenditures), as this funding hits the Puerto Rico economy through the labor associated with importing and transporting. This type of spending does not contribute to the capital stock on the Island, and therefore does not contribute to long-term growth.
- A 100% pass-through rate is assumed for funding that is used directly and in full to replace income or stimulate spending on goods and services originating on the Island (e.g., disaster nutrition assistance). This type of spending does not contribute to the capital stock on the Island, and therefore does not contribute to long-term growth.
- CDBG-DR funds put toward cost-share are not passed-through to the economy. These funds are used towards the local share of FEMA projects whose value is already accounted for in the respective categories.

The 2021 Fiscal Plan also projects that \$750 million in working capital will be made available to address the liquidity constraints associated with the reimbursement nature of disaster relief programs. This will help to accelerate FEMA-approved reconstruction projects, particularly for permanent projects.²²

4.2.2 Federal and local economic support in response to the earthquakes

As shown in *Exhibit 12*, funding for the 2019 and 2020 earthquakes includes \$947 million in Public Assistance funding, of which \$440 million is for Category B – Protective Measures, \$231 million is for Category E – Public Buildings, and \$101 million is for Public Assistance Management Costs. The remaining amounts are divided between Hazard Mitigation (\$167 million), Individual Assistance (\$103 million), and Mission Assignments (\$6 million). The 2021 Fiscal Plan applies a 23.5% pass-through rate on these funds as they are directed toward the reconstruction of public buildings and facilities (see *Section 4.2.1*). The earthquake-related federal funding is assumed to impact the economy from FY2021 through FY2023.

4.2.3 Federal and local economic support in response to the COVID-19 pandemic

In response to the COVID-19 pandemic, both the Federal Government and Puerto Rico Government have launched major relief packages to contain and mitigate the spread of the virus, support residents and frontline workers, and help the Island's economy rebound.

²¹ Estimated using local contracts for PREPA, residential construction and school construction. These contracts were estimated to have between 10% and 18% pass-through on the economy, respectively, which was then augmented by 5.5% average spend on transportation and logistics on construction projects, which rely on 100% domestic labor

²² The working capital facility is considered a use of the Commonwealth balance sheet, not a Fiscal Plan expense

There have been multiple rounds of federal assistance which have included direct assistance to individuals and families, as well as funding provided to local governments to assist with pandemic response.

On March 18, 2020, the Families First Coronavirus Response Act was signed into law. The bill includes free COVID-19 testing for uninsured individuals, emergency paid sick leave, expanded family and medical leave programs, unemployment assistance, food aid, and federal funding for Medicaid.

On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security (“CARES”) Act was signed into law. The relief package allocated an estimated \$2.2 trillion to battle the harmful effects of the COVID-19 pandemic. The package was the largest fiscal stimulus package in modern American history and aimed to financially support both governments and businesses, provide relief to individuals, and expand COVID-19 response measures, as well as build future resiliency. The law provided \$150 billion of direct support to state and local governments. In addition, eligible individuals received a \$1,200 direct payment, as well as an additional \$500 for each dependent child, in each case subject to income phase-outs. The law also provided additional unemployment insurance benefits for individuals impacted by COVID-19, including incremental benefits of \$600 per week through July 31, 2020 and a 13-week extension in the amount of time that an individual could collect benefits (from 26 to 39 weeks). On April 24, 2020, Congress passed the Paycheck Protection Program and Health Care Enhancement Act, which extended certain provisions of the CARES Act. This package provides an additional \$482 billion for small businesses, healthcare providers, and expanded testing to address the COVID-19 pandemic.

On April 2, 2020, through collaboration with the Puerto Rico Government, the Oversight Board certified a \$787 million emergency measures support package, which offered direct assistance to workers and businesses (see *Exhibit 13*). The package was funded through \$500 million of incremental new spending (made available via a special appropriation), \$131 million for education related materials through existing federally-funded government contracts, and \$157 million through a reapportionment within the FY2020 Commonwealth General Fund budget.

EXHIBIT 13: PUERTO RICO EMERGENCY MEASURES SUPPORT PACKAGE PROVISIONS

	Category	Description	Total allocated, \$M	Disbursed as of April, \$M
Direct Payment to Self-Employed	Self-Employed	\$500 one-time cash payment for approximately 200,000 self-employed individuals	100.0	94.4
Direct payment to small businesses	Small businesses	\$1,500 one-time cash payment for approximately 40,000 small businesses	60.0	59.8
	Public Nurses	\$4,000 bonus per nurse (not including 272 Dept. of Correctional Health nurses)	23.2	14.9
	Private Sector Nurses	Bonus for private sector nurses	73.4	73.3
	Professional services nurses	Bonus for professional services nurses	22.6	13.8
Bonus for Medical and Support Staff	Dept of Correctional Health nurses	\$4,000 bonus per nurse	1.1	1.0
	Technicians	\$2,500 bonus for 600 technicians	1.5	0.1
	Others	Public sector pharmacists (116), medical technologists (3,834), Residents-MD (805)	4.8	4.2
	EMS personnel	581 staff	2.0	1.7
	Police Officers	11,850 front office roles (does not include 600 currently reported under leave of absence)	46.6	45.2
	Firefighters	1,455 front office roles (does not include 65 reported under leave of absence)	5.1	5.1
	Emergency Management	112 front office roles (does not include 12 reported under leave of absence)	0.4	0.4
Bonus for Certain DPS Employees	911 service	154 front office roles (does not include 2 reported under leave of absence)	0.5	0.5
	Special Investigations Unit	74 front office roles	0.3	0.1
	Forensics	220 front office roles	0.8	0.8
	Municipal police	\$4,000 bonus for 3,428 officers	11.8	11.2
	Municipal firefighters	\$3,500 bonus for 50 officers	0.4	0.1
Bonus for Court Staff	Court staff on duty	\$1,000 bonus for 400 officers	0.8	0.8
Bonus for Hacienda Internal Revenue Agents	Internal revenue agents on duty	\$2,000 bonus for 250 agents	0.5	0.5
Materials for the Department of Education	Dept. of Education teachers, students, and directors	Purchase of tablets, software, training for approximately 325,000 individuals	124.3	52.0
		Materials for 159,330 individuals will be paid by the U.S. Department of Education through two contracts	130.6	124.0
Hospital Investments	Public Hospitals	\$15M per month for two months for medical supplies not directly related to COVID-19	30.0	13.5
Public Safety Investments	Department of Public Safety	\$20M for equipment and capital expenditures	20.0	7.3
Support to the Municipalities	Municipalities	\$50M per month for two months based on population by municipality (3-tier division)	100.0	100.0
Bonus for Corrections Employees	Department of Corrections	\$3,500 bonus per front-line Corrections staff	16.8	15.0
	Correctional Health	\$3,500 bonus per front-line Correctional Health staff (non-nurses)	0.5	0.4
HTA	Cost of moratorium on tolls	Loss of outstanding \$3M monthly receipts for two months	6.0	0.6
UPR	UPR COVID-19 R&D	Funding for COVID-19-related research and development in UPR	1.7	0.0
Reserve	Reserve	Reserve (will be transferred to first responders and healthcare agencies on an as-needed basis to cover any deficiency in the distribution of the cash incentives)	2.0	1.8
Total Local Funding			787.7	643.6

These funds have played an essential role in helping to mitigate the unprecedented economic damage from the sudden economic shock caused by the pandemic.

On December 27, 2020, the Coronavirus Response and Relief Supplemental Appropriations Act of 2021 (CRRSA) was signed into law. The law provided an additional \$900 billion in COVID-19 relief. The CRRSA Act allocated no additional funds to states and territories, but it extended the deadline to use Coronavirus Relief Funds, Title V of the CARES Act, by one year. It also provided economic support to businesses and funding to promote testing, contact tracing and vaccine distribution. The 2021 Fiscal Plan includes an estimate of what portion of these federal funds are estimated to be allocated to Puerto Rico.

On March 11, 2021, the American Rescue Plan (ARP) Act of 2021 was signed into law. This COVID-19 relief package allocates \$1.9 trillion to provide direct relief to Americans, reopen schools, and support a national vaccination program. Major components of the bill include:

- **Economic Impact Payments (EIP):** Eligible individuals will each receive a \$1,400 direct payment, as well as an additional \$1,400 for each dependent, in each case subject to income phase-outs. For example, married filers with two dependents that qualify for the program will receive \$5,600. It is estimated that more than 85% of households will receive a direct payment. Additionally, the definition of qualifying dependents expanded to include full-time students younger than 24 as well as any adult dependents such as adults with disabilities or grandparents.
- **Expanded Unemployment Benefits:** The law extends the current, expanded unemployment benefits through September 6, 2021 to continue addressing unemployment caused by the COVID-19 public health emergency. This extension includes the Pandemic Unemployment Assistance (PUA), the Federal Pandemic Unemployment Compensation (FPUC), and the Pandemic Emergency Unemployment Compensation (PEUC). Furthermore,

the law extends the Families First Coronavirus Response Act (FFCRA) unemployment provisions that ensure full federal financing of extended benefits through September 6, 2021.

- **Child Tax Credit (CTC):** The bill permanently removes the provision that requires a three (3) child minimum for Puerto Rico residents to claim the Child Tax Credit, and removes the phase-in for the credit for calendar year 2021. The Child Tax Credit typically begins phasing in for incomes above \$2,500, at a rate of 15% per dollar above the \$2,500 threshold until the maximum credit is reached. When filing federal taxes for tax year 2021, Puerto Rico residents below the phase-out rate will receive the full Child Tax Credit for all children. Additionally, and for tax year 2021 only, eligible filers will receive an increased Child Tax Credit of \$3,600 per child under six (6) years of age and a Child Tax Credit of \$3,000 per child six (6) years of age through 17 years of age. For example, married filers below the phase-out rate with children aged four (4) and twelve (12) will receive \$6,600. When filing federal taxes for tax year 2022, the Child Tax Credit for Puerto Rico families is reduced back to \$1,400 per child, but the three-child minimum requirement has been permanently lifted. This means that when filing federal taxes for tax year 2022, the same family as before (given the family has enough income to be above the phase-in level), now with children aged five (5) and thirteen (13) will receive \$2,800. Under the previous regulations, that family would not have been eligible for any Child Tax Credit.
- **Earned Income Tax Credit (EITC):** In the mainland, the ARP significantly increases the maximum credit amount for previously excluded adults without children for tax year 2021. For Puerto Rico, the law includes up to \$600 million in annual federal fund matching to incentivize the Government to permanently expand the local EITC program. That amount would be delivered in the form of a reimbursable grant equivalent to three times (3X) the local spending, and indexed for U.S. inflation after the first year, thereby drastically expanding the size of the EITC program (which is currently supported by only \$200 million per year in local Government funds) on Island.
- **Elementary and Secondary School Emergency Relief Fund (ESSER):** The law expanded upon the education provisions outlined in the CRRSAA and provides additional funding to elementary and secondary education, which remains available for obligation through September 30, 2023. The use of these funds remains flexible, meaning State Education Agencies (SEAs) and Local Education Agencies (LEAs) can use them to address a variety of needs. These include, but are not limited to, addressing learning loss, maintaining social distancing, hiring support staff, and enhancing ventilation systems. In April 2021 the U.S. Department of Education released additional formal guidance on how to calculate the Maintenance of Effort (MOE) requirements associated with this fund and the Governor's Emergency Education Relief (GEER) Fund, also provided under the CARES and CRRSA Acts. The guidance explains how states and territories should determine what level of state spending on elementary, secondary, and higher education is required in order to comply with the MOE requirements in these relief packages, as well as procedures for seeking waivers. The Oversight Board is analyzing this guidance to determine what, if any, implications the MOE requirements have on the Commonwealth, UPR, and PRDE funding provided in the 2021 Fiscal Plan and FY2022 Commonwealth Budget.
- **State and Local Aid:** The law includes \$360 billion in direct support to state and local governments. Puerto Rico's share of funds are split between the territory, counties, metropolitan cities, and towns with fewer than 50,000 people. These funds will be used to cover costs incurred by December 31, 2024, and the funds allow Puerto Rico flexibility to respond to and address local needs. The Government is in the process of designing a disbursement program for these funds. But it will ultimately depend on further guidance from the U.S. Treasury on how it can use these funds.

The 2021 Fiscal Plan includes an estimate, shown in *Exhibit 14* below, of what portion of federal funds included in the aforementioned bills will be allocated to Puerto Rico, based on a variety of sources. The American Rescue Plan (ARP) Act requires the lead federal agencies for each program

to establish the terms and conditions that will provide additional guidance on how the funds will be allocated as well as eligible uses. The Oversight Board expects the Government to apply forthcoming guidance to maximize the impact of these federal funds on Island, and will work to identify current or incremental expenditures that could be covered by extraordinary federal funds. Given the terms and conditions and allocations of these funds are not finalized, the figures in the exhibit are subject to change.

EXHIBIT 14: ESTIMATED COVID-19-RELATED FEDERAL FUNDS ALLOCATED TO PUERTO RICO

Stimulus phase	Category	Estimated Puerto Rico Funding, \$M
Phase 1&2 (03/06 and 03/18/20)	Phase 1: Preparedness & Response Supplemental Appropriations Act	31
	Phase 2: Families First Coronavirus Response Act	377
	Sub-Total, Phase 1 & 2	408
Phase 3 CARES Act (03/27/20)	Unemployment Insurance (includes Regular UI program and FPUC, PEUC, PUA, EB, and LWA programs) ¹	6,632
	Small Business Support programs (Paycheck Protection Program, Economic Injury Disaster Loan Program)	3,205
	State and local governments support (Coronavirus Relief Fund)	2,241
	Economic Impact Payments (\$1,200 checks)	2,736
	Education funds (includes ESSER, GEER, and HEER funds)	760
	Disaster Relief Funds (allocated to states and territories by FEMA)	738
	Economic Stabilization Loans	73
	Nutrition and housing assistance	428
	Hospitals and healthcare funding	494
	Business and individual tax incentives	335
	Transit and infrastructure funding	228
	National Guard, Law Enforcement, and Justice funds	16
	Other Division B programs	144
	Sub-Total, CARES Act	18,029
Phase 4 CRRSA Act (12/27/20)	Unemployment Insurance (includes Regular UI program and FPUC, PEUC, PUA, EB programs) ¹	1,200
	Small Business Support programs (Paycheck Protection Program, Economic Injury Disaster Loan Program)	1,136
	Economic Impact Payments (\$600 checks)	1,493
	Education funds (includes ESSER, GEER, and HEER funds)	1,924
	Nutrition and housing assistance	1,024
	Hospitals and healthcare funding	395
	Transit and infrastructure funding	96
	Other CRRSA Act minor programs	100
	Sub-Total, CRRSA Act	7,368
Phase 5 ARP Act (03/11/21)	Unemployment Insurance (includes Regular UI program and FPUC, PEUC, PUA, EB programs) ¹	2,812
	Economic Impact Payments (\$1,400 checks)	3,609
	Education funds (includes ESSER and HEER funds)	3,714
	State and local governments support (includes funds for municipalities)	4,209
	Nutrition and housing assistance	1,319
	Hospitals and healthcare funding	1,352
	Public transit funding	184
	Other ARP Act minor programs	528
	Sub-Total, ARP Act	17,727
Total	Total Federal Funding	43,532

¹ Additional payouts will come from Commonwealth spending, but are grouped together here as stimulus along with the related Unemployment Insurance items in the CARES act

The 2021 Fiscal Plan incorporates the combined effect of federal and local economic support in three ways. First, certain types of funding intended to prevent revenue and job loss are assumed to mitigate what otherwise would have been even higher unemployment and revenue loss had those funds not been provided. These funds are implicitly reflected in the 2021 Fiscal Plan because, without them, the income loss estimates would have been larger. The federal Paycheck Protection Program, which is designed to encourage businesses to keep employees on the payroll, is one example of this type of funding.

The second type of funds are those administered through economic support programs designed to provide income support directly from the Federal or local government. Examples include unemployment benefits, economic impact payments, and direct payments through increased benefits of regular Nutrition and Rental assistance programs.

The total amount of income replacement funds included in the 2021 Fiscal Plan is estimated to more than offset the forecasted income loss due to the COVID-19 pandemic. Based on recent research on stimulus funds spending,²³ the 2021 Fiscal Plan estimates that around 60% of income

²³ Federal Reserve Bank of New York, "How Have Households Used Their Stimulus Payments and How Would They Spend the Next?," 2020

support funding will be spent over the FY2020-FY2023 period.²⁴ The remaining 40% of funds is projected to be saved and/or used to pay down debt, and then is spent over a 30-year period according to the long-term consumption smoothing concept.²⁵

Finally, for *government expenditures and programs funded by federal and local economic support programs*, the 2021 Fiscal Plan uses the same approach as it does in estimating the pass-through of these expenditures to Puerto Rico as has been used for other types of economic stimulus funding such as disaster-recovery spending. Specific pass-through rates used on this funding are detailed below:

- A 23.5% pass-through rate is applied to spending on government programs and services. Examples include funding for law enforcement and the National Guard in Puerto Rico.
- A 5.5% pass-through rate is assumed for funding that is primarily directed to acquisition of goods that will predominantly be sourced off-Island. This funding impacts the Puerto Rican economy only through the on-Island transportation of such goods. Examples of this are testing and medical equipment, or educational supplies to facilitate distance learning.

Additionally, the 2021 Fiscal Plan accounts for the impact on growth that permanent changes in EITC and CTC programs are expected to deliver. The expanded EITC program is expected to represent an inflow of up to \$600 million per year. This positive impact on the economy and growth, however has an additional fiscal cost of increased local funding required to fund the minimum local spending requirement to attain the maximum federal funds available under the ARP Act. The CTC program is expected to have a positive impact on GNP in the short-term due to temporary benefits under the ARP Act, and in the long-term due to the recurring additional funds that it will provide to beneficiaries.

4.3 Impact of fiscal or government efficiency measures

Government efficiency measures seek to streamline and transform the Government of Puerto Rico to deliver critical government services to the population and business sector more efficiently by optimizing revenue collection and reducing government-wide expenditures, while ensuring sustainability of those services over time given population trends. Such policy actions will generate a contractionary impact on the economy in the short term but are necessary to drive government efficiency and fiscal sustainability, as well as improve service delivery, in the long term. The net effect of these two forces is still significantly positive from a fiscal savings perspective through FY2051. The short-term macroeconomic impact of the measures is summarized in *Exhibit 15*.

²⁴ National Bureau of Economic Research, "Transfer Payments and the Macroeconomy: The effects of Social Security benefit changes," 2014

²⁵ The duration of the period was calculated as the difference between the average life expectancy for people over 18 years of age in Puerto Rico and the average age of people over 18 years of age in Puerto Rico

EXHIBIT 15: MACROECONOMIC IMPACT OF FISCAL MEASURES

Fiscal Measures Effect on Real GNP, %



The 2021 Fiscal Plan assumes that the fiscal impact of disaster relief spending and fiscal measures is not permanent, but rather is unwound over the course of several years. The 2021 Fiscal Plan unwinds these over five years, as model-based and econometric studies find that the output effect of an exogenous fiscal shock typically disappears within five years, even if fiscal measures are permanent.²⁶

4.4 Impact of structural reforms

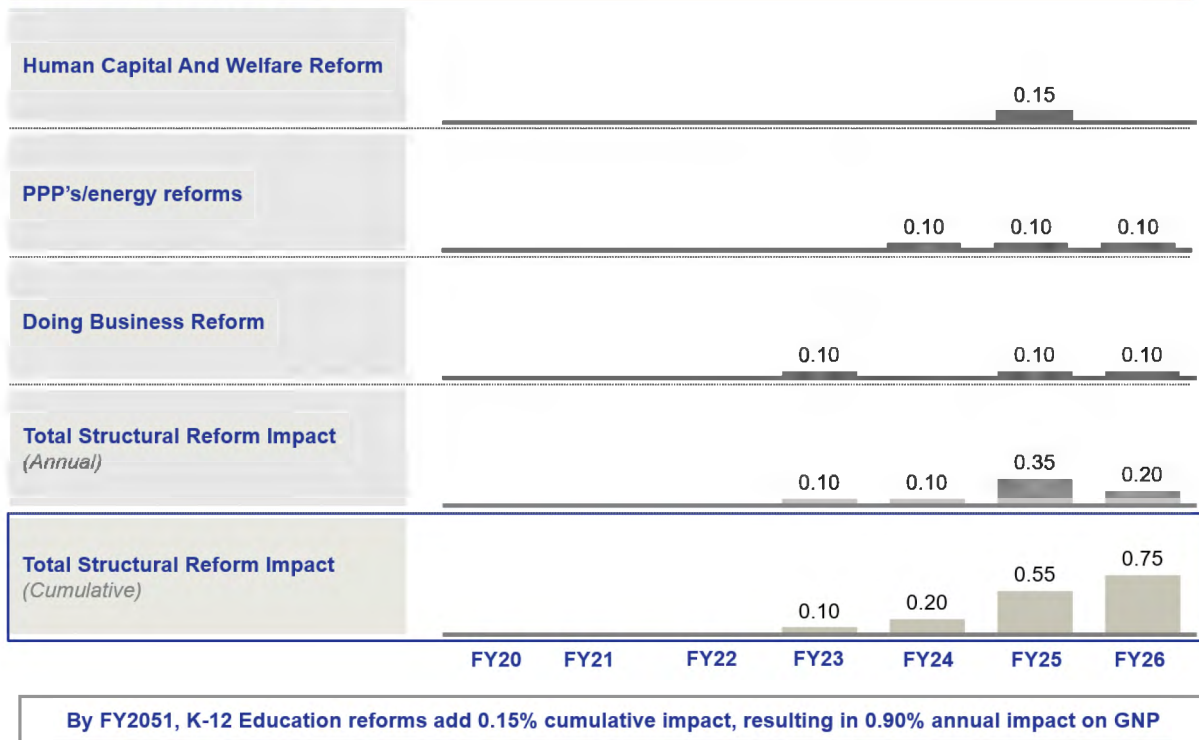
The estimated impact of **structural reforms** is based on work done by the International Monetary Fund on labor reforms implemented in Europe (e.g., Spain and Estonia) and South America (e.g., Peru and Colombia), among other jurisdictions; utilities reform in Latin America; broadly-accepted metrics for measuring improvement in the World Bank's Doing Business Rankings (as well as examples of growth experienced by countries that have implemented such reforms); and education reforms in Europe and elsewhere. Structural reform benchmarks, to the extent possible, come from nations or jurisdictions that face similar constraints to Puerto Rico (e.g., limited monetary policy options, high informal labor markets).

Energy and ease of doing business reforms are projected to increase GNP by 0.60% by FY2026, and human capital and welfare reform is expected to add another 0.15% in FY2025 (*Exhibit 16*). Finally, K-12 education reforms add an additional 0.01% annual impact beginning in FY2037, **resulting in total GNP increase from structural reforms of 0.75% by FY2026 and 0.90% by FY2051**. The anticipated timing of the incremental positive impact of these reforms has been delayed in this 2021 Fiscal Plan given the delay in the Government's implementation efforts.

²⁶ Batini, N. Eyraud, L. and Weber, A. "A Simple Method to Compute Fiscal Multipliers", IMF Working Paper WP/14/93, as well as Mountford, A. and Uhlig, H. "What are the Effects of Fiscal Policy Shocks?" *Journal of Applied Econometrics*, 24: 960-992 (2009) and Jorda, O. and Taylor, A. "The Time for Austerity: Estimating the Average Treatment Effect of Fiscal Policy," *Economic Journal*, 126: 219-255, February 2015

EXHIBIT 16: MACROECONOMIC IMPACT OF STRUCTURAL REFORMS

Structural Reform Effect on GNP, %



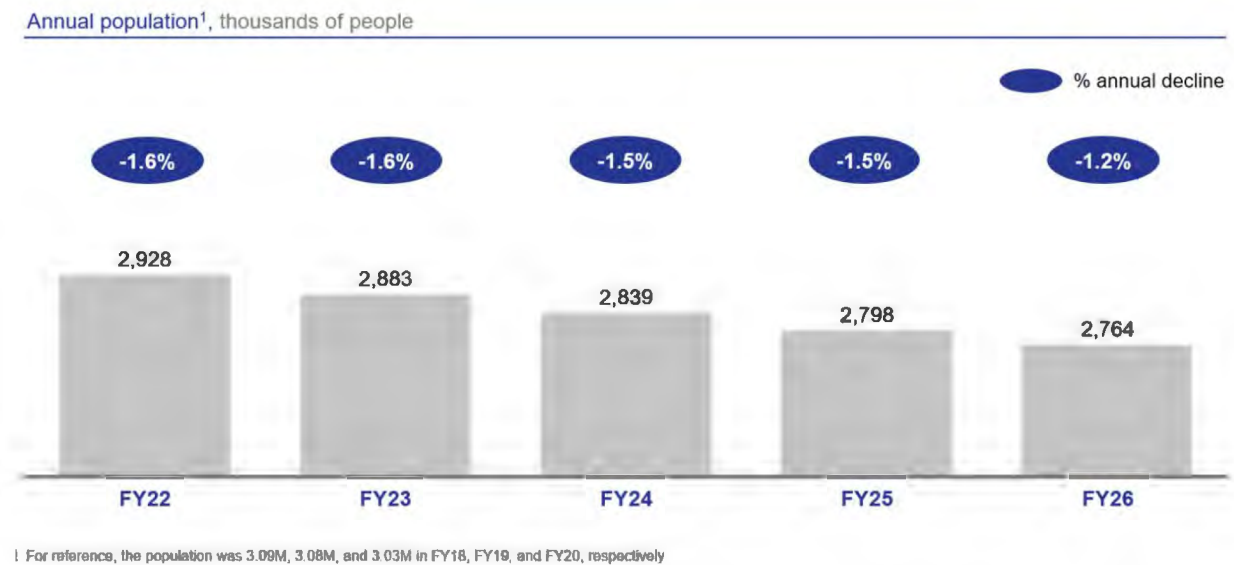
4.5 Population projections

Even before Hurricanes Maria and Irma hit the Island in 2017, Puerto Rico's population had been trending downward by 1-2% every year as residents have left to seek opportunities elsewhere and birth rates declined. In 2016, the U.S. Census Bureau's official forecast, projected a worsening population outlook due in large part to Puerto Rico's rapidly-aging population. This high average age range results from extremely low age-adjusted birth rates and outmigration of younger people. Indeed, in 2016, Puerto Rico began to experience negative natural population change (a higher number of deaths than births). This negative natural change has continued unabated into 2021.

Hurricanes Irma and Maria served to compound the problem, spurring an additional outflow of people just as natural population decline has set in, as many residents lost houses, jobs, and loved ones. While some of these people have returned, the population is still projected to decline over the course of the 2021 Fiscal Plan period and beyond. Further disasters, such as the series of earthquakes experienced in 2020, have not made a swift return to balanced migration any more likely. But while net migration is a larger driver of population change in the short term, this factor is volatile; in the long run, net migration is projected to return to more balanced trends. Meanwhile, natural population change is not guaranteed to rebalance at any point, and births are likely to continue declining, while deaths are projected to slowly rise in the mid-term. COVID-19 has suppressed air traffic between Puerto Rico and the mainland, and thus impacted migration, but this effect is expected to be transitory.

As outlined in *Exhibit 17* below, this 2021 Fiscal Plan projects that by FY2026, there will be almost 10% fewer people living on the Island than in FY2019, and that by FY2051, the drop will grow to 33%.

EXHIBIT 17: PROJECTED POPULATION CHANGE



Chapter 5. Fiscal Plan financial projections (FY2022-FY2026)

In the past several years, Puerto Rico has endured a tumultuous economic climate due to natural disasters and the COVID-19 pandemic. This has had a direct impact on economic growth and, ultimately, on Government revenues. The impact to Puerto Rico has been a real GNP decline in FY2020 followed by a rebound in FY2021 and FY2022 as the full impact of the federal economic support takes hold.

Before measures (i.e., in the “baseline forecast”), there is a pre-contractual debt service deficit starting in FY2023 in the 2021 Fiscal Plan.²⁷ This deficit gets worse over time, as federal disaster relief funding slows down, Supplemental Medicaid funding phases out, Act 154 and Non-Resident Withholding revenues decline, and healthcare expenditures rise.

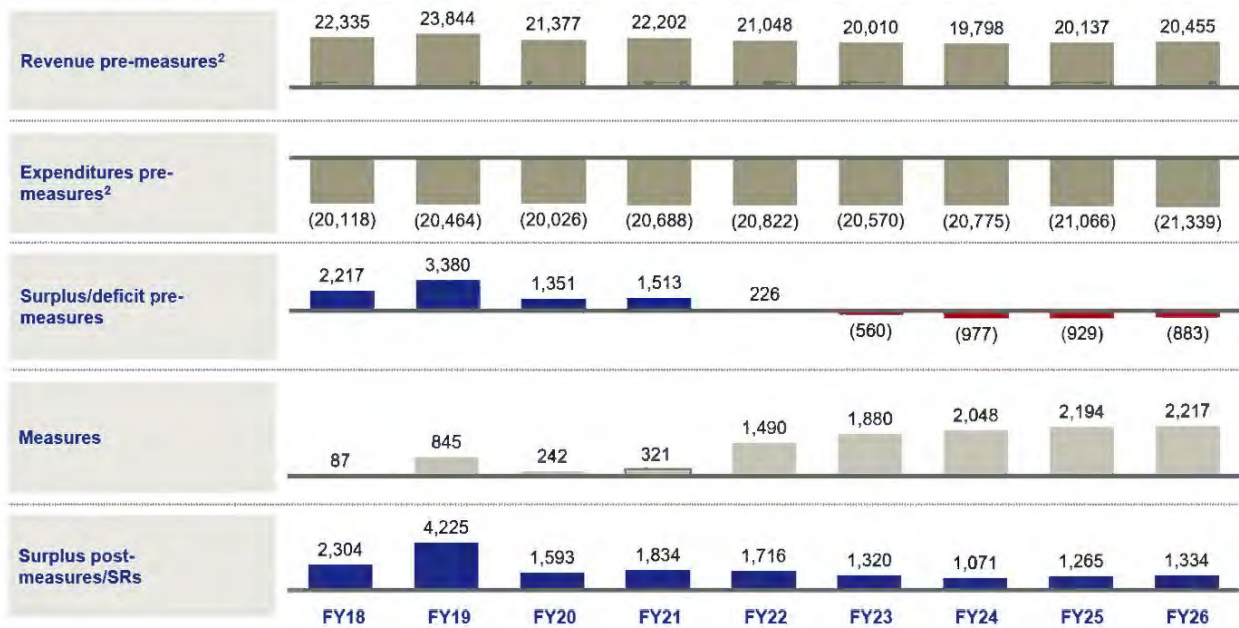
The fiscal measures and structural reforms contained in the 2021 Fiscal Plan are the main drivers of a significant portion of the surplus in the 2021 Fiscal Plan. Fiscal measures will drive ~\$10.0 billion in savings and extra revenue over FY2022-FY2026 and structural reforms will drive a cumulative 0.90% increase in growth by FY2051 (equal to ~\$30.7 billion). However, even after fiscal measures and structural reforms, and before contractual debt service, there is an annual deficit reflected in the projections starting in FY2036. This is, in large part, due to insufficient implementation of structural reforms proposed in previous fiscal plans, including continued highly regulated and restrictive private sector labor market policies that prevent higher growth, a delay in rolling out the NAP work requirement to increase labor force participation rates, and a lack of progress implementing more meaningful ease of doing business reforms to improve the economy’s competitiveness and attract greater levels of investment and job creation. *Exhibit 18* illustrates the projected deficit / surplus through FY2026.

Projections for FY2027 onwards are included in *Chapter 6*.

²⁷ The baseline forecast also reflects the pledge of a portion of annual SUT revenues to COFINA creditors as per the terms of the COFINA Title III Plan of Adjustment

EXHIBIT 18: PROJECTED DEFICIT / SURPLUS PRE- AND POST-MEASURES

Projected deficit / surplus pre- and post-measures¹, \$M



¹ Values presented assume full and timely implementation of structural reforms and reflect GNP uplift due to these reforms
² Revenues and expenditures excluding gross up adjustments; revenues do not include Earned Income Tax Credit

5.1 Baseline revenue forecast

Major revenue streams (*Exhibit 19*) include non-export sector General Fund revenues (including individual, corporate, and sales and use taxes) and export sector revenues (including Act 154 excise taxes paid by multinationals operating on the Island, and Non-Resident Withholdings), as well as federal funding. The 2021 Fiscal Plan also includes certain Commonwealth revenues that prior to PROMESA the Commonwealth appropriated to certain instrumentalities pursuant to statutes enacted by prior legislatures; the inclusion of these revenues in the 2021 Fiscal Plan is based on the Oversight Board's legal conclusions that (i) such monies are property of the Commonwealth, (ii) each pre-PROMESA statute appropriating or transferring such monies to instrumentalities of the Commonwealth is preempted by PROMESA, (iii) such statutes were enacted by prior legislatures that cannot bind the current legislature, and (iv) in any event, absent PROMESA under the Puerto Rico Constitution, such monies would not be transferred to the instrumentalities while General Obligation debt is not being paid according to its terms.

There is expected to be significant near-term uncertainty in the level of revenue collections, as the post-COVID recovery is constantly evolving. Since the 2020 Fiscal plan, there have been multiple rounds of additional federal economic support, which has contributed to faster than expected economic recovery at the national and local level. As a result, tax collections have been generally higher than forecasted in the 2020 Fiscal Plan. Relative to the 2020 Fiscal Plan, General Fund revenues are expected to be ~14% higher in FY2021 and ~9% higher in FY2022.

EXHIBIT 19: MAJOR REVENUE STREAMS POST MEASURES

Key general fund revenue drivers, post-measures, \$M

Personal income tax ¹	2,105	2,115	2,116	2,173	2,219
Corporate income tax	2,054	2,017	1,997	2,069	2,110
Sales and use tax ²	2,239	2,219	2,214	2,253	2,292
Act 154	1,631	1,447	1,199	1,199	1,199
Non-resident withholdings	349	349	350	354	358
Other general fund revenues ³	1,829	1,730	1,677	1,699	1,726
FAM portion of SUT	130	130	130	133	136
Incremental excise taxes on off-shore rum	175	141	143	144	146
Petroleum, gasoline, diesel taxes	562	637	636	637	638
Vehicle license fees	134	132	131	132	133
CRIM property tax inflows	140	146	148	150	153
Miscellaneous other	233	215	215	217	219
Total	11,582	11,278	10,957	11,160	11,330
	FY22	FY23	FY24	FY25	FY26

¹ Includes expense related to EITC

² Sales and use tax (SUT) reflects collections after payout of the COFINA settlement

³ 'Other' general fund revenues include cigarette, rum, motor vehicles, alcoholic beverages, and other GF taxes, exclude adjustments for revenue gross up

Additional details on the 2021 fiscal plan revenue streams are provided below, with details on the financial projections included in the Appendix. The following sections describe the approach to estimating revenues for key revenue streams.

5.1.1 Non-export sector General Fund revenue projections

Individual income taxes: Individual income taxes are highly concentrated, with 78.2% of revenues coming from the 8.7% of tax returns reporting income above \$60,000 in FY2018.²⁸ The 2021 Fiscal Plan incorporates the expected incremental individual income tax collections associated with disaster relief spending, as well as the performance of individual income tax collections that have been more resilient in FY2021 than forecast in the 2020 Fiscal Plan. The 2021 Fiscal Plan projects that disaster relief spending will continue to contribute to the income tax base, either through mainland workers temporarily working in Puerto Rico or from Puerto Rican residents entering the formal economy as a result of disaster relief projects.

Corporate income taxes: There is also concentration in tax receipts among the largest corporations operating in Puerto Rico (e.g., ~29% of corporate income taxes are paid by 20 corporate taxpayers).²⁹ Historical aggregated data from Hacienda show that in the aftermath of the 2017 hurricanes, there was an influx of corporate activity spurred by reconstruction funding and mainland-based firms entering the Island's economy. This had led to higher corporate income taxes relative to GNP in FY2018 and FY2019, and this trend was continuing in FY2020 prior to the onset of COVID-19. The 2021 Fiscal Plan incorporates the contribution of disaster relief spending to the corporate tax base into future years. Further, the 2021 Fiscal Plan reflects certain adjustments to corporate income tax revenues attributable to one-time M&A activity, which

²⁸ Hacienda historical reports as of April 2018

²⁹ Ibid.

resulted in a non-recurring \$488 million of revenues in FY2020 and ~\$39 million in reduced corporate income taxes starting in FY2021, as projected by Hacienda.

Sales and use taxes (SUT): As with corporate and personal income taxes, SUT outperformed relative to GNP in FY2018 and FY2019, likely boosted by the increased economic activity resulting from the post-disaster reconstruction process (including through the replacement of lost inventory) and higher SUT compliance by larger firms less impacted by natural disasters. The 2021 Fiscal Plan incorporates incremental tax collections as disaster relief continues in future years. A portion of SUT collections will also be used to fund COFINA's obligations under its Plan of Adjustment going forward. This portion reaches ~\$1 billion annually starting in FY2041.

Partnership income taxes: Act 60-2019 extended an alternative tax election for taxpayers to pay income taxes at the Partnership level at preferential tax rates. This change in tax administration resulted in a new category of revenue collections of ~\$205 million³⁰ for FY2021 (as of February 2021). These payments largely reflect payments that otherwise would have been made by the partners in these entities and therefore would have been reported as personal or corporate income tax. A portion of the incremental collections have been considered non-recurring given the concentration of the payments in a small number of taxpayers and sectors. The 2021 Fiscal Plan forecasts ~\$100 million of the increase in collections to be recurring.

Other General Fund revenue (including Motor Vehicles, Alcoholic Beverages, and Cigarettes): Motor vehicle revenue tax receipts surged in FY2018 and this trend continued into FY2021, as residents continued to accelerate motor vehicles purchases in the aftermath of the 2017 hurricanes and during the COVID-19 pandemic as federal stimulus payments reached the Island. The 2021 Fiscal Plan forecasts that elevated purchasing of motor vehicles will continue into FY2022, but purchases then return to historical trends over the following years. In addition, since FY2019 there has been a persistent increase in "other excise tax" collections, as these taxes were migrated to the new Internal Revenue Unified System (SURI by its Spanish acronym) platform. Hacienda has reported that it is challenging within the new platform to properly classify a component of these revenues according to their appropriate excise tax classification (e.g., motor vehicles, alcoholic beverages). Accordingly, the agency has created a suspense account to recognize these collections until the corresponding return is received and reconciled. The Oversight Board has requested corrective action be taken to accurately and in a timely manner recognize revenues in their appropriate revenue accounts to reduce the accumulation of unclassified excise taxes, and better isolate how much of the elevated collections come from re-classified taxes versus improved compliance. The 2021 Fiscal Plan includes an updated forecast of other General Fund tax revenues to reflect the expected continued elevated collections relative to prior year forecasts. The Oversight Board will continue to work with Hacienda to decompose this category of revenue and improve the granularity of future year forecasts.

Export sector revenue projections: Act 154 and Non-Resident Withholding (NRW) tax revenues are concentrated in a small number of multinational corporations. From FY2017 to FY2024, the 2021 Fiscal Plan estimates that Act 154 and NRW revenues will erode due to U.S. federal tax reform (reducing Puerto Rico's attractiveness as a low tax jurisdiction for multinationals), global supply chain diversification, and patent expirations. During FY2021, the Government submitted comments for the U.S. Treasury's consideration in response to the IRS notice of proposed rulemaking REG-101657-20 publication. In addition, the U.S. Treasury has publicly proposed reforms to the global corporate tax regime that could impact Puerto Rico, if enacted. The Oversight Board will closely monitor developments in the event they impact the 2021 Fiscal Plan.

³⁰ Does not include deferred taxes from FY2020 collected during FY2021

5.1.2 Medicaid funding

On a steady-state basis (i.e., in the absence of supplemental federal legislation), Medicaid costs are funded primarily by the Commonwealth, as there is a cap on available federal funding. Typical annual federal funding streams for the Commonwealth are the following, and are projected based on current law and statutory growth rates:

- **Standard annual federal Medicaid funding.** Although Puerto Rico has a 55% federal medical assistance percentage (FMAP), the amount of annual federal funding received under Section 1108 is capped each year. For FY2022, this funding stream is expected to be capped at ~\$403 million, and though the cap grows each year according to the Medical Consumer Price Index for All Urban Consumers (CPI-U), it does not keep pace with healthcare expenditure growth.³¹ Each year, ~\$100 million of these funds are not available to cover premium expenses, but rather are transferred to the Department of Health to cover disbursements to Federally Qualified Health Centers (“Centros 330” or “FQHC”) and Medicaid Program operations.
- **Increases in available Medicaid funding from federal legislation:** Since 2011, Puerto Rico has received temporary relief from rising healthcare costs through increased levels of federal reimbursement made available through the passage of the Affordable Care Act and the Bipartisan Budget Act of 2018. In December 2019, the Further Consolidated Appropriations Act was passed, which provides supplemental federal funding (up to \$5.7 billion in total) to Puerto Rico’s Medicaid program through September 30, 2021 (i.e., the first quarter of FY2022). In addition, the law raises the FMAP—the portion of Medicaid expenditures that federal funds can cover—from the standard level of 55% to 76% for most populations. Finally, in response to the COVID-19 pandemic, the Families First Coronavirus Response Act was passed in March 2020, further increasing both the available federal funds (adding an additional \$183 million) and the FMAP (increased by an additional 6.2% for most populations). The available supplemental federal funds and higher FMAP will both return to standard levels in October 2021 (Q1 FY2022) in the absence of new federal legislation. Accordingly, the Commonwealth will hit a “Medicaid fiscal cliff,” whereby it will be responsible for multi-billion-dollar annual healthcare expenditures that had previously been covered by federal funding since 2011. The 2021 Fiscal Plan does not assume future changes in federal legislation for this funding. The 2021 Fiscal Plan ensures that the Commonwealth is fiscally responsible under current law, and factors in the cost of Medicaid going forward in the absence of incremental legislation. To provide healthcare for a substantial part of the population, the Commonwealth must be able to pay and manage these critical costs, which grow faster than inflation, regardless of the future federal legislative environment. In the event that supplemental federal funds become available during any future fiscal year, and depending on the conditions imposed on the federal funds granted, the projected General Fund appropriation for the Puerto Rico Health Insurance Administration (ASES, by its Spanish acronym) would be revised downward.
- **Children’s Health Insurance Program (CHIP) funding.** CHIP funding is not subject to a federal funding cap. Without additional legislation, the CHIP matching rate, also known as the Enhanced FMAP or eFMAP, for Puerto Rico is statutorily set at a minimum of 68.5% under Title XXI of the Social Security Act. Post passage of the Affordable Care Act, starting in FFY16, the eFMAP for Puerto Rico was raised to 91.5% through September 30, 2019. Subsequently, the eFMAP increased to 99% through a combination of legislative activity including the HEALTHY KIDS Act and Families First Act. The former expired in September 2020, dropping the eFMAP to 87.5%. The latter will remain in effect through the end of the public health emergency, which is currently extended through the close of calendar year 2021.

³¹ According to §1108(g) of the Social Security Act., from 2011 to 2016, the cap grows by the medical component of CPI-U as reported by BLS each year. From FY2011-FY2016, this growth averaged 2.9%. This inflation rate differs from the healthcare inflation index for Medicaid and Medicare used elsewhere in the 2021 Fiscal Plan (4.5% to 5.5% from FY2020-FY2022, decreasing to 4.75% in FY2049). Instead, the medical component of CPI-U includes other factors that lower the inflation rate by approximately 3-5 percentage-points, meaning the increase in the federal funding cap will not keep up with actual increases in expenditures

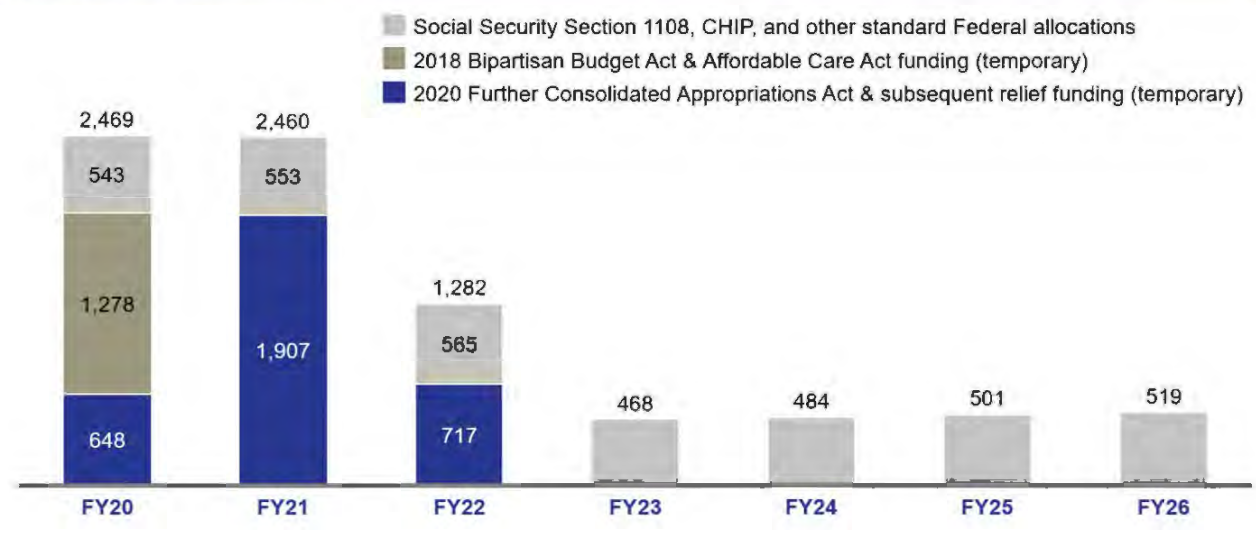
The Families First Act adds approximately 4.3% to the eFMAP. When the emergency health period is ended, the federal cost share is projected to decrease to the 68.5%.³²

- **Special Revenue Fund revenues from municipalities:** Additional revenue for the Medicaid program comes from municipal intra-governmental transfers. See *Section 5.1.4* below for more information.
- **Special Revenue Funds revenues from prescription drug rebate:** Under the Centers for Medicare and Medicaid Services (CMS) Rule 84 FR 64783, U.S. Territories will be required to join the federal Medicaid Drug Rebate Program (MDRP) on April 1, 2022,³³ unless they apply for and receive a waiver. Currently, Puerto Rico operates its own drug rebate program whereby the Commonwealth negotiates or utilizes pre-negotiated agreements with drug manufacturers to return a portion of cost for prescription drugs (expected to be \$264 million in FY2022). These funds enter the Commonwealth budget as Special Revenue Funds and are applied directly against the costs of Medicaid premiums. However, Puerto Rico has expressed its intention to join the MDRP program in the next fiscal year. Puerto Rico's potential entry into the MDRP is expected to yield higher rebate rates from drug manufacturers compared to those the Commonwealth currently has in place. Partly to enable entry into the federal program, the Government has also indicated its intention to update its accounting systems and the methodology by which it reports prescription drug utilization to the Centers for Medicare and Medicaid Services (CMS). In doing so, Puerto Rico will also begin sharing a portion of the rebate revenue with the Federal Government to the extent it reduces the costs eligible for federal matching. The Board is working with the Government to estimate the net financial impact and timing of the shift to the MDRP, including by seeking guidance from CMS on what revenues, if any, must be shared with the Federal Government.

Exhibit 20 outlines expected Medicaid federal fund receipts. After the first quarter of FY2022 (ending September 30, 2021), supplemental federal funding is projected to phase out, in accordance with currently enacted legislation. This "funding cliff" further exacerbates the imperative and urgent need to implement cost-saving measures to reduce long-term Medicaid costs. Medicaid expenditures are discussed in detail in *Chapter 16*.

EXHIBIT 20: BASELINE FEDERAL FUNDS RECEIPT PROJECTIONS

Medicaid Federal funding sources, \$M



³² MACPAC: "Medicaid and CHIP in the Territories" (April 2020)

³³ "Medicaid Program; Covered Outpatient Drug; Further Delay of Inclusion of Territories in Definitions of States and United States." Federal Register, 11 November 2019. Accessed 16 April 2021

5.1.3 Other federal funding

In addition to Medicaid funding, Puerto Rico receives other federal funds on a regular basis. These are not to be confused with disaster relief funds, which are directly tied to Hurricane Maria and earthquake reconstruction activity, or with COVID-19 response and relief funds, which are meant to cover incremental government spending to respond to the global pandemic. These funds cover both social benefits and operational expenditures. In the 2021 Fiscal Plan, these funds have been modeled based on what types of costs they cover (e.g., benefits or operations) as well as statutory formulas that define the size of Puerto Rico's allotment. For example, while Temporary Assistance for Needy Families (TANF) funds are typically pass-through (e.g., none of these funds go to operational costs), some Title I education funds are projected to be used for operational purposes (e.g., teachers' salaries, school supplies for programs for students with special needs, etc.). For the former, federal fund inflows and outflows mirror each other (as benefit needs decline, so do funds). For the latter, though inflows may decline, it does not necessarily mean expenditures decline as well – as expenditures are based on operations, not on benefits formulas, and the Commonwealth may have to cover operational expenditures via the General Fund should they outpace reduced federal funding. Meanwhile, while Head Start funds are allocated from the Federal Government based on the number of children living in poverty, NAP funds are provided through a block grant that is capped. The former, therefore, should change by population, while the latter should only grow with inflation, regardless of population changes.

5.1.4 Special Revenue Funds

Commonwealth agency Special Revenue Fund (SRF) revenues: The Commonwealth collects a significant portion of its revenues through Special Revenue Funds, which are funded from, among other sources, tax revenues transferred by statutes, fees and charges for services by agencies, and dividends from public corporations, and financing proceeds. Government tracking and reporting of these SRF revenues, associated expenses, and resulting surpluses or deficits has historically been incomplete and inconsistent. The baseline level of SRF revenues of Commonwealth agencies (excluding Independently Forecasted Component Units or IFCUs) has been updated in this 2021 Fiscal Plan by agency. The 2021 Fiscal Plan does not further detail SRF by type (special state funds, own revenues and other revenues), as Commonwealth agencies (excluding IFCUs) do not report this level of detail consistently. Future budget and Fiscal Plan processes will aim to further clarify Special Revenue Funds and apply controls to ensure transparency and accountability for these revenues. SRF revenues from fees and collections are also expected to be negatively affected by the COVID-19 pandemic, as agencies face decreased demand for services as a result of the lockdown. In order to achieve greater transparency and controls over SRF, the Government must identify all SRF sources at a granular level, and produce a revenues and expenditures report on a monthly basis, including a profit and loss statement for each Special Revenue Fund.

Independently Forecasted Component Unit (IFCU) revenues: The Commonwealth contains twelve Independently Forecasted Component Units, which range from public corporations (e.g., the State Insurance Fund Corporation) to public hospitals (e.g., the Cardio Center). These entities are mostly funded by Special Revenue Funds and may also receive General Fund appropriations. Through the annual budget process and tracking of actual receipts and expenditures, the Oversight Board has been able to gain more insight into the specific revenue streams for these entities to further refine the IFCU revenue projections. While most IFCU revenues are projected using GNP, given the unique nature of each IFCU, certain revenue streams are grown by other factors, such as inflation, population, or as governed by legislation.

Municipal contributions to PayGo and the Puerto Rico Health Insurance Administration (ASES by its Spanish Acronym): The 2021 Fiscal Plan includes receipts from municipalities to cover retirement and healthcare expenses incurred by the Commonwealth on their behalf. Since the passage of Act 72-1993, ASES has received funding from municipalities for the administration and delivery of the Government Health Plan on their behalf. Similarly,

since the passage of Act 106-2017, municipalities that participate in ERS are financially responsible for PayGo expenditures covered by the Commonwealth. The passage of Act 29-2019 disrupted this model and required the Government to fund municipalities' PayGo and Medicaid costs from the General Fund without receiving reimbursement from the municipalities. However, following legal proceedings initiated by the Oversight Board challenging the validity of Act 29-2019 under PROMESA, the Title III court ruled that Act 29-2019 violated PROMESA and nullified the law, thereby reinstating the municipalities' obligation to cover PayGo and healthcare payments for their employees. As a result of this ruling, the Commonwealth is entitled to seek reimbursement for prior payments made under Act 29-2019 and is empowered to act if these contributions are not received (e.g., to withhold payments for utilities, appropriations). The effective date of the court's ruling was delayed to May 7, 2020 to allow for the parties to discuss potential solutions to the financial challenges faced by municipalities, particularly in light of the COVID-19 pandemic. Accordingly, the 2021 Fiscal Plan assumes that municipalities fund their respective contributions for PayGo and healthcare expenditures going forward. In calculating municipalities' healthcare expenditures, however, the 2021 Fiscal Plan does take into account the incremental federal funding support in FY2021 and FY2022 made available through the 2020 Further Consolidated Appropriations Act. Given that this funding stream expires in FY2022, the 2021 Fiscal Plan assumes that contributions from municipalities thereafter will return to previous levels, but the Oversight Board will utilize the same approach in future years if additional federal funding is again provided.

Public Corporation PayGo receipts: The 2021 Fiscal Plan includes receipts from public corporations (e.g., PRASA) that participate in the Employee Retirement System (ERS) to cover PayGo expenditures covered by the Commonwealth. The Commonwealth shall be reimbursed for these payments and will act if these contributions are not received (e.g., will withhold payments for utilities).

FAM: The Municipal Administration Fund (FAM) collects 0.5% of the SUT which is distributed into three funds: (1) 0.2% to the Municipal Development Fund; (2) 0.2% to the Municipal Redemption Fund; and (3) 0.1% to the Municipal Improvement Fund (referred to as the FMM). Pursuant to Section 4050.09 of Act 1-2011, the FMM are to be distributed through annual legislation and appropriated for select capital works and improvement projects for the municipalities (e.g., public housing, schools). The legislature passes resolutions each year to allocate the FMM. These resolutions must be consistent with the 2021 Fiscal Plan and the applicable special revenue funds included in the Certified Budget.

5.1.5 Gross-up for tax credits

Gross-up of revenues to reflect potential revenues without payment of tax incentives: In addition to offering preferential tax rates, tax exemptions, tax abatements, and cash grants, the Government of Puerto Rico provides hundreds of millions of dollars in tax credits to corporations and individuals each year. Some of these tax credits function as entitlement programs: any business that meets the requirements set forth in law is entitled to the benefit. Other tax credits give government officials considerable discretion on which projects will receive incentives. Many of these tax credits are intended to pursue certain policy goals such as stimulating employment, stimulating economic activity and economic development, encouraging investment, and protecting local industries. Unlike traditional expenditures, however, tax credits are not incurred in a transparent fashion, and, with only a few exceptions, are currently uncapped by any aggregate amount of benefits conveyed. The issuance of tax credits also tends to be done in an ad hoc manner, with unclear economic justification for the costs incurred and without monitoring of the goals described above (i.e., how many jobs in any particular year were created). This leads to an unpredictable, and potentially costly, foregone revenue stream each year.

Uncapped and unpredictable issuance of tax credits can have a materially negative fiscal impact. Several states have faced challenges with unexpected levels of expense from tax

expenditures, such as Michigan (the Michigan Economic Growth Authority tax credits), Louisiana (tax credit for horizontal natural gas drilling), and New York (“brownfields” tax credits). The examples from these states are not uncommon and they reinforce the uncertainty and risk associated with the establishment of tax credits.

Policy makers in Puerto Rico must understand both the budget implications of current and proposed tax expenditures and should manage the size of tax incentives by setting limits on their annual cost and eliminating tax credits with negative returns. The issuance of reliable cost estimates, including a detailed analysis of the budget implications from each tax incentive and annual cost controls will help Puerto Rico avoid unexpected negative outcomes. Otherwise, the Government will remain powerless to manage the cost of these incentives and keep the incentives from growing uncontrollably.

Recognizing the importance of this question to the fiscal sustainability of Puerto Rico, the 2021 Fiscal Plan includes a forecast of gross revenues inclusive of the value of tax credits to show the foregone revenue associated with these credits. The 2021 Fiscal Plan includes a forecast of gross revenues based on the historical level of certain tax credits claimed on income tax filings for individual filers, regular corporation filers, and incentive tax filers, as provided by Hacienda. As shown in the period of the report *Exhibit 21*, over nine tax years (2010-2018), tax credits claimed across all tax filers averaged \$261 million annually. The 2021 Fiscal Plan recommends all reporting going forward include monthly and quarterly reports as to the gross revenues, tax credits claimed, and the net revenues received for the period of the report.

EXHIBIT 21: TAX CREDITS BY YEAR

Projection, \$M	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18
Regular Corporations	94	48	89	89	140	66	75	82	18
Incentive Corporations	135	147	133	158	116	78	70	56	66
Individuals	59	37	90	69	65	66	61	89	157
Total Tax Credits Claimed	288	232	312	316	321	210	206	227	241
9-Year Average	261								

SOURCE: Hacienda

The Government must also adopt a transparent limit to the amount of tax credits issued and claimed at an amount below \$261 million by, for example, capping the notional amount, restricting the number of companies and individuals that can claim credits annually, including sunset provisions, or inserting time bound clauses upon which each tax credit will expire. This is similar to the approach that other states have taken to limit the use or issuance of tax expenditures, including Arizona, California, Florida, Illinois, Massachusetts, Minnesota, New York, Ohio, and Pennsylvania. This limit is separate and incremental to the cash grants that corporations and individuals also receive, which will be captured in Certified Budgets going forward. Future Fiscal Plans should also be expanded to include limitations on foregone revenues due to preferential tax rates and exemptions, including municipal exemptions.

These forecasts should be maintained and updated by leveraging the work that Hacienda has undertaken to produce and maintain a more comprehensive measurement of tax expenditures over time through the annual Tax Expenditures Report. As discussed in more detail in *Section 17.3.1*, the publication of the initial Tax Expenditures Report in September 2019 provided, for the first time, better visibility into the full scope of tax expenditures being offered, together with a description and approximate cost of each expenditure.

For tax expenditures reporting to maintain relevance and maximize its impact on the policy making process, regular reviews of each tax incentive should be completed to assess whether each incentive is meeting its policy objective (and an assessment of benefits along with costs). This was missing from the inaugural report and detracts from the ability of the report to provide proper context from which to inform budgetary decision-making.

The estimates in the tax expenditures report should also be systematically incorporated into the annual fiscal plan and budget review process. This means they need to be considered in conjunction with consideration of direct spending proposals at the executive review and legislative levels and the agencies responsible for programs.

To achieve the objectives above, the tax expenditure report must be produced annually on a timely and efficient basis. In fact, the publication of the first tax expenditures report, in September 2019, stated the second annual report would be published in March 2020, yet it has not been published. Rationalizing the amount of tax expenditures offered by the Government is smart and prudent fiscal management. This can only be done in a comprehensive way through the production of the annual tax expenditure report on a timely basis.

The Government has also taken initial steps to provide transparency around, and control these expenditures through its proposed reforms to the Incentives Code. By targeting a limit on the amount of tax expenditures that can be spent each year, the Government would retain control over the cost and enable public debate about the value of this type of spending in light of the various needs on the Island.

5.1.6 Gross-up for COFIM receipts

The Municipal Finance Corporation (COFIM, by its Spanish acronym) is the public corporation that collects the 1% Municipal SUT established by law for certain municipalities. The 2021 Fiscal Plan includes projections of this 1% revenue stream, along with exactly offsetting expenses. COFIM is not an entity that receives appropriations from the General Fund, but rather relies solely on municipal SUT.

5.2 Baseline expenditure forecast

The trend of “**baseline expenditures**” (or, the forecast of projected expenditures assuming no measures and structural reforms), is summarized in *Exhibit 22*.

EXHIBIT 22: MAJOR OPERATING EXPENDITURE CATEGORIES PRE-MEASURES

Key baseline expenditure drivers (pre-measures), \$M

Payroll (General Fund)	3,134	3,179	3,228	3,279	3,330
Operating expenditures (General Fund)	1,964	1,893	1,933	1,965	1,990
CW appropriations	1,193	1,179	1,125	1,142	1,128
Commonwealth Medicaid expenditures	1,968	2,654	2,754	2,856	2,974
Pension expenditures	2,259	2,237	2,233	2,224	2,215
IFCU & CW SRF Expenditures	2,279	2,297	2,320	2,357	2,400
Federally funded expenditures	5,706	4,935	5,000	5,072	5,150
Other ¹	446	339	300	259	210
Total CW funded operating expenditures²	18,949	18,712	18,894	19,154	19,397
	FY22	FY23	FY24	FY25	FY26

¹ Includes Disaster Recovery Cost Match, Restructuring / Title III costs, Social Programs CW funded, Reserve for emergency fund and Budget incentives
² Does not include capital expenditures, enterprise funds, disbursements to entities outside the 2021 Fiscal Plan, and other non-recurring expenditures

5.2.1 General fund payroll and non-personnel operating expenditures

Payroll expenditures: Despite progress made through the FY2021 budget process, consistent granular payroll data continues to be a challenge for the Government. FY2018 payroll numbers reflect actual expenditures where available and the Certified Budget in cases where actual data was not available (adjusted to reflect reapportionments among agencies). FY2019 was assumed to be equal to FY2018 given the Fiscal Plan Compliance Act, which enacted a payroll freeze except for certain agency-specific adjustments. Beginning in FY2020, base payroll has been assumed to grow by Puerto Rico inflation. As part of the FY2020 and FY2021 budget certification processes, key agencies were analyzed to develop detailed payroll estimates based on agency rosters, actual payroll run rates and anticipated changes to headcount and salaries. Any reduction to baseline payroll expenditure projections from attrition, absenteeism, or workforce reductions is captured through fiscal measures.

Non-personnel operating expenditures: Non-personnel operating expenditures in FY2019 were also assumed to be equal to FY2018 budgeted levels. Thereafter, non-personnel operating expenditures are assumed to grow by Puerto Rico inflation, with select adjustments as necessary. For example, the 2021 Fiscal Plan includes a 10% reduction to FY2022 Special Fund for Economic Development (FEDE, by its Spanish acronym) and Economic Incentive Funds (FIE), Cruise Industry Incentives, Renewable Energy, Export Development, and Corporation for the Development of the Arts, Science and Film Industry of Puerto Rico (CINE) expenditures, an amount which is then taken out of all future years. (In FY2022, these select expenditures reductions are \$10 million total.)

5.2.2 Special Revenue Funds

Commonwealth agency Special Revenue Fund (SRF) operational expenditures: The Commonwealth funds a significant portion of its expenses with Special Revenue Funds and previously did not report on these expenses transparently in a consistent manner. Given that SRF

revenues and expenditures are not part of the General Fund for budgeting purposes, they are not included in the General Fund budget resolutions approved by the Legislature. However, the Oversight Board has certified SRF expenditures starting with the FY2019 budget process, with the objective of applying controls and reporting requirements to ensure transparency and accountability for these revenues and expenditures. With data made available by the Commonwealth, the baseline level of SRF expenses of Commonwealth agencies (excluding IFCUs) has been updated and allocated across agencies (by payroll and non-payroll expenditures). Given the mandate of the Office of the CFO to place controls on SRF expenditures, baseline SRF expenses are forecasted to be equal to the estimated revenues in each year before fiscal measures.

Independently Forecasted Component Unit (IFCU) operational expenditures: Most IFCU payroll and non-payroll expenses grow by inflation, with exceptions for certain expense categories (e.g., healthcare costs grow with medical inflation, variable costs that grow in line with revenues).

The baseline expenditures include **municipality and public corporation PayGo, COFIM, and FAM expenditures**, including all the conditions outlined in *Section 5.1.4*.

5.2.3 Other federal funding

Most federal funds received by the Commonwealth are passed through to residents directly in the form of social benefits (e.g., TANF, WIC), but federal funds are also used to cover operating expenditures in many agencies. Expenditures related to pass-through federal funds are set equal to the associated revenue stream. Baseline expenditures related to operating expenditures are set based on the FY2018 federal funds budget reported by the Government (updated in select cases for new information received FY2019-2021) and grow with inflation (and in some cases population). In the case of Community School Program (largely Title I funding), revenues will grow with growth in total federal funding - presumed to track U.S. inflation - but decline with decreasing enrollment, which is the most salient determinant of Puerto Rico's annual allocation. At the same time, the 2021 Fiscal Plan assumes fixed costs associated with providing these services may not decline at the same rate given historical Commonwealth behavior of maintaining infrastructure such as schools and program staff despite population decline. Therefore, the 2021 Fiscal Plan assumes that—without fiscal measures—the General Fund will cover any cost increases that continue despite declining Title I federal support.

5.2.4 Medicaid expenditures

Medicaid costs are projected to reach nearly \$3.5 billion annually by FY2026. These costs are primarily driven by premiums, calculated by multiplying the weighted-average cost per member per month (PMPM) by the estimated number of people enrolled in the Medicaid (federal and Commonwealth-qualified), CHIP, and Platino dual-eligible programs. Projections also include other direct health expenditures (e.g., Hepatitis C, HIV, and pulmonary programs) that do not flow through managed care. These costs are exclusive of non-medical administrative costs to ASES and the Department of Health.

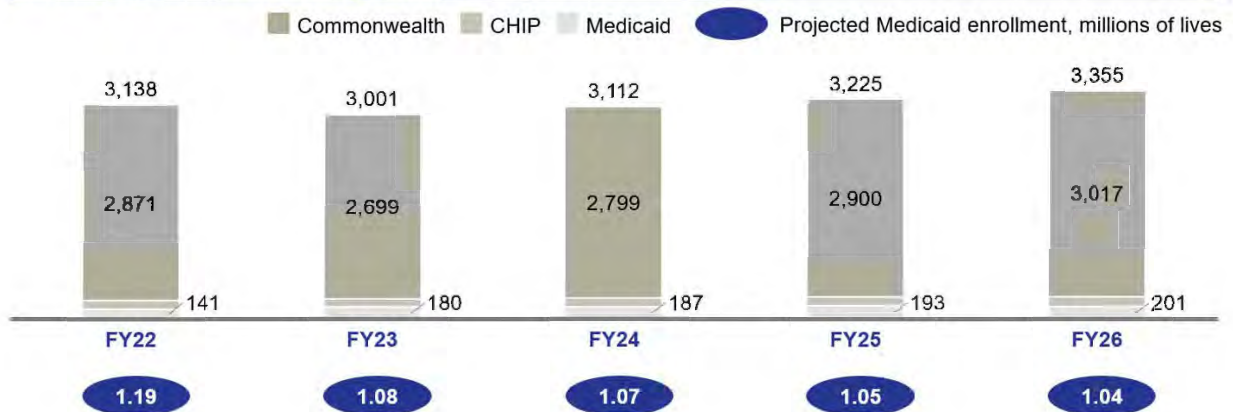
PMPM costs are projected to grow at 8.9% in FY2021 as a result of increased healthcare utilization following the pandemic. Relatedly, actual PMPM growth is now projected to have been just 1.6% from FY2019 to FY2020. As healthcare utilization resumes to normal levels, growth rates are expected to return to previous projections (of 5.15%) by FY2025. In the long term, costs increase according to an age-mix-adjusted PMPM growth rate (of 4.75% by FY2051, for example), which reflects a shift to a younger enrollment population.

Enrollment rates are primarily tied to overall population decline on the Island. However, the first half of FY2022 is projected to see an enrollment increase, independent of overall Island population changes. In the first quarter, this change is primarily related to the decision to raise the Puerto Rico Poverty Line (PRPL) through September 30, 2021. Since the PRPL is a partial

determinant of Medicaid eligibility, this increase allowed previously unenrolled residents to enroll during the COVID-19 pandemic. This COVID-19-related increase is projected to persist into the second quarter of FY2022 to a slightly lesser degree, before returning to baseline healthcare population projections by January 1, 2022 (Q2 FY2022). The effects of this increased enrollment during FY2022 can be seen in *Exhibit 23*.

EXHIBIT 23: PROJECTIONS FOR MEDICAID AND CHIP BASELINE PREMIUM EXPENDITURES AND ENROLLMENT (NOT INCLUDING PLATINO)

Medicaid projected enrollment and expenditures, \$M total cost, M enrollees



Note: Only includes Medicaid (CHIP, Commonwealth- and federally-funded). Excludes Platino dual-eligible, as well as non-direct premium costs (e.g., HIV/PDP, Health Insurance Provider Fee, Air Ambulance, MC21 Administrative Fee, Super Utilizers, and Pulmonary).

Other Commonwealth Medicaid expenditures, which include, HIV/PDP, Air Ambulance, MC21 administrative fee, Super Utilizers, and Pulmonary, among others, are projected to grow at the rate of Puerto Rico healthcare inflation. Separate from those costs is the Health Insurance Tax (HIT), calculated each year by the Federal Government and estimated here to be 1.80% of the prior year's total premiums.³⁴ The Further Consolidated Appropriations Act, 2020 repealed the HIT requirement. Thus, the 2021 Fiscal Plan only reflects the estimated HIT fee anticipated to be required to be paid in FY2021 on FY2020 premium expenditures. Thereafter, the HIT fee is eliminated from projections.

"Platino" dual-eligible program expenditures were estimated using a consistent \$10 PMPM over FY2019-FY2024 representing payment for wrap-around services supplementing main Medicare coverage (from FY2024 onwards, this cost grows by the PMPM growth rate). Enrollment is projected to be affected similarly to Medicaid enrollment. "Platino" costs are expected to remain between \$29 million and \$31 million from FY2021-FY2024, at which point they grow consistently over the remainder of the period.

5.2.5 Commonwealth pension expenditures

Baseline pension costs: Projections rely on demographic and actuarial estimations for Employees' Retirement System (ERS), Teachers' Retirement System (TRS), and Judiciary Retirement System (JRS) populations and benefit obligations. Since FY2018, pension benefits for all plans have been paid on a pay-as-you-go basis. Starting in FY2022, pensions baseline costs (reflecting System 2000 segregation) are projected to decrease progressively from \$2.3 billion in FY2022 to \$1.2 billion in FY2051, with an average annual cost across the period of \$1.9 billion. The 2021 Fiscal Plan baseline pension expenses are ~\$1.4 billion lower (FY2022-FY2051) than in the 2020 Fiscal Plan, primarily driven by updates incorporating new census and mortality data.

³⁴ Sec 4003 of Public Law 115-120—Jan. 22, 2018. "Fourth continuing appropriations for Fiscal Year 2018, Federal Register Printing Savings, Healthy kids, health related taxes, and Budgetary effects," at Based on actuarial estimates provided by ASES

5.2.6 Appropriations

Municipalities: Baseline municipal appropriations are projected to remain constant at ~\$220 million annually, which represents the FY2018 appropriation level exclusive of a \$78 million *one-time* allotment to municipalities made in the aftermath of Hurricanes Irma and Maria.

University of Puerto Rico (UPR): The UPR baseline appropriation is \$717 million from FY2019 to FY2023 and grows by inflation starting in FY2024.

Highways and Transportation Authority (HTA): HTA is currently funded through a combination of own revenues, federal funds, and Commonwealth funds (including both a capital appropriation and an operating appropriation). Within the 2020 HTA Fiscal Plan, toll fares are used to cross-subsidize capital and operating expenditures on non-toll roads. The 205(a) letter of January 29, 2021 recommended that HTA be reorganized into a toll road entity, with non-toll roads managed by DTOP and transit assets managed by PRITA. Therefore, consistent with the 205(a) letter recommendation, the 2021 Fiscal Plan increases the HTA operating transfer to cover the full cost of non-toll assets, marking the first step towards the implementation of the Transportation System Reform outlined in *Chapter 11*. The appropriation does not include funding for the HTA emergency reserve, nor does it draw down existing balances. It also assumes toll roads have access to federal funds until reorganization is complete (assumed FY2023), but not thereafter. As a result, over FY2025-FY2051, the 2021 Fiscal Plan includes an average annual operating appropriation of ~\$133 million and average capital appropriation of \$68 million per year. The Commonwealth operating transfer may be reduced in a proportionate amount should the Federal Highway Administration (FHWA) federal funding for non-toll assets appropriated to HTA increase.

The HTA operating transfer is intended to be used by HTA solely to fund costs associated to non-toll assets and is not available to be used for any other purposes, including funding costs and projects above and beyond those contemplated in HTA's Certified Fiscal Plan.

5.2.7 Other operating and capital expenditures

Utilities: The 2021 Fiscal Plan uses the estimated billings for electric and water costs provided by PREPA and PRASA, respectively on agency level. Estimated water billings from PRASA are projected to grow at the same rate as water rate increases over the period of FY2021-FY2025; thereafter, PRASA billings are projected to grow at water rate increases and then according to inflation. Estimated electric billings from PREPA are projected to grow at the same rate as power rate increases over the period of FY2021-FY2051.

Parametric insurance: The 2021 Fiscal Plan includes an annual investment of ~\$35 million to cover the Commonwealth's portion of the annual cost of parametric insurance. The parametric insurance program is supplemental to the existing budgeted premiums for renewing current traditional insurance policies. The following conditions applicable to Commonwealth entities are placed on the requested funding:

- Develop a sophisticated insurance plan with a comprehensive program that considers the available markets, costs, meeting Operations and Maintenance (O&M) requirements, and levels of coverage. This would include conducting a risk assessment; analyzing expected O&M costs on a building by building basis; identifying the types of insurance needed to protect against risk; identifying insurance gaps, selecting the authority needed to develop, implement and enforce the plan; and crafting the financial arrangement structure for funding the plan and paying for losses
- Strategically consider and prioritize options to supplement the existing insurance coverage (including identifying how the Commonwealth will meet flood insurance requirements and considering expanded limits on existing policies, a separate excess insurance policy above current limits, or a Parametric policy and/or Catastrophe ("CAT") bond)

■ Engage the Insurance Commissioner on certification criteria

Insurance (PRIMAS): The Commonwealth bears costs related to insurance premiums (e.g., property insurance, liability insurance). Government reporting on these costs has not been transparent or consistent over time (e.g., not all agencies report these costs independently of other operating expenses, reporting is not consolidated across General Fund and Special Revenue Funds). The Government reported that insurance costs increased from FY2018 to FY2020 due to Hurricanes Maria and Irma. Adjustments were made based on agency reported needs for FY2021 and FY2022 (e.g., costs for Department of Housing have been reduced, costs for PRDE and Institute of Puerto Rican Culture have been increased).

Capital expenditures: Centrally-funded General Fund maintenance and capital expenditures of the Commonwealth (excluding PREPA, PRASA, HTA self-funded capital expenditures and one-time transfers) are expected to grow by inflation from a baseline of \$337 million FY2022 to FY2040, at which point maintenance capital expenditures increase to \$677 million³⁵ (1.9% of GNP³⁶) and growth with GNP, to account for the new level of capital stock the Commonwealth will be responsible for maintaining post-disaster reconstruction (see *Section 4.2* for more information). In FY2022, ~\$53 million of the baseline expenses will be appropriated to HTA (as part of the total appropriations), with the remaining ~\$284 million for use by the Commonwealth. The 2021 Fiscal Plan includes annual Special Revenue Fund capital expenditures for the Commonwealth agencies (and the Public Buildings Authority) of \$6 million for FY2022 and \$22 million (based on historical agency needs) for FY2023 onwards.³⁷

5.2.8 Reconstruction and restructuring related expenditures

Cost-share for disaster relief funding: Federal funds for FEMA's Public Assistance, Individual Assistance and Hazard Mitigation programs typically require a local match from the entity receiving them (anywhere from 10-25% of funds). In the case of Puerto Rico, the 2021 Fiscal Plan projects that the Commonwealth will need to cover an estimated ~10% of federal Public and Individual Assistance funds that are obligated to them, amounting to \$2.6 billion from FY2018-FY2035. (Based on obligation data, instrumentalities are assumed to shoulder a further \$1.6 billion in total cost-match expenditures during the same period). A portion of the Commonwealth and instrumentalities' cost-match expenditures are projected to be covered by CDBG funds from FY2020 to FY2035, which amounts to \$2.7 billion. As a result, instrumentalities and the Commonwealth are anticipated to need to cover \$500 million and \$1 billion, respectively, out of pocket.

After accounting for excess funds budgeted for cost share in FY2018- FY2021 (when DRF disbursements were anticipated to be higher), as well as \$135 million in unspent cost share funds considered available for future cost share needs, the ultimate out-of-pocket cost share burden for the Commonwealth is \$1.2 billion. Moving forward, cost share matching funds are to be used only on approved projects/ requirements under FEMA's Individual Assistance, Public Assistance, and Hazard Mitigation programs. Any unused cost share matching funds in a given fiscal year are to be rolled over the following fiscal year and remain available for use in meeting cost share requirements for approved projects/requirements under FEMA's programs. The restriction of use of cost share matching funds is applicable to funds in the current year as well as any funds rolled over to the subsequent years. The use of these funds must be coordinated with CDBG-DR and CDBG-MIT in meeting cost share requirements.

Restructuring-related costs: Commonwealth restructuring-related expenditures are projected to be \$622 million for the period FY2022 to FY2025, and are comprised of all professional fees, including those of the Unsecured Creditors' Committee, the Retiree Committee,

³⁵ Includes General Fund portion of 1.9% of GNP and the HTA Capex appropriation (with the 10% reduction on General Fund unallocated Capex)

³⁶ Corresponds to the state average of capex as percentage of GNP

³⁷ Of this amount, \$2 million per year goes to Public Buildings Authority (an IFCU) for recurring needs

the Government (mostly the Puerto Rico Fiscal Agency and Financial Advisory Authority, or AAFAF by its Spanish acronym), and the Oversight Board. The estimate for professional fees in the 2021 Fiscal Plan was developed based on estimates prepared by the Oversight Board and fees provided by the Government as part of the Government's submitted 2021 Fiscal Plan. Fees were also benchmarked versus comparable restructuring situations that yield an average professional-fee-to-funded-debt ratio of 2.08% and median ratio of 2.33% relative to 2.48% projected for the Commonwealth (*Exhibit 24*). In total, for the period from FY2018 to FY2026, the restructuring-related expenditures projection is ~\$1.6 billion. Uncertainty stemming from the series of recent natural disasters and ongoing COVID-19 pandemic has resulted in an extended restructuring process contributing to the overall estimate. For some perspective, the City of Detroit restructuring (the largest municipal restructuring prior to the Commonwealth of Puerto Rico) took 17 months (July 2013 to December 2014); while the restructuring of the Commonwealth is now approaching 4 years after experiencing hurricanes, earthquakes and the impact of COVID-19. With respect to the Oversight Board's operating costs, they are forecast to be \$75 million per year from FY2022 to FY2026 on a *pre-measures* basis (or \$65 million after measures).

EXHIBIT 24: PROJECTED PROFESSIONAL FEES RELATIVE TO OTHER MAJOR RESTRUCTURINGS

Professional fees for restructuring

	Date filed	Outstanding debt, \$	Total fees and expenses, \$	Fees to funded debt, %	
City of Detroit, Michigan	Jul. 2013	6,400,000,000 ¹	177,910,000	2.8	Summary Statistics Avg. 2.08% Max 3.56% Min 0.16% Med 2.33%
Residential Capital, LLC	May. 2012	15,000,000,000	409,321,308	2.7	
Sabine Oil & Gas Corp.	Jul. 2015	2,800,000,000	78,553,223	2.8	
Caesars Entertainment Operating Company	Jan. 2015	18,000,000,000	258,278,005	1.4	
Lehman Brothers Holdings Inc.	Sep. 2008	613,000,000,000	956,957,469	0.2	
Lyondell Chemical Company	Jan. 2009	22,000,000,000	205,932,292	0.9	
American Airlines	Nov. 2011	11,000,000,000	391,637,858	3.6	
Washington Mutual, Inc.	Sep. 2008	8,000,000,000	271,085,213	3.4	
Edison Mission Energy	Dec. 2012	5,000,000,000	96,244,628	1.9	
Energy Future Holdings Corp.	Apr. 2014	40,000,000,000	450,110,233	1.1	
Puerto Rico²	2017	64,000,000,000³	1,584,050,751	2.5	
Puerto Rico involves added complexity as the largest public sector restructuring in the history of the United States					

¹ Excludes pensions and other retirement liabilities

² Debt amount for Puerto Rico does not include over \$50 billion in unfunded pension liabilities.

³ From "Basic Financial Statements and Required Supplementary Information" for fiscal year ended June 30, 2016 prepared by the Puerto Rico Department of the Treasury, inclusive of unaccreted interest of capital appreciation bonds; rounded up from \$63.9B for consistency with other cities

Emergency reserve: The purpose of the Emergency Reserve fund is to expedite response activities and, upon request, provide the Commonwealth agencies, public corporations and affected municipalities ("Emergency Reserve Recipients") with capital to quickly begin response activities that exceed their capacity during declared events in Puerto Rico. Starting in FY2019, the Commonwealth must set aside \$130 million annually into an emergency reserve that is to total \$1.3 billion, or ~2.0% of FY2018 GNP. The methodology supporting this reserve is informed by

guidance provided to other Caribbean islands by the International Monetary Fund in defining an adequate emergency reserve (2-4% of GNP, accumulated at 0.5% per year).³⁸

Restrictions placed on these funds must ensure that it is only used in case of an extraordinary event like natural disasters or as otherwise agree with the Board; the Commonwealth can only make disbursements with approval from the Oversight Board. Historically, the Oversight Board has authorized use of the emergency reserve in response to the 2017 hurricanes (Maria and Irma), the 2020 earthquakes impacting the southwestern part of Puerto Rico, and the COVID-19 pandemic. Moving forward, a fund advance will require the following:

- The Governor would need to declare a state of emergency
- AAFAF requests FOMB access to the emergency reserve fund for a finite period
- Once FOMB authorizes access to the emergency reserve funds; OMB would submit to FOMB requests from the Emergency Reserve Recipients to approve amount and usage of funds
- Amounts approved by the FOMB and disbursed to the Emergency Reserve Recipients would need to be replenished not later than the following fiscal year
- Emergency Reserve Recipients that received funds from the emergency reserve fund are required to file with FEMA a Request for Public Assistance (RPA) and Project Worksheet to ensure that any federal reimbursements to Emergency Reserve Recipients are replenished into the emergency reserve state fund
- Emergency Reserve Recipients are required to update OMB on a quarterly basis on the process of Public Assistance with FEMA
- OMB must provide quarterly reporting to FOMB on the use of authorized funds (see *Chapter 21* for more information)

5.2.9 Expenditure gross-ups

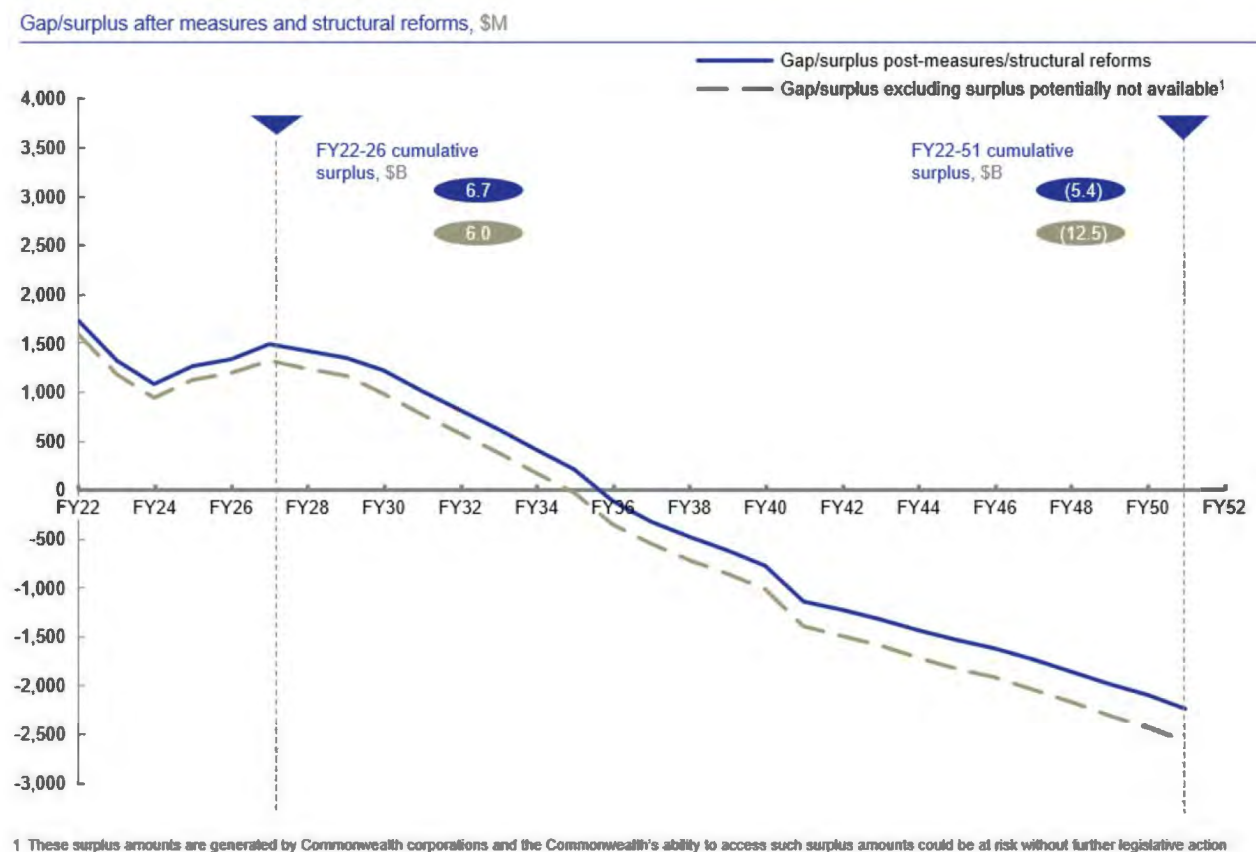
For each of the gross-up revenue items included in *Section 5.1.5* and *Section 5.1.6*, an equivalent expenditure is included in the baseline expense forecast.

5.3 Surplus potentially not available for the Commonwealth

The 2021 Fiscal Plan financial projections show the surplus generated by all entities covered by the Commonwealth Fiscal Plan. However, some of the surplus is generated by Commonwealth public corporations, and the Commonwealth's ability to access such surplus amounts could be problematic without further legislative action. As such, the 2021 Fiscal Plan also represents what the surplus would be if these funds were inaccessible (*Exhibit 25*).

³⁸ IMF Bahamas Article IV report published March 22, 2018

EXHIBIT 25: SURPLUS POTENTIALLY NOT AVAILABLE FOR COMMONWEALTH



Chapter 6. Long-term projections and Debt Sustainability Analysis (DSA)

6.1 Long-term macroeconomic, revenue, and expenditure projections

The 2021 Fiscal Plan projects a post-pandemic recovery in FY2021 and FY2022, followed by limited real growth between FY2023 and FY2029 (average real growth of 0.2% during this period). As disaster relief funding and the spending of COVID-19 federal and local stimulus funds drop off considerably and structural reform growth rates are muted, GNP growth returns to its historical negative trend starting in FY2030. Population is estimated to steadily decline at an average rate of ~1.2% annually, due to a combination of outmigration and demographic factors. Inflation is estimated to settle at a long-term run-rate of 1.5%-1.9% as it is expected to gradually approach to mainland forecasts.

Most revenues are projected to grow with nominal GNP in the long term.³⁹ This includes SUT, corporate income tax, personal income tax, non-resident withholding not paid by Act 154 entities and most General Fund revenues. Exceptions include:

³⁹ This methodology is consistent with general IMF forecasting approaches and is intended to capture the overall change in consumption, investment and production within the economy

- **Alcoholic beverages and cigarette-related tax revenues**, which are expected to grow by inflation and population. This assumption is supported both by relatively constant alcohol consumption in growing economies along with the long-term decline in cigarette consumption both in Puerto Rico and the U.S. mainland.
- **Rum excise on offshore shipments**, is expected to grow by U.S. mainland population and is partially driven by the statutory waterfall by which rum excise taxes are paid into the General Fund.
- **Non-resident withholding (NRW) and Act 154 revenues**, which will face declines due to U.S. tax reform, supply chain diversification, and patent expirations. This decline had begun during FY2020, with incremental declines forecasted in each year through FY2024 (~40% cumulative decline versus FY2018 baseline). No further declines are anticipated through FY2027; however, additional loss of Act 154 revenue are expected in FY2028-FY2031, such that FY2031 revenues are projected to be ~60% below baseline. This leads to a steady state of \$859 million in annual Act 154 revenues beginning in FY2031. NRW revenues associated with Act 154 taxpayers have also declined. Based on past and current performance, NRW payments are projected at \$170 million in FY2022 (~60% below baseline). NRW revenues not related to Act 154 payers continue to grow with nominal GNP.
- **Independently Forecasted Component Units (IFCU) revenues**, which are projected on a line item basis and grow by the same values as in the short-term projections (largely by nominal GNP, with exceptions for those related to healthcare, population, or other factors).
- **Federal fund revenues**, which grow based on historical and statutory appropriations. The standard cap for **Medicaid matching funds** grows by the medical services component of CPI-U and CHIP funding grows proportional to growth of premiums and enrollment. However, several significant sources of federal funding for Medicaid (e.g., the Affordable care act or ACA, the Bipartisan Budget Act of 2018 or BBA, the Further Consolidated Appropriations Act, the Families First Act) are only legislated through the first quarter of FY2022, or through September 30, 2021. **This creates a “fiscal cliff” starting in FY2022 whereby the share of Medicaid funding borne by the Commonwealth increases significantly.** Between FY2023 and FY2051, average annual federal funding for Medicaid is 15.7% of total expenditures (versus 38% in FY2022). While additional federal funding for Medicaid may be provided in the future, the 2021 Fiscal Plan only reflects federal funding provided by currently-enacted legislation.

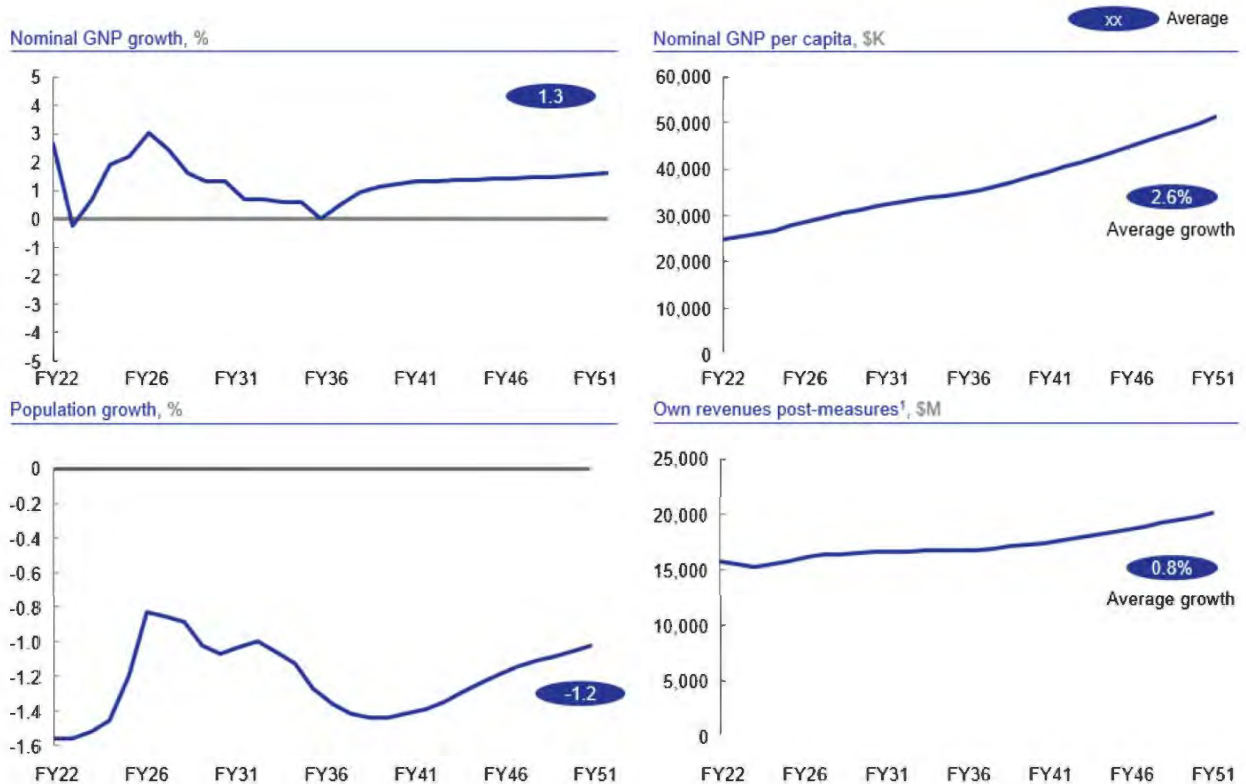
Just as most revenues grow by GNP, most **expenditures grow by standard inflation** after FY2026. Exceptions include:

- **Medicaid premiums** grow at a faster pace than standard inflation and are instead grown by a PMPM growth rate and population change. The PMPM growth rate is estimated through actuarial analysis of historic utilization trends and projected demographic changes on-Island. Long-term PMPM growth trends (FY2027-FY2051) will be 4.95% on average.
- **Capital expenditures** are anticipated to rise to 1.9% of GNP (in line with the mainland average) by FY2041 to account for an enhanced capital stock needing maintenance after the significant reconstruction efforts in the wake of Hurricanes Maria and Irma. This change in methodology increases the annual Commonwealth average to ~\$759 million over FY2041-FY2051, as Puerto Rico must sustain a higher level of maintenance and rely on its own funding for capital investments (rather than disaster relief funding).
- **Cost match for disaster-related federal funding** reaches an average of ~\$28 million from FY2027 to FY2035, after full usage of CDBG-DR funds available for local cost matching. The Commonwealth is not responsible for the portion of funds allocated to instrumentalities (e.g., PREPA, PRASA, HTA, UPR).

- **Independently Forecasted Component Units (IFCU) expenditures** are forecasted on a line item basis. Most grow with standard Puerto Rico inflation with some exceptions, such as healthcare- or claims-related expenditures. Over the long-term, the expenses of some healthcare-related IFCUs (e.g., Cardio) are projected to grow faster than revenues, creating a deficit. This 2021 Fiscal Plan assumes deficits related to healthcare will be funded by the Commonwealth.
- **Fiscal measures** grow by their relevant macroeconomic indicator (e.g., revenues by nominal Puerto Rican GNP, expenditures by Puerto Rican inflation, healthcare measure by health inflation and population).

The long-term macroeconomic and financial projections are shown below. *Exhibit 26* shows the forecasted Nominal GNP, which maintains a positive growth for almost all years (mainly due to an stable and positive inflation), the estimated rate at which population is expected to decline, the growing Nominal GNP per capita that results from the combination of the first two, and the corresponding trend of own revenues. The estimations of all metrics, as well as corresponding projected revenues, expenditures, and fiscal gap or surplus are shown on *Exhibit 27* for selected years. Finally, *Exhibit 28* shows what these projections are with or without structural reforms.

EXHIBIT 26: FY2022-51 FINANCIAL PROJECTIONS



¹ Own revenues includes all Commonwealth-collected revenues and excludes all federal transfers and gross up revenues; includes impact of COFINA settlement

EXHIBIT 27: LONG-TERM FISCAL PLAN PROJECTIONS POST-MEASURES AND STRUCTURAL REFORMS

Financial projection detail post-measures and structural reforms, units as labeled

Projection	FY26	FY31	FY36	FY41	FY46	FY51
Population , thousands	2,764	2,637	2,496	2,324	2,178	2,062
Population growth rate, %	-1.2%	-1.1%	-1.3%	-1.4%	-1.2%	-1.0%
Real growth rate⁵ , %	0.7%	-0.2%	-1.5%	-0.5%	-0.4%	-0.3%
Nominal GNP , \$M	76,759	84,555	86,769	91,303	97,809	105,594
Nominal GNP per capita, \$	27,770	32,062	34,769	39,284	44,913	51,208
Nominal GNP per capita growth, %	3.4%	2.4%	1.3%	2.8%	2.7%	2.7%
Inflation , %	1.5%	1.5%	1.6%	1.9%	1.9%	1.9%
Disaster funding, \$M	5,883	4,546	-	-	-	-
Revenues¹ , \$M	20,914	22,135	22,743	24,016	25,878	28,069
Commonwealth GF and SRF revenues	15,757	16,545	16,689	17,406	18,627	20,081
Federal transfers ²	5,158	5,591	6,053	6,610	7,251	7,988
Expenditures¹ , \$M	(19,581)	(21,126)	(22,862)	(25,165)	(27,505)	(30,306)
Commonwealth-funded expenditures	(14,431)	(15,540)	(16,807)	(18,542)	(20,233)	(22,278)
Federally-funded expenditures	(5,150)	(5,586)	(6,055)	(6,623)	(7,272)	(8,028)
Gap / surplus , \$M	1,334	1,009	(119)	(1,149)	(1,627)	(2,237)
Contractual debt service payments ³	(1,668)	(1,867)	(1,144)	(990)	(163)	(50)
Net gap / surplus , \$M	(334)	(858)	(1,264)	(2,138)	(1,790)	(2,286)
Surplus potentially not available ⁴ , \$M	152	238	234	253	294	339

1 Revenues and expenditures excluding gross up adjustments; revenues do not include Earned Income Tax Credit

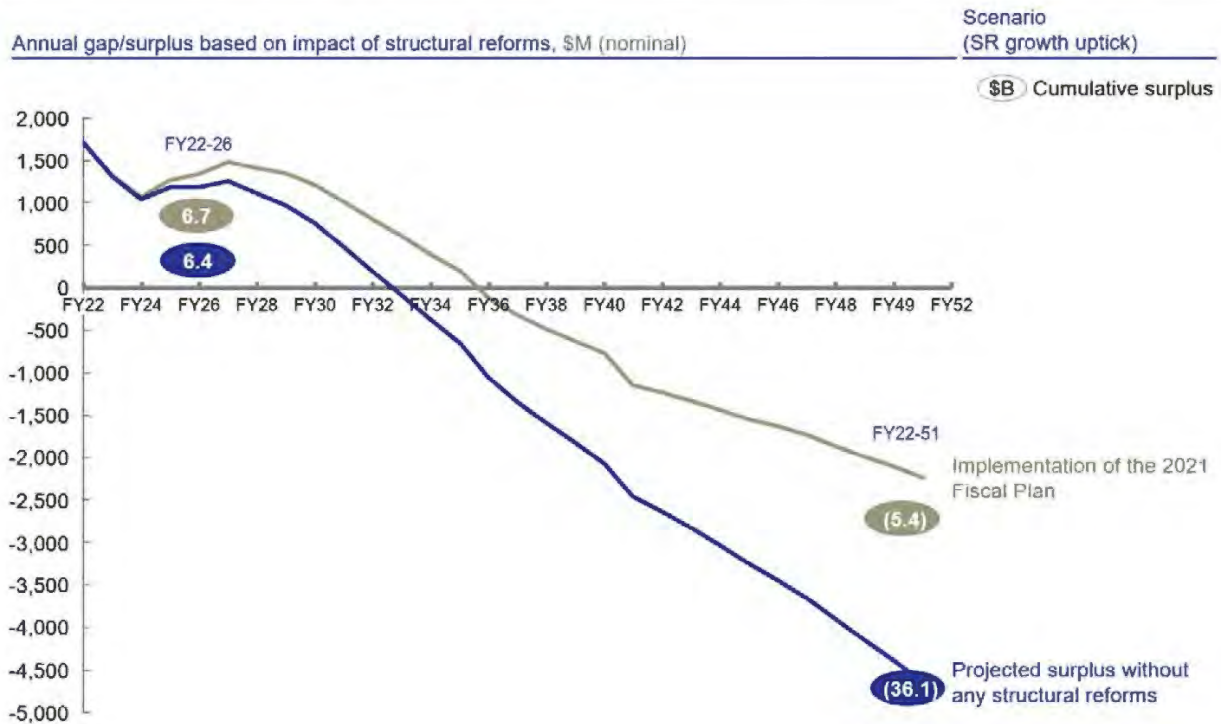
2 Does not include the recently approved additional federal funding for the local EITC extension, since it would be received as a reimbursement

3 Debt service based on prepetition contractual debt obligations. Presented for illustrative purposes only and does not represent anticipated future payments on restructured debt. Includes GO, PBA, CCDA, PRIFA, PFC, ERS. The 2021 Fiscal Plan does not assume any predetermined outcome of ongoing litigation with respect to GO bonds

4 These surplus amounts are generated by Commonwealth corporations and the Commonwealth's ability to access such surplus amounts could be at risk without further legislative action

5 Adjusted for income effects

EXHIBIT 28: ANNUAL GAP/SURPLUS BASED ON IMPACT OF STRUCTURAL REFORMS



The 2021 Fiscal Plan shows short-term surpluses driven by significant federal relief as well as fiscal measures and structural reforms. Long-term deficits are driven by healthcare costs that outpace GNP growth (even after reforms, in part due to the Medicaid “fiscal cliff”), lack of robust structural reforms, phase out of disaster relief funding, and declining Act 154 revenues.

While the 2021 Fiscal Plan projects deficits from FY2036 onward, the Government will be required to take additional measures that go beyond the FY2022-26 framework of this 2021 Fiscal Plan as the Puerto Rico Constitution requires the Government to operate within a framework of fiscal balance. Accordingly, what follows are a set of options that can be considered to obtain fiscal balance in the out-years. Some of these reforms – which would reduce deficits and therefore make funds available for a variety of potential uses, including investment in the people of Puerto Rico – have been proposed by the Oversight Board, but have not been adopted. The Government must take up these reforms and implement them to realize their benefits.

- **Securing additional permanent federal funding for Medicaid** of ~\$1 billion per year (and growing with inflation) is projected to increase the FY2022-51 surplus by ~\$20 billion if begun in FY2031 and ~\$10 billion if begun in FY2041.
- **Imposing a cap on total healthcare expenditure growth** at 2% above standard inflation is projected to result in savings of ~\$14 billion by FY2051 if implemented in FY2031 and ~\$2.4 billion if implemented in FY2041.
- **Private sector labor reform**, generating an additional 0.50% GNP growth over two years, by repealing Law 80 of May 30, 1976, which would make Puerto Rico an employment at-will jurisdiction, similar to its principal competitor mainland states, such as Florida. This would reduce the cost of hiring workers on the Island, improving the environment for local businesses and potentially attracting additional investment from the mainland into Puerto Rico. The reform is projected to increase the FY2022-51 surplus by ~\$13 billion if implemented in FY2031 and by ~\$4 billion if implemented in FY2041.
- **Ease of doing business reform**, generating an additional 0.15% GNP growth, based on instituting trading across borders reform, and repealing restrictive and inefficient regulations, and implementing a comprehensive reform of the Transportation system, similar to the one described in *Chapter 11*, which would contribute to unlock greater impact across all other ease of doing business initiatives, allowing Puerto Rico to better compete for new investments with jurisdictions around the world. The FY2022-51 surplus is projected to increase by ~\$4 billion if implemented in FY2031 and by ~\$1 billion if implementation takes place in FY2041.
- **Overhaul of the tax system of Puerto Rico** to stimulate growth by lowering the statutory marginal tax rates and broadening the tax base by eliminating many exemptions, deductions, credits, and incentives. This would simplify the tax paying structure and process, improving the business environment and delivering long-term growth benefits up to 0.5% spread over five years. The reform is projected to increase the FY2022-51 surplus by ~\$11 billion if implemented in FY2031 and by ~\$3 billion if implementation takes place in FY2041.
- **Growing the pharmaceutical and medical devices manufacturing sector** given the unique opportunity for Puerto Rico to be a center of excellence and play a leading role in the national portfolio of locations for expanded domestic manufacturing in this sector. The physical infrastructure, human capital, and regulatory processes are already established and well positioned. Previous analyses published by the Board had shown the potential value on economic growth and employment that this effort could have.

Risks to the long-term projections in the 2021 Fiscal Plan. While the 2021 Fiscal Plan projects that ~\$15.2 billion in surplus will be generated through FY2022-FY2035, there are several variables that have a material impact on the long-term financial projections. The extent at which the economic activity will recover from the COVID-19 pandemic impact and the time it will take to return to pre-pandemic levels remain highly uncertain and could prove to be narrower and longer-lasting than anticipated. Moreover, revenues could be compromised through lower growth

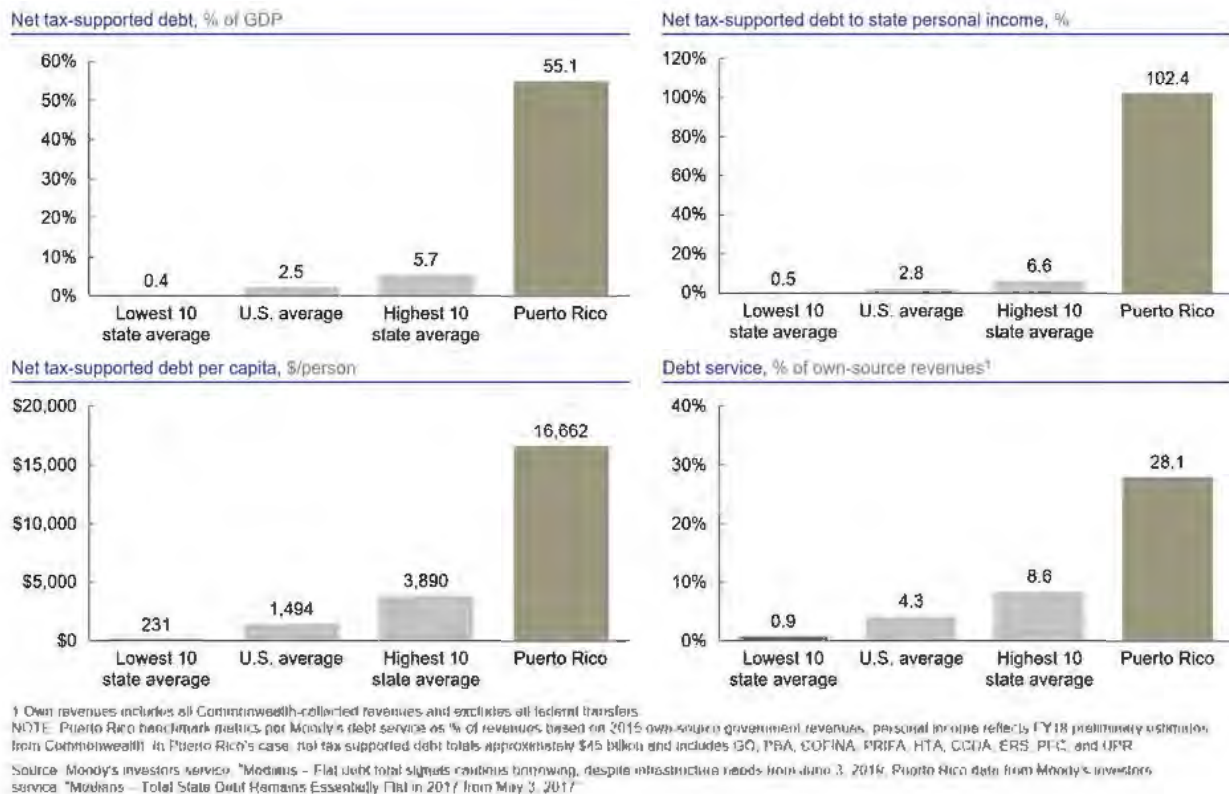
generated by delays or failures to implement structural reforms, lower than expected federal funding, and/or less efficient spending on capital than projected. Both revenues and expenditures could be impacted by demographic shifts not yet seen on the Island or other external shocks or natural disasters. Finally, expenditures could be impacted if, once the Oversight Board is terminated, the Government reverses its focus on fiscal discipline and allows Government expenditures to increase.

6.2 Debt Sustainability Analysis (DSA)

The DSA is intended to provide a framework for assessing the long-term capacity of the Government to pay debt service on its bonded debt. Debt levels post-restructuring need to be sustainable over the long-term and consistent with both a minimal risk of default on the restructured debt and a recovery of market access for future new money borrowings for ongoing infrastructure investment. The analysis begins with the 2021 Fiscal Plan and is then informed by the debt sustained by the most appropriate peer group against which to benchmark Puerto Rico. The DSA then applies rating agency metrics for that benchmark group to Puerto Rico to arrive at an assessment of what debt levels are sustainable in light of long-term projections and the peer metrics. Net tax-supported debt is defined as debt payable from statewide taxes and other general resources, net of obligations that are self-supporting from pledged sources other than state taxes or operating resources (such as utility or local government revenues). Prior to the enactment of PROMESA, Puerto Rico had approximately \$45 billion in tax-supported debt with a declining economy and no guarantee of sustained federal funding. Net tax-supported debt is comprised of GO, PBA, COFINA, PRIFA, HTA, CCFA, ERS, Public Finance Corporation (PFC), and other intergovernmental loans.

US states as peer comparables: Like U.S. states, Puerto Rico does not control its own currency, has no access to IMF restructuring support programs or similar international sovereign relief funding packages, and traditionally has been reliant on access to the same long-term municipal bond market used by mainland U.S. states to finance their capital needs. Puerto Rico's bonds are also rated by the same rating agency analyst groups that assign ratings to mainland U.S. states, not by foreign sovereign bond rating analysts. For these and other reasons, Puerto Rico has more similarities to U.S. states than to sovereign nations. By virtually any measure tracked by the rating agencies, Puerto Rico's existing debt levels are clear outliers relative to these U.S. state peers (*Exhibit 29*).

EXHIBIT 29: U.S. STATES AS COMPARABLES



While some observers note that Puerto Rico residents do not pay federal income taxes, they do pay Social Security and Medicare taxes, and the low per capita income levels would place most local residents in a tax bracket where they would otherwise pay little or no federal income tax. Meanwhile, federal reimbursement levels provided to Puerto Rico for the largest Government spending programs (including Medicaid and transportation) are capped at levels well below the FMAP and federal highway reimbursement levels provided to comparably sized and wealthier states. Puerto Rico's residents pay graduated income taxes to Puerto Rico at brackets comparable to the federal income tax rates, thereby providing the funds needed to provide services to the Puerto Rico resident population, which is far poorer than the population of any U.S. state. Yet Puerto Rico receives far less federal support.

Metrics for debt sustainability: Viewing U.S. states as the most comparable group for benchmarking Puerto Rico, the DSA uses the debt ratio metrics in the May 12, 2020 Moody's Investors Service (Moody's) report "Medians – State debt declined in 2019, but likely to grow in coming years" and the "Fixed Costs" ratio metrics in *Exhibit 30* of the September 18, 2020 Moody's report "Medians – Pension and Other Postemployment Benefits (OPEB) liabilities fell in fiscal 2019 ahead of jump in 2020" to develop a range of levels for sustainable debt capacity, including Maximum Annual Debt Service (MADS) levels for Puerto Rico on its restructured existing debt. The key debt ratios for the ten lowest indebted states, the 25 lowest indebted states, the 25 highest indebted states, the ten highest indebted states, and the mean for all U.S. states are shown below (*Exhibit 30*).

EXHIBIT 30: KEY DEBT RATIOS FOR U.S. STATES

Net tax-supported debt, % of GDP ¹		Net tax-supported debt to state personal income, % ¹		Net tax-supported debt per capita, \$ ¹		Debt Service, % of own-source revenues ²		Fixed Costs, % of own-source revenues ²	
Low 10	0.4	Low 10	0.4	Low 10	209	Low 10	0.9	Low 10	3.1
Low 25	0.9	Low 25	1.0	Low 25	500	Low 25	2.1	Low 25	5.1
Mean	2.3	Mean	2.6	Mean	1,505	Mean	4.3	Mean	9.7
Top 25	3.8	Top 25	4.2	Top 25	2,511	Top 25	6.5	Top 25	14.3
Top 10	5.4	Top 10	6.1	Top 10	3,900	Top 10	9.2	Top 10	20.0
1 Connecticut	8.3	1 Hawaii	9.6	1 Connecticut	6,637	1 Connecticut	14.7	1 Colorado	31.0
2 Hawaii	8.1	2 Connecticut	8.4	2 Massachusetts	6,258	2 Massachusetts	10.5	2 Idaho	27.3
3 Massachusetts	7.2	3 Massachusetts	8.3	3 Hawaii	5,528	3 Illinois	9.9	3 Kansas	23.5
4 New Jersey	5.7	4 Delaware	6.1	4 New Jersey	4,125	4 Hawaii	9.8	4 Georgia	22.1
5 Mississippi	4.8	5 New Jersey	5.8	5 New York	3,314	5 New Jersey	9.6	5 New Hampshire	21.3
6 Kentucky	4.7	6 Kentucky	5.2	6 Delaware	3,289	6 Kentucky	9.3	6 Maryland	18.6
7 Delaware	4.3	7 Mississippi	4.8	7 Illinois	2,635	7 New York	7.5	7 Maine	15.9
8 West Virginia	3.9	8 New York	4.6	8 Washington	2,579	8 Washington	7.3	8 Oregon	13.8
9 Rhode Island	3.9	9 Illinois	4.5	9 Maryland	2,323	9 Maryland	6.8	9 Washington	13.7
10 New York	3.7	10 Rhode Island	4.1	10 Rhode Island	2,308	10 Mississippi	6.4	10 Pennsylvania	13.1

¹ Moody's Investors Service. "Mutations: State debt declined in 2019, but likely to grow in coming years" from May 12, 2020.

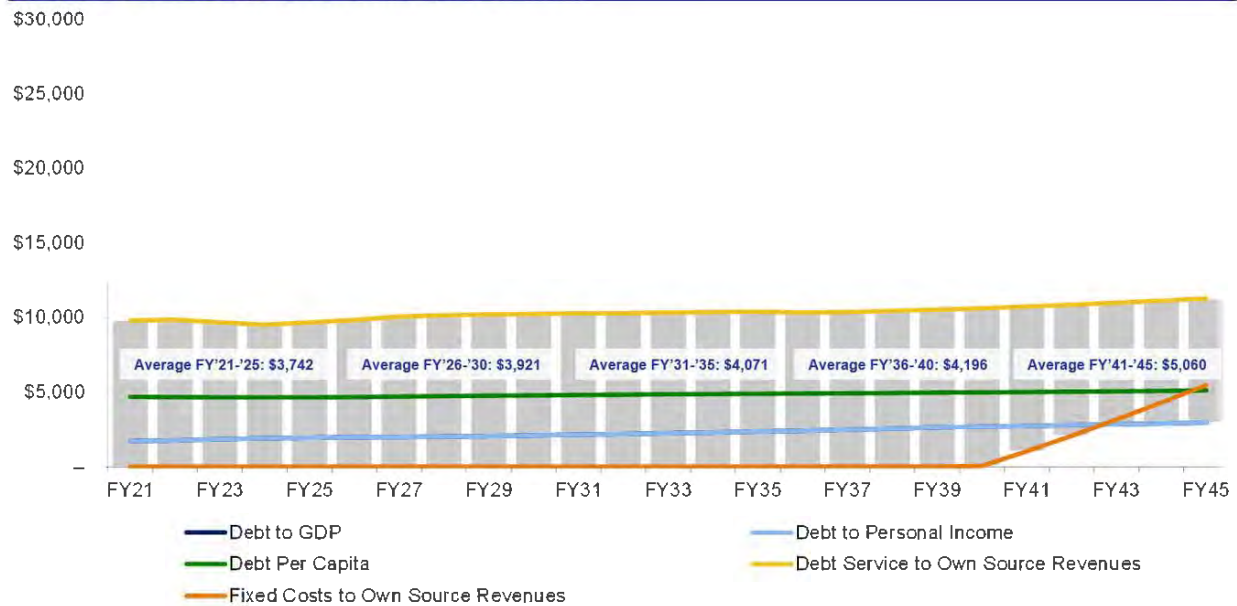
² Moody's Investors Service. "Mutations: Pension and OPEB liabilities fell in fiscal 2019 ahead of jump in 2020" from September 8, 2020.

³ "Fixed costs" are the FY2019 sum of each state's (1) net tax-supported debt service expense and then (2) actual budgetary commitments to pension expenses and other health care ("OPEB") as reported by Moody's.

Exhibit 31 uses the long-term macroeconomic forecast to determine a range of implied debt capacity based on the debt and fixed cost metrics of the average U.S. state. The debt capacity ranges shown are based off the following five methodologies: (i) debt to own-source revenues, (ii) debt per capita, (iii) debt to state personal income; (iv) debt to GDP; and (v) fixed costs to own-source revenues. Implied debt capacity and expected growth in debt capacity must be sufficient to cover both restructured debt and debt service on any future new money capital borrowings Puerto Rico needs to maintain its public infrastructure. To the extent new and additional revenues are enacted in the future, including revenues designed to support future capital projects or generated by public-private partnership infrastructure investments, those initiatives could generate additional debt capacity for Puerto Rico that is not reflected in the current 2021 Fiscal Plan projections. Consistent with the February 22, 2021 Commonwealth Plan Support Agreement, the debt service on Commonwealth tax-supported debt (excluding COFINA senior bonds) is limited to 25 years for the purposes of this analysis. The 5-year average capacity statistics represent the average par amount between the five methodologies of an implied 5.00% 25-year - level debt service structure. Moody's defines "fixed costs" as the sum of a state's annual debt service and its annual budgetary pension and retiree healthcare (i.e., Other Post-Employment Benefits (OPEB)) expenditures. Given that Puerto Rico's public employee pension system is essentially zero percent funded – and that as a consequence the Central Government will pay pension expenditures on a fully PayGo basis from budgeted revenues each year – the fixed costs ratio helps capture that burden in comparison to the level of fixed costs as a percentage of Own Source Revenues for U.S. States.

EXHIBIT 31: IMPLIED NET TAX-SUPPORTED DEBT CAPACITY RANGE BASED ON AVERAGE U.S. STATE

Implied debt capacity range based on average US state, \$M

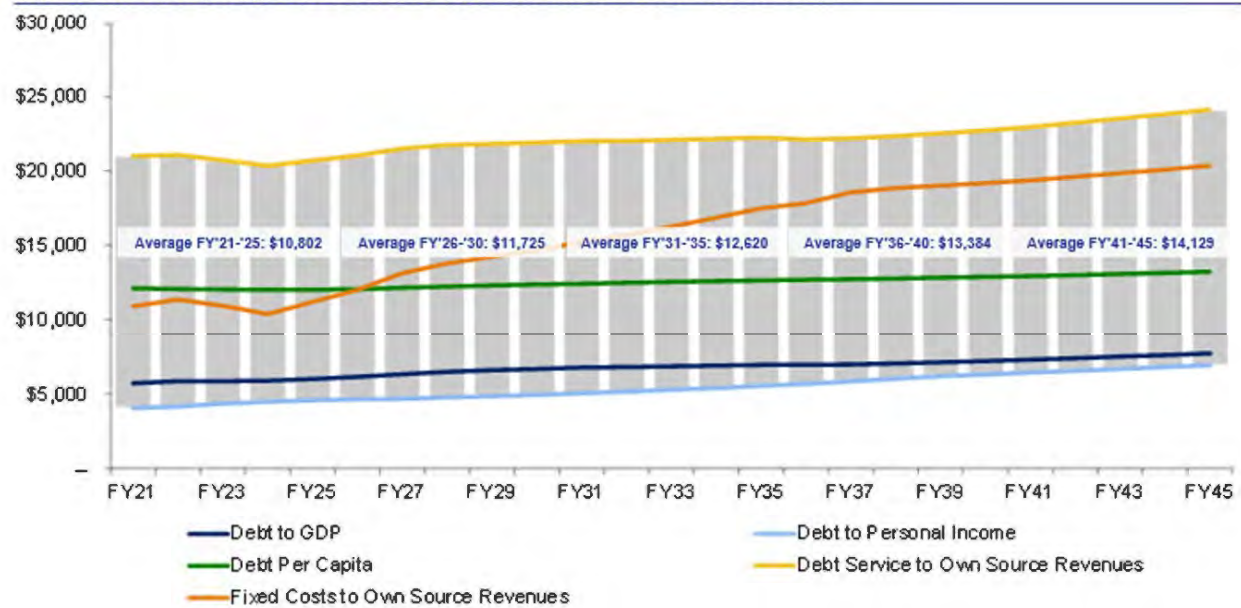


For illustration purposes. Values in \$000's

Exhibit 32 uses the long-term macroeconomic forecast to determine a range of implied debt capacity based on the debt metrics of the *10 highest indebted* U.S. states. The debt capacity ranges shown are based off the following five methodologies: (i) debt service to own source revenues, (ii) debt per capita, (iii) debt to state personal income, (iv) debt to GDP, and (v) fixed costs to own-source revenues. Implied debt capacity and expected growth in debt capacity must be sufficient to cover both restructured debt and future debt issuance. The 5-year average capacity statistics represent the average amount between the five methodologies of an implied 5.00% 25-year level debt service structure.

EXHIBIT 32: IMPLIED NET TAX-SUPPORTED DEBT CAPACITY RANGE BASED ON TOP-10 HIGHEST INDEBTED U.S. STATE DEBT METRICS

Implied debt capacity range based on top-10 highest indebted US state debt metrics, \$M



The illustrative implied levels of the Government's restructured debt in the previous chart are calculated by applying the Net Tax Supported Debt ratios of the "top ten" U.S. states (in terms of debt load) to Puerto Rico's future projected GDP, population and Own-Source Revenues. Debt Service to Own Source Revenue and Fixed Costs to Own Source Revenues figures are derived assuming debt service of a long-term level debt service structure, 5.00% average coupon and 25-year level debt service structure.

Exhibit 33 uses the long-term macroeconomic forecast to determine a range of implied debt capacity based on the debt metrics of the *25 highest indebted* U.S. states with the same five methodologies.

EXHIBIT 33: IMPLIED NET TAX-SUPPORTED DEBT CAPACITY RANGE BASED ON TOP-25 HIGHEST INDEBTED U.S. STATE DEBT METRICS

Implied debt capacity range based on top-25 highest indebted US state debt metrics, \$M

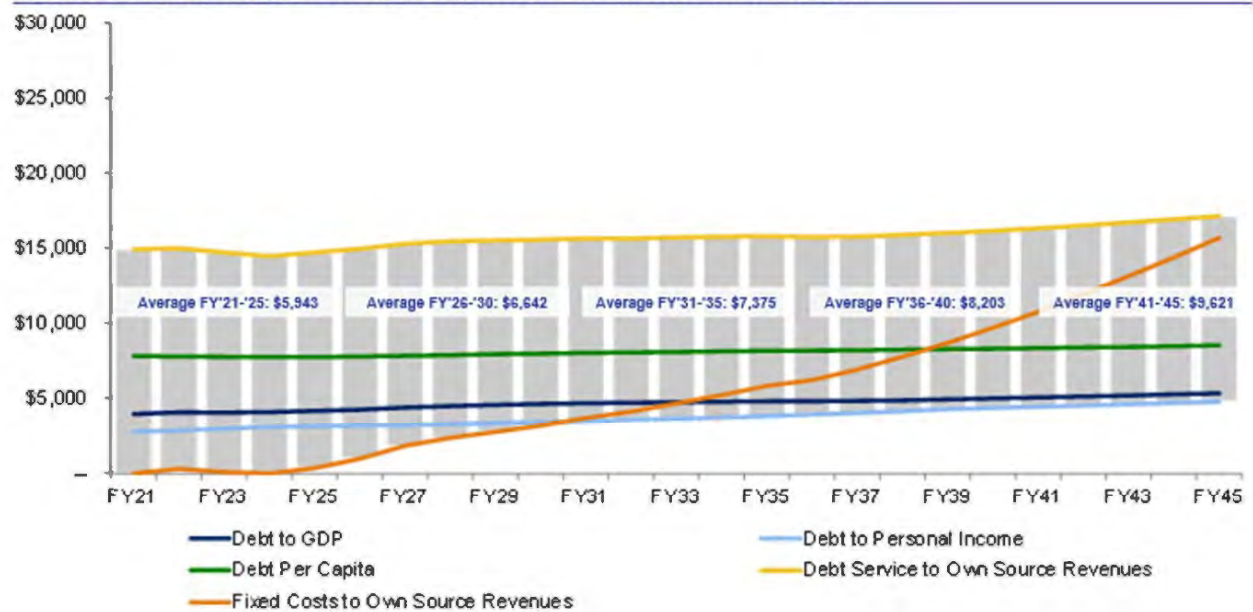
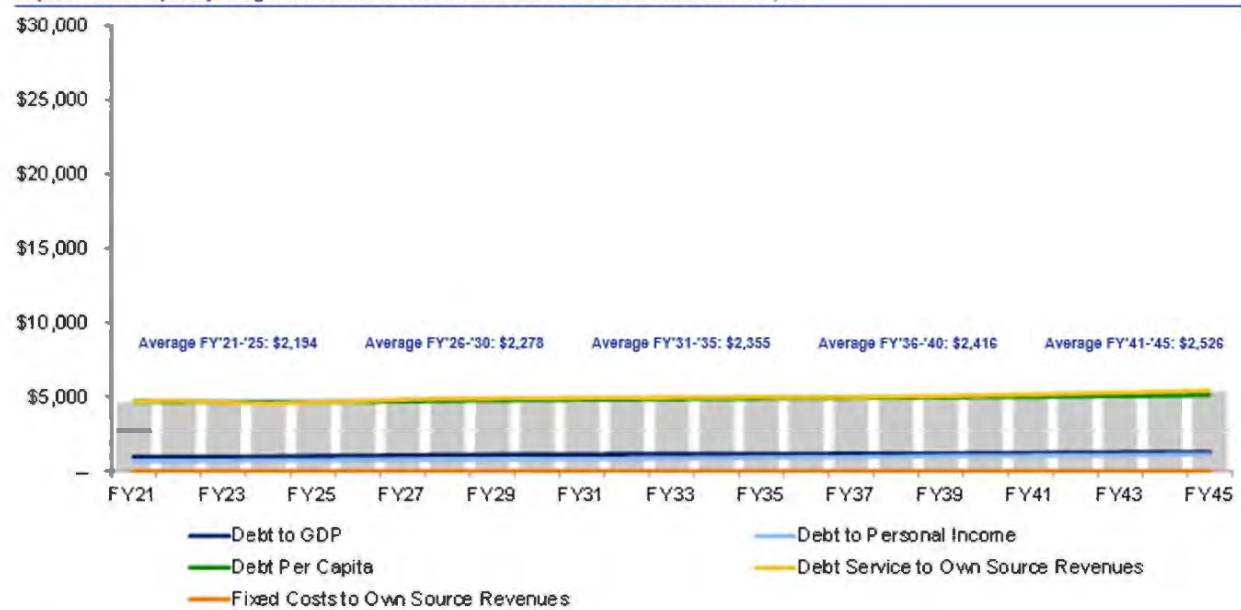


Exhibit 34 uses the long-term macroeconomic forecast to determine a range of implied debt capacity based on the debt metrics of the *25 lowest indebted* U.S. states with the same five methodologies.

EXHIBIT 34: IMPLIED NET TAX-SUPPORTED DEBT CAPACITY RANGE BASED ON 25 LOWEST INDEBTED U.S. STATE DEBT METRICS

Implied debt capacity range based on 25 lowest indebted US state debt metrics, \$M



Maximum annual debt service cap on fixed payment debt: The implied debt capacity and expected growth in debt capacity is the Oversight Board's determination of the highest debt service levels that would be compatible with economic sustainability, fiscal responsibility, and the regaining of market access. The maximum MADS level is derived from both the 2021 Fiscal Plan cash flow projections and U.S. state rating metrics, and specifically a rating metric that Moody's calls the "Debt Service Ratio." The Debt Service Ratio is the ratio of total payments due in a year on all existing net tax-supported debt over that state government's debt policy revenues in that year. The debt policy revenues for the Commonwealth are forecast to be \$16.2B in FY2022 and to increase to \$21.1B by FY2051.⁴⁰

The Moody's report indicates that the average Debt Service Ratio for the all U.S. states is 4.3% (see *Exhibit 30*). The Moody's report indicates that the average Debt Service Ratio for the top 10 most indebted states is 9.2%. The Moody's report indicates that the average Debt Service Ratio for the top 25 most indebted states is 6.5%. The Moody's report indicates that the average Debt Service Ratio for the 25 lowest indebted states is 2.1%. To the extent any of these Debt Service Ratios is used to set a MADS cap on the restructured debt and the Primary Surplus is below the MADS level, then the debt service due on fixed payment debt would need to be set at the lower of the amount available for debt service or the MADS limit.

With respect to the Moody's Fixed Costs Ratio, the September 2020 Moody's report indicates that the average Fixed Costs Ratio for all U.S. States is 9.7%. The same report indicates that the average Fixed Costs Ratio for the 10 States with the highest Fixed Costs Ratios is 20.0%, the average Fixed Costs Ratio for the 25 States with the highest Fixed Costs Ratios is 14.3%, and the average Fixed Costs Ratio for the 25 States with the lowest Fixed Costs Ratios is 5.1%.

Debt sustainability analysis. *Exhibit 35* below calculates implied debt capacity based on a range of interest rates and 2021 Fiscal Plan risk factors under an assumed illustrative 25-year term and level debt service. The risk factor is calculated by reducing the amount of projected cash flow available per year for debt service by a certain percentage. For example, a 20% risk factor case would use only 80% of the projected cash flow available to pay debt service on fixed payment debt.

EXHIBIT 35: IMPLIED DEBT CAPACITY BASED ON RANGE OF INTEREST RATES AND RISK FACTORS

Implied debt capacity based on range of interest rates and contingency, \$M

		Sensitivity Analysis: Implied Debt Capacity at 20% contingency			
Illustrative Cash Flow Available		\$200	\$400	\$600	\$800
Sensitivity Analysis: PV Rates %	4.0%	\$2,500	\$4,999	\$7,499	\$9,998
	5.0%	2,255	4,510	6,765	9,020
	6.0%	2,045	4,091	6,136	8,181
		Sensitivity Analysis: Implied Debt Capacity at 5% PV Rate			
Illustrative Cash Flow Available		\$200	\$400	\$600	\$800
Sensitivity Analysis: % Contingency	10.0%	\$2,537	\$5,074	\$7,611	\$10,148
	20.0%	2,255	4,510	6,765	9,020
	30.0%	1,973	3,946	5,919	7,893

⁴⁰ Calculated as adjusted revenue post measures (excluding federal transfer) plus COFINA debt service. COFINA debt service figures based on Per page 15 of June 2020 COFINA Certified Fiscal Plan. See appendix for forecast annual debt service revenue through FY2051 (see *Section 24.2*)

Restoration of cost-effective market access: As Puerto Rico seeks to regain cost-effective capital markets access, rating analysts and investors will demand that the Government demonstrate improvement in all four core areas of creditworthiness identified by Moody's: (i) the economy, (ii) Government finances, (iii) governance, and "fixed cost" debt service, and (iv) pension expenditures. The Government must adhere to structurally balanced budgets reflecting ongoing fiscal discipline and return to the timely publication of audited financial statements and related disclosure information. Together, these and other measures outlined in the 2021 Fiscal Plan can chart a path to restoring Puerto Rico's market access.

PART III: Restoring growth to the Island

The fiscal and economic turnaround of Puerto Rico cannot be accomplished without the implementation of structural economic reforms that promote the transformation of the Island's economy and its workforce. Puerto Rico struggles from an uncompetitive labor market, unreliable energy and infrastructure, regulatory and other burdens that hinder business productivity, and low educational outcomes and workforce support – all of which prevent it from competing in a global economy and from attaining positive economic growth. Structural reforms—those that seek to strengthen the fundamental drivers of economic growth to encourage job creation, investment, and increased productivity—could transform Puerto Rico's future. Years of successive natural disasters and health crises further underscore the need for comprehensive Government action as outlined in this 2021 Fiscal Plan to reverse the economic challenges that have plagued the Island and its people for far too long. If implemented quickly and widely, structural reforms are projected to drive real economic growth, reversing decades-long economic challenges and enabling the Island's economy and its people to flourish.

Specifically, the Government must pursue the following structural economic reforms to achieve their forecasted economic impact:

- **Human capital and welfare reforms** that will improve the well-being and self-sufficiency of all local residents, increase the quality and competitiveness of the workforce, enable investment, and facilitate the economic modernization of the Island, resulting in a cumulative GNP impact of 0.15% by FY2025.
- **K-12 education reforms** that will position all students to succeed in school and upon graduation by raising the quality of the Island's public schools, resulting in an additional 0.01% GNP impact per year starting in FY2037 (i.e., reaching 0.15% by FY2051).⁴¹
- **Ease of doing business reforms** that will improve conditions for economic activity and business vitality, attracting new investment and creating jobs, resulting in a cumulative GNP impact of 0.30% by FY2026.
- **Power sector reforms** that will improve the availability, reliability, and affordability of energy for families and businesses, resulting in 0.30% cumulative GNP impact by FY2026.
- **Infrastructure reform and capital investment** that will improve the flow of goods, services, information, and people across the Island.

Unfortunately, while the Government has faced numerous unexpected disasters and crises that impeded implementation, it has also, at times, rejected the deadlines outlined in the Fiscal Plans. Together, this has resulted in delayed implementation on most of the identified structural reforms. For example, the Government has:

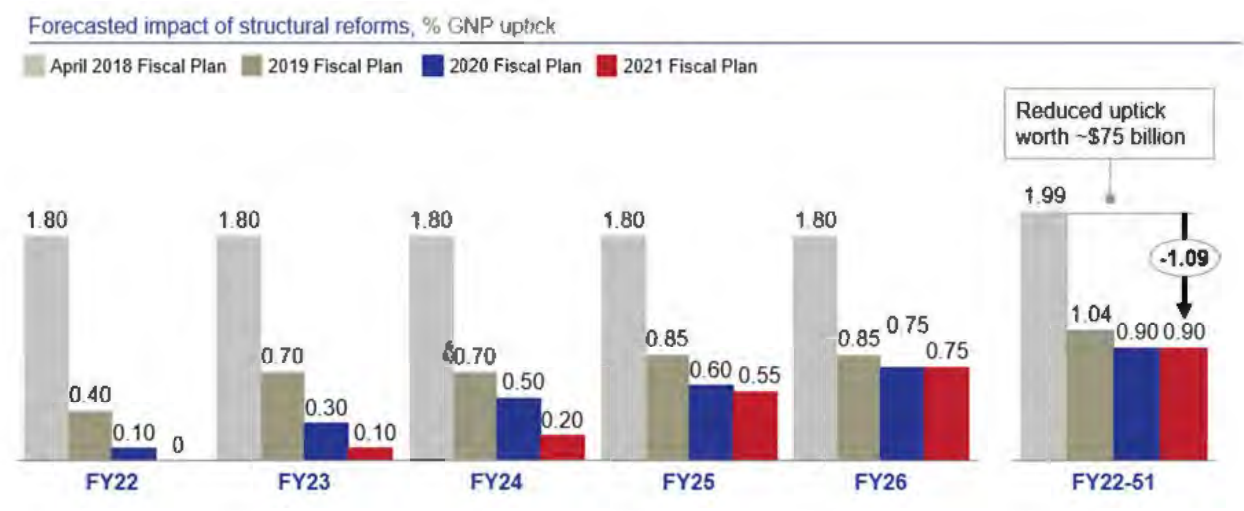
- Implemented the Earned Income Tax Credit (EITC) but without a robust campaign to raise awareness of the new benefit and encourage work in the formal sector;
- Delayed implementation of the complementary Nutrition Assistance Program (NAP) work requirement;
- Made little progress in strengthening the Island's workforce development programs;
- Increased on-Island land freight charges and expanded the regulation across incremental sectors of the economy, rather than deregulating as outlined in this and previous Fiscal Plans;

⁴¹ Education reforms are projected to generate GNP impact after the first kindergarten class to benefit from those reforms completes their first year in higher education or the workforce. As such, the 2021 Fiscal Plan assumes that the implementation of K-12 education reforms in FY2024 will generate GNP uptick starting in FY2037

- Implemented very few of the required ease of doing business reforms with sufficient progress to make the Island substantially more competitive and attractive to investors; and
- Undertook almost no discernible efforts to reform the Island's K-12 education system, a situation that is partially explained but also exacerbated by the COVID-19 pandemic.

These delays have already diminished the projected economic uptick and revenues associated with structural reforms. Had the structural reforms above been implemented at the pace and scale forecasted in the 2019 Fiscal Plan, the Government would have generated 0.14% in additional GNP uptick, worth another \$12 billion in tax revenues by FY2051. This shortfall is even more pronounced relative to the structural reform impact forecasted in the April 2018 Fiscal Plan, whereby the Government would have generated 1.09% in additional GNP uptick, worth another \$75 billion in tax revenues by FY2051 (*Exhibit 36*). Not only have the residents of Puerto Rico lost opportunities to gain new skills, experiences and education, but the Island has lost time in attracting incremental investment that would produce jobs and tax revenues to be reinvested again into the people of Puerto Rico.

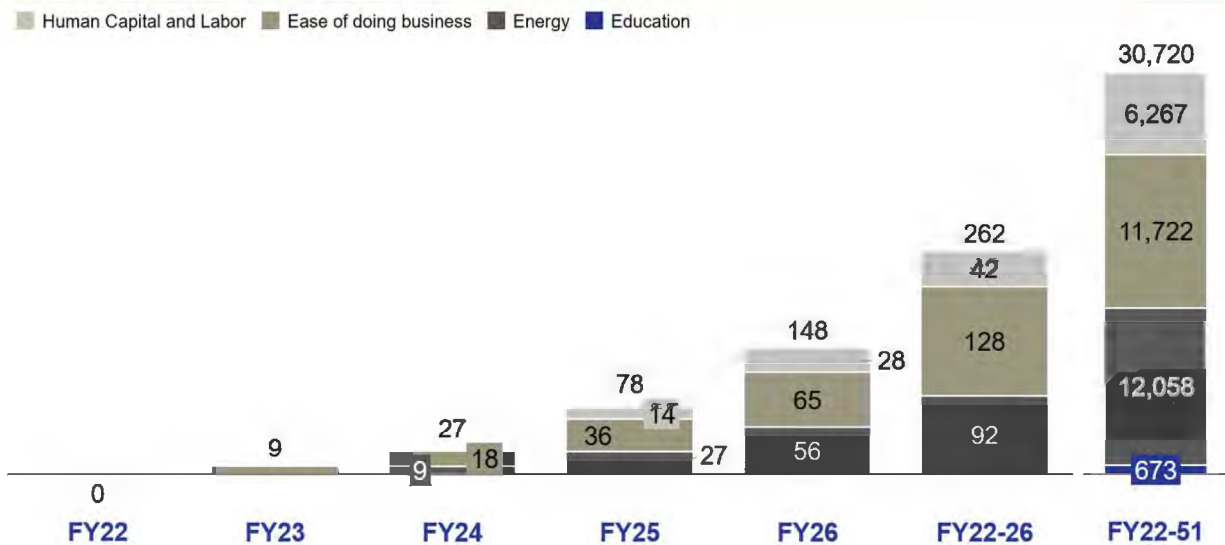
EXHIBIT 36: COMPARISON OF GNP UPTICK FROM STRUCTURAL REFORMS ACROSS FISCAL PLANS



Given the disruption and hardship brought about by the COVID-19 pandemic, the economic uplift that could be generated through structural reforms matters now more than ever. Urgent and comprehensive Government action is needed to promote economic recovery and opportunity for all local residents. If implemented as specified in this 2021 Fiscal Plan, structural reforms are projected to collectively generate an invaluable 0.75% GNP uptick by FY2026, as well as 0.90% in total GNP growth and more than \$30 billion in additional Commonwealth revenues by FY2051. As discussed in *Chapter 6*, these revenues will play a key role in helping the Government address budget shortfalls in the medium- and long-term.

EXHIBIT 37: ESTIMATED IMPACT OF STRUCTURAL REFORMS IN THE 2021 FISCAL PLAN

Impact of structural reforms, \$M



Chapter 7. Human capital and welfare reform

7.1 Basis for human capital and welfare reforms

Increasing the productivity of Puerto Rico's labor force is essential to creating growth. There are several structural reasons why Puerto Rico lags its potential, and that each must be addressed with tailored actions.

In 2020 Puerto Rico's formal labor force participation rate was on average 40.2%, among the lowest in the world and far below U.S. and Caribbean averages.⁴² As the Congressional Budget Office states, labor force participation is an important component of economic growth, since it allows firms to expand employment and increase production, and has an important impact on fiscal and budget trends.⁴³ Puerto Rico has an opportunity to increase this rate and must aspire to reach at least the rate of the lowest U.S. state (West Virginia, with 55%), to provide its economy with the dynamism it requires to foster growth.⁴⁴

Puerto Rico's low labor force participation is a function of a wide range of factors, including suboptimal eligibility criteria for welfare programs and underperforming human capital development systems, among others. This low level predates the 2017 hurricanes, the 2019-20 earthquakes, the COVID-19 pandemic, and even the economic downturn that began in 2006. According to the World Bank, Puerto Rico's labor force participation rate has ranked in the

⁴² For comparison, the U.S. has a 61% labor force participation rate. In the Caribbean, the Dominican Republic's labor force participation rate was 62% in 2020. Jamaica and Haiti's rates were even higher (64% and 65%, respectively). See the World Bank Group via International Labor Organization, "Labor force participation rate, total (% of total population ages 15+)," 2020; and Departamento del Trabajo y Recursos Humanos, "Empleo y Desempleo en Puerto Rico," Diciembre 2020

⁴³ Congressional Budget Office, Factors Affecting the Labor Force Participation of People Ages 25 to 54, 2018

⁴⁴ US Bureau of Labor Statistics, "Employment status of the civilian noninstitutional population 16 years of age and over by region, division, and state, 2019-2020 annual averages," 2020

bottom-20 of more than 200 global economies since at least 1990 and in the bottom-15 since 2009.⁴⁵

Suboptimal eligibility criteria for welfare programs: The current design of welfare programs may disincentivize some residents from pursuing work within the formal economy in order to ensure sufficient nutritional support, housing and healthcare.⁴⁶ For instance, current welfare eligibility guidelines sharply phase-out beneficiaries as their income rises, informally taxing workers for seeking work within the formal economy.⁴⁷ This phenomenon is particularly pronounced in the case of recipients of public housing assistance: even securing a *part-time* minimum wage job can render a beneficiary ineligible for public housing, potentially forcing some beneficiaries to choose between formal sector work and keeping their homes.⁴⁸ Working with the Federal Government to revise eligibility guidelines and other policies that encourage residents to work could help resolve these issues.

Underperforming human capital development systems: In 2012, Puerto Rico participated for the first time in the PISA test (Programme for International Student Assessment) and participated again in 2015. The test, sponsored by the Organization for Economic Cooperation and Development (OECD), was administered by the local Department of Education. It tests the knowledge and skills of students through a uniform metric that was internationally agreed upon. It measures the ability of students aged 15 to use their reading, mathematics, and science knowledge skills to meet real-life challenges. At the international level, Puerto Rico scored, on average, in all three areas below the U.S. and OECD member countries.⁴⁹ These relatively low levels of proficiency represent a challenge for Puerto Rican students to graduate from secondary and high-school. Failure to graduate is often correlated with a higher probability of joining the informal labor sector and receiving lower wages.⁵⁰

Worker training programs in Puerto Rico, meanwhile, are managed in a disjointed manner by 15 local workforce boards. Strengthening the Island's education system, as well as the workforce development programs, could mitigate these challenges and help ensure that all local residents are able to participate in the current and future economy. The significant amount of workers displaced due to the pandemic adds another level of urgency to improving workforce development in Puerto Rico.

Unfortunately, the Government has delayed the implementation of many human capital and welfare reforms intended to address these structural challenges, reducing the potential economic uplift to the Island and delaying the opportunity for residents in need of this critical support. Continued Government inaction will further jeopardize the development of Puerto Rico's human capital, the opportunities available to each resident of Puerto Rico for personal development and economic self-sufficiency, and the projected GNP uptick and its associated increases in tax revenues.

⁴⁵ See the World Bank Group via International Labor Organization, "Labor force participation rate, total (% of total population ages 15+)," 2020

⁴⁶ Cordero-Guzmán, "The production and reproduction of poverty in Puerto Rico," in Nazario, ed. *Poverty in Puerto Rico: A Socioeconomic and Demographic Analysis with data from the Puerto Rico Community Survey* (2014), 2016

⁴⁷ For example, a single parent with two dependents and an annual income below \$4,900 was eligible to receive up to \$4,229 dollars in annual Nutritional Assistance Program (NAP) benefits in 2016. But, should this parent work 35 hours per week at minimum wage—generating approximately \$12,180 in annual earnings, they would become ineligible for NAP benefits. Net of taxes on their earning, full-time formal sector work would increase household income by only \$7,002—the equivalent of a \$3.86 effective hourly wage. Effective hourly wage income equals income received from formal sector work minus income lost from loss of benefits

⁴⁸ The U.S. Department of Housing and Urban Development (HUD) sets income limits that determine the eligibility of applicants for assisted housing programs. For U.S. states, the limit to be considered an "extremely low-income family" is determined by HUD using the Department of Health and Human Services (HHS) poverty guidelines. However, an alternative formula is used to define an extremely low-income family for Puerto Rico—30% of the median family income for an area or lower—which results in lower income limits. The current HUD income limits are so low that, in many cases, entering the formal labor market in a part time job at the minimum wage would result in losing eligibility for housing assistance. Thus, the existing income limits directly disincentivize formal employment and hinder economic mobility in Puerto Rico

⁴⁹ OECD, PISA 2015 Results (Volume I): Excellence and Equity in Education, 2016

⁵⁰ International Monetary Fund, "Role of Individual Characteristics and Policies in Driving Labor Informality in Vietnam," 2020

To achieve the associated increases to GNP, the Government must implement the following human capital and welfare reforms.

Expand the Earned Income Tax Credit (EITC) and broadly publicize it by:

- Puerto Rico Legislature: Collaborating with Hacienda to design an extended EITC program that complies with what is outlined in the American Rescue Plan (ARP) Act and adjusting regulations accordingly
- Hacienda: Complying with all execution requirements outlined in the ARP Act, including sending timely annual reports to the U.S. Department of the Treasury
- Hacienda: Promoting the EITC in collaboration with the Administration of the Socio-Economic Development of the Family (ADSEF, by its Spanish acronym)
- ADSEF: Designing a multifaceted EITC outreach strategy (including working with community organizations throughout the Island)

Implement a Nutritional Assistance Program (NAP) work/volunteer requirement in the next two years by:

- ADSEF: Creating a work/volunteer requirement compliant with the 2021 Fiscal Plan parameters
- ADSEF: Completing all administrative requirements (e.g., obtaining Federal Government approval) necessary to implement a work/volunteer requirement
- ADSEF: Verifying the eligibility of all adult NAP recipients (including adults without dependent children) for the new work/volunteer requirement

Support high-quality workforce development programs by:

- Department of Economic Development and Commerce (DDEC, by its Spanish acronym): Creating partnerships with private and social sector organizations to strengthen worker training
- DDEC: Conducting regular analyses to understand private sector labor market needs
- DDEC: Integrate the results of the analyses into a holistic strategic plan that states how different workforce development efforts blend in a cohesive way across programs and the 15 local boards
- DDEC & Vivienda: Allocating resources in a data-driven manner
- DDEC: Removing structural barriers to employment (e.g., difficulty in securing transportation and childcare to go to work)

7.2 Expand and broadly publicize the Earned Income Tax Credit (EITC) by leveraging ARP Act federal funding

The ARP Act included permanent additional funds to incentivize Puerto Rico to expand the local EITC program put in place for tax year 2019. The ARP Act provides for up to \$600 million to be delivered to Puerto Rico in the form of a reimbursable grant, equivalent to three times the local spending, and indexed for U.S. inflation after the first year. The Government must amend the current EITC program to qualify for the additional federal funding provided in the ARP Act.

The ARP Act establishes that, in order to qualify for this additional funding, Puerto Rico must:

- Increase the percentage of earned income which is allowed as a credit for each group of recipients, in a manner designed to substantially increase labor force participation
- Spend an amount of local funds greater than a statutorily specified base amount of \$200 million each year, adjusted for U.S. inflation
- Provide an annual report to the U.S. Department of the Treasury that includes an estimate of the EITC cost for that year and a statement of the actual costs in the preceding year

To fulfill these requirements the Government must amend the local EITC legislation to expand the program's reach and benefits. These amendments must ensure the program complies with the design parameters outlined in the ARP Act. Other than expanding local EITC funding to maximize matching federal funding, the amended legislation should otherwise be consistent with the Revenue Neutrality Principle included in this and previous Fiscal Plans.

Under this amended regulation, the Government must make annual payments to EITC recipients of at least \$800 million to ensure receipt of the full amount of the federal grant. Thus, and to enable the permanent positive effect of such additional federal funding on Puerto Rico's residents and economy, the Oversight Board has made available the local resources required to reach the full federal funding available. The 2021 Fiscal Plan includes this incremental funding.

On top of the funding for the tax credit expansion, the ARP Act includes an additional payment of \$1.0 million per year to pay for EITC outreach and education through 2025. Previous Fiscal Plans established that to effectively enhance labor force participation and reduce poverty through increased EITC benefits, the Government must more comprehensively promote the program for tax year 2020 and beyond.

US policymakers have implemented and promoted the EITC across mainland states and have seen meaningful gains in formal labor force participation as a result, especially among low-to-moderate-income workers.⁵¹ The credit is an effective anti-poverty tool, empowering beneficiaries to defray the cost of education, training, and childcare and support their own self-sufficiency.⁵² Since its creation in 1996, the EITC has lifted 6.5 million people out of poverty (half of them children)—more than any other US-based anti-poverty initiative. However, the value of the EITC is greatest when the targeted population is sufficiently knowledgeable of its value to a degree that influences daily decision-making around whether they will enter or stay in the formal economy and whether they will seek employment in Puerto Rico or elsewhere.

7.2.1 EITC design parameters

The Fiscal Plans required the Government to introduce an EITC, which adhered to the following parameters in tax year 2019:

- Individual benefit is dependent on a filer's marital status, number of dependents, and earned income verifiable through an employer-issued tax withholding statement
- Potential benefit increases as earned income rises to a cap, then plateaus, and then decreases at a phase-out income level until it reaches \$0
- EITC is coupled with a robust promotional campaign to raise awareness of the benefit among potential claimants and encourage formal labor force participation

In addition to the 2021 Fiscal Plan and ARP Act parameters listed above, when amending the Puerto Rico's EITC legislation, the "EITC must increase the percentage of earned income which is allowed as a credit for each group of individuals with respect to which such percentage is

⁵¹ National Bureau of Economic Research, "Behavioral Responses to Taxes: Lessons from the EITC and Labor Supply," 2006

⁵² To reward formal sector work, the credit reduces claimants' tax obligations and often generates a cash refund. For example, a \$1,000 increase in EITC benefit has been tied to a 7.3% increase in employment; see Hoynes and Patel, "How Does EITC Affect Poor Families," 2015.

separately stated or determined in a manner designed to substantially increase workforce participation.”⁵³

7.2.2 Current state and path forward

Although the Government has implemented an EITC for tax years 2019 and 2020 which is consistent with the design parameters laid out above, the Government has not coupled the credit with a robust promotional campaign as required by the 2020 Fiscal Plan. Hacienda’s EITC outreach efforts have centered primarily around sending circular letters detailing the benefit to tax preparers and establishing a handful of outreach centers across the Island to discuss EITC with potential filers in-person. The operation of centers was cut short with the COVID-19 pandemic lockdown. By relying extensively on an in-person outreach campaign after the tax year was over and failing to establish a more robust promotional strategy (e.g., via digital channels, targeted marketing), the uptake of the program and its intended benefits have been limited.

The efforts from FY2022 and beyond must be to take the necessary actions to incorporate the additional federal funding included in the ARP Act and to design and execute an effective and extensive educational and promotional strategy. The outreach strategy should be evidence based and focused on encouraging non-filers to file. Recent research from Virginia showed that sending mailers and automated calls to those that are eligible was a cost-effective way to increase EITC participation. Additionally, researchers suggest that advertising free tax services, such as the mainland’s volunteer income tax assistance (VITA) program, can encourage those that do not file taxes to file.

Hacienda should also consider partnering with private sector tax-prepares to help with the outreach for both the EITC and the CTC.

The Government must accomplish the following actions by their respective deadlines, which will maximize the uptake and benefits of EITC:

⁵³ American Rescue Plan Act of 2021

EXHIBIT 38: REQUIRED IMPLEMENTATION ACTIONS FOR EITC

Action item	Owner	Deadline
▪ Monitor EITC filing data to prevent and detect fraud	▪ Hacienda	▪ Ongoing
▪ Assume responsibility for managing EITC outreach in tax year 2021 and beyond	▪ ADSEF	▪ July 16, 2021
▪ Design an EITC outreach strategy for tax year 2021 and share with Oversight Board	▪ ADSEF	▪ September 15, 2021
▪ As established by the ARP Act, increase the percentage of earned income which is allowed as a credit for each group of recipients, in a manner designed to substantially increase labor force participation.	▪ Hacienda	▪ September 15, 2021
▪ Provide an annual report to the U.S. Department of the Treasury that includes an estimate of the EITC cost for that year and a statement of the actual cost in the preceding year.	▪ Hacienda	▪ September 15, 2021
▪ Design a recurring assessment of performance to fulfill federal guidelines and reform the EITC platform so can be aligned with federal requirements.	▪ Hacienda	▪ September 15, 2021
▪ Prepare EITC performance report and share with Oversight Board	▪ Hacienda	▪ September 15, 2021
▪ Meet with Oversight Board to discuss EITC performance report and tax year 2021 promotional strategy	▪ Hacienda, ADSEF	▪ September 30, 2021
▪ Launch new EITC promotional campaign	▪ ADSEF	▪ Annually from January 1 2022
▪ Monitor EITC uptake data in real-time to inform promotional campaign	▪ Hacienda, ADSEF	▪ Ongoing each tax year
▪ Prepare EITC performance report and share with Oversight Board	▪ Hacienda, ADSEF	▪ Annually from June 1, 2022
▪ Discuss EITC performance with Oversight Board	▪ Hacienda, ADSEF	▪ Annually from June 15, 2022

To be completed in FY2022

A key element of the mechanism through which the EITC impacts growth is its ability to bring informal labor into the formal labor sector and, thus, increase labor force participation. For this to happen, the EITC should be supported by a labor regulatory environment that is supportive of hiring labor in the formal sector.

The Labor Transformation and Flexibility Act, or Act 4-2017, did not go nearly as far as needed to eliminate the most egregious elements of Act 80 of 1976, also known as the Unjust Dismissal Act. However, Act 4-2017 did to some extent ease some restrictions on labor hiring. While some stakeholders have called for the repeal of Act 4-2017, its elimination would likely reestablish onerous provisions related to probationary periods, overtime, and bonuses, which would all make the hiring environment more costly in the formal sector. Its repeal would discourage new hiring and reduce the labor market flexibility, thus limiting the effectiveness of the EITC expansion in promoting labor force participation, economic growth, and the revenues associated with that growth. Therefore, the Government must refrain from repealing Act 4-2017 or enacting new legislation that negatively impacts labor market flexibility.

According to the 2020 World Bank's Doing Business study focused on the impact of labor flexibility on labor formality, there is approximately a linear relation whereby informality is inversely related to the degree of employment flexibility. Clearly then, the elimination of Act 4-2017 or other actions taken that are detrimental to a labor regulatory environment supportive of hiring labor in the formal sector would put at risk the incremental GNP growth and revenues related to the implementation of the EITC.

7.3 Introduce a Nutritional Assistance Program (NAP) work/volunteer requirement

To further support labor force participation, the 2021 Fiscal Plan requires the Government to introduce a work/volunteer requirement for select adult NAP beneficiaries, with full implementation by the beginning of FY2024. NAP is Puerto

Rico's largest Government assistance program and provides nutritional assistance. Unlike mainland Supplemental Nutritional Assistance Program (SNAP) benefits, NAP does not include a work/volunteer requirement. The Federal Government requires that all able-bodied adult beneficiaries without dependent children work, volunteer, or be enrolled in worker training classes for at least 20 hours per week to receive SNAP benefits.⁵⁴ When well-designed, including such requirements in similar programs has led to increases in labor force participation.⁵⁵ The implementation of a NAP work/volunteer requirement would contribute to increasing labor market participation and to achieve the potential growth anticipated from human capital and welfare reforms.

7.3.1 Specific initiatives and design parameters

The 2021 Fiscal Plan requires the Government to implement a NAP work/volunteer requirement using the following parameters. Specifically, by FY2024 the Government must:

- Apply the requirement year-round to all able-bodied NAP beneficiaries aged 18-59 without dependent children in their household⁵⁶
- Grant all eligible recipients up to a three-month transition period to secure employment, begin volunteering, or enroll in qualified education or training programs ("qualifying activities")
- Mandate that all eligible recipients complete 80 hours of qualifying activities per month
- Ensure NAP eligibility guidelines and benefit calculations effectively promote the labor force participation increase by avoiding drastic phase-out structures that could factually penalize eligible recipients for seeking formal sector work
- Redistribute savings realized through the work/volunteer requirement to boost working eligible recipients' take-home pay through an expansion of the Earned Income Disregard (EID)⁵⁷

7.3.2 Current state and path forward

The 2020 Fiscal Plan provided design parameters and specific milestones for the implementation of a NAP work/volunteer requirement. Unfortunately, as of April 2021, the Government has made no meaningful progress in the implementation of this work/volunteer requirement. The Government has yet to meet any major milestones in the implementation of this reform, including designing the requirement itself.

The Government has recently committed to a 2-year implementation timeline. Reaching full and timely implementation requires urgent and nimble action from the Government.

The Government must accomplish the following action items by their respective deadlines:

⁵⁴ NAP also differs from SNAP in that the former is funded as a block grant and is administered separately from the latter; see Center on Budget and Policy Priorities, "How Does Household Food Assistance in Puerto Rico Compare to the Rest of the United States?" published 2020

⁵⁵ For example, when the Federal Government first introduced a work/volunteer requirement for recipients of Temporary Assistance for Needy Families (TANF) benefits in the 1990s, the labor force participation rates of single mothers rose while poverty rates among single mothers and children both fell substantially. See Gitis, "A Menu of Options to Grow the Labor Force," 2017, and Gitis and Arndt, "The 20th Anniversary of Welfare Reform," 2016

⁵⁶ As such, all NAP recipients who are under the age of 18, older than the age of 59, have children dependents in their household, or are medically certified as physically or mentally unfit for employment should be excluded from the work/volunteer requirement

⁵⁷ The EID allows Government assistance beneficiaries to exclude a portion of income earned through formal sector work from welfare benefit calculations. An increase in the EID can boost an aid recipient's take-home pay by allowing them claim Government benefits that they otherwise would not be eligible for due to an increase in earned income

EXHIBIT 39: REQUIRED IMPLEMENTATION ACTIONS FOR NAP WORK REQUIREMENT

Required implementation action	Owner	Deadline
▪ Design a NAP work/volunteer requirement proposal compliant with parameters above and share with the Oversight Board	▪ ADSEF	▪ August 1, 2021
▪ Meet with the Oversight Board to discuss proposal	▪ ADSEF	▪ August 15, 2021
▪ Submit work/volunteer proposal to FNS ²	▪ ADSEF	▪ September 15, 2021
▪ Assess operational requirements needed to implement the work/volunteer requirement as proposed	▪ ADSEF	▪ April 1, 2022
▪ Discuss operational requirements with the Oversight Board	▪ ADSEF	▪ April 15, 2022
▪ Receive work/volunteer requirement approval from FNS	▪ ADSEF	▪ November 1, 2022
▪ Publish FNS-approved State Plan aligned with Certified Fiscal Plan parameters	▪ ADSEF	▪ December 15, 2021
▪ Retain a qualified third-party analytical firm acceptable to the Oversight Board to oversee implementation	▪ ADSEF	▪ January 1, 2022
▪ Complete review of all NAP recipients to verify work/volunteer requirement eligibility	▪ ADSEF	▪ June 31, 2022
▪ Implement full-year work/volunteer requirement	▪ ADSEF	▪ July 1, 2023
▪ End three-month transition period for eligible recipients	▪ ADSEF	▪ September 30, 2023
▪ Validate work/volunteer requirement implementation with the Oversight Board	▪ Third party-firm	▪ November 15, 2023
▪ Publish annual report on NAP program and work/volunteer requirement performance	▪ ADSEF	▪ Annually from August 15, 2024

7.4 Create high-quality workforce development programs

To facilitate increased labor force participation, the 2021 Fiscal Plan requires that the Government take steps to more effectively train residents on the knowledge and skills needed to contribute to the economy. Currently, the Island's worker training programs are managed by local workforce development boards and have a local scale that results in a limited scope to support the development needs of Puerto Rican workers at all stages of their working life cycles. Moreover, the Government has not conducted the analyses or outreach necessary to target the Island's most-pressing talent gaps with a forward-looking view aligned with major labor force trends, like digitization and automation. Inadequate preparation and training have left many local residents without a real opportunity to succeed in the formal labor force and that situation will quickly scale in the years to come. The COVID-19 pandemic has exacerbated these issues, meaning that empowering workers to enter or re-enter the workforce will be especially important in the following months and years.

7.4.1 *Specific initiatives and design parameters*

To strengthen workforce development programs and promote participation in the formal economy, the 2021 Fiscal Plan requires that the Government complete several initiatives by the end of FY2022:

- Centralize the administration of Workforce Innovation Opportunity Act (WIOA) funds—the primary vehicle for federal investments in workforce development—under the Department of Economic Development and Commerce (DDEC)
- Promote the signing of Memoranda of Understanding (MOUs) between local worker training boards and Government agencies to strengthen training and defray costs

- Conduct the rigorous data analyses outlined throughout this chapter to leverage workforce development funds in a data-driven manner to reduce labor market talent gaps
- Integrate the results of such analysis in a holistic strategic plan that clearly states how different workforce development efforts and funding blend in a cohesive way to improve human capital development for local residents
- Improve the existing resources allocation and spending tracking process, by making it more standard, transparent and data-driven
- Coordinate an interagency initiative to deeply analyze structural barriers to unemployment and support labor force stakeholders in their efforts to overcome them

7.4.2 Current state and path forward

Unfortunately, the Government's progress in overhauling the Island's worker training systems has been limited to the centralized oversight of WIOA funds under DDEC and some improvements in systems to track program data. Local boards, which administer WIOA-funded programming in their respective regions, continue to offer workforce programs of disparate and inconsistent quality, and many have delayed signing MOUs with Government agencies. Moreover, while DDEC updated its WIOA State Plan in March 2020 and successfully incorporated labor market analysis, further analyses are still required to better understand barriers to employment and identify and propose solutions to existing talent gaps. As such, current initiatives may not be well-attuned to the current and future needs of the Island's employers and its economy, and need to be adjusted.

To develop high-quality worker training programs that empower all residents to reach their fullest potential and enter the labor force, the Government must first implement strategic and administrative enablers throughout FY2021 and FY2022. As such, DDEC must:⁵⁸

- **Conduct analyses to understand labor market needs** by analyzing the Island's labor market to identify talent gaps and making the required diligence on the global future of work trends⁵⁹
- **Share the results of such analysis with local workforce development boards**, so they could better inform their local strategies and programs
- **Design and implement a workforce development coordination strategy** that works as the stepping stone to further collaboration among local workforce development boards and helps materialize scale benefits and knowledge sharing
- **Leverage** existing metrics to evaluate all uses of workforce development funds and its impact and provide actionable feedback to the 15 local workforce development boards
- **Coordinate an interagency effort to deeply analyze the barriers to employment** and identify potential initiatives to overcome them

In turn, these enablers will empower and potentiate the in-field implementation of human capital development programs and tools.

The 2020 Fiscal Plan included a set of initiatives that aimed to support the training, learning, and human capital accumulation needs of local residents at all stages in their working life cycles ("life

⁵⁸ U.S Department of Labor Employment and Training Administration, "Best Practices, Partnership Models, and Resources Available for Serving English Language Learners, Immigrants, Refugees, and New Americans," 2017; Center for Law and Social Policy, "WIOA: What Human Service Agencies and Advocates Need to Know," 2015

⁵⁹ In McAllen, TX, the Broader Workforce Alliance uses a data-driven approach to align workforce development programs to local employer needs. The program has served more than 7,700 individuals, placed 90% of candidates into job opportunities, and has led to a 230% increase in wages among participants. See Project QUEST's web homepage for more information

cycle initiatives”) in FY2022 and beyond. However, the implementation of such initiatives would have required the usage of CDBG-DR funding, as well as the repurposing of recurring WIOA funds. Both are federal funds allocated to Puerto Rico under a specific granting process. The recipient Government agencies have exercised their rights to define the priorities to be pursued with those funds and, as their plans have been approved by the Federal Government, are currently in the process of implementing them. While pursuing the same overarching goals, such plans are different in structure and focus to the initiatives outlined in the 2020 Fiscal Plan. Nonetheless, the Oversight Board believes that the aforementioned life-cycle initiatives would significantly benefit Puerto Rico’s labor force development if implemented, so it strongly recommends that the Government considers its importance and potential implementation in the near future. Life-cycle initiatives include:

- **Work with PRDE to reform education to enable everyone to graduate high school (see Chapter 8 and Section 15.3)**
- **Prepare high schoolers for success in college and the workforce** by designing a dual enrollment Pilot program that enables high school students to take college-level classes and earn an associate degree alongside their high school diploma, and creating a strategy to expand and leverage vocational education to address talent gaps.^{60,61}
- **Empower college students to obtain job skills and research opportunities** by designing employer guidelines and an outreach strategy to expand the number of high-quality co-ops and internships available to college students, and expanding opportunities for college students to conduct Science, Technology, Engineering and Mathematics (STEM) research.^{62,63}
- **Create training programs tailored to employer needs** by designing a strategy to create high-quality apprenticeships to address identified current and future talent gaps, and developing a customizable workforce development Pilot program that leverages partnerships

60 The University of Puerto Rico-Mayaguez (UPR-Mayaguez)’s R2DEEP program, the leading dual enrollment initiative in Puerto Rico, has served high-achieving students with an interest in engineering for several years, but space is limited to just several dozen students and tuition can exceed \$240 per credit. Several small universities, such as Columbia Central University, also enable students to complete college courses during the school year or summer breaks. In the aftermath of the 2019-20 earthquakes, PRDE also partnered with a handful of universities to offer online college courses to high schoolers from the most-affected areas. Although this initiative approximates a fully-fleshed dual enrollment initiative, the program was established as a temporary solution to education disruptions, focuses on students from affected areas, and does not offer high-achieving students associate degrees. See University of Puerto Rico-Mayaguez, “R2DEEP Requirements and Costs”; El Vocero, “Oportunidad para adelantar estudios universitarios,” 2018; and Alicea, “Educacion lanza cursos en linea en conjunto con siete universidades,” published 2020

61 A study in California, for example, concluded that students who participated in dual enrollment classes were more likely than their peers to graduate from high school, enroll in four-year colleges, and succeed in college. California’s efforts to expand access to dual enrollment programs (e.g. offering free textbooks) have widened participation (one in eight California high schoolers are dual enrolled) and boosted student achievement (90% of participants earned college credit). Once in college, the study concluded that previously dual enrolled students accumulated more college credits and were less likely to take remedial classes than their peers; see Hughes, et. al., “Broadening the Benefits of Dual Enrollment,” 2012, and EdSource, “High school students benefit from taking college courses, but access uneven in California,” published 2020

62 D’Abate, “Developmental interactions for business students: Do they make a difference?” published 2010

63 UPR’s Cooperative Engineering Education Program (referred to as “COOP”) has promoted co-ops for more than 40 years, but access to COOP is limited to UPR students and primarily geared toward engineering students (with some exceptions). Similarly, readily -available internships (as determined through a web search for “internships in Puerto Rico” in April 2020) are primarily offered by large multinational firms (e.g. biopharmaceutical companies and financial services firms) are relatively few in number, limiting opportunities to a small cohort of successful applicants. See University of Puerto Rico, “Celebran 40 aniversario del Programa Coop de Ingeniería,” 2017, and University of Puerto Rico-Rio Piedras, “Experiencia de Educacion Cooperativa (COOP)”

with local technical colleges to provide qualified employers no-cost tailored training programs.^{64,65}

- **Subsidize training programs to support lifelong learning** by designing lifelong learning Pilot program to subsidize adult residents' access to high-quality technical education courses that can address pressing talent gaps through technical reskilling or specialization.⁶⁶

DDEC is best positioned to oversee the development and implementation of these life cycle initiatives. Exercising its role as coordinator, DDEC can perform the analyses, consolidate local knowledge and expertise provided by WIOA boards, and establish the partnerships needed to produce high-quality workforce development programming.⁶⁷ Vivienda is also managing a \$90 million Workforce Training Program with CDBG-DR funds.⁶⁸ DDEC should ensure its initiatives are aligned with the proposed usage of the CDBG-DR funds to avoid duplication of efforts or redundancy.

Revamping workforce development is necessary to ensure the full economic benefits of the Human Capital and Welfare Reform. For example, the EITC and the NAP work requirements would be significantly hampered if workers are unable to be matched with job openings in the formal economy due to lack of training, skills, or other barriers to employment. In other words, lack of progress in improving workforce development would put at risk the incremental GNP growth and revenues attributed to the Human Capital and Welfare Reform by negatively impacting the effectiveness of the EITC and the NAP work requirement in promoting growth.

7.4.3 Analyses to understand labor market needs

To create impactful workforce development programs, the Government must first conduct an analysis of the Island's labor market to identify talent gaps.

The 2021 Fiscal Plan requires the Government to conduct such an analysis, including by creating an inter-agency working group. While DDEC is best positioned to be in charge of the implementation of this initiative, results and impact will benefit from the knowledge and expertise of all Puerto Rican labor-related stakeholders. Thus, DDEC must establish and coordinate a working group dedicated to this interagency effort. Given their respective roles and experience, DOF, ADSEF, DOLHR, PRDE, and Vivienda must be incorporated within such a group.

⁶⁴ A study of apprenticeships in 10 mainland states found that apprentices earned more than \$240,000 in total lifetime earnings on average than those who did not complete apprenticeships; see Reed, et. al., "An Effective Assessment and Cost-Benefit analysis of Registered Apprenticeship in 10 States," 2012. For additional findings on the positive benefits of apprentices for employers, see Lerman, et.al., "The Benefits and Challenges of Registered Apprenticeship: The Sponsors' Perspective," 2009; Lerman, "Apprenticeship in the United states: Patterns of Governance and Recent Developments," in Schlogl, ed. Situated Competence Development Through Innovative Apprenticeships, 2008. Regarding returns on investment, a study of more than 1,000 Canadian employers found that companies derived \$1.47 in benefits for every dollar invested in apprenticeship training; see Canadian Apprenticeship Forum, "It pays to hire an apprentice: Calculating the return on training and investment for skilled trades employers in Canada," published 2009

⁶⁵ In 2018, DDEC and DOLHR launched an initiative to develop construction, tourism, aerospace, agriculture, and advanced manufacturing apprenticeships. Since then, the effort has only successfully engaged a handful of employers (primarily aerospace firms) to create programs. Despite their importance, the initiative has not created any construction- or tourism-focused apprenticeships; see Action Plan Amendment Three as certified by the Oversight Board, 2020, and El Vocero, "Arranca Programa de Formacion para el Empleo del DDEC," published 2018

⁶⁶ Reskilling and specialization can be achieved through enrollment in structured career transition programs managed by local colleges and universities or through pre-approved technical education courses (including online courses); for more information, see SkillsFuture, "What is it?"

⁶⁷ WIOA funds are intended to support initiatives to train youth, adult, and dislocated workers as well as apprenticeships. Given their knowledge of local and regional needs, DDEC should also leverage the expertise of local WIOA boards, which are responsible for the administration of WIOA funds and workforce programming in their respective regions, and non-governmental workforce development organizations where appropriate

⁶⁸ Per the Action Plan, the Workforce Training Program has the objective of promoting workforce development in the construction, hospitality and tourism, healthcare, technology, and manufacturing industries

In the first stage, the working group must identify the current and potential talent needs of employers that will shape their demand for workers. In this stage, DDEC must determine current and future talent demands of employers on the Island; current skill and knowledge gaps among existing workers (informed by employers); and the availability, cost, and quality of the Island's talent supply. It should also draw on relevant benchmarks and best practices, as well as major global labor market trends to inform future talent needs.

Some aspects of this first stage are already present in the 2020 WIOA State Plan. However, DDEC must ensure the full analysis is complete and available for all relevant stakeholders in order to appropriately inform workforce development efforts.

In the second stage, the working group must discern the available resources and trends that will shape the supply of talent to meet employers' needs. As such, DDEC must identify the resources currently available to train workers to meet employer needs, new resources that workers will leverage to develop relevant skillsets, the amount of training currently offered through employers, and potential private and social sector partners that can help in training or re-skilling workers.

Enhancing opportunities for local residents depends on the working group's ability to transform its learnings and conclusions into effective workforce development tools. So in a third and final stage, the working group must issue actionable recommendations at the local and Island-wide levels, in the form of an integrated strategic plan that would outline the tactical roadmap to build a more robust offer of training programs, initiatives, and efforts.

Additionally, the creation and publication of such plan will allow the working group to have a holistic view of the current situation and more effectively plan for the usage of all workforce development funding currently available in the Island, namely the recurring WIOA funding, the resources received from CDBG-DR, and the local funds included in the this document (see *Section 12.2*).

To make certain this is accomplished, the Government must complete the following action items by their respective deadlines:

EXHIBIT 40: REQUIRED IMPLEMENTATION ACTIONS FOR HIGH-QUALITY WORKFORCE DEVELOPMENT PROGRAMS COORDINATION STRATEGY

	Action item	Owner	Deadline
To be completed in FY2021	<ul style="list-style-type: none"> Share with Oversight Board report on progress of CDBG-DR Workforce Training Program 	<ul style="list-style-type: none"> Vivienda 	<ul style="list-style-type: none"> Quarterly starting on May 30, 2021
To be completed in FY2022	<ul style="list-style-type: none"> Publish a strategic plan that states how different workforce development efforts and funding (i.e., WIOA, CDBG-DR, 21st Century Technical and Business Education fund) blend in a cohesive way to improve human capital development 	<ul style="list-style-type: none"> DDEC, DOLHR, Vivienda 	<ul style="list-style-type: none"> December 31, 2021
	<ul style="list-style-type: none"> Share strategic plan and coordination strategy with 15 local boards 	<ul style="list-style-type: none"> DDEC 	<ul style="list-style-type: none"> March 30, 2022
	<ul style="list-style-type: none"> Re-conduct labor market analyses and update strategic plan 	<ul style="list-style-type: none"> DDEC 	<ul style="list-style-type: none"> Quadrennially from December 31, 2023

7.4.4 Allocate resources in a data-driven manner

To maximize the number of workers that can benefit from redesigned workforce development programs, the Government must analyze data to confirm that workforce funds are used transparently, efficiently, and effectively. Routine and comprehensive internal data analysis will enable DDEC to provide appropriate feedback and pertinent recommendations on the uses of

workforce development funding when necessary, to boost impact improve outcomes in future years. Potential metrics to analyze include:

- Employment and worker self-sufficiency (e.g., employed participant retention rates, average duration of first employment upon program completion, wages over time)
- Program quality (e.g., participant attendance rates, employer satisfaction rates with participants' training, percentage of corporate partners who hire participants)
- Workforce attraction (e.g., percentage of unemployed workers who inquire about a program, percentage of inquiring workers who participate in a program)

Some progress has been made on this front. As detailed in the 2020 WIOA State Plan, a new Participant Record Information System (PRIS) will now include common registration and case management across WIOA programs. Puerto Rico also signed the State Wage Interchange System (SWIS) Agreement with the Department of Labor Employment and Training Administration, which incorporates all six WIOA core programs to exchange interstate quarterly wage records. Since January 1, 2020, all Queries for Wage Data for all applicable programs are processed through the SWIS Clearinghouse. Going forward, DDEC must ensure these and additional metrics are continuously analyzed and leveraged to guide workforce development strategies. DDEC must also ensure systems provide KPIs and benchmark targets and enable a centralized source of information for case management and program evaluation.

To support the efficient and transparent use of WIOA funds, DDEC must promote a common approach to spending evaluation and reporting. As such, DDEC must:

- Standardize and make transparent all monitoring processes, metrics, and targets, as well as compliance and promotional efforts results, to create more effective programs
- Ensure that regional boards sign MOUs with Government agencies to strengthen training programs while defraying programming costs, facilitating the redeployment of workforce development funds to support other high-performing initiatives
- Leverage data on performance against the aforementioned metrics to set regional boards' annual budgets based on prior-year performance to promote efficient and effective uses of workforce development funds at the local level

The Oversight Board considers that local residents would benefit from a structure of local workforce development boards grouped into larger regional entities, which would enable enhanced results driven by well-performing boards taking over underperforming peers, as well as additional benefits from economies of scale. The Oversight Board strongly recommends that DDEC and WIOA consider the system's reorganization into a less fragmented structure.

To ensure that workforce development funds are used in a data-driven manner, the Government must accomplish the following actions by their respective deadlines:

EXHIBIT 41: REQUIRED IMPLEMENTATION ACTIONS FOR DATA-DRIVEN RESOURCE ALLOCATIONS

	Action item	Owner	Deadline
To be completed in FY2022	<ul style="list-style-type: none"> ▪ Standardize and make transparent all monitoring processes, metrics, and targets, as well as compliance and promotion efforts results, to create more effective programs 	<ul style="list-style-type: none"> ▪ DDEC 	<ul style="list-style-type: none"> ▪ July 30, 2021
	<ul style="list-style-type: none"> ▪ Begin tracking performance of all workforce development initiatives relative to KPIs and provide actionable feedback to the 15 local workforce development boards in reports available online to the general public 	<ul style="list-style-type: none"> ▪ DDEC 	<ul style="list-style-type: none"> ▪ Biannually from December 1, 2021

7.4.5 Understand structural barriers to employment and support efforts to eliminate them

Another important objective the Government must pursue is to ensure that new entrants into the formal economy can retain employment. Transportation, childcare, and mental health-related issues, for example, can temporarily inhibit an otherwise willing worker from pursuing employment in the formal economy. Mainland jurisdictions have used several solutions, including job counseling, paid transitional employment, and two-generation strategies that educate parents alongside their children, to tackle many of these same barriers.⁶⁹ With 57.1% of Puerto Rican children living in poverty and years of traumatic natural disasters and health crises, the Government's efforts should initially prioritize reducing employment barriers for working parents, low-income families, and persons affected by mental illness.⁷⁰

DDEC is well positioned to help local workforce development boards and other relevant stakeholders better understand these barriers, their causes, and the size of their effects, by performing pertinent research and coordinating working groups to further study this topic.

Having a comprehensive view of these issues would allow labor-related public and social sector entities to better inform their programs' design, and could place Puerto Rico in the correct pattern to tackle structural barriers to employment and labor force participation.

To support the system's understanding of structural barriers to employment, the Government must accomplish the following actions by their respective deadlines:

EXHIBIT 42: REQUIRED IMPLEMENTATION ACTIONS FOR EMPLOYMENT BARRIER REDUCTION

	Action item	Owner	Deadline
To be completed in FY2021	<ul style="list-style-type: none"> Create a working group comprised of DOF, ADSEF, DOLHR, PRDE, Vivienda, and DDEC tasked with identifying the most significant barriers to employment on the island, such as access to transportation or childcare 	<ul style="list-style-type: none"> DDEC 	<ul style="list-style-type: none"> June 30, 2021
To be completed in FY2022	<ul style="list-style-type: none"> Publish a report with actionable items and recommendations to reduce barriers to employment 	<ul style="list-style-type: none"> Working group 	<ul style="list-style-type: none"> November 15, 2021

7.4.6 Further initiatives on human capital development to be pursued in the mid-term

Given the challenges involved in restoring long-term growth and development for Puerto Rico, the previous initiatives should be understood as a starting point. Much more needs to be done.

- In collaboration with Estudios Técnicos, Inc., the Oversight Board published a report Human Capital Development in Puerto Rico: An Overview (2020) which includes additional initiatives that the Government may adopt, including the creation of a Human Capital Committee to create a Human Capital Policy for Puerto Rico. The Committee should bring together all relevant stakeholders from the various sectors that are contributors to strengthening Puerto Rico's human capital.

⁶⁹ For example, a New York's Center for Employment Opportunities offers formerly-incarcerated persons job training, paid transitional employment, and career counseling; post-enrollment, participants are 48% likelier than non-participants to gain full-time employment and 19% less like to be re-convicted or -arrested for a felony; see Center for Employment Opportunities, "Research Results," and Bloom, et. al., "Four Strategies to Overcome Barriers to Employment: An Introduction to the Enhanced services for the Hard-to-Employ Demonstration and Evaluation Project," published 2007

⁷⁰ Rosa-Rodriguez, "State of mental health services for children in Puerto Rico: Mental health services for Puerto Rico's children are not a luxury but a necessity," published 2019

- Recent research assigns a central role in human capital improvement to additional factors such as health and skills accumulated outside of the schooling system. The population of Puerto Rico must have access to healthcare services in order to boost productivity in the long term. For example, Puerto Rico faces high rates of chronic health conditions. Human capital initiatives going forward should incorporate these factors. An effective system of statistics and information is needed to support human capital improvement initiatives.
- Puerto Rico's statistical system needs to be refurbished in order to provide information that is useful for research and policy making. As part of this effort, the 2021 Fiscal Plan recommends reincorporating Puerto Rico in the PISA tests and other international metrics, which would help to know where the Island stands in relation to other countries or states' proficiency in basic educational abilities and track its progress towards meeting goals.

With the objective of boosting formal labor participation, DDEC and the Department of Labor and Human Resources should explore creating a program of incubators for the formalization of existing informal businesses, as has been suggested by a study published by the National Bureau of Economic Research on the case of Puerto Rico. This study also suggested that work activities common to the informal labor market such as construction and reparation work could be organized through cooperatives of community workers or through community organizations.⁷¹

Puerto Rico's competitive advantage when competing with similar localities will depend, possibly more than on anything else, on the quality of its human capital. The necessary reforms to improve knowledge and skills, and to reduce barriers to employment, will spur more investment from within and abroad, and will help workers find meaningful and well-paid jobs that will in turn contribute to a faster economic growth in the Island.

Chapter 8. K-12 education reform

A high-quality education is the cornerstone for creating economic opportunities for the residents of Puerto Rico—especially after years of devastating natural disasters and the unprecedented impacts of the COVID-19 crisis. The entire system of education has been disrupted, and the Department of Education (PRDE) – along with many education systems across the U.S. – was not prepared to adapt quickly enough. These challenges were exacerbated in Puerto Rico given the destabilizing impact of recent natural disasters as well as high leadership turnover resulting from the election year. Despite these obstacles, PRDE has attempted to implement the 2020 Fiscal Plan initiatives, but many of these initiatives saw limited progress in part due to COVID-19 pandemic.

Comprehensive K-12 education reforms will help address the academic and social-emotional impacts of the last year while simultaneously empowering every Puerto Rican to develop the skillsets needed to achieve economic self-sufficiency and join the formal workforce. Together with *Section 15.3* of the 2021 Fiscal Plan, which outlines the necessary management improvements and operational efficiencies that the Department of Education (PRDE) must pursue, this chapter provides a transformation roadmap that will transform K-12 student outcomes on the Island. Indeed, studies show that mainland workers that attain fluency in both English and Spanish earn \$2,800 more per year than their monolingual peers, while Puerto Rican workers (ages 65 or below) with a high school diploma earn three times as much as residents who lack one.⁷² Improvements in education will bring prosperity and growth to individuals and the Island as a whole.

⁷¹ Enchautegui, M., & Freeman, R. B. (2005). Why don't more Puerto Rican men work? The rich uncle (Sam) hypothesis (No. w11751). National Bureau of Economic Research.

⁷² Ruggles, et. al., IPUMS USA: Version 9.0 [Puerto Rico Community Survey], 2015; \$17,348 vs \$5,731

Even before the COVID-19 pandemic, PRDE was struggling to provide a high-quality educational experience meeting the developmental needs of all children, preparing them for success in higher education or the workforce. Puerto Rico ranked 67th out of 73 education systems in average scores of 15-year-old students on the Program for International Student Assessment (PISA) mathematics literacy scale in 2015, with an average score of only 378 compared to the overall average of 490 (see *Exhibit 43*).⁷³ The Island performed slightly better in reading (59th) and science (65th) literacies but was still well below the average in both subjects (83 and 90 points below, respectively). Moreover, school underperformance persists on the Island, with just 45% of students proficient in Spanish, 39% of students proficient in English, and 30% of students proficient in mathematics in 2019. There are particularly sharp drops in English proficiency between the third and fourth grades, and similarly sharp drops in mathematics and Spanish proficiency between the fifth and sixth grades.⁷⁴ Thirty-three percent of current third graders are at-risk of not graduating high school, and PRDE has delayed the introduction of evidence-based practices that are important to properly serving Special Education students (who comprise a greater share of the student population—32%— than in any other U.S. jurisdiction).^{75,76}

EXHIBIT 43: AVERAGE MATH LITERACY SCORES, ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT (OECD)'S PROGRAM FOR INTERNATIONAL STUDENT ASSESSMENT (PISA), 2015

Average math literacy scores, OECD's PISA 2015



1 OECD Program for International Student Assessment (PISA) test scores, 2015

The COVID-19 pandemic is likely to worsen student outcomes given research showing a disproportionately negative impact on low-income (~80% of PRDE student population in 2021)

73 OECD Program for International Student Assessment (PISA) test scores, published 2015

74 English: 55.4% in third grade to 39.0% in fourth; Spanish: 62.3% in third to 48.6% in fourth; mathematics: 45.3% in fifth to 11.5% in sixth; see Puerto Rico Department of Education, "Resultados META-PR 2018-2019," published 2019

75 This calculation is based on recent PRDE performance data and accounts for the fact that students who do not read at grade level by third grade are four times likelier to not graduate high school; see Puerto Rico Department of Education, "Reporte de Desercion Escolar 2018-19," 2019 and Hernandez, "Double Jeopardy: How Third-Grade Reading Skills and Poverty Influence High School Graduation," published 2012

76 An average of 13% of students are characterized as special education students on the mainland; see Puerto Rico Department of Education, "Matricula Activa," 2020; U.S. Department of Education, National Center for Education Statistics, published 2017

and Special Education students.^{77,78} Furthermore, surveys of K-12 students in the U.S. found that ~40% of students have been putting less effort into their work compared to before the pandemic, and ~80% of students indicate that feeling depressed, stressed, or anxious makes it hard to do their best in school.⁷⁹ Between 2017 and 2020, students in Puerto Rico were estimated to have missed up to ~160 school days.⁸⁰ To most effectively serve students and address learning gaps, the Governor of Puerto Rico and PRDE decided to begin reopening schools in line with national recommendations. As of April 2021, the Department had welcomed back students in kindergarten through third grade, and twelfth grade, as well as Special Education students at ~120 schools. To continue to safely re-open schools in fall 2021, PRDE needs clear, robust plans, including contingency plans that would allow for a speedy transition to a remote or hybrid environment as needed.

Although natural disasters and the COVID-19 pandemic have wrought substantial destruction and turmoil, relief funds offer PRDE an unprecedented opportunity to reshape Puerto Rico's public schools for the better. In the 2020 Fiscal Plan, the Oversight Board allocated \$124 million in Commonwealth funds to purchase tablets, software, and training services necessary to support distance learning for all PRDE students and teachers as part of the Emergency Measures Support Package in response to the COVID-19 emergency. Additionally, as discussed in *Section 15.3*, PRDE has been allocated a significant amount (~\$4.6 billion) of one-time Elementary and Secondary School Emergency Relief (ESSER) funding through the CARES, CRRSA, and ARP Acts, which can be used to support recovery and response efforts related to the COVID-19 pandemic. The Oversight Board is analyzing the formal guidance released by the U.S. Department of Education on how to calculate the Maintenance of Effort (MOE) requirements associated with this fund, and will determine what, if any, implications the MOE requirements have on the Commonwealth, UPR, and PRDE funding provided in the 2021 Fiscal Plan and FY2022 Commonwealth Budget. Furthermore, PRDE has hundreds of millions of federal carryover funds from prior year grant allocations and received an additional \$2.3 billion in FEMA funding that can be used to improve school building infrastructure damaged by Hurricane María.

This fiscal situation brings meaningful opportunity for students in Puerto Rico, but also significant management and logistical complexity. As such, PRDE must create a multi-year financial plan – as outlined in detail in *Section 15.3* – to strategically allocate those funds in high impact, evidence-based, and equitable ways aligned to its strategic goals. Devising an effective financial plan starts with assessing student learning deficits in order to pinpoint the most acute needs and invest in impactful interventions through a learning acceleration plan. As the Department works to align financial resources to its strategic priorities, it also needs the right people with the right qualifications to carry out these priorities. To this end, PRDE must address the capacity constraints exacerbated by the increasing demands of the COVID-19 pandemic and PRDE leadership turnover from the election. Magnifying these challenges, outdated systems, inefficient processes, and poor data management often impede the ability of staff at all levels to carry out their normal daily functions, never mind respond to disruptions strategically or with agility.

The effects of the events of the last year have reverberated across the Island and the whole of the Department of Education – putting PRDE in a constantly reactive position. To afford all local residents an equal opportunity to develop the knowledge and skillsets needed to contribute to the Puerto Rican economy and to address the urgent needs of students resulting from the COVID-19 pandemic, PRDE must continue implementing education structural reforms in FY2022. As described in its State Plan, PRDE aimed to achieve 73% student proficiency in mathematics, 77% proficiency in English, and 80% proficiency in Spanish across all grade levels by the 2021-22 school year, but the Department remains far from these goals.

⁷⁷ Puerto Rico Department of Education, "Matricula Activa," 2021

⁷⁸ NWEA, "Learning during COVID-19: Initial findings on students' reading and math achievement and growth", November 2020

⁷⁹ The Evidence Project at CRPE, "The kids are (really) not alright: A synthesis of COVID-19 student surveys", March 2021

⁸⁰ Bellwether Education Partners, *Puerto Rican students during the COVID-19 pandemic: Data update, March 2021*

Nonetheless, the future of Puerto Rico relies on PRDE delivering this level of improvement. To achieve these targets—and ensure that PRDE makes a concerted effort to offer the children of Puerto Rico the high-quality education that they deserve—comprehensive reforms must begin immediately, particularly in areas such as English Language Learning (ELL), K-5 literacy, and STEM instruction.

To maximize the likelihood of success, education reforms should build on the improvement areas PRDE identified in 2017: increased student achievement (as measured by META-PR scores and graduation rates), stronger professional development for directors and teachers, and additional effort to support the developmental needs of the whole child.⁸¹ As such, the Government's overhaul must:

- 1. Implement PRDE's 2022-27 strategic plan to guide reforms**
- 2. Launch evidence-based curriculum reforms**
- 3. Create a post-COVID-19 back-to-school plan and learning acceleration strategy**
- 4. Improve professional development opportunities for all staff**
- 5. Make targeted investments to boost family engagement**
- 6. Systematically collect, manage, and leverage data for better decision-making**

These reforms must collectively aim to strengthen system-wide accountability among educators and administrators; facilitate data-driven leadership at the central, regional, and school level; and increase PRDE's responsiveness to the needs of the whole child and the broader community on the Island. Moreover, the Oversight Board welcomes PRDE, its non-Government partners, and other Government agencies to design and propose further innovative reforms to strengthen PRDE schools and mitigate the ongoing challenges of the COVID-19 pandemic and its residual impacts.

8.1 Implement a strategic plan to guide reforms

Successful education reforms require a strategic and operational foundation to succeed. Before PRDE can transform the Island's schools, it should understand how student needs (e.g., academics challenges, curricular resources, social-emotional support) vary across schools, especially in light of the impacts of the COVID-19 pandemic, and centralize its strategic efforts to ensure consistent implementation.

8.1.1 Specific initiatives and design parameters

The 2021 Fiscal Plan requires that PRDE execute the following actions to establish a foundation for education reforms:

- **Create a Chief Operating Officer function**
- **Implement the 2022-2027 strategic plan** to achieve defined KPIs, improvement targets, and milestones; codify an operational model that clearly delineates central, regional, and local administrators' responsibilities around the implementation of education reforms; and realize strategies for central, regional, and local administrators to implement differentiated interventions based on individual needs of students.⁸²

⁸¹ The fourth improvement area—right-sizing schools to optimize resources, improve responsiveness, and strengthen regional and local management—is addressed in *Section 15.3.2*

⁸³ Unlike traditional learning environments (which evaluate learning at a unit's end), PBL emphasizes ongoing learning and evidence-based argumentation. Studies spanning more than 40 years have linked PBL to stronger long-term information retention, skill development, and student and teacher satisfaction than traditional educational approaches; see Strobelt, et. al., "When is PBL more effective? A meta-synthesis of meta-analyses comparing PBL to conventional classrooms," published 2009

8.1.2 Current state and path forward

In April 2021, PRDE defined improvement goals and strategies while developing its 2022-27 strategic plan. However, PRDE must also still create a Chief Operating Officer (COO) function to lead PRDE operations and oversee the day-to-day implementation of reforms. To complement these efforts, the Department must also strengthen financial management capabilities within the existing CFO's office and create a roadmap to guide spending at all levels, as outlined in *Section 15.3*.

To establish the strong foundation required to implement education reforms, PRDE's Central Office must accomplish the following actions by their respective deadlines. Implementation of the PRDE efficiency measures stipulated in *Section 15.3*, which will promote the more effective management and use of Departmental resources, will further strengthen education reform efforts' likelihood of success.

EXHIBIT 44: REQUIRED IMPLEMENTATION ACTIONS TO ESTABLISH ENABLERS FOR EDUCATION REFORM

	Action item	Owner	Deadline
To be completed in FY2021	•Launch search for a COO	•PRDE	•July 1, 2020
	•Segment all PRDE schools	•PRDE	•Start of 2020-2021 school year
	•Define KPIs, targets, and milestones for each achievement tier to evaluate the impact of education reforms and share them with the Oversight Board	•PRDE	•September 30, 2020
	•Discuss KPIs, targets, and milestones with the Oversight Board	•PRDE	•October 15, 2020
	•Discuss progress made in the development of a preliminary 2022-27 strategic plan with the Oversight Board (check-in #1)	•PRDE	•November 30, 2020
	•Identify a COO	•PRDE	•December 15, 2020
	•Discuss progress made in the development of a preliminary 2022-27 strategic plan with the Oversight Board (check-in #2)	•PRDE	•January 15, 2021
	•Share a preliminary 2022-27 strategic plan with (1) professional development, (2) curricular and distance learning, (3) family engagement, (4) data-driven, and (5) other viable reforms for each achievement tier with the Oversight Board (check-in #3)	•PRDE	•February 15, 2021
	•Discuss preliminary strategic plan draft and projected costs with Oversight Board	•PRDE	•February 28, 2021
	•Finalize strategic plan and share with Oversight Board	•PRDE	•March 31, 2021
To be completed in FY2022 and beyond	•Discuss finalized strategic plan and projected costs with Oversight Board	•PRDE	•April 15, 2021
	•Implement 2022-27 strategic plan	•PRDE	•July 1, 2021
	•Publish annual reform implementation progress report	•PRDE	•Annually from June 30, 2022
	•Discuss annual implementation progress report with Oversight Board	•PRDE	•Annually from August 15, 2022

1 In particular, PRDE should focus on (1) strengthening budget oversight and forecasting capabilities, (2) integrating ERP and HRIS systems to improve financial and personnel management capabilities, (3) professionalizing its procurement office to reduce fraud and waste and improve category purchasing strategies, (4) identifying top-10 contracts to analyze to identify and renegotiate to attain cost savings, and (5) strengthening overall financial controls to maximize operational efficiencies.

8.2 Launch evidence-based curriculum reforms

PRDE must overhaul its curriculum and leverage supplemental learning opportunities, especially digital aids, to achieve significant increases in student proficiency. PRDE's curriculum is in need of end-to-end standardization around evidence-based best practices while also preserving the flexibility for educators to meet the diverse learning needs of all students and address requirements within Special Education students' IEPs. Additionally, PRDE's curriculum must integrate digital aids that facilitate the high-quality education of Puerto Rico's children and guard against schooling disruptions. Finally, to best meet

the needs of PRDE students, the new curriculum and materials should incorporate leading practices in social-emotional learning.

8.2.1 Specific initiatives and design parameters

The 2021 Fiscal Plan requires that PRDE execute the following actions to strengthen its curriculum:

- **Assess the impact of current curricular spend on student performance** to direct resources to evidence-based curriculum and instructional strategies to benefit the greatest number of General and Special Education students, while still providing all additional support required by Special Education students' Individualized Education Plans (IEPs). PRDE should design a new curriculum to address the areas of most-significant academic and developmental (i.e., social-emotional) need across the PRDE system.
- **Implement innovative learning strategies** to empower students through curricular innovations such as project-based learning (PBL). These approaches aim to build foundational problem-solving skills (e.g., synthesis, analysis) through a "real world" application conducive to long-term information retention, and empower all educators—through the use of formative assessments (e.g., checks for understanding, weekly quizzes, student-teacher feedback sessions)—to boost student achievement, quality of work, information retention, and attendance.^{83,84} Such strategies should also embed social-emotional skill building within the school day.
- **Bolster learning strategies with proven digital aids** to equip educators with learning resources (e.g., lessons, assessments) and other curricular materials tailored to each student's developmental needs, to boost student performance and instruction.^{85,86} Digital resources also allow for more curricular choice, differentiation in learning style, and remediation/extension opportunities at lower cost and larger scale.

8.2.2 Current state and path forward

PRDE's current curriculum does not adequately support the needs of all General and Special Education students, and many teachers lack the pedagogical strategies needed to maximize student outcomes with current curricular resources. The Department also lacks a sense for how its curricular spend translates into student impact, preventing PRDE from reallocating resources to maximize performance. Likewise, PRDE has not yet implemented innovative teaching strategies—such as project-based learning—across all schools, further inhibiting student performance.

Federal and Commonwealth funding has eliminated major barriers to digital education within and outside of PRDE schools. Furthermore, all schools have wired internet access and will have

⁸³ Unlike traditional learning environments (which evaluate learning at a unit's end), PBL emphasizes ongoing learning and evidence-based argumentation. Studies spanning more than 40 years have linked PBL to stronger long-term information retention, skill development, and student and teacher satisfaction than traditional educational approaches; see Strobel, et. al., "When is PBL more effective? A meta-synthesis of meta-analyses comparing PBL to conventional classrooms," published 2009

⁸⁴ Formative assessments have been linked to gains in student achievement, with especially strong results among previously underperforming learners, as well as higher quality student work, better student attendance, and increased retention. See Bakula, "The Benefits of Formative Assessments for Teaching and Learning," 2010, and Hanover Research, "The Impact of Formative Assessment and Learning Intentions on Student Achievement," published 2014

⁸⁵ Miami-Dade County Public Schools (FL) piloted Voxy, an English-learning software with adaptive learning capabilities, to strengthen ESL instruction. Students with one semester of exposure to the program improved an average of 15% on the Language Proficiency Assessment, while their non-Voxy peers only averaged a 3.5% improvement

⁸⁶ For example, in Uruguay, a nationwide initiative used laptops that had previously been distributed to elementary schoolers to improve ELL instruction, driving meaningful improvements in participants' reading and writing scores

wireless internet by the end of 2021, but PRDE has not yet identified beneficial digital aids (e.g., supplemental digital resources) to enhance student performance inside schools.⁸⁷

While the Oversight Board encourages the Department to select interventions that align most closely with its 2022-27 strategic plan, PRDE must accomplish the action items outlined in *Exhibit 45* by their respective deadlines.

EXHIBIT 45: REQUIRED IMPLEMENTATION ACTIONS TO STRENGTHEN CURRICULUM

	Action item	Owner	Deadline
To be completed in FY2021	<ul style="list-style-type: none"> PRDE to launch a school competition for education innovation and create an application process for school leaders that have ideas to positively impact student achievement through innovative programs or practices 	PRDE	December 2020
	<ul style="list-style-type: none"> Design curricular reform to complement distance learning strategy and leverage (1) student performance assessments, (2) innovative learning strategies, and (3) proven digital aids, and (4) other viable interventions to strengthen PRDE's curriculum at each achievement tier as part of the preliminary strategic plan 	PRDE	February 15, 2021
	<ul style="list-style-type: none"> Finalize updates to curricular reforms as part of the updated strategic plan 	PRDE	March 15, 2021
To be completed in FY2022	<ul style="list-style-type: none"> Update curricular reform section within annual reform implementation progress report 	PRDE	Annually from July 31, 2022

8.3 Create a post-COVID-19 back-to-school plan and stand up distance learning capabilities

While implementing evidence-based reforms is an important near-term goal, the most immediate priority for PRDE must be to continue to refine plans for students in the 2021-2022 school year in response to the impact of the COVID-19 pandemic. This planning process must include a comprehensive learning acceleration strategy, including ample social-emotional support; a distance/ hybrid learning strategy; and a path to reopen as many schools as safely as possible, which is a requirement for PRDE to receive the ESSER funds allocated to Puerto Rico under the ARP Act. It is critical for PRDE to begin this work immediately so that the strategy can be implemented in advance of the new school year, though such innovations will also support instruction in future years.

8.3.1 Specific initiatives and design parameters

- **Back-to-school planning** must combine public health guidance, PRDE management expertise, stakeholder input, and research on national and international learning acceleration approaches in order to develop the right plan for Puerto Rico. Nearly every school system in the world is currently navigating this exact challenge, and Puerto Rico can learn from the successes and failures of others. In addition to creating the right plan, PRDE will also have to effectively implement it. The impact of the COVID-19 pandemic on top of the 2017 hurricanes and 2020 earthquakes will require new safety measures on top of accelerated learning strategies and greater support for students and educators.
- **Social-emotional support** will help ensure students have the mental and emotional capacity to focus on their studies. Several months into the COVID-19 pandemic, half of U.S. K-12 students indicated a lack of focus on their learning, and 59% stated an inability to

⁸⁷ Wireless initiatives have been funded through a combination of federal E-Rate and RESTART funds. The Federal Communications Commission's E-Rate program offers eligible schools and libraries discounted telecommunications products and services, including internet connections, on the basis of local poverty levels; see Federal Communications Commission, "E-Rate: Universal Service Program for Schools and Libraries," published 2020

motivate themselves to do schoolwork in a virtual setting.⁸⁸ PRDE must address this gap by investing in high-quality social-emotional support, especially given that 46% of K-12 students cite depression, stress, and/or anxiety as an obstacle to learning due to the crisis.⁸⁹ These challenges are unlikely to disappear upon return to in-person classes due to the combined effects of a public health crisis, social isolation, and economic issues for many families. Previous research has shown that in addition to improving core social competencies, high-quality social-emotional learning (SEL) programming can improve students' academic performance by 11%.⁹⁰

- **Innovative, proven educational interventions to accelerate learning** will target students' highest academic needs. These intervention strategies will be most effective if PRDE leverages data to differentiate support. PRDE can learn from the practices of schools such as New York City Department of Education's transfer schools, English Language Learners and International Support (ELLIS) Preparatory Academy (New York), and Rocketship Public Schools (Bay Area, Milwaukee, Nashville, and Washington D.C.), which have effectively supported students who are behind their grade level before and after the COVID-19 pandemic. Several strategies common to these schools include extensive academic and social-emotional diagnostic assessments, cross-content collaboration, flexible scheduling, peer support and collaboration, and deep community partnerships.⁹¹
- **Actively monitoring student attendance** is a basic, yet critical function of the education system; however, it is an area in which PRDE has struggled. Data from January 2021 indicates that only about one-third of teachers had entered attendance data for 95% or more of their class periods in PRDE's Student Information System by the end of the month.⁹² According to PRDE's own student retention policy, teachers are responsible for tracking student attendance habits to identify and flag chronic absenteeism, an end goal, which is nearly impossible without accurate and timely data. During this past school year, PRDE began addressing this recurring issue by providing updated guidance on attendance-taking in a remote environment to teachers and implementing attendance-taking reports for school directors. The Department can further promote accountability of student attendance-taking through system updates that encourage timely data entry. PRDE must actively monitor student attendance to ensure the health and safety of students and provide interventions for students at risk of truancy.
- **Teacher absenteeism** is another historical issue that PRDE has confronted. Students need reliable interaction with a consistent adult resource to support their learning and development. In FY2021, PRDE took steps to improve its ability to track teacher attendance and respond to chronic absenteeism by integrating the Kronos time management system with payroll and HR systems. This change will also have significant financial benefits for the Department, as an Oversight Board analysis found that PRDE made at least \$80 million in payments over 13 years to employees who had resigned, retired, died, or were otherwise not working. In March 2021, the Department finalized its Time & Attendance effort (referenced in *Chapter 13* above) and implemented the first round of payroll deductions for teachers based on missed class time, per the updated public policy. While the implementation of the Kronos system and payroll deductions are expected to reduce teacher absenteeism, school directors should actively monitor this metric to address chronically absent staff. School directors should ensure that Kronos systems are installed, online, and functioning and continue to foster a culture of accountability.
- **Distance learning strategies** continue to be a critical element of back-to-school and learning acceleration planning, especially given the amount of out-of-school time children in Puerto Rico have experienced over the past several years. Distance learning should be

⁸⁸ Youth Truth, Learning and Well-Being During COVID-19 Survey: *Part I*, July 2020

⁸⁹ Youth Truth, Learning and Well-Being During COVID-19 Survey: *Part II*, December 2020

⁹⁰ Edutopia, Social and Emotional Learning Research Review, November 2012

⁹¹ NYSED; Bridges SIFE Manual; ELLIS Prep Academy SCEP

⁹² Gobierno de Puerto Rico Departamento de Educación, "Informe de la toma de asistencia", January 2021

accessible on a moment's notice as it could potentially be the default delivery model for some students in the fall of 2021, particularly those students in the southern part of the Island where school buildings have not been rebuilt. PRDE's distance learning plan should include strategies to enable instructional delivery (e.g., adaptive curriculum), support vulnerable populations, professional development mechanisms for teachers, and technology deployment. In FY2021, PRDE started to build out its distance learning capabilities with recurring trainings on new technology tools occurring throughout the school year for staff, parents, and students. Although PRDE has procured thousands of devices for students and teachers and provided programming to offer \$40 vouchers for internet service through May 2021, the deployment of these resources alone does not constitute a learning strategy. PRDE must also follow through with commitments to developing a Learning Management System and a more digitally focused curriculum as described in the Curriculum Reform section of this chapter. PRDE should seek to leverage strategies that have proven successful, focusing on delivering high-quality instruction with appropriate professional supports for teachers.

8.3.2 Current state and path forward

Even without knowing the full effects of the disruption of the last year, PRDE has started to address the increased support that children so desperately need during this turbulent time, including launching a tutoring program in partnership with the University of Puerto Rico (UPR) to provide extra support in Math, English, and Spanish. PRDE also hired school nurses in every school and psychologists in ~72% of schools to provide physical, emotional, and mental health resources. While these steps are a start to installing critical support structures and programs, PRDE will need scaled strategies that impact all schools to most effectively accelerate learning and care for the social-emotional well-being of all students.

While PRDE should plan for all possible back-to-school situations, the successful reopening of ~120 schools in March 2021 can help inform a strategy for a fully in-person return in the fall. Reopening schools is contingent upon PRDE taking all necessary measures to protect the health and safety of students and staff by reviewing and updating existing safety protocols to protect the community.

Funding for initiatives to address the impacts of the COVID-19 pandemic should come from the various funding sources previously mentioned in this chapter; for example, these efforts are an allowable expense under federal funding from the American Rescue Plan (ARP) Act. *Exhibit 46* describes some of the key implementation actions that are critical to this initiative.

EXHIBIT 46: BACK-TO-SCHOOL AND DISTANCE LEARNING IMPLEMENTATION ACTIONS

Action item	Owner	Deadline
• Develop plans and protocols to deliver remote instruction, and support parents and teachers June 2020 through remainder of 2019-20 school year	• PRDE	• June 2020
• Assess which portions of the curriculum will be areas of focus during remote learning period, balancing accessibility and equity	• PRDE	• June 2020
• Rapidly provide Professional Development and platform for digital community/connection as educators seek to exchange ideas and best practices for remote instruction	• PRDE	• June 2020
• Assess summer scenarios by exploring options to provide ongoing learning opportunities and/or programming for students during summer months	• PRDE	• June 2020
• Identify gaps in IT systems and infrastructure to enable seamless online learning and teaching June 2020 experience	• PRDE	• June 2020
• Define criteria for selection of technology vendors, including long-term viability, scalability of platform, and data security among others	• PRDE	• June 2020
• Distribute devices and support students' and educators' hardware and connectivity needs as July/August they transition to remote learning 2020	• PRDE	• July/ August 2020
• Coordinate with Academics team and educators to reflect on best practices in remote learning environments, and streamline technology to support better integration of education delivery and instructional strategies	• PRDE	• July/ August 2020
• Evaluate effectiveness of technology tools and platforms, and improve processes underpinning remote operations (e.g., systems to connect administration and learning, devices and training)	• PRDE	• July/ August 2020
• Develop more comprehensive asset management strategy, including asset inventory reviews, to support remote learning	• PRDE	• July/ August 2020
• Reflect on what worked this spring, challenges, and emerging best practices to develop a plan August 2020 to strength instructional delivery (regardless of setting)	• PRDE	• August 2020
• Provide new professional development for educators that reflects the now-different demands of their jobs, and the likely need for flexible instructional tactics going forward	• PRDE	• August 2020
• Engage in scenario planning for fall instruction (various delivery channels, adjusted curriculum), and plan for altered curriculum and schedules for fall	• PRDE	• August 2020
• Develop plan to assess impact of COVID-related school closures on student learning and progress	• PRDE	• August 2020
• Assess impact of remote learning and remediate lost learning time by doubling down on English, Spanish, Science and math	• PRDE	• December 2020
• Offer additional mental health services and social-emotional supports for students, who will have had a wide variety of at-home experiences over the last 6 months	• PRDE	• December 2020
• Create specific plans, pathways, and supports for students in key transition grades to ensure that they have the supports necessary to be successful without having completed the prior grade in-person	• PRDE	• December 2020
• Provide educators with ongoing support and professional practice opportunities to improve regardless of delivery channel	• PRDE	• December 2020
• Assess security, bandwidth and resiliency of current IT infrastructure and invest to shore up gaps identified	• PRDE	• December 2020
• Review and alter cybersecurity processes and protocols to reflect changes in technology infrastructure and use	• PRDE	• December 2020
• Invest in online learning infrastructure to ensure resiliency of remote learning environment	• PRDE	• December 2020
• Identify opportunities improve efficiency and security of technology portfolio, infrastructure, and operating model	• PRDE	• December 2020
• Design and implement a comprehensive SEL strategy that mentally prepares students to engage in learning and strengthens the student/teacher relationship (e.g., student advisory programs, community engagement forums); include feedback loops to assess program impact on student mental health / social-emotional development	• PRDE	• July/ August 2021
• Quantify learning gaps through diagnostic assessments and identify highest need academic areas and student populations	• PRDE	• August 2021
• Prepare and implement an action plan to address identified learning gaps through research-backed interventions (e.g. high frequency tutoring, targeted remediation sessions)	• PRDE	• August 2021
• Reach a student time reporting threshold of at least 95% (as measured by % of all teachers recording student attendance within the SIE system at the end of a school day) with proof of physically marking students present over the course of the semester	• PRDE	• October 31, 2021
• Reach a teacher time reporting threshold of at least 95% teacher attendance across all schools as measured by punching in via the Kronos system (In-person or remote)	• PRDE	• May 1, 2022

8.4 Improve professional development opportunities for directors and teachers

PRDE must strengthen longer-term professional development for teachers and directors to improve classroom instruction and school management. Well-trained teachers are better

equipped to develop strong lesson plans, understand their curricula, and support their students.⁹³ Similarly, well-trained school directors are better equipped to improve school operations, implement reforms, and oversee the development of teachers when they receive robust training on how to do so.

In addition to the importance of developing academic staff, a significant factor driving PRDE's underperformance is a lack of capacity within the system to execute complex strategies in a challenging educational environment. Many senior members within the Department do not have extensive educational backgrounds, and there is high turnover at the leadership level—a problem magnified during gubernatorial transitions. Additionally, PRDE's Human Resources office lacks a clear talent management function to support the recruitment, development, and retention of effective employees across the organization. To best leverage and build upon the talent in the system, PRDE should strive to provide opportunities for continuous learning through professional development programs, particularly by leveraging the training partnership with the University of Puerto Rico (UPR). These programs should be differentiated based on the level and function of the staff member to best support skills most relevant to his or her role. Instituting these changes will result in well-trained staff who understand how to improve the system.

8.4.1 Specific initiatives and design parameters

The 2021 Fiscal Plan requires that PRDE adhere to a set of parameters when implementing this reform. Specifically, PRDE must:

- **Invest in school director development** to tap into a key lever for improving student outcomes. A recent study from the Wallace Foundation found that replacing a below-average elementary school principal (the equivalent to PRDE's school director position) with an above-average one would result in nearly 3 months of learning gains in both math and reading, which is a larger impact than two-thirds of other math interventions and about half of reading interventions.⁹⁴ On average, PRDE school directors scored lower (2.3 out of 4) than mainland U.S. principals (2.8) on the Development World Management survey, indicating room for improvement.⁹⁵ To close this gap and improve principal effectiveness, PRDE has engaged in a research-practice partnership with the University of Toronto to offer Academia de Desarrollo Profesional de la Educación para la Gestión de Liderazgo y la Profesionalización (EDUGESPRO), a professional development & management training program, to all school directors by the end of FY2022. PRDE should continue to monitor the impact of these efforts and engage in other evidence-based programs tied to school director recruitment and ongoing development.
- **Define operational and results-based criteria** that will provide the Central Office with additional input in identifying the top-performing directors and teachers across PRDE, enabling PRDE to broaden mentorship opportunities that introduce underperforming educators to best practices (e.g., by reducing top-performers' workloads to leverage them as formal mentors trained via the University of Puerto Rico-PRDE partnership and hiring job-embedded coaches to serve as full-time mentors), and offering evaluators across PRDE schools (e.g., superintendents, gerentes escolares, facilitators) a clear structure against which to provide directors and teachers performance-based feedback.
- **Formalize communities of practice across PRDE schools** to expose teachers and directors to instructional, administrative, and social-developmental best practices, and

⁹³ Investigators found that a one standard deviation increase in teacher quality in a single grade raises annual earnings by 1% on average. Moreover, researchers linked the replacement of a low (bottom 5%) value-added teacher with an average value-added teacher to a \$267,000 increase in students' average lifetime incomes per classroom taught; see Chetty, et. al, "The Long-Term Impacts of Teachers: Teacher Value-Added and Student Outcomes in Adulthood," published 2011

⁹⁴ Wallace Foundation, *How Principals Affect Students and School*, February 2021

⁹⁵ University of Toronto, *Improving and Sustaining Management Practices in Public Schools: Report Year 1*, December 2020

strengthen ELL, K-5 literacy, and STEM instruction (especially K-5 mathematics) through robust mentorship (e.g., all low-performing teachers could be assigned a high-performing mentor to help them develop their strengths and address their weaknesses).^{96,97}

- **Fully leverage the K-12 teacher training partnership between the University of Puerto Rico (UPR) and PRDE** made possible by a \$10 million annual Commonwealth payment to the university-to subsidize teacher certification and training in core subjects (e.g., English, mathematics, and science) and practices (e.g., classroom management, how to design effective assessments) to improve instructional quality, and expand the availability of teacher preparation classes that address specific areas of Departmental underperformance (e.g., coursework on how to identify, support, and find additional assistance for students with academic or behavioral challenges).
- **Capitalize on partnerships with education non-governmental organizations (NGOs)** to establish a high-quality fellowship program to train motivated and high-quality professionals on the Island to transition into careers in education and develop long-term home-grown solutions to instructional or administrative challenges (e.g., how to develop teacher evaluations that measure value-add behaviors).⁹⁸
- **Introduce universal student screenings conducted by PRDE school psychologists⁹⁹ alongside a Multi-Tiered System of Support (MTSS)¹⁰⁰ framework** to: a) ensure that every student's developmental needs are routinely identified and met to prevent children from being erroneously categorized as Special Education students; b) understand the academic, behavioral, and social-emotional needs of the whole child to pair every student with appropriate interventions (e.g., small group lessons for certain Special Education students); c) ensure that every Special Education student receives services required by their Individualized Education Plans (IEPs) in the least restrictive setting possible (e.g., reading comprehension support in a General Education classroom); and d) reduce the use of costly professional services firms to execute IEP analyses and other support services required by Special Education students (e.g., by leveraging in-house developmental staff). It is important to note that successful MTSS implementation is contingent upon high-quality data and data systems.

8.4.2 Current state and path forward

Despite the importance of professional development, PRDE currently lacks a standardized approach to delivering such programs. PRDE has proposed strengthening its STEM offerings, boosting literacy proficiency and bilingualism, and teaching more “real world” or actionable skills. To further these goals, the Oversight Board has allocated funding to several initiatives intended to improve student instruction and outcomes by supporting more robust professional development within PRDE, including the UPR-PRDE teacher training partnership and programming to train ELL instructors across the Island. The UPR-PRDE partnership is intended to offer PRDE educators robust training opportunities to help them develop capabilities and

⁹⁶ Communities of practice offer teachers and administrators a forum to meet their counterparts to discuss best practices and solve classroom challenge

⁹⁷ In California, Long Beach Unified School District has used formal CoPs to improve English language learning (ELL) test scores—a top priority for PRDE—by 9% since 2015

⁹⁸ Some partnerships are already yielding benefits; an ongoing PRDE-Puerto Rico Education Foundation (PREF) initiative has provided administrators guidance on how to manage a regional education system. As part of this effort, PREF identified of barriers to improved student outcomes in Bayamon ORE and proposed several solutions

⁹⁹ To identify students with academic or behavioral learning challenges, screenings should be brief, sensitive to change over time, and grounded in research

¹⁰⁰ The MTSS framework is a three-tiered approach to identify and meet the needs of General and Special Education students in the least-restrictive setting possible (as required by law). It stresses the use of a pedagogical approach that evaluates the academic, behavioral, and social-emotional needs of the “whole child” to place students into the appropriate tier. The first tier (80-85% of students) includes all General Education and many Special Education students and uses universal screenings to identify learning or behavioral challenges. The second tier (10-15% of students) includes Special Education students with additional academic or behavioral goals that respond to support in a targeted small group setting. The tertiary prevention tier (3-5% of students) offers students that do not respond to second tier interventions individualized support and assistance

skillsets actively sought by the Department. The initiative is made possible through a \$10 million annual appropriation from the Commonwealth to UPR. In FY2021, PRDE used \$8 million of these available funds to launch credit-bearing courses and leadership academies and allocated a maximum of \$10 million to the tutoring program for students (with ~\$1.2 million already incurred).

The Oversight Board encourages PRDE to select interventions that align most-closely with its 2022-27 strategic plan, but stresses that the Department must complete the following action items by their respective deadlines:

EXHIBIT 47: REQUIRED IMPLEMENTATION ACTIONS TO STRENGTHEN PROFESSIONAL DEVELOPMENT

	Action item	Owner	Deadline
To be completed in FY2021	•Work with the non-profit organizations to apply for discretionary Federal grant to defray expenses associated with training ELL instructors	•PRDE	•June 2020
	•Launch NGO partnership to hire and train high-quality ELL instructors	•PRDE	•September 2020
	•Design professional development reform that leverages (1) effectiveness criteria, (2) learning walks and communities of progress (3) the PRDE-UPR partnership, (4) partnerships with non-profit organization (5) internal development staff and the MTSS framework, and (6) other viable intervention	•PRDE	•February 15, 2021
	•Finalize updates to PD reforms as part of updated strategic plan	•PRDE	•March 15, 2021
	•Train all developmental support staff in how to leverage the MTSS framework to better support the needs of all students	•PRDE	•June 30, 2021
	•Finalize professional development section of annual reform implementation progress report	•PRDE	•Annually from June 30, 2021
To be completed in FY2022	•Establish and implement a strategy to leverage UPR and NGO partnerships to provide professional development for teachers and school directors that intentionally targets skills related to accelerating learning, providing social-emotional support, and improving management (e.g., professional learning communities, coaching)	•PRDE	•December 15, 2022
	•Develop a pipeline program for high-quality school directors that addresses targeted external recruitment and development opportunities for high potential internal candidates	•PRDE	•May 1, 2022

8.5 Make targeted investments to boost family engagement

Given the relationship between family engagement and student achievement, PRDE must broaden its efforts to promote robust family engagement in its students' academic lives.¹⁰¹ Parental involvement is one of five key factors that, when present, makes schools ten times likelier to drive meaningful improvements in student performance.¹⁰² Comprehensive family engagement, meanwhile, can magnify the benefits of parental involvement and has been linked to higher levels of academic performance, stronger student motivation, fewer behavioral problems, and easier social-emotional adjustment.¹⁰³ As such, PRDE should leverage non-digital and digital tools, as well proven family engagement strategies, to facilitate robust and impactful family engagement.

¹⁰¹ A family engagement partnership between District of Columbia Public Schools and local parents, for example, yielded improved student literacy scores and boosted student attendance by 24%

¹⁰² The other four factors are the (1) use of an instructional guidance system to articulate the "what" and "how" of teaching, (2) professional capacity to improve instruction, (3) the presence of a student-centered learning climate, and (4) strong leadership from principals; see Bryk, et. al., *Organizing Schools for Improvement: Lessons from Chicago*, published 2010

¹⁰³ Examples of comprehensive family engagement include setting clear academic expectations and helping children develop strong reading habits; see Castro, et. al., "Parental Involvement on Student Academic Achievement: A Meta-Analysis," 2015; Niehaus, et. al., "School Support, Parental Involvement, and Academic and Social-Emotional Outcomes for English Language Learners," published 2014

8.5.1 Specific initiatives and design parameters

The 2021 Fiscal Plan requires that PRDE adhere to a set of parameters. Specifically, PRDE must:

- **Utilize non-digital and digital engagement tools** to empower families to obtain a robust picture of their child's academic trajectory (e.g., through individualized emails, use of a student information system containing student grades and attendance data), identify opportunities to volunteer in their student's school (e.g., through a weekly newsletter), and enable parents of Special Education students to more effectively advocate for and support the needs of their child (e.g., guide to Special Education services).
- **Leverage proven family engagement strategies** to better equip parents and teachers, using strengths-based approaches and relationship-based practices, to collaborate as equal partners in a child's development and improve student outcomes (especially for Special Education students), and achievement, through two-generation partnerships, which directly intertwine the education of children with parents to improve outcomes for both (e.g., offer parents job training alongside high-quality after school for their children).^{104,105}
- **Regularly survey the families of PRDE students** to empower directors and teachers to understand how well they are supporting students' academic development, and identify opportunities to better meet the needs of the whole child (e.g., improve safety, provide additional behavioral support).

8.5.2 Current state and path forward

PRDE has taken initial steps to boost family engagement, but the Department must standardize the use of tools and strategies to maximize the impact of its family engagement efforts. In 2018, PRDE created an office of family engagement. While this office is a step in the right direction, the broader Department has yet to institutionalize the use of non-digital and digital tools to give parents a more robust sense of their child's performance. Moreover, the Department has not yet trained administrators or teachers in the use of proven family engagement strategies to foster more effective family engagement.¹⁰⁶

While the Oversight Board encourages the Department to pursue interventions that align most-closely with its 2022-27 strategic plan, PRDE must accomplish the action items outlined in *Exhibit 48* by their respective deadlines.

EXHIBIT 48: REQUIRED IMPLEMENTATION ACTIONS TO BOOST FAMILY ENGAGEMENT

	Action item	Owner	Deadline
To be completed in FY2021	•Design family engagement strategy that leverages (1) non-digital and digital tools, (2) proven engagement strategies, (3) fielding family surveys, and (4) other viable interventions to boost family engagement at each achievement tier as part of the preliminary strategic plan	•PRDE	•February 15, 2021
	•Finalize updates to family engagement as part of the updated strategic plan	•PRDE	•March 15, 2021
To be completed in FY2022 and beyond	•Distribute family survey	•PRDE	•Every six months from October 15, 2021
	•Update family engagement reform section within annual reform implementation progress report	•PRDE	•Annually from July 15, 2022

¹⁰⁴ Under a strengths-based approach, educators engage with parents as partners in a child's education, leverage parents to broaden their understanding of a student's needs, and work with families to identify opportunities to reinforce in-class lessons outside of school. Relationship-based practices promote reflection on families' personal backgrounds to shape interactions and use parents' emotions around their child's education to establish common ground between educators and households

¹⁰⁵ For example, a 2-Gen partnership in St. Clair, AL successfully graduated 100% of adult participants from a pharmacy technician program at a local college while improving student attendance at an educational after-school program

¹⁰⁶ *Noticel*, "Nace nueva oficina en el Departamento de Educación," published 2018

8.6 Systematically collect, manage, and leverage data

Regular data collection, management, and analysis will empower PRDE to make informed decisions to improve student outcomes and assess the effectiveness of its reform efforts. Evidence from mainland states suggests that data collection and analysis will enable PRDE to better direct resources toward impactful evidence-based curricular resources and instructional strategies, make targeted and timely interventions to support vulnerable student populations, and assess the impact of education reforms.¹⁰⁷ In turn, access to these datasets and analyses will empower educators, families, and third-parties to further improve student outcomes.

8.6.1 Specific initiatives and design parameters

The 2021 Fiscal Plan requires that PRDE adheres to a set of parameters to strengthen family engagement:

- **Identify which data is crucial to the optimization of funding, identification of intervention opportunities, and evaluation of reform effectiveness** in order to conduct a diagnostic of readily-trackable data within PRDE, understand which systems to connect, consolidate, or eliminate, and engage internal and external resources as needed to develop currently unavailable data-tracking capabilities.
- **Implement a data management system that allows superintendents, *gerentes escolares*, and facilitators to quickly access relevant regional, school, and student data** to evaluate student achievement (e.g., META-PR scores, grade point averages) and performance trends (e.g., attendance, truancy/ drop-outs; disciplinary referrals) in real-time. This includes digitizing Special Education students' IEP documentation to facilitate compliance with IEP requirements¹⁰⁸ and enable PRDE to effectively staff and budget Special Education and *Remedio Provisional* programming. These systems will improve resource allocation (e.g., regional support teams) to support underperforming, vulnerable, or Special Education student populations and allow PRDE to measure the impact of education reforms on student outcomes and teacher satisfaction.
- **Enable directors and other school administrators to access the data management system** to support the implementation of the evidence-based progress-monitoring required for the operationalization of the MTSS framework to support all General and Special Education students in the least restrictive manner possible, evaluate the performance of teachers and students relative to key metrics or Departmental policies (e.g., revised time and attendance guidelines), tailor teacher professional development opportunities to address the most-pressing areas of student underperformance, and optimize the allocation of school resources.
- **Publish anonymized data using the data management system on a regular basis** to facilitate school-specific performance scorecards that include student and teacher attendance, META-PR results, and graduation rates, among other data points. This data will empower educators to reshape their instructional plans (e.g., content, lesson plans, and pacing) in response to student data (e.g., META-PR scores) and allow parents to understand their child's educational trajectory and make home-based interventions when appropriate. Third parties, such as education non-profits and academic researchers will also be able to better understand and support the educational needs of Puerto Rican students.

¹⁰⁷ For example, in Texas, the state education agency uses the Student Data System (TSDS) to collect, manage, and produce individual student dashboards for educators to evaluate important information, such as college readiness trends. Similarly, in Kentucky, the Center for Education and Workforce Statistics collects statewide government data to support informed K-12 policymaking at the state, district, and school levels

¹⁰⁸ More robust initial compliance with IEP requirements could reduce costly expenses currently incurred through the use of *Remedio Provisional* as a result of untimely or inadequate support for Special Education students

8.6.2 Current state and path forward

To optimize the decision-making process, PRDE should first identify the most critical decisions it needs to make on a regular basis and develop a vision for how data and technology can provide support. However, PRDE has made very little progress in collecting or managing data to inform decision-making. To-date, the Department has focused on developing a stronger time and attendance system to track student and teacher attendance. Beyond this, PRDE has yet to train all staff on how to make data-driven decisions nor established a culture of high-quality data collection. The absence of a robust data management system populated by accurate and timely relevant data further inhibits data-driven decision-making. Improved data capabilities will allow leadership, staff, and educators to be more agile in their work, dedicating time, energy, and dollars to efforts that will have the most impact on student outcomes.

Although the Oversight Board encourages PRDE to introduce interventions that align most-closely with its 2022-27 strategic plan, the Department must accomplish the action items outlined in *Exhibit 49* by their respective deadlines.

EXHIBIT 49: REQUIRED IMPLEMENTATION ACTIONS TO FACILITATE DATA-DRIVEN DECISION MAKING

	Action item	Owner	Deadline
To be completed in FY2022 and beyond	• Central office: Update data reform section within annual implementation progress report	• PRDE	• Annually from June 30, 2021
	• Assemble data reform working group comprised of PRDE technical personnel and educators (e.g., directors, teachers, etc.)	• PRDE	• July 1, 2021
	• Working group: Define KPIs and ideal technical future state for PRDE data systems (e.g., desired data outputs to appear on student-, school-, and system-wide performance dashboards; most important data for decision-making, etc.)	• PRDE	• August 1, 2021
	• Working group: Conduct a review of PRDE's systems architecture to understand gaps between current and ideal technical future state	• PRDE	• September 15, 2021
	• Central office: Update scorecards to reflect the most recent information for school year 2020-2021 and provide reporting to the Oversight Board on agreed upon format	• PRDE	• September 15, 2021
	• Working group: Design implementation roadmap (including training on new systems and tools) and identify all relevant stakeholders needed to achieve ideal technical future state	• PRDE	• October 31, 2021
	• Technical staff: Once implementation roadmap is finalized, begin execution, including monthly progress reports to the Oversight Board	• PRDE	• December 2021 to December 2022
	• Central office: Update data reform section within annual reform implementation progress report	• PRDE	• June 30, 2022 (annually)
	• Central office: Train all staff and educators (e.g., directors, teachers) on how to use new data systems and tools	• PRDE	• July to December 2022
	• Central office: Begin sharing anonymized data with the National Center for Education Statistics	• PRDE	• Ongoing from January 2023
	• PRDE schools: Offer educators refresher courses and parents introductory sessions on how to use data systems and tools	• PRDE	• Ongoing from January 2023

Chapter 9. Ease of doing business reform

9.1 Current state of business regulation, investment promotion, and tourism attraction

The Government of Puerto Rico has been using the World Bank's *Doing Business Report*—an independent assessment and ranking of the ease of doing business in 190 economies— to

benchmark the business regulatory environment. The Doing Business indicators and methodology are designed to help countries reform their bureaucratic processes to improve the overall business climate. The World Bank did not publish its 2021 report due to irregularities found in the data in the Doing Business 2018 and Doing Business 2020 reports. Nevertheless, the data and benchmarking contained in the most recently published study continue to be excellent resources to compare Puerto Rico's doing business regulatory environment to best-in-class economies and top reformers. The report provides policymakers with an extensive knowledge base to learn from top performers and identify the regulatory and operational changes necessary to materially improve Puerto Rico's business environment.

Empirical studies have shown that, as a result of business environment reforms, countries have seen increases in firm creation, business activity, investment, and economic growth, after controlling for other relevant variables, such as overall governance and macroeconomic conditions. One study found that “on average, each business regulatory reform is associated with a 0.15% increase in growth rate of GDP.”¹⁰⁹ Another concluded that “the overall ease of doing business has a positive and significant effect on business creation.”¹¹⁰ And a study on the impact of the ease of doing business indicators on foreign direct investment (FDI) flows found that “on average across economies, a difference of 1 percentage point in regulatory quality as measured by Doing Business distance to frontier scores is associated with a difference in annual FDI inflows of \$250–500 million.”¹¹¹ In sum, there exists ample theoretical and empirical evidence that effectively designing and implementing ease of doing business reforms has a positive effect on reducing barriers to new firm entry, new business creation, investment, and economic growth.

In 2020, the World Bank report rated Puerto Rico the 65th most business-friendly economy. The Island's ranking trails the U.S. mainland's (ranked 6th in 2020) and has declined annually since 2006 when Puerto Rico was ranked 18th. Bringing the Island's business environment in line with Mexico—the top-ranked Latin American and Caribbean economy (49th in 2018)—would give Puerto Rico the edge that it needs to succeed in an increasingly competitive environment; macroeconomic projections in the Fiscal Plan rely on achieving this goal. The Island competes regionally and internationally for tourism and hospitality investments; internationally for pharmaceutical, life sciences, and medical devices, as well as knowledge services, investments; and, overall, with mainland U.S. states. Given heightened levels of competition in the global marketplace, the Island needs to urgently improve its business-friendliness through implementation of ease of doing business reforms to support economic growth.

Instituting comprehensive reforms is particularly important considering the COVID-19 pandemic. Once global economies start to recover from the aftermath of the pandemic, companies may look to shift supply chains back to the U.S. Many are evaluating their business models from the experience of having to operate remotely, and many Governments will likely quickly respond to these changing market forces by implementing rapid reforms to capture these opportunities. Therefore, Puerto Rico needs to urgently institute ease of doing business reforms to succeed in attracting new investment. Small businesses continue to face significant uncertainty as economic conditions evolve, underscoring the need to generate economic activity and attract new investments across the Island. Failure to institute reforms may enable U.S. mainland states and rapidly reforming countries to out-compete Puerto Rico for key investments. For example, the Democratic Republic of Georgia has made drastic improvements in its ease of doing business ranking, driven by robust reforms (e.g., streamlining tax compliance, simplifying administrative processes for starting a business, making contract enforcement easier). Georgia has seen its output per capita increase by 66% and its business density triple between 2006 and 2014—the same period in which the country of Georgia improved its ease of doing business ranking from 98th to 8th.

109 Haidar, J. I. (2012). The impact of business regulatory reforms on economic growth. *Journal of the Japanese and international economies*, 26(3), 285-307.

110 Canare, T. 2018. "The Effect of Ease of Doing Business on Firm Creation." *Annals of Economics and Finance*, 19(2): 555-584

111 Anderson, J., & Gonzalez, A. (2013). Does Doing Business matter for foreign direct investment? *Doing Business*.

Puerto Rico's relatively low-ranked business-friendliness in the 2020 World Bank Doing Business Survey is correlated with deficiencies in Government regulations and processes (see *Exhibit 50*), including:

- **Getting electricity:** The Island's energy supply is costly and unreliable. The cost to obtain an electric connection in Puerto Rico is equal to 318% of income per capita¹¹²
- **Dealing with construction permits:** Firms spend significant time 165 days, effort (22 procedures), and money (6.7% of project's future value) to obtain permits, on average¹¹³
- **Registering property:** Companies invest significant amounts of time (190 days) and effort (8 procedures), on average, to register property¹¹⁴
- **Paying taxes:** Firms report spending significant time (218 hours) completing filings and making payments (16 payments), on average¹¹⁵
- **Occupational licensing laws:** Excessive regulations hinder entry into the labor force. Puerto Rico licenses over 185 professions with excessive requirements and significant cost. With a labor participation rate of less than 40%, many unnecessary requirements constrain economic activity, incentivize shadow economy participation, and accelerate outmigration from Puerto Rico.
- **Freight regulations:** Expanding the use of minimum freight tariffs across previously unregulated sectors of the economy, and other burdensome regulations, inflated transportation costs and increased the complexity of doing business across the Island. While that increased minimum tariff has been stricken, the Commonwealth must look for more opportunities to reduce and eliminate excessive regulation.
- **Tourism attraction:** The Destination Marketing Organization's (DMO) efforts to transform Puerto Rico into a leading tourist destination are undermined by insufficient Government funding and the fact that key functions and responsibilities remain at the Puerto Rico Tourism Company.
- **Offshore investment attraction:** Inadequate Government resourcing and lack of progress on ease of doing business reforms have inhibited efforts to attract major investments, resulting in overreliance on tax incentives as a primary business promotion tool.

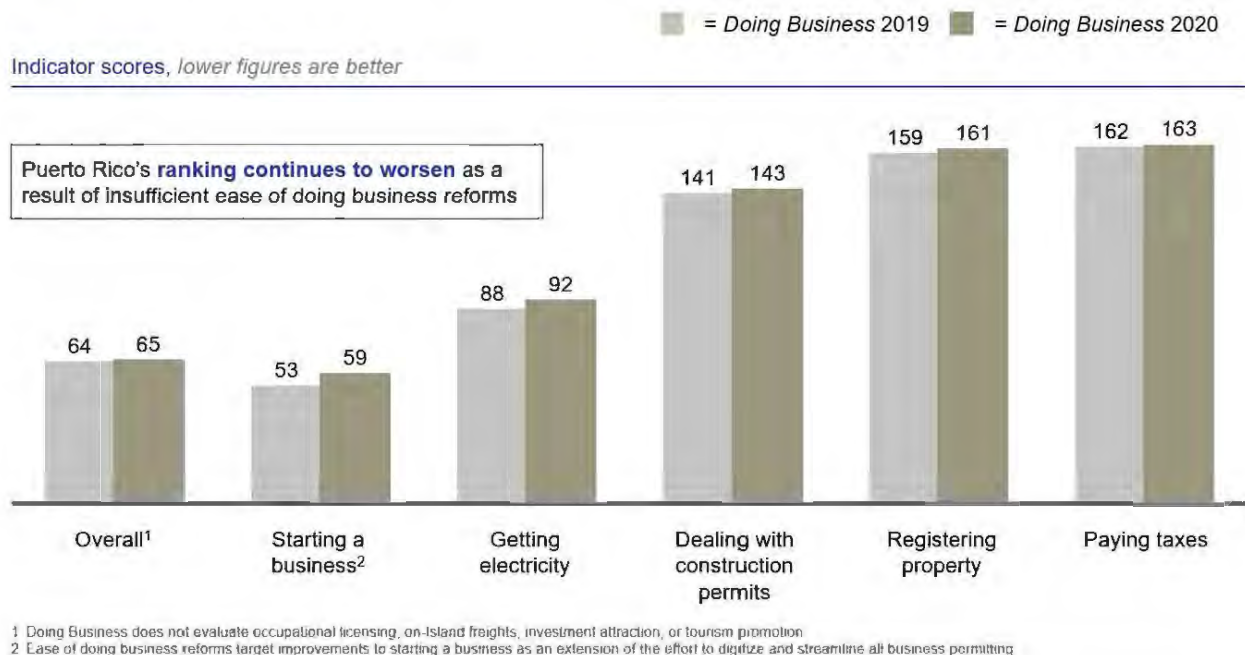
¹¹² On the mainland, this cost falls to just 22% of income per capita and businesses enjoy much more reliable energy supplies

¹¹³ For comparison, businesses invest 81 days, complete 16 procedures, and pay 0.7% of a project's future value on the mainland according to the World Bank Doing 2020 Doing Business Survey

¹¹⁴ For comparison, businesses invest 15 days and complete four procedures on the mainland.

¹¹⁵ For comparison, businesses make 11 payments and invest 175 hours on the mainland; the odds of an audit for a corporate income tax underpayment are also substantially lower on the mainland.

EXHIBIT 50: DRIVERS OF PUERTO RICO'S UNDERPERFORMANCE IN DOING BUSINESS



The Government's efforts to date implementing ease of doing business reforms have been at best insufficient to compete with other economies demonstrably and indefatigably committed to swiftly improving their business regulatory environment. In 2020, the Government started to implement ease of doing business reforms in some of its processes, but reforms have been slow and not transformative or thorough enough to warrant improvements in ranking or in investor attitudes.

Compared to the May 2019 Fiscal Plan, delayed implementation of ease of doing business reforms has in turn affected forecasted Gross National Product (GNP) growth. The positive effect of implementation progress on initiatives like permit processing and tax paying automation, equivalent to 0.10%, is still expected to be captured in FY2023, while the 0.2% impact of the rest of initiatives, to be captured over two years, has been delayed by one year, from FY2025 to FY2026. In order to accomplish this GNP growth increase, and avoid further delays, the Government should make every effort to prioritize implementing the reforms included in the 2021 Fiscal Plan and dedicate the necessary resources to achieve the implementation targets and to reach a ranking of at least 49th in the Doing Business report.

To attain the GNP uptick associated with Ease of doing business (EODB) reforms, the Government needs to focus on achieving the following in FY2022:

- **Improve the availability, cost, and reliability of electricity (see Chapter 10).**
- **Make permits more easily accessible to enable business activity and public safety** by streamlining processes and eliminating procedural inefficiencies (e.g., reallocate underutilized personnel) across permitting agencies ("lean transformations"), digitizing all procedures required to start a business into the Single Business Portal, developing the Permitting Performance Dashboard, and launching the Red Tape Commission to support operational and technical transformations.
- **Overhaul property registration to facilitate financial transactions and promote disaster-preparedness** by identifying and standardizing best practices among registrars to speed up processing, merging the current land registration system with a faster land recordation system, merging the existing land registries into one uniform parcel registry, and launching a campaign to map ownership of all unregistered properties on the Island.

- **Simplify paying taxes to spur economic activity** by designing a tax administration reform that digitizes, consolidates, and eliminates select tax filings, and conducting an operational needs assessment across Hacienda to reallocate personnel.
- **Reduce occupational licensing to facilitate labor force participation** by designing legislative reforms to reduce required licenses and excessive requirements, implementing uniform licensing requirements like those in many U.S. mainland states, and consolidating the processing of occupational licenses under one department.
- **Minimize the negative effect of inefficient on-Island freight regulations** by reverting to the interpretation of regulations concerning carriers that was in effect prior to December 23, 2020, ensure that any tariff increases on traditionally regulated segments of the economy are developed in line with best practices and Puerto Rico law with regard to regulatory processes, and minimize the financial barriers to entry in the trucking sector. The Oversight Board will continue meeting with trucking representatives, the business community, and the Government of Puerto Rico to engage in a constructive dialogue to assess their needs and the best interests of the people of Puerto Rico.
- **Strengthen offshore investment attraction efforts** by implementing a strategy to compete with mainland states and other economies for investments as firms move to shift their supply chains to the U.S. and attracting airline cargo companies through the air cargo and passenger transfer hub waiver granted by the U.S. Department of Transportation.
- **Prime tourism attraction efforts for success** by transferring internal (on-Island), airline, and event marketing responsibilities and funding from the Puerto Rico Tourism Company (PRTC) to Discover Puerto Rico (DPR).

While all reforms will help foster economic growth and job creation, simplifying and digitizing permits (including business registrations), property registration, and paying taxes will have a particularly significant impact.

9.2 Streamline permits to promote business activity and public safety

To foster economic development, promote public safety, and enable recovery from the COVID-19 pandemic, the Government must urgently revamp the Island's permitting system.

As part of the efforts to reform the permitting process, a new Joint Regulation, the Island-wide permitting rules, was implemented in January 2021.¹¹⁶ The Joint Regulation is intended to allow for an expedited permitting process, one of the biggest hurdles to business operations, through a change of the single permit process. The single permit process, in effect since 2019, attempts to allow applicants to complete all documentation required in one process, as long as the permit filing is in compliance with all requirements, including zoning. The new process, per the 2021 Joint Regulation, allows all required inspections to occur after a business starts operations. With this specific change, single permit approval time has been reduced from an average of 52 days in 2020 to an average of 13 days in 2021. In addition, many construction permits that once required an environmental assessment no longer require it if the project's environmental impact falls within certain minimal guidelines. This modification is expected to reduce permitting process timelines by at least six months and reduce business costs for those types of projects. Another

¹¹⁶ This Joint Regulation was declared null by the Court of Appeals on March 31, 2021 and on April 12, 2021 in two different judgments. The Puerto Rico Planning Board has 30 days to appeal the decisions before the Supreme Court of Puerto Rico, so they are not final. The Puerto Rico Planning Board has said that they will appeal the decision and if necessary will present their case before the Supreme Court of Puerto Rico. Until the decision becomes final, the Joint Regulation is considered as current.

important change in the regulation is that applicants can choose to renew their Single Permit in one or three years, reducing the time spent renewing permits.

Despite this near-term progress, the permitting process itself still needs to urgently be reformed, with the bulk of the work – process and system reengineering—still to be implemented over the next two to three years. Without these permanent changes, permitting backlogs will likely persist. Changes are required to create uniformity within the Island-wide permitting rules and estimated time to adjudicate permits, regardless of the office or the Municipality that is processing the permit.

Not only are the delays in construction permit issuance a deterrent to business creation and expansion, they also incentivize informal construction, which in turn potentially increases risks to public safety, as informal construction may not follow applicable building codes.¹¹⁷ Without thorough implementation of the reforms outlined below, permitting will impede the Island's economic revitalization—discouraging construction and business operations, and undermining recipients who aim to rebuild their homes and businesses in the wake of natural disasters. In the aftermath of the COVID-19 pandemic, creating a streamlined permitting system that allows businesses to quickly start or restart activity will be crucial to support Puerto Rico's recovery—especially in the case of small businesses, which are particularly vulnerable to economic disruptions.¹¹⁸

9.2.1 Permitting reform design parameters

The 2021 Fiscal Plan requires the Government to implement the permitting reforms highlighted in bold, below. The 2021 Fiscal Plan recommends that the Government adhere to the corresponding set of parameters when implementing the required permitting reforms. Specifically, the Government must:

Implement operational changes to permitting processes

- **Improve efficiency while maintaining public safety.** The Government can implement this reform by eliminating sources of waste (e.g., under-trained employees asking applicants for excess documentation) through a lean transformation and routine regulatory training and testing for employees at key permitting agencies,¹¹⁹ and issuing all construction (PCOC)¹²⁰ and business (PU)¹²¹ permits that comply with basic requirements on a conditional basis, with continued validity dependent on the findings of proactive (mid-construction or -operation) inspections.¹²² The Government should also increase utilization (i.e., identifying additional inspection types to delegate) and oversight of third-party inspectors (e.g., more training and auditing),^{123,124} streamline permitting for strategic projects (e.g., major developments,

¹¹⁷In 2007, Interviron Services, Inc. concluded that as much of 55% of the Puerto Rico's residential and commercial construction could have been done informally; see Hinojosa, et. al., "The Housing Crisis in Puerto Rico and the Impact of Hurricane Maria," 2018.

¹¹⁸For example, the average small business generally holds less than one month of cash on hand. JP Morgan Chase & Co Institute, "Cash is King: Flows, Balances, and Buffer Days: Evidence from 600,000 Small Businesses," 2016.

¹¹⁹These include the Permits Management Office (OGPe), the chief permitting regulator; the Environmental Quality Board (DRNA-JCA), which exempts permits from environmental impact reviews and conducts the reviews themselves; and the Department of Health (DOH) and Firefighters Bureau (CB), which issue the sanitation licenses and fire prevention certificates required for businesses to operate.

¹²⁰The consolidated construction permit (PCOC) is required for all construction on the Island.

¹²¹The single permit (PU) is required of all businesses on the Island to operate. It consolidates the use permit, the environmental quality certificate, the fire prevention certificate (adjudicated by CB), the sanitation license (adjudicated by DOH), and depending on the nature of the business, liquor, and tobacco licenses (adjudicated by Hacienda).

¹²²All permits are currently adjudicated through a time-intensive analysis to determine whether projects as written in the applications would comply with regulations. In a proactive inspection regime, regulatory compliance is ascertained through live inspections, enabling adjudicators to issue permits more quickly (reducing processing times), inspectors to verify code compliance in practice (boosting safety), and builders spot quality control issues earlier on (averting expensive rework).

¹²³Profesionales autorizados may complete fire prevention certificate inspections, but both OGPe and local permitting experts have voiced concern about the quality of some third-party inspections.

¹²⁴In Washington, D.C., third-party inspectors may conduct building, mechanical, electrical, and plumbing with supervision from the city's Commercial Inspections Division; see District of Columbia, "Third Party Program Procedure Manual 2018," 2018.

projects above a certain value threshold), and guarantee highly-delayed applications a right to obtain agency review.¹²⁵

- **Accelerate construction permitting.** The Government can implement this reform by expanding the types of businesses and construction projects excluded from environmental impact review.¹²⁶ The Department of Natural and Environmental Resources (DRNA, by its Spanish acronym) should amend their Administrative Order on Categorical Exclusions to increase the number of actions and activities exempted to perform an environmental assessment because they do not have significant impact on the environment.
- **Expedite business permitting.** The Government can implement this reform by eliminating sanitation and fire department inspections for some businesses, such as stores in shopping centers and offices in some commercial buildings that go through annual inspections, and ending sanitation inspections for low-risk businesses (e.g., offices, retail outlets) altogether.¹²⁷ In addition, after completing reengineering of the permit's process, the permit's law and the joint regulation will need revisions to incorporate changes, simplify language, and eliminate procedural inefficiencies.
- **Improve municipal permitting offices' compliance with permitting regulations.** The Government can implement this reform by revising, standardizing, and renewing all legal agreements that allow autonomous municipalities to issue permits on their compliance with permitting regulations,¹²⁸ redirecting applications and fees away from non-compliant municipalities,¹²⁹ and allowing municipal permit applicants to document a municipal permitting office's regulatory non-compliance and petition OGP_e to review their cases.
- **Allowing Government agencies to propose regulatory changes in response to economic or technological changes to maximize efficiency and safety.**¹³⁰

9.2.2 Reform targets and indicators

Successful property registration reforms will allow Puerto Rico (ranked 143rd in the *Doing Business* "dealing with construction permits" indicator) to compete with the top-ranked Latin American and Caribbean economy in this indicator (ranked 87th) by reducing the time, number of procedures, and cost required to obtain permits by FY2023. It must digitize and integrate all procedures required to start a business into Single Business Portal (SBP) (Act 19-2017).

The Government must continue to redesign the Island's permitting regime by implementing operational changes to ensure systemic and enduring changes.

- **Overhaul the Single Business Portal:** The platform needs solutions to glitches and additional features to meet the Island's permitting needs. It should also be redesigned to be customer-centric, process-driven, and to prevent errors in document submittal¹³¹ An

¹²⁵ The Government could offer significantly delayed permit applications the ability to petition OGP_e's Adjudication Board (OGP_e-JA) for a final decision. In turn, the Government should bolster the board's technical capabilities by developing a permanent technical staff to review applications and require OGP_e-JA to issue final rulings on their status by a certain deadline.

¹²⁶ Before applying for permits, applicants must solicit an environmental document approval from OGP_e. The categorical exclusion (DEC) is the most common and fastest to adjudicate (as no analyses are required). Applicants who do not qualify for a DEC must complete an environmental assessment (EA) or an environmental impact assessment (DIA).

¹²⁷ An end to low-risk business sanitation inspections would reduce regulatory burdens for those businesses and enable DOH to allocate additional personnel to inspect high-risk facilities (e.g., labs, restaurants).

¹²⁸ Act 81-1991 created autonomous municipalities. Under existing regulations, autonomous municipalities are legally allowed to open municipal permitting offices once they have submitted municipal zoning maps to and signed convenios de delegacion with JP. Convenios de delegacion are valid for five-year periods.

¹²⁹ OGP_e could redirect permitting applications and fees away from municipalities that display sustained patterns of non-compliance (via SBP) or (in conjunction with JP) digitally revoke their authority to issue permits altogether.

¹³⁰ Modifications should respond to technological advances (e.g., development of new software that renders certain analyses obsolete). An effective mechanism in the Joint Regulation would require JP to (1) review all proposals and send viable ones to public commentary on a quarterly basis and (2) update the Joint Regulation within 90 days of their approval.

¹³¹ SBP was created by Act 19-2017 to serve as the Island's one-stop portal for construction and business permits, individual and corporate incentives, and business registration procedures. To-date, the platform is only used to solicit and adjudicate permits and incentives. SBP has been plagued by technical issues (e.g., incorrectly computing application fees, sending applications to the wrong permitting office, etc.) and hampered by the absence of important features (e.g., amending applications, allowing permitting agencies to view all tasks awaiting completion, etc.).

operational redesign will enable agencies to comply with processing time limits to adjudicate permits. While modifications to SBP were made to reduce technical glitches (e.g., applications sent to incorrect offices) and a lack of critical features (e.g., amending applications) additional intelligence capabilities have to be added to prevent errors, reduce time by directing applications through the process and permitting proponents to present complaints when process deviations occur. SBP upgrades will provide a foundation for the operational transformation. The Commonwealth should digitize and centralize all procedures to start a business as required by Act 19-2017 and facilitate inter-agency collaboration by offering all permitting agencies and municipal offices more visibility into outstanding tasks (e.g., inspections).

- **Revise all Island zoning to reduce land use consults or use variations:** The Planning Board needs to complete territorial planning for all municipalities, including updating existing plans to reduce location consultations (e.g., revising zones that have organically changed use but have not been recognized in the zoning maps). These problems are reflected in the lengthy and costly permitting process that needs to be followed for use variance and land use consults.
- **Revise the Environmental Document Regulation:** The DRNA should revise their regulation to allow for more flexible delimitation of actions that are determined to be Categorical Exclusions, including for existing facilities, expansions, and any other that are known to not have a significant impact on the environment. This change will expedite the permit evaluation process for many cases, as it reduces time to approximately six months for environmental document approval for many projects.
- **Establish Performance goals for all agencies, municipalities, and offices that participate in the permitting process, and publish a dashboard with the general status and statistics for accountability in the permitting process:** The creation of a public dashboard will provide transparency on the permitting process and will help identify bottlenecks and inefficiencies among the agencies and offices involved.
- **Launch a Permitting Performance Dashboard (DPP)** to evaluate permitting agencies' and Municipal offices' compliance with processing time limits found in the Joint Regulation¹³² by calculating the average processing time (submission to adjudication) for all permit classes and types (and agency sub-tasks if adjudicated by two or more agencies),^{133,134} tracking the number of applications closed without adjudication or returned to applicants due to incomplete documentation for all permit classes and types,¹³⁵ recording the percentage of third-party permit inspections audited by the Planning Board, and enabling applicants to view their permit's approval status in real-time.
- **Launch a Red Tape Commission**¹³⁶ comprised of private and public sector experts to identify opportunities to streamline the environmental documents, such as the Determination of Categorical Exclusion (DEC) and the Environmental Assessment (EA), and major construction procedures like the Land Use Consult (CUB), the Consolidated Construction Permit (PCOC), the Infrastructure Agency Recommendation (SRI), and the single business permit (PU). The commission should also map the objectives of all OGPe-issued permits to identify overlaps in scope, outdated use cases, permits that could be processed in parallel or

¹³² The Joint Regulation creates three permit classes: Ministerial permits comply with all land use, zoning, and building regulations and must be adjudicated within 30 days. Discretionary permits that contravene only building rules (e.g., square footage limits) are subject to a Construction Consultation (CC) but not subject to public commentary and must be adjudicated within 120 days. All other discretionary permits are subject to a public hearing and must be adjudicated within 180 days.

¹³³ Class refers to a permit's ministerial or discretionary character, type refers to its use (e.g., PCOC, PU, etc.).

¹³⁴ The SRI is one example of a permit adjudicated by more than one agency. Although it is issued by OGPe, the determination is based on input from the affected infrastructure agency (e.g., PREPA).

¹³⁵ The Joint Regulation resets time limits when agencies receive an application lacking required documentation. Local permitting experts have noted prior experiences with agencies marking completed applications "incomplete" to reset application time limits.

¹³⁶ In New York City, a red tape commission developed more than 60 solutions to address inefficient business processes, including permitting. In New Jersey, the creation of a statewide commission coincided with a slowdown in the issuing of new regulations. When enforceable by law, red tape reduction efforts have drastically reduced excess regulations. Rhode Island eliminated 31% of all statewide regulations when it legally set its entire regulatory code to expire at the end of 2018. See Broughel, "A Dark Day for Red Tape in the Buckeye State," 2019.

leverage the same analyses, as well as recommend which permit inspections could be delegated to third-party inspectors and flag major SBP glitches and common-sense technical upgrades.

The implementation of these reforms is critical to improve the permitting process. The Oversight Board recommends the Government—notably the Planning Board (JP, by its Spanish acronym) and the Permits Management Office (OGPe, by its Spanish acronym)—implement these reforms promptly to improve the permitting system.¹³⁷ The implementation of these reforms is necessary to achieve the economic growth assumed in the Fiscal Plan and to increase the tax revenues that come as a result of economic growth.

To successfully implement permits' reform, the Government must accomplish the following action items by their respective deadlines:

EXHIBIT 51: IMPORTANT ACTIONS FOR IMPLEMENTING REQUIRED PERMITTING REFORM

	Action item	Owner	Deadline
To be completed in FY2022	• Establish Red Tape Commission Comprised of private sector experts, CB, DOH, DRNA-JCA, JP, OGPe, and the Oversight Board	• DDEC	• July 31, 2021
	• Publish in SBP Permit's Performance Dashboard with metrics by office: OGPe, Municipalities, DoH, FD, and all Agencies that participate in permits process and by employees.	• OGPe	• July 31, 2021
	• Establish and communicate performance goals for all permit office and Planning Board employees and incorporate in performance review process.	• OGPe, PRPB	• July 31, 2021
	• Train all supervisors in supervisory skills, performance and change management.	• OGPe, PRPB, UPR	• July 31, 2021
	• Develop and publish RFP to hire lean consultants to perform process reengineering with Code Enforcement Grant.	• OGPe, PRPB/IBTS	• July 31, 2021
	• Revise all Island zoning to reduce land use consults or use variations. Obtain from SBP list of repetitive location consultations to discuss with PRPB to identify areas to change zoning and include id field in SBP for field variations.	• PRPB	• July 31, 2021
	• Develop new Strategic Project Definition, streamline approval process with metrics and dashboard and activate committee.	• Governor's Advisor on Priority Projects	• August 30, 2021
	• Establish and communicate an oversight procedure for PAs, OGPe and Municipal Offices' personnel that includes: % of cases to be audited, deficiencies reports and sanctions.	• PRPB	• September 30, 2021
	• Create dashboard of PA's and employees (users) performance (audit scores and complaints) and deficiencies.	• PRPB	• September 30, 2021
	• Select and hire Lean Consultant.	• OGPe, PRPB/IBTS	• September 30, 2021
	• Re-train all OGPe and Municipal Permit's Offices employees, technicians, inspectors on new regulation, SBP and code adoption (Grant) .	• OGPe, PRPB/IBTS	• October 31, 2021
	• Revise the environmental document regulation.	• DRNA	• October 31, 2021
	• Under Code Adoption Grant develop RFP for System Architecture Provider with Customer Centric and Service Design Experience for SBP development.	• OGPe, PRPB/IBTS	• October 31, 2021
	• Design implementation plan to digitalize all business registration process (to start a new business)	• Business Registration Agencies	• December 31, 2021
	• Select System engineer and start SBP system design	• OGPe, PRPB/IBTS	• December 31, 2021
	• Amend laws to allow a streamlined process for the development of territorial plans.	• Legislature	• December 31, 2021
	• Complete lean reengineering and communicate recommendations.	• OGPe, PRPB/IBTS, Lean Consultant	• January 31, 2022

¹³⁷ For example, creating a more coherent land use plan and zoning map could streamline the permitting process by eliminating the need for time-intensive pre-construction consultations. Multi-year delays in updating this map have increased the need for such consultations as Island's developmental trajectory has necessitated commercial and industrial development in areas officially zoned for residential or agricultural uses. As such, the Oversight Board urges collaboration between JP and autonomous municipalities to produce an updated land use plan and zoning map that meets the Island's economic and environmental needs.

	Action item	Owner	Deadline
To be completed in FY2022	• Amend permit law and regulation (as necessary) to incorporate lean recommendations.	• Legislature/Executive	• March 31, 2022
	• Complete SBP System Design.	• OGPe, PRPB/IBTS	• March 31, 2022
	• Develop RFP for SBP System Developer to create SBP modifications.	• OGPe, PRPB/IBTS	• April 30, 2022
	• Select System developer and start SBP system programming	• OGPe, PRPB/IBTS	• June 30, 2022
To be completed in FY2023	• Amend Joint Permit Regulation to incorporate changes required by changes in the law and lean process.	• PRPB	• September 31, 2022
	• Complete SBP modifications.	• OGPe, PRPB/IBTS	• December 31, 2022
	• Complete territorial planning for municipalities and update existing plans.	• PRPB	• December 31, 2022
	• Fully digitalize all procedures to start a business within SBP	• Third Parties	• June 30, 2023
	• Reduce average processing times for each permit type and class to 2x Joint Regulation	• OGPe, PRPB	• June 30, 2023
	• Reduce average processing times for each permit type and class to comply	• OGPe, PRPB	• June 30, 2023

9.3 Overhaul property registration to facilitate financial transactions and promote disaster-preparedness

To remove barriers to financial activity and promote disaster-preparedness, the Government must continue implementing property registration reforms in FY2021. The digitization of property registrations has boosted productivity at the Department of Justice-Property Registry (DOJ-PR), enabling the registry to process more documents than it received¹³⁸ Since the certification of the 2020 Fiscal Plan, the Register has been able to reduce backlogs from 400,000 to 320,000 documents, and registrations average less than 90 days to process compared to 190 days in the World Bank 2020 report. In some sections of the Register document registration is taking less than ten days. This has been done by creating performance dashboards and establishing performance goals for all employees. However, even with these temporary changes, the backlog has not been eliminated, and without systemic and procedural changes the backlog could further increase, therefore procedural changes are necessary for long-term reform.

Accelerating property registration will ensure that all residents and businesses can quickly and reliably document property rights—crucial to day-to-day business operations and to post-disaster recovery efforts. As it stands, the Island's current set of disjointed registries does not comprehensively map all land ownership, complicating the Government's disaster relief efforts.^{139,140,141} To empower residents and businesses to recover from future natural disasters and comply with U.S. Department of Housing and Urban Development (HUD) guidelines for unlocking \$8.3 billion in Community Development Block Grant Mitigation (CDBG-MIT) funds, reforms should also demonstrate meaningful progress in the creation of a uniform parcel registry that can be used to verify the ownership of properties across the Island.

9.3.1 Reform design parameters

The 2021 Fiscal Plan requires the Government to implement the property registration reforms highlighted in bold, below. The 2021 Fiscal Plan recommends that the Government adhere to the

¹³⁸ Puerto Rico Department of Justice-Property Registry, performance data shared with Oversight Board, 2019; the World Bank Group, Doing Business 2020, 2019.

¹³⁹ In the aftermath of the 2017 hurricanes, many individuals and families affected by the disasters struggled to document legal ownership of their properties, requiring FEMA to make an exception and allow claimants to self-certify ownership.

¹⁴⁰ Unregistered properties, also known as informal housing stock, are generally self-built by lower-income households, often in flood zones and without rigid building code compliance. In 2007, Interviron Services, Inc. concluded that as much of 55% of the Puerto Rico's residential and commercial construction could have been done informally.

¹⁴¹ Puerto Rico has three property registration systems: (1) DOJ-PR's registry records transactions (e.g. acquisitions) relating to real properties and uses registrars to analyze the validity of property transactions; (2) Centro de Recaudación de Ingresos Municipales (CRIM) maintains a digital registry of real property in each municipality (the Cadaster of Puerto Rico) for tax, legal, economic, and administrative purposes; (3) JP maintains an interactive database with location, environmental, and land use data across the Island. Neither the DOJ-PR registry nor the Cadaster accurately capture property ownership. Registration in the former is voluntary, time-consuming, expensive, and unnecessary in the absence of financial transactions. While registration in the latter is mandatory, the Cadaster does automatically record informal transactions.

corresponding set of parameters when implementing the required property registration reforms. Specifically, the Government must:

- **Reduce the amount of time required to register a property.** The Government can achieve this reform by completing consolidation of regional offices, train supervisors on supervisory skills including performance management, provide continuous training to employees to increase productivity, conducting performance analyses to reallocate support staff (e.g. technicians) to maximize registrars' processing capabilities, and eliminating the backlog of outstanding property registrations.
- **Eliminate the backlog of outstanding property registrations.** The Government can achieve this reform by promoting legislation such as was done in 2010 with Act 216, known as Act to Accelerate the Property Register. The sequential registration of documents is necessary to maintain updated property records that guarantee ownership. The Oversight Board recommends that legislation be enacted that would consider as registered all documents presented before December 31, 2020, as long as they have a tract record and are in the correct estate.
- **Modify Karibe**, the digital platform used by the Register. The Government can achieve this reform by taking steps to minimize data entry errors, including establishing checklists of documents to be submitted to assure completeness and prevent errors that require notification of cases, adding the features to analyze data entered to validate correctness and completeness, adding help tools to guide users through the submittal process and providing training to Public Notaries and their staff on system usage.
- **Create a taskforce composed of Public Notaries, and DOJ-PR to develop recommendations and set procedures and legal requirements to register non-registered property on the Island.** The current process to register properties that have never been registered requires that all transactions go through the judicial system. It is estimated that there are 90,000 informal properties in Puerto Rico that would have to go through that process, potentially creating a huge backlog in the judicial system. The taskforce should develop recommendations on a process based on the experiences of what other countries have done to tackle informal property registration to register these properties without going through the courts.
- **Create a uniform parcel registry that comprehensively records property ownership and rights across the Island** (funded by a \$50 million CDBG-DR grant for this purpose). The Government can achieve this reform by prioritizing the mapping of the entire Island, including only basic information for each property, and limiting participation to stakeholders with registration data, establishing an administrative and technical protocol for continuously updating the parcel registry to reflect legal changes (e.g., new ownership), and creating a legal protocol to incorporate informal housing stock lacking legally-determined boundaries, deeds, or titles into the uniform parcel registry. According to the Department of Housing CDBG-DR Office Action Plan (V), the GeoFrame Program will aggregate, integrate, and actualize all cadastral data (addresses, roads, parcels, structures, ownership, occupancy, land use, etc.) in Puerto Rico using a centralized regulated system. The program guidelines were approved in September 2020 and the program launched in October 2020 with a Request for Proposal (RFP) for a program manager.
- **Launch a Geoportal that provides an interactive geospatial presentation of data populated within the uniform parcel registry** (funded by the same \$50 million CDBG-DR grant mentioned above). The Government can achieve this reform by contracting surveyors and GIS service providers to develop a digital portal of the Island, and prioritizing the overlay of parcel and ID, ownership, land use, and valuation data¹⁴² The RFP to select the GIS provider was published on September 30, 2020. The Government Procurement Office is in the process of selecting the service provider.

¹⁴² After satisfying HUD requirements, the Government could populate additional data (e.g., utility, school population, crime) to meet the Island's legal and economic needs.

9.3.2 Reform targets and indicators

Successful property registration reforms will allow Puerto Rico (ranked 161st in the *Doing Business* registering property indicator) to compete with the top-ranked Latin American and Caribbean economy in this indicator (ranked 95th) by reducing the time and number of procedures required to register property by FY2024. It will also allow Puerto Rico to demonstrate to the U.S. Department of Housing and Urban Development (HUD) how ongoing efforts to develop a uniform parcel registry and GIS map will assist HUD in verifying legal and physical addresses associated with the use of CDBG-MIT funds.

The Oversight Board will also track the following indicators to ensure that the Government implements property registration reforms:

- Average number of days to register property
- Number of procedures required to register property
- Number of backlogged property registration applications

To successfully implement property registration reform, the Government must accomplish the following action items by their respective deadlines:

EXHIBIT 52: IMPORTANT ACTIONS FOR IMPLEMENTATION OF REQUIRED PROPERTY REGISTRATION REFORM

	Action item	Owner	Deadline
To be completed during FY2022	• Work with Legislature to pass law to register all documents in backlog up to 12/31/20 that have a tract record (missing a partial payment, a small correction or a Gov required document)	• DoJ / PR / Legislature	• July 31, 2021
	• Develop regulation and plan for Implementation of law	• DoJ / PR	• July 31, 2021
	• Establish employee performance quotas, include in performance review process and publish weekly, monthly and YTD	• DoJ / PR	• July 31, 2021
	• Create internal and external users' team as advisors (Civil Law Notaries) and government agencies with vested interest in the process: Property Registry, OGPE & CRIM	• DoJ / PR / Working Groups	• July 31, 2021
	• Begin implementing strategy to reduce property registration processing times	• DoJ / PR	• August 31, 2021
	• Publish dashboards with all employees, teams and Registry Sections performance, Internality and in KARIBE	• DoJ / PR / Working Groups	• August 31, 2021
	• Develop RFP to Hire System Designer for KARIBE	• DoJ / PR / PRITS	• August 31, 2021
	• Issue request for proposal for third-party surveyors and GSI providers to begin developing digital map of the island (funded by \$50 million CDBG-DR) grant for this purpose.	• PRODH	• September 30, 2021
	• Hire System Designer (Front End KARIBE)	• DoJ / PR / PRITS	• October 31, 2021
	• Work legislation to implement fee for cases presented physically at Registry Offices.	• DoJ / PR / Legislature	• November 30, 2021
	• Identify all changes to be performed to KARIBE to improve presentation, increase user friendliness and automate certain tasks performed by technicians and prepare RFP for system developer.	• DoJ / PR	• December 31, 2021
	• Hire system developer and start changes to KARIBE.	• DoJ / PR / PRITS	• February 28, 2022
	• Establish compensation plan for technicians that exceed goals with new funds collected.	• DoJ / PR	• February 28, 2022
	• Define administrative protocol to continuously update uniform parcel registry in response to legal changes (e.g. ownership changes).	• Working Group	• April 31, 2022
	• Finalize merger of CRIM, DOJ-PR, and JP property registries into uniform parcel registry	• Third Parties	• May 30, 2022

	Action item	Owner	Timeline
Timeframe FY2022	• Introduce technical mechanisms to continuously update uniform parcel registry and GIS map in response to legal changes (e.g. ownership changes).	• Third Parties	• June 15, 2022
	• Incorporate CRIM geographic area validation.	• DoJ / PR	• June 30, 2022
	• Complete consolidation of 12 Regional Offices into 8 with limited services	• DoJ / PR	• June 30, 2022
FY2023	• Complete all document registration as required with the new law.	• DoJ / PR	• July 31, 2022
	• Complete changes in KARIBE.	• DoJ / PR / Working Groups	• September 31, 2022
	• Issue request for proposal for third-party firm to merge CRIM, DOJ-PR, JP property registries into uniform parcel registry.	• PRDOH	• November 15, 2022
	• Design protocol to incorporate Informal housing stock when identified into uniform parcel registry.	• PRDOH	• January 31, 2023
	• Design campaign to map unregistered properties or those with outdated ownership and share with oversight Board.	• PRDOH	• February 15, 2023
FY2024 and Beyond	• Develop an expedited ownership declaration process. Create preregistration process to comply with Federal Government requirements to assure all properties in Puerto Rico have some type of evidence of ownership.	• CDGB-DR / JP / CRIM / PRDOH	• July 31, 2023
	• Conclude mapping campaign.	• DoJ / PR	• March 31, 2024
	• Finalize upload of data from mapping campaign into uniform parcel registry and GIS map.	• Working Group	• June 30, 2024
	• Finalize uniform parcel registry that maps all ownership and rights across the island.	• CDGB-DR / JP / CRIM / PRDOH	• September 15, 2024
	• Finalize GIS map that include parcels, property IDs, property ownership, land use, and property value data.	• CDGB-DR / JP / CRIM / PRDOH	• December 31, 2024

9.4 Simplify paying taxes to spur economic activity

To spur economic activity, the Government must implement reforms to meaningfully simplify the process of paying taxes. The Oversight Board acknowledges Hacienda's progress in digitizing and increasing the number of tax filings made via the Internal Revenue Unified System (SURI, by its Spanish acronym). During FY2020 and FY2021 Hacienda automated corporate income tax filing and the submittal of documents for audits and error correction. In addition, they established an appointment system on their webpage to eliminate the need for taxpayers to visit the taxpayer's services office and wait in line for post filing error resolution. Hacienda is also in the process of digitizing SUT payments in SURI. These efforts have drastically reduced the burden of tax filings and has helped filers reduce the time required to complete certain filings and payments (e.g., form 480, SUT, corporate income taxes) by digitizing and centralizing those processes in one place. However, municipal and property tax filings and payments remain time-consuming and complex. Post-filing audit procedures are still particularly time-consuming and challenging to resolve, often involving multiple in-person visits to Hacienda¹⁴³ or require filers to interface with multiple revenue agencies and mediums to comply with their tax obligation.

The Government should prioritize the reform of the tax administration process and should appoint a tax administration reform working group composed of public and private sector members including CPAs, CRIM, and the Municipalities.

9.4.1 Reform design parameters

The 2021 Fiscal Plan requires the Government to adhere to a set of parameters when implementing the required tax administration reforms. Specifically, the Government must:

- **Reduce the time required to pay taxes.** The Government can implement this reform by digitizing analog tax filings (e.g., municipal and property taxes), consolidating several tax filings (unemployment, workers compensation, disability and driver's insurance), and improve post-filing error-resolution processes (e.g., by communicating to users the new

¹⁴³ Most technicians only have the authority to resolve (and frequently escalate to their superiors) errors worth \$25,000 or less, with taxpayers needing multiple follow-up visits to speak to higher-level officials.

capability for secure uploads for digital document) into SURI, as well as by exploring opportunities to reduce the number of required tax payments (e.g., less frequent payments for smaller amounts)

- **Accelerate the processing of tax filings and timeliness of audit completion.** The Government can implement this reform by conducting an operational needs assessment to support the reallocation of underutilized personnel to critical functions (e.g., error-resolution, audits), and identifying and implementing operational efficiencies within the audit process (e.g., by identifying bottlenecks, duplicative work, and workload scheduling)
- **Create a working group to identify and prioritize efficiency-minded regulatory changes that can be incorporated into future SURI releases and to develop a plan to reform the tax administration process**

9.4.2 Reform targets and indicators

Successful tax administration reforms will allow Puerto Rico (ranked 163rd in the *Doing Business* paying taxes indicator) to compete with the top-ranked Latin American and Caribbean economies in this indicator (ranked 99th) by reducing the time and number of filings that companies must complete to pay taxes by FY2023:

The Oversight Board will also track the following indicators to ensure that the Government implements tax administration reforms:

- Average number of mandatory tax payments for corporations
- Number of days for claims resolution
- *Doing Business* post-filing index score

To successfully implement the required tax administration reform, the Government should accomplish the following action items by their respective deadlines:

EXHIBIT 53: IMPORTANT ACTIONS FOR IMPLEMENTATION OF REQUIRED TAX ADMINISTRATION REFORM

	Action item	Owner	Deadline
To be completed in FY2022	• Establish a Tax Administration reform working group with Private Sector tax professionals, CRIM, Hacienda, Governor's Priority Projects Advisor and FOMB	• Hacienda/AFFAF	• July 31, 2021
	• Start implementation of Municipal Sale Tax Payments in SURI (COFIM)	• Hacienda/AFFAF	• July 31, 2021
	• Discuss tax reform strategy, projected costs, and necessary administrative and legislative changes with Oversight Board.	• Reform Team	• July 31, 2021
	• Assess basic operational needs across all departments to facilitate allocation of personnel to processing filings, error resolution and audits.	• Hacienda	• October 31, 2021
	• Train personnel to be relocated to processing filings, error resolution and audits.	• Hacienda	• December 31, 2021
	• Design an implementation plan to maximize the effectiveness of tax administration reforms	• Reform Team	• December 31, 2021
	• Reallocate trained personnel to ease the processing filing, error resolution and audits.	• Hacienda	• January 31, 2022
	• Start implementation of the Tax Credit Management Module ("Business Credit Manager")	• Hacienda/AFFAF	• January 31, 2022
	• Finalize update to the latest version of SURI platform (Version 12) to improve user experience with a communication program for users	• Hacienda	• February 28, 2022
	• Finalize update to SURI platform to include Municipal Sale Tax Payments (COFIM)	• Hacienda	• June 30, 2022
To be completed in FY2023 and beyond	• Finalize the Tax Credit Management Module ("Business Credit Manager")	• Hacienda	• September 31, 2022
	• Finalize necessary administrative and legislative changes required to implement tax administration reforms for tax year 2022	• Hacienda / Legislature	• December 31, 2022
	• Finalize technical upgrades to Hacienda's digital platforms for reform implementation	• Hacienda	• March 31, 2023

9.5 Reduce occupational licensing to facilitate labor force participation

Current occupational licensing requirements complicate certain workers' entry into the formal workforce and expose applicants to lengthy wait times and potential costs. Occupational licensing is meant to ensure high quality services while protecting public safety. However, overregulation in this area creates a strong disincentive for certain workers to move into the formal labor force.¹⁴⁴ To promote labor force participation and create incentives for skilled workers to remain on-Island, the Government should, as appropriate, streamline, eliminate, or harmonize occupational licensing requirements with those on the U.S. mainland. By aligning licensing requirements with other jurisdictions, professionals could consider Puerto Rico as an attractive relocation destination. Additionally, the Government should leverage established best practices when creating new licenses to produce less burdensome regulations and reduce the need for future time-intensive legislative overhauls.

The Government has not enacted any professional licensing reforms to date. More than 185 professions¹⁴⁵ are licensed by autonomous boards and supervised by the Department of Health (DOH), the Department of State (DOS), the Puerto Rico Tourism Company (PRTC), and the Sports and Recreation Department (DRD, by its Spanish acronym). Workers must meet application requirements set by licensing boards. Applications are then processed by their respective boards and issued by DOH, DOS, PRTC, and DRD. Processing times vary substantially.¹⁴⁶

9.5.1 Reform design parameters

The 2021 Fiscal Plan recommends that the Government adhere to a set of parameters when implementing occupational licensing reforms. Specifically, the Government should review requirements to identify licenses for simplification, consolidation, or elimination, and assess the basis for legislating a mandated reduction in occupational licensing regulations, as is done in other U.S. jurisdictions.¹⁴⁷ The Government should also join U.S. mainland compacts that recognize licenses obtained in other states, such as the Compact for the Temporary Licensure of Professionals. The Government should also amend current licensing requirements to align them with those in mainland states that are home to significant Puerto Rican populations that might one day return to the Island (e.g., Florida, New Jersey, New York, Pennsylvania) or employ significant numbers of workers in industries that Puerto Rico aims to attract (e.g., knowledge services, hospitality and tourism) to facilitate relocations.

Additionally, the Government should create less burdensome occupational licenses in the future by employing less-restrictive alternatives for occupations that pose low risks to public safety, closely tailoring license requirements to mitigate specific health and safety risks, conducting regular cost-benefit analyses, and reducing barriers to inter-state mobility through the enactment of legislation.¹⁴⁸

¹⁴⁴ The White House, "Occupational Licensing: A Framework for Policymakers," 2015; Carpenter, et. al., "License to Work: A National Study of Burdens from Occupational Licensing," 2017

¹⁴⁵ Inventory performed by the Dept of State and AAFAF

¹⁴⁶ In 2019, applicants for designer licenses waited approximately 33 business days to receive their license (18 days at the board and 15 at DOS), while barbers waited nearly 160 days (117 days at the board and 40 at DOS). Puerto Rico Department of State, performance data shared with Oversight Board, 2019

¹⁴⁷ Virginia, for example, created an inventory of all statewide regulations and mandated a 25% reduction in occupational licensing rules; see Broughel, "A Dark Day for Red Tape in the Buckeye State," 2019

¹⁴⁸ These include certification, registration, mandatory bonding, or more direct regulation of companies; with certifications, for example, the Government would limit the use of professional titles to licensed workers but allow workers to practice a trade. See The White House, "Occupational Licensing: A Framework for Policymakers," 2015

9.5.2 Reform indicators

The Oversight Board will track the following indicators to ensure that the Government implements occupational licensing reforms:

- Average number of days to obtain an occupational license after application is complete
- Average number of days to renew a license
- Number of occupational licenses eliminated or harmonized with interstate compacts

To successfully implement occupational licensing reform, the Government should accomplish the following action items by their respective deadlines:

EXHIBIT 54: IMPORTANT ACTIONS FOR IMPLEMENTING OCCUPATIONAL LICENSING REFORM

	Action item	Owner	Deadline
To be completed in FY2022	■ Establish working group of DOH, DOS, PRTC, FOMB and any related agency with Occupational Licenses	■ DOH, DOS, PRTC	■ Completed
	■ Identify all occupational licenses, requirements and processes using Institute of Justice License to Work methodology and compare to licenses in the U.S.	■ DOS, DOH, PRTC, DRD and UPR	■ September 30, 2021
	■ Establish a plan to reduce excessive licenses requirements and identify which licenses could be converted to less restrictive options like certification, bonding, insurance, inspections and registration	■ DOS, DOH, PRTC, DRD and UPR	■ October 31, 2021
	■ Design reform to reduce licensing by (1) creating protocol to streamline licenses, (2) joining interstate licensing compacts, and (3) aligning licensing rules with those in states with large Puerto Rican communities (NY, NJ, FL, TX)	■ DOS, DOH, PRTC, DRD and UPR	■ October 31, 2021
	■ Identify viable strategies to promote local boards compliance with licensing reforms	■ DOS, DOH, PRTC, DRD and UPR	■ November 30, 2021
	■ Publish performance report detailing (1) the average time and costs required to obtain each license type and (2) administrative or legislative changes made to reduce licenses or accelerate their processing	■ DOS	■ December 31, 2021
	■ Design Strategy to accelerate processing of licenses within DOH, DOS, PRTC, DRD (consolidating under one department)	■ DOS, DOH, PRTC, DRD	■ February 28, 2022
	■ Discuss licensing reform, compliance strategy, processing improvements, projected costs, and necessary administrative and legislative changes with Oversight Board	■ DOS, DOH, PRTC, DRD	■ February 28, 2022
To be completed in FY2023	■ Finalize necessary administrative and legislative changes required to implement occupational licensing reforms from FY2022 onward	■ DOS / Legislature	■ June 30, 2022
	■ Implement revised occupational licensing requirements	■ DOS	■ June 30, 2023

9.6 Deregulate on-Island freight

Puerto Rico is one of only two major U.S. jurisdictions that still regulates land freight prices. The cargo industry has sufficient providers to be able to compete on prices. Regulated freights in other jurisdictions in the past have reportedly decreased the quality of services rendered by carriers and shippers, and forced companies to hold additional inventory, all of which have helped increase the cost of doing business in Puerto Rico.¹⁴⁹ Rates in Puerto Rico are also at least double that of market rates in most states. Higher transportation costs negatively impact businesses and lead to more expensive consumer goods relative to the mainland.

Deregulation efforts undertaken in the late 1970s and early 1980s by the Carter Administration created a more competitive market environment for the U.S. motor carrier industry.¹⁵⁰ Building on this momentum, the Motor Carrier Act of 1980 (Act) further liberalized interstate trucking by allowing easier entry of trucking firms, relaxing pricing controls, and eliminating restrictions on

¹⁴⁹ Advantage Business Consulting, "Progress Report on Deregulation of Land Freight Rates," 2016.

¹⁵⁰ Rastatter, Edward H. May – June 2018. "Trucking Deregulation." Transportation News, pp. 33- 39

routes and the products that could be carried over them.¹⁵¹ Federal deregulation of interstate trucking culminated in 1995 with the passage of the ICC Termination Act, which abolished the Interstate Commerce Commission. Regulation of motor carriers (trucking companies and interstate bus lines) became from that point onward the responsibility of the Federal Motor Carrier Safety Administration (FMCSA), whose primary mission is to prevent motor vehicle-related fatalities and injuries. All states followed the Federal lead and by mid-1990's also eliminated nearly all price regulations, with continuing regulatory efforts focused predominantly on safety. As a result, since 1995 interstate trucking essentially is no longer subject to price or entry regulations.

Federal and state deregulation of interstate (and intrastate) trucking has produced significant efficiency gains and general gains in economic welfare by lowering trucking rates,¹⁵² improving services especially to small communities and remote areas,¹⁵³ less restrictive entry of workers into the industry¹⁵⁴, increasing number of licensed carriers,¹⁵⁵ increasing intermodal carriage,¹⁵⁶ increasing savings due to the substantial drop in the cost of holding inventories,¹⁵⁷ and increasing demand for brokering services due to the influx of small trucking firms into the motor carrier industry.¹⁵⁸

Similar to the impact of federal deregulation, the deregulation of land freights in Puerto Rico would likely reduce transportation costs for the Puerto Rican business community and ultimately, for consumers. Deregulation of land freight rates in Puerto Rico may potentially lead to trucking prices closer to those of the mainland. Moreover, it will increase flexibility of industry participants to negotiate directly and set prices, often with contract requirements that are more sophisticated and complex (for example, including provisions such as advertising incentives). It would also lead to a reduction in consumer prices.

In Puerto Rico the Transportation and Public Services Bureau (NTSP, by its Spanish acronym), is the agency that regulates public and private transportation. On December 23, 2020, the NTSP issued Circular letter 2020-35 temporarily increasing the minimum inland transportation freights by 35%, without identifying the impact on the economy. While the Circular letter has been enjoined by the local Court of Appeals¹⁵⁹, the decision to enforce the increase in rates appears to have coincided with a new interpretation of Act 75-2017 that expanded NTSP's regulations across new segments of the economy, including manufacturing and retail. In effect, this new interpretation of the law expanded regulation rather than deregulating as required by the Fiscal Plan. Retailers and manufacturers have historically established private contracts with carriers to transport merchandise to the point of sale, that were not under the purview of NTSP's rate setting. The pricing in these contracts has been negotiated often based on volume rather than distance, and often include other financial incentives, such as parking reimbursement, payment for advertising the company logo and public responsibility insurance, among others. The expansion of business segments covered by the regulation will directly impact consumer goods prices for all people in Puerto Rico. The tariff rate in Puerto Rico, if widely applied and enforced, would result

¹⁵¹ McMullen, B. Starr. 1987. "The Impact of Regulatory Reform on U.S. Motor Costs. A Preliminary Examination." *Journal of Transportation Economics and Policy*.

¹⁵² The average interstate truck load rates (TL) fell nearly 25% between 1977 and 1982 and the average less-than-truck load rates (LTL) fell nearly by 12%. See for example Owen, Diane. S. 1988. *Deregulation in the Trucking Industry*. Bureau of Economics. Federal Trade Commission

¹⁵³ *Trucking Deregulation in the United States*. September 2007. Submission by the United States to the Ibero-American Competition Forum

¹⁵⁴ Moore, Thomas Gale. *Trucking Deregulation*. The Concise Encyclopedia of Economics. Library of Economics and Liberty. <https://www.econlib.org/library/Encl/TruckingDeregulation.html>. Accessed July 22, 2020

¹⁵⁵ *Ibid.*

¹⁵⁶ *Ibid.*

¹⁵⁷ *Ibid.*

¹⁵⁸ Crum, M.R. Summer 1985. "The Expanded Role of Motor Freight Brokers in the Wake of Regulatory Reforms." *Transportation Journal*, pp. 5-15

¹⁵⁹ *Cámara de Comercio de Puerto Rico v. Negociado de Transporte y Otros Servicios Públicos*, KLRA202100025 (April 12, 2021)

in an estimated per mile trucking rate equal to between \$5.55 and \$7.51 per mile based on the rate schedule contained in the recently nullified Circular 2020-35. This compares to an average per mile cost of \$2.74 for the U.S. mainland.¹⁶⁰ The regulated rates in Puerto Rico are significantly higher (more than double) than in most regions of the U.S. If Puerto Rico were to deregulate pricing within the trucking industry, it is expected that per mile rates would decline to a level more consistent with other U.S. regions. Furthermore, NTSP would be better equipped to focus on compliance with environmental and safety regulations in the absence of tariff regulation.

The 2021 Fiscal Plan recommends the Government retract the extension of the tariff setting function of the NTSP to private contracts. The NTSP should maintain regulatory responsibilities over the previously covered segments of the economy that hauled cargo in spot transactions, without including private contracts. Based on the business model of the consumer goods distributors and their constant use of carriers, the tariff structure is not practical and it will disrupt their distribution models. The actual contracting model is a good example of how a free market operates and has proven to be successful. The NTSP should consider deregulating all of the tariffs to carriers after performing an in-depth analysis of the benefits and the costs associated with enforcing such tariffs. In addition, when increasing rates for covered segments, NTSP should ensure more inclusive procedures are instituted to prevent sudden unannounced changes, and that any proposed changes are supported by empirical data and analysis. This evidence should take into account impacts on industries and the economy as a whole. Finally, any new regulations should ensure they do not create undue barriers to entry for new market participants in the trucking industry. Currently, the Oversight Board is undergoing an analysis, including stakeholder meetings, to determine the nature and timing of next steps that will best serve the economy. It is crucial that any regulations should not create undue financial barriers to entry for new market participants in the trucking industry.

In addition, the NTSP should review the complete regulations to eliminate duplicate permitting processes between OGPe and the NTSP and to eliminate unnecessary documentation and processes required of carriers that add costs and are extremely time consuming.

9.6.1 Reform design parameters

The NTSP should undergo the regulatory process to update the regulations required under Law 38-2017, the Uniform Administrative Proceedings Act, which includes notifying the public of the regulations to be approved, provide opportunity for citizen participation, including public hearings when necessary or mandatory, submit the regulations to the Department of State for the corresponding approval. The NTSP must also submit the proposed regulation to the Oversight Board per PROMESA Section 204(b)(4). The Oversight Board recommends to the NTSP that it enhance the review process by including with its proposed regulation a study by a credible and independent economist built on a sound empirical foundation of the market for trucking services in Puerto Rico, including such details as shipping rates actually paid, trucking firm sizes, the number of trucking firms, and the number of firms using trucking services. The study should also include a simulation on the economic impact on any tariff increase on consumer prices, economic growth and tax collections. Moreover, the regulations should be reviewed to ensure they do not place oversized burdens on the trucking industry. It is critical that NTSP shares its evaluation methodology with stakeholders to ensure transparency in the process.

The regulations should also address reducing barriers to entry into the trucking sector, ensuring environmental and public safety without onerous requirements for trucking services providers.

To successfully implement deregulation of on-Island freights, the Government should accomplish the following action items by their respective deadlines:

¹⁶⁰ This estimate assumes an average trip of 55 miles which is half the distance from the two furthest land transport points in Puerto Rico (San Juan to Mayaguez)

EXHIBIT 55: REQUIRED IMPLEMENTATION ACTIONS FOR ON-ISLAND FREIGHTS REFORM

Action item	Owner	Deadline
<div> <div>To be completed in FY2022</div> <ul style="list-style-type: none"> Revert tariff application to companies with negotiated contracts with carriers </div>	<ul style="list-style-type: none"> NTSP 	<ul style="list-style-type: none"> April 30, 2021
<ul style="list-style-type: none"> Revise regulation to eliminate duplicate permitting processes, excessive requirements and documentation to carriers and clarify that contracts between carriers and companies are exempt from tariff requirements. 	<ul style="list-style-type: none"> NTSP 	<ul style="list-style-type: none"> December 31, 2021

9.7 Strengthen offshore investment attraction efforts

To transform Puerto Rico into a more competitive destination for offshore investment, the Department of Economic Development and Commerce (DDEC, by its Spanish acronym) should work together with Invest Puerto Rico (IPR), the Island's Investment Promotion Agency (IPA), in developing an economic development plan and providing them the tools and the resources to execute the strategies that would bring new investment, jobs and opportunities for local businesses to grow.

During FY2021, Invest Puerto Rico (IPR) prepared to execute several strategies for attracting new investment of life sciences and air cargo companies. IPR developed and published their promotional plan, their annual report and their monthly KPIs as required in the 2020 Fiscal Plan. Their efforts to attract investment generated a pipeline of approximately 1,700 in potential jobs and \$308 million in capital investment for the second half of the fiscal year. They attracted two life sciences companies that have agreed to set up operations in Puerto Rico, with \$228 million of capital investment and the creation of 400 high paying jobs. Even though they have been able to reach their goals in leads and opportunities closed, the investment attracted has not produced the jobs and the capital investment expected.

Attracting job-creating investments is crucial to Puerto Rico, as the number of business establishments in Puerto Rico was already in decline before the 2017 hurricanes.¹⁶¹ Jurisdictions across the globe have leveraged IPAs to attract offshore investments, fuel economic growth, and create jobs for their residents.¹⁶² Effective investment promotion efforts are especially important in the aftermath of the COVID-19 pandemic. Off-Island investments (from both U.S. mainland and international companies) and from companies that establish transshipment centers in Puerto Rico to benefit from the air cargo and passenger transfer hub waiver granted by the U.S. Department of Transportation, will play a crucial role in supporting economic growth and creating jobs necessary to help Puerto Rico economically recover from the COVID-19 pandemic. To achieve this, IPR partnered with the Pharmaceutical Industry Association (PIA) on an extensive analysis of the Island's competitiveness with regards to other similar jurisdictions in the U.S. and abroad to be able to target manufacturing companies considering shifting their supply chains to the U.S. **In addition, Invest Puerto Rico is leading a multi-sectoral Air Transshipment Committee** that has developed a comprehensive strategic plan and is actively working towards implementing initiatives to support the global logistics industry with the enactment of the U.S. DOT transshipment waiver, granted to Puerto Rico in April 2020. This collaboration, in addition to establishing new air cargo carriers on the Island, should increase direct routes, and stimulate new markets through Life Sciences company attraction, and expanding usage of the Foreign-Trade Zone (FTZ) status of the Island.

Stronger investment promotion will also help ensure that the Island can effectively compete with mainland states and other countries for critical investments aligned to the Island's competitive

¹⁶¹ Puerto Rico Department of Labor and Human Resources, Bureau of Labor Statistics, "Puerto Rico Economic Analysis Report: 2015-2016," 2016

¹⁶² In Ireland, for example, the Industrial Development Authority (IDA) has helped secure investments from many of the world's top pharmaceutical firms and software companies, and more than 210,000 Irish residents—nearly 10% of the country's workforce—are employed by IDA client companies. See IDA Ireland, "Local impact"; the World Bank Group via International Labor Organization, "Labor force, total – Ireland," 2019

advantages (e.g., life sciences research and manufacturing, knowledge services, and hospitality and tourism) – increasingly important as companies look to shift their supply chains in the aftermath of the COVID-19 pandemic.¹⁶³

9.7.1 IPR in comparison to other IPAs

Unlike other IPAs, Invest Puerto Rico only has one mandate: attract offshore investment (primarily from the mainland) to the Island. For this purpose, IPR has an annual budget of \$5 million, \$1.4 million of which is allocated to investment promotion.¹⁶⁴ However, according to an analysis by the OECD of IPAs in its member states, national IPAs commonly have about six mandates, including inward foreign investment promotion, export promotion, innovation promotion, regional development promotion, and granting financial incentives.¹⁶⁵ Sub-national IPAs (such as IPR) often have many of these same responsibilities, as well as domestic investment promotion, issuing relevant business permits, and operation of a business one-stop shop. To support IPR's promotional campaign as part of the broader effort to help the Island recover from recent natural disasters, Vivienda has allocated \$7 million in CDBG-DR funding to IPR to be used in FY2021. However, for future years DDEC should consider providing an increased budget to IPR tied to their ability to raise incremental new investment.

9.7.2 Reform design parameters

The 2021 Fiscal Plan recommends the Government adhere to a set of parameters to fully empower IPR to effectively attract growth-generating and job-creating investments to the Island. Specifically, the Government should:

- **Require IPR to publicly release performance data** clearly illustrating the effectiveness of its promotional campaign in bringing incremental investments to Puerto Rico.
- **Ensure that IPR implements the strategic plan it developed to compete with U.S. mainland states and other economies for investments** that arise as companies move to shift their supply chains to the U.S. to minimize risk.
- **Partner with DDEC and DPR to implement the integrated strategic plan developed to leverage the U.S. Department of Transportation (DOT) air hub waiver** authorizing international air cargo and passenger transfers in Puerto Rico's international airports to foster economic development and spur tourism (if effectively utilized, the waiver is expected to generate \$30 million in additional payroll by 2022).¹⁶⁶ The waiver authorizes international air carriers to transfer cargo and passengers from any of their aircrafts to any of their other aircrafts restricted in many U.S. Airports. The activities allowed by the waiver within Puerto Rico international airports are: to transfer cargo and passengers from any of their aircrafts to any other aircraft provided that the aircraft are operating to/from a point in the carrier's homeland; make changes in the type of number of aircrafts used to transfer cargo and passengers, provided that in the outbound direction, the transportation beyond Puerto Rico is a continuation of the transportation from the carrier's homeland to Puerto Rico, and in the inbound direction, the transportation to the carrier's homeland is a continuation of the transportation from behind Puerto Rico. It also allows the commingling of cargo and passenger traffic moving in foreign air transportation with cargo and passenger

¹⁶³ Rapoza, "New Data Show U.S. Companies are Definitely Leaving China," 2020

¹⁶⁴ For comparison, JobsOhio has an annual budget of \$134 million, Invest Atlanta of \$40 million, and Enterprise Florida of \$37 million. The average national IPA, meanwhile, as a budget of \$68 million (\$12 million of which is allocated to investment promotion) and the median national IPA a budget of \$12 million (with \$5 million allocated to investment promotion). See Organization for Economic Cooperation and Development, "Mapping of Investment Promotion Agencies in OECD Countries," 2018

¹⁶⁵ These include inward foreign investment promotion (100% of IPAs), export promotion (56%), innovation promotion (56%), promotion of regional development (50%), green investment promotion (44%), domestic investment promotion (41%), granting financial incentives (31%), outward investment promotion (28%), trade facilitation (25%), and screening and approving investors (25%); see Organization for Economic Cooperation and Development, "Mapping of Investment Promotion Agencies in OECD Countries," 2018

¹⁶⁶ Issued in February 2020, the waiver is expected to allow at least 10 new flights per day, creating 900 new jobs and increasing payroll by about \$30 million (according to a study by Estudios Tecnicos, Inc.)

traffic not moving in foreign air transportation. They should also work together with DDEC to renew the waiver in 2022.¹⁶⁷

- **Continue its efforts to attract companies in the eight targeted industries:** Energy, Creative Industries, Innovation & Entrepreneurship, Finance & Insurance, Professional Services, Technology, Air Cargo and Lifesciences.
- **DDEC should provide IPR with the tools and capabilities to offer existing idle Government properties** (e.g., abandoned industrial parks, factories, storage facilities) that could be used by potential investors as they explore the possibility of running their businesses on the Island. The Oversight Board encourages close coordination between the DDEC and IPR to allow IPR to present to investors a more compelling offer, as finding the right location to run operations in a new area is time-consuming and challenging. It could also provide IPR with a new source of revenue (e.g., through brokerage fees on each transaction) and help the Government leverage their unused properties.

9.7.3 Reform targets

The 10-year collaboration agreement between DDEC and IPR establishes a set of multi-year performance targets. Despite the disruptions caused by the pandemic, the growing number of firms considering shifting their supply chains to the U.S. to minimize risk in the aftermath of the pandemic—if well targeted—will ensure that IPR can meet or exceed its contractual obligations. As such, IPR should generate, according to their collaboration agreement, by the end of FY2023, at least: 4,400 new businesses, 26,000 new jobs, \$923 million in capital investments, and \$40,000 in average payroll committed by each new business.

To successfully implement investment attraction reform, the Government should accomplish the following action items by their respective deadlines:

EXHIBIT 56: IMPORTANT ACTIONS FOR IMPLEMENTING EFFECTIVE OFFSHORE INVESTMENT ATTRACTION

	Required implementation actions	Owner	Deadline
To be completed in FY2021	▪ Identify KPIs that IPR will report to AAFAF on a monthly basis	▪ IPR, AAFAF	▪ Completed
	▪ Develop clear list of target sectors and companies that IPR will target as it works to take advantage of efforts to rebalance supply chains toward the U.S. and capitalize on the DOT air hub waiver and discuss with Oversight Board	▪ IPR	▪ Completed
	▪ Establish Airhub working group comprised of DDEC, DoT, DPR, Ports Authority, Land Administration, Private Sector and the FOMB to design and implement economic development strategy that leverage the newly issued Air Transit Waiver	▪ DDEC	▪ Completed
	▪ Send KPI report to AAFAF	▪ IPR	▪ Completed
	▪ Update 2019-2020 promotional plan to clearly detail strategy to capture investment from companies rebalancing their global supply change and those that can benefit from the Air Transfer Hub Waiver	▪ IPR	▪ Completed
	▪ Publish annual performance report	▪ IPR	▪ Completed
	▪ Design economic development strategy and share with Oversight Board	▪ Working group	▪ Completed
	▪ Discuss economic development strategy and projected costs with Oversight Board	▪ Working Group	▪ Completed
	▪ Publish promotional plan for upcoming calendar year	▪ IPR	▪ Completed

¹⁶⁷ With Federal approval, the waiver can be renewed every two years

	Required implementation actions		Owner	Deadline
To be completed in FY2022	▪ Develop a value proposition on Puerto Rico's supply chain value for Biden Administration		▪ IPR / DDEC	▪ July 31, 2021
	▪ Connect the local innovation & Entrepreneurship ecosystem to global capital		▪ IPR / Working Groups	▪ July 31, 2021
	▪ Coordinate with PRIDCO to continuously receive updated list of government properties		▪ IPR/PRIDCO	▪ July 31, 2021
	▪ Have 20+ new qualified properties listed on State book		▪ IPR	▪ July 31, 2021
	▪ Support 5G Zone Center of Excellence by completing marketing material and webpage		▪ IPR	▪ July 31, 2021
	▪ Complete marketing material and webpage, including opportunity for companies to sign up		▪ IPR	▪ July 31, 2021
	▪ Conduct business mission in targeted geographies in coordination with strategic partners		▪ IPR / Working Groups	▪ October 31, 2021 –ongoing
	▪ Implement strategy to attract targeted industries beside manufacturing (technology, professional services, finance and insurance, etc.)		▪ IPR / Working Groups	▪ October 31, 2021 –ongoing
	▪ Conduct familiarization tour with select group of investors and C-suite executives		▪ IPR	▪ December 31, 2021
	▪ Develop and execute an outreach program to identify and target prospective transshipment companies		▪ IPR	▪ December 31, 2021
	▪ Develop customized business cases to pitch to companies		▪ IPR	▪ December 31, 2021
	▪ Implementation of strategy to attract manufacturing reshoring to the U.S.		▪ IPR	▪ December 31, 2021
	▪ Develop and execute an outreach program to target companies, including event activations, campaigns and other business development tactics		▪ IPR / Working Groups	▪ December 31, 2021
	▪ Conduct familiarization tour with select group of site selectors and corporate real estate		▪ IPR / Working Groups	▪ December 31, 2021
	▪ Support DDEC and work with key industry stakeholders to help strengthen sector		▪ IPR / DDEC	▪ December 31, 2021
	▪ Have a comprehensive list of real estate assets that IPR can market on web page that represents opportunities across sectors, sizes, and geographies		▪ IPR	▪ December 31, 2021

9.8 Prime tourism attraction efforts for success

To continue Puerto Rico's transformation into a leading Caribbean tourism destination, the Government should expand the mandate and resourcing of Discover Puerto Rico (DPR), the Island's Destination Marketing Organization (DMO). Despite its natural beauty and rich culture, Puerto Rico underperformed as a tourism destination even before the 2017 hurricanes. For example, the Island was ranked 55th in the 2015 *Travel and Tourism Competitiveness Report*—an independent assessment of the strength of the tourism sector in 141 economies conducted by the World Economic Forum.¹⁶⁸ Destinations across the globe have leveraged DMOs to attract visitors, generate economic activity, and create jobs.¹⁶⁹ In Puerto Rico's case, DPR became fully operational in early 2019, when it launched its first promotional campaign and played an important role in driving record tourism performance in 2019. Effective management of on- and off-Island tourism marketing efforts will remain especially critical in the aftermath of the COVID-19 pandemic, which effectively crippled global tourism and the Island's industry and associated sectors (e.g., cruises). The leisure and hospitality industry was one of the hardest hit sectors in Puerto Rico, with 43% of employment lost in April 2020 (approximately 35,000 jobs).¹⁷⁰

COVID-19 has had an enormous impact on global tourism and the Island's tourism sectors. As Puerto Rico looks forward, the Oversight Board is encouraged that, according to third-party travel

¹⁶⁸ The mainland, for comparison, was ranked 6th that same year. See World Economic Forum, *Travel and Tourism Competitiveness Index 2015*, 2015. Puerto Rico has not been participating in this Index after 2015, therefore there are no recent numbers

¹⁶⁹ For example, the Barbadian Tourism Product Authority (TPA), created in 2014, helped increase the travel and tourism sector's direct contribution to Barbados' GDP (5.4% contribution in 2015, 10.3% contribution in 2016) and employment (4.3% contribution in 2015, 9.8% contribution in 2016). The creation of a DMO in New Orleans, LA was linked to higher business activity in other nearby cities as higher tourism demand for flights to New Orleans facilitated economic development in surrounding areas. And, in Chicago, the creation of a DMO helped raise the city's business exposure, resulting in a partnership between the city's DMO and its World Business Chicago (WBC), the city's economic development agency, to promote the city as both a tourist and business destination. As a result, 70% of WBC marketing is conducted via Chicago's DMO; see Oxford Economics, "Destination Promotion: An Engine of Economic Development," 2014

¹⁷⁰ U.S. Bureau of Labor Statistics

data, Puerto Rico had been moving the needle of growth in this sector pre-COVID-19 and that it is starting to recover from the pandemic. The tourism sector's contributions to the economy and Island-wide employment surpassed historic trends in 2019,¹⁷¹ air arrivals and lodging demand reached record levels in 2019,¹⁷² and DPR's media campaign is credited with spurring higher spend and longer hotel stays among visitors.¹⁷³

With a limited budget on the first six months of FY2021, DPR had to cut expenses by 56% by reducing staff from 60 to 45, reducing salaries to top earners and/or cancelling non-essential contracts. However, this did not stop their promotional efforts since they shifted their marketing and sales activities to digital. These efforts resulted in Puerto Rico achieving the highest number of web searches for people considering traveling in the coming months. In the past months, DPR has taken several initiatives to keep Puerto Rico in the top of mind of travelers, such as doing virtual tours of the Island and integrations in programs such as morning talk shows. In addition, they have been preparing for the recovery of the industry by developing a comprehensive rapid recovery plan. However, implementing their recovery plans will be dependent on availability of funds from PRTC and/or additional funding from the CARES Act and CBDG-DR.

9.8.1 DPR in comparison to other U.S. and Caribbean Destination Marketing Offices (DMOs)

DPR has a smaller mandate and lower budget in comparison to other DMOs. In FY2021 DPR has only received 40% or \$6 million of the contracted budget from the PRTC. The typical DMO markets to six distinct segments: visiting individuals and families; groups (e.g., family reunions); Meetings, Incentives, Conferences, and Exhibitions (MICE); events (e.g., major sports tournaments); local residents; and airlines (e.g., purchasing airline ads, subsidizing seats). DPR, however, is only responsible for marketing to individuals, groups, and MICE. PRTC continues to manage event, internal, and airline marketing. DPR also has a smaller budget than other Caribbean destinations —\$25 million (or \$943 per available hotel room) or 60% of the average budget of \$42.1 million (or \$1,485 per room) for Caribbean DMOs.¹⁷⁴

9.8.2 Reform design parameters

The 2021 Fiscal Plan recommends the Government adhere to a set of parameters to enable DPR to capitalize on its early successes and continue leading the Island's emergence as a leading tourist destination. Specifically, DPR should:

- **Work in conjunction with the PRTC in internal tourism, airline, and event marketing** to ensure a uniform and consistent approach and to leverage DPR's expertise and knowledge on research and digital media.
- **Implement passenger component of Air Transit Hub strategy developed by DPR** that capitalizes on the recently-issued Federal DOT waiver. This would involve recruiting a consultant to work with the airlines to align the air transit hub with their business models. DPR also needs funding for marketing the cargo hub to international markets to generate the demand. There is a possibility that additional CBDG-DR funds be assigned to DPR for marketing and promotions that could be used for this purpose.
- **Maximize promotional dollars from funds obtained from the CARES Act and CBDG-DR.** To support DPR's promotional campaign as part of the broader effort to help the Island recover from recent natural disasters, Vivienda has allocated \$7.8 million in CDBG-DR

¹⁷¹ World Travel & Tourism Council, "Puerto Rico: 2019 Annual Research: Key Highlights," 2019.

¹⁷² Aerostar, AirDNA, Discover Puerto Rico, Smith Travel Research. In 2019, Puerto Rico welcomed 5.2 million visitors (2016, the previous record-holder, had only 4.8 million air arrivals). Similarly, lodging demand reach 4.7 million units (in both hotels and independent lodging units), up from 4.6 million units in 2017.

¹⁷³ ADARA Impact, Arrivalist. Visitor exposed to DPR media stayed 4.8 days on average (vs. 4.3) and spent an average of \$217 on lodging per night (vs. \$199).

¹⁷⁴ DPR budget is the established amount on 10-year contract with PRTC, in 2020-21 DPR have not received contracted amount due to lower room tax collected by PTRC. Numbers for other Islands comes from Destinations International.

funding to DPR for digital and broadcast advertising. It must be spent before February 8, 2022. In addition, the Government assigned \$15.8 million from CARES Act for the same purpose to be spent before December 31, 2021. These funds were intended to increase marketing efforts on Puerto Rico to help the Island recover from the hurricanes and the Covid-19 pandemic, but because the PRTC have not been sending the contracted funds for DPR, these funds will be used for regular promotion.

- **Continue to strengthen the DPR brand through all marketing and promotions by maintaining a consistent message on Puerto Rico strengths as a destination.**
- **Implement destination visitor research program** to pivot marketing campaigns according to visitor's preference and to communicate to Government agencies areas of opportunities on infrastructure and services.
- **Implement a Small and Medium Enterprises (PYMEs, by its Spanish acronym) recovery plan to help the industry prepare for reinvigorated tourism after the pandemic.**

9.8.3 Reform targets

DPR's initial performance indicates that the organization can effectively compete with top-ranked Caribbean DMOs and destinations in attracting visitors and growing the Island's tourism sector. Given the COVID-19 pandemic's impact on global tourism, however, no targets were in effect for FY2021.¹⁷⁵ Nevertheless, after massive vaccination in the U.S. and demonstrated interest from travelers to come to Puerto Rico, DMO should work toward achieving the targets below in FY2022:

- -10% vs. pre-COVID in the tourism sector's direct contribution to GNP
- -12% vs. pre-COVID in direct contribution to employment
- -10% vs. pre-COVID average travel receipts per visitor per year
- -14% vs. pre-COVID in tourist visitors per year
- -25% vs. pre-COVID meetings and conventions attracted to the Island¹⁷⁶

To successfully implement investment attraction reform, the Government should accomplish the following action items by their respective deadlines:

¹⁷⁵ Targets are reduced in response to a projected 71% reduction in global air travel in 2020 (relative to 2019) and a 58% reduction in 2021 (also relative to 2019).

¹⁷⁶ Targets are reduced in response to a projected 71% reduction in global air travel in 2020 (relative to 2019) and a 58% reduction in 2021 (also relative to 2019)

EXHIBIT 57: IMPORTANT ACTIONS FOR IMPLEMENTING EFFECTIVE TOURISM ATTRACTION

Action Item	Owner	Deadline
<ul style="list-style-type: none"> Create and share Puerto Rico's Travel and Tourism Competitiveness scorecard with Fortaleza, the Legislature, PRTC, and the Oversight Board 	DPR	Completed
<ul style="list-style-type: none"> Design air hub strategy and share with Oversight Board 	Working Group	Completed
<ul style="list-style-type: none"> Design air hub strategy with Oversight Board 	Working Group	Completed
<ul style="list-style-type: none"> Publish promotional plan for upcoming calendar year 	DPR	Completed
<ul style="list-style-type: none"> Establish air hub working group comprised of DDEC, DPR, IPR, Land Admin, Ports and private sector to design economic development strategy that leverages new USDOT air hub waiver. 	DDEC	July 1, 2021
<ul style="list-style-type: none"> Assure funding for implementation of passenger component of Air Transit Hub 	DPR/DDEC	July 31, 2021
<ul style="list-style-type: none"> Establish and document Strategic marketing plan (to drive demand) for passengers through Air Transit Hub 	DPR	July 31, 2021
<ul style="list-style-type: none"> Participate with PRTC in the development of internal tourism marketing strategy 	DPR/PRTC	July 31, 2021
<ul style="list-style-type: none"> Participate with PRTC in development of airline marketing strategy 	DPR/PRTC	July 31, 2021
<ul style="list-style-type: none"> Implement 1st Phase of Small and Medium Enterprise (PYME) recovery plan 	DPR, Governor	August 31, 2021
<ul style="list-style-type: none"> Implement destination visitor research program 	DPR, PR & Federal Government	October 31, 2021
<ul style="list-style-type: none"> Launch Phase II of (PYME) recovery plan 	DPR	December 31, 2021
<ul style="list-style-type: none"> Secure fully-funded Co-op budget of \$5M, per the law (Act 2017-17) 	DPR	December 31, 2021
<ul style="list-style-type: none"> Implement passenger component of Air Transit Hub project based upon strategy developed by DPR - Launch passenger recruitment 	DPR, DDEC/PRTC	January 31, 2022
<ul style="list-style-type: none"> Launch Phase I of Island wide multimedia content repository collaborator 	DPR	January 31, 2022
<ul style="list-style-type: none"> Generate \$12:1 ROI for overall investment in PYME recovery plan 	DPR	June 30, 2022
<ul style="list-style-type: none"> Launch Phase II of Island wide multimedia content repository 	DPR	June 30, 2022

To be completed in FY2022

Chapter 10. Power sector reform

10.1 Introduction and context for energy reform

Affordable, reliable, safe, and resilient electric power service is essential for Puerto Rico's economic growth and development. It is a fundamental enabler of the people of Puerto Rico's livelihoods, and remains a critical service that needs to be safeguarded, particularly in light of the outsized catastrophic events in 2020 (e.g., January 2020 earthquakes, COVID-19 pandemic). As an important element of household and business activity, electricity is also a critical factor for attracting and maintaining investment in Puerto Rico. Since 1941, the Puerto Rico Electric Power Authority (PREPA) has been responsible for providing electricity to Puerto Rico. PREPA is a public corporation, owned and operated by the Government of Puerto Rico.

PREPA has been encumbered by numerous financial and operational issues. Over the years, PREPA has failed to update rates to cover base operating costs, neglected to invest in modernizing the system, avoided adequately funding the utility's pension system, and underinvested in maintenance and resiliency initiatives for its assets. Furthermore, prior to filing for PROMESA Title III protection, PREPA incurred significant legacy debt obligations, failed to implement a long-term capital improvement program, and made decisions based on short-term political gains (e.g., avoiding modest rate increases), all of which have culminated in consistently poor and unreliable service.

This operating model has created an untenable financial and operational situation for PREPA. Politicized management and volatile fuel prices – exacerbated by declining demand and an economic contraction – have resulted in PREPA's inability to service its debt, and ultimately

resulted in PREPA seeking PROMESA Title III protection in July 2017.¹⁷⁷ For several years prior to filing for PROMESA Title III protection, PREPA lacked access to the capital markets to help fund grid and generation maintenance and modernization investments, further contributing to the poor quality of service experienced by the Island's residents and businesses.

Underinvestment and underdevelopment of the grid, poor maintenance practices, and workforce losses all contributed to an unsatisfactorily performing power sector. Puerto Rico has almost twice as many forced outages as the U.S. industry average.¹⁷⁸ PREPA also significantly underperforms against mainland utilities on multiple reliability and customer service dimensions, as well as safety and operational metrics:

- **The reliability of service provided by PREPA to Puerto Rico's residents and businesses remains well behind industry standards when compared to benchmarks from** the Institute of Electrical and Electronics Engineers (IEEE)¹⁷⁹: For instance, the median performance among the U.S. utilities reporting in the 2020 IEEE Benchmark¹⁸⁰ is a System Average Interruptions Frequency Index (SAIFI) of 1.12 interruptions per year and a System Average Interruptions Duration Index (SAIDI) of 126 minutes per year¹⁸¹. Whereas, for 2019, PREPA reported a SAIFI of 4.6, and a SAIDI of 675 minutes. Outside reviews suggest service reliability may be worse than reported by PREPA. For example, an assessment conducted by LUMA – using the industry standard IEEE methodology – as part of its Front-End Transition responsibilities and submitted to the Puerto Rico Energy Bureau (PREB) reports a SAIFI of 9.8, and a SAIDI of 1,097 minutes for PREPA in 2019.

EXHIBIT 58: RELIABILITY METRICS COMPARED TO PEER GROUP MEDIAN

Metric	PREPA CY 2019	PREPA CY2019 (calculated by LUMA)	IEEE median, 2019 188
System Average Interruption Duration Index (SAIDI) Minutes per year	675	1,097	126
System Average Interruption Frequency Index (SAIFI) Number of interruptions per year	4.6	9.8	1.12

- **Employee Safety incidents are high by utility standards: PREPA's Recordable Incident Rate for 2019 is 8.76 while the Edison Electric Institute (EEI) average rate is 1.78.**¹⁸²
- **Vegetation management issues caused 17% to 28% of service interruptions in 2020, representing an improvement when compared to the 35% to 45% of 2016**¹⁸³. PREPA lacks a comprehensive vegetation management strategy and has historically been slow to spend allocated budget amounts for tree-trimming initiatives¹⁸⁴ During the 2020 fiscal year, PREPA

¹⁷⁷ "Puerto Rico's Power Authority Effectively Files for Bankruptcy", New York Times, 2 July 2017

¹⁷⁸ PREPA reported 417 forced outages during 2020; U.S. Energy Information Administration (EIA), Independent Statistic & Analysis, Major Disturbances and Unusual Occurrences, Year-to-Date 2020

¹⁷⁹ The IEEE is a technical professional organization that develops and publishes standards related to the collection, measurement and calculation of key electrical reliability indices, including System Average Interruption Duration Index (SAIDI) and System Average Interruption Frequency Index (SAIFI). In order to benchmark a utility's performance in SAIDI and SAIFI against that of other utilities, IEEE provides rules on how data can be collected, measured and calculated according to the same standards. Participation is limited to North American electric entities

¹⁸⁰ Based on 2019 data

¹⁸¹ IEEE Benchmark Year 2020 Results for 2019 Data, 2020 Distribution Reliability Group Virtual Meeting

¹⁸² The Edison Electric Institute (EEI) provides comparable benchmarks specific to transmission and distribution operations in the United States. EEI was established in 1933, is an association that represents all U.S. investor-owned electric companies. Its members provide electricity for 220 million Americans, operate in all 50 states and the District of Columbia, and directly employ more than 500,000 workers

¹⁸³ "...[PREPA] describes itself as always playing a catch-up game on maintenance — following outages, instead of improving the fundamental system." Fisher and Horowitz, Expert Report, p 33

¹⁸⁴ PREPA, "Professional & Technical Outsourced Services," B2A YTD-Expenses, Budget to Actual Variance Report for the Second Quarter of Fiscal Year 2021, (data set, February 16, 2021)

only spent 10% of its \$50 million budget for vegetation management. Mainland U.S. utilities, by contrast, typically have operating budgets where vegetation management is one of the largest spend category. More recently, PREPA has shown improvement in this area. As of February 2021, PREPA has obligated 89% of its \$70.5 million budgeted for vegetation management, out of which 20% (\$14 million) has been spent. In terms of miles cleared, as of February 2021, 732 miles out of 2,595 had been cleared, representing approximately 28% of total miles contracted.¹⁸⁵

- Puerto Rico's emissions from electricity generation remain relatively high as compared to the rest of the U.S. due to a high reliance on fossil fuels and the continued use of older and inefficient facilities. This is due to a severe lack of investment into generation assets, low asset reliability, and maintenance of a very high reserve margin.
 - **High reliance on fossil fuels:** Puerto Rico's generation fleet is highly dependent on fossil fuels. In FY2020, over 97% of the Island's electricity was generated using fossil fuels¹⁸⁶. As a comparison, the U.S. national average was approximately 60% for the same period. Fossil fuel generation makes Puerto Rico vulnerable to changes in fuel prices, which can substantially increase generation costs and thus increase electricity prices for its residents.
 - **Lack of capital investments in new generation assets:** Minimal capital investments into generation assets have resulted in an aged and highly unreliable fleet; the average age of PREPA's generation fleet is 41 years¹⁸⁷ compared to the U.S. average of only 18 years.¹⁸⁸ As a result, asset reliability has been poor, and PREPA is often forced to rely on its diesel generators that would otherwise be inactive or retired.¹⁸⁹
 - **Maintenance of a very high reserve margin:** PREPA has historically maintained a very high reserve margin, keeping more than double the capacity needed to serve demand.

Previous Fiscal Plans of the Commonwealth and PREPA have outlined a comprehensive power sector transformation to address PREPA's financial and operational challenges, which have been caused by mismanagement, underinvestment and underdevelopment of the grid, as well as poor operations and maintenance practices. Although the first steps on PREPA's transformation journey, that started over the last 3 years, have already led to increased financial stability, a number of challenges still lie ahead.

10.2 Vision for power sector transformation

Over the next years, the power sector in Puerto Rico must continue its transformation and modernization to support the delivery of reliable, clean, and affordable power. The Commonwealth must continue to implement a comprehensive energy sector reform to enable a successful transformation and unlock the resulting growth from the 2021 Fiscal Plan projections. The successful transformation of Puerto Rico's power sector depends on:

1. **Implementing regulatory reform:** A strong and independent energy sector regulator is essential for injecting certainty and stability into the energy market, promoting much needed investments, and enforcing compliance with the energy sector transformation's objectives. In recent years, the framework of regulatory reform has been approved and an independent

¹⁸⁵ FY2021 Fiscal Plan Initiatives Reporting, January 15, 2021; PREPA's Vegetation Management report, February 2021

¹⁸⁶ "Puerto Rico: Profile Overview." U.S. Energy Information Administration, last modified November 21, 2020

¹⁸⁷ PREPA, *2019 Fiscal Plan*, p 30

¹⁸⁸ US Congress, *Exploring Energy Challenges and Opportunities*, p 4

¹⁸⁹ "A review of PREPA's generation patterns reveals that PREPA, in fact, increased its reliance on the diesel generation fleet in FY2015 and FY2016, doubling its use of distributed generation turbines and tripling its use of the diesel Aguirre CC plant." Fisher and Horowitz, *Expert Report*, 31-32

regulator, the Puerto Rico Energy Bureau (PREB), has been established. The focus in coming years will be continuing to support the independence of the regulator and enabling the regulator to execute on its mandate. This will be accomplished by developing and strengthening the regulatory framework and promoting greater transparency and accountability.

- 2. Transitioning the operation and management of PREPA's electricity grid and generation assets to private operators, while moving the energy system to 100% renewables:** Attracting a private operator to manage and operate Puerto Rico's Transmission and Distribution (T&D) network will improve affordability, operational performance and customer service, support rigorous capital project execution to modernize the system, strengthen grid resilience, and ensure ongoing fiscal balance and control. As such, on June 22, 2020, the transformation of the Island's energy system took another step forward through the execution of the agreement¹⁹⁰ with LUMA Energy, LLC (LUMA). Under the agreement, LUMA is responsible for, among other activities, the operation and maintenance of the transmission and distribution assets and system. On November 10, 2020, the Puerto Rico Public-Private Partnership Authority (P3A) issued a Request for Proposals (RFP) to select one or more private operators for PREPA's existing generation assets. Two of the major tasks that LUMA, as the entity responsible for the Integrated Resource Plan (IRP) implementation, will have to enable and undertake are the transition of the power sector to 100% renewable energy, as mandated by Act-17, as well as the maximization and efficient delivery of federal funds for the modernization of Puerto Rico's energy grid.
- 3. Restructuring legacy debt obligations:** To fund the transformation of Puerto Rico's power sector, PREPA will require access to capital markets. Given the utility's significant legacy debt obligations, a sustainable restructuring plan is necessary for PREPA to exit Title III and regain access to traditional credit markets. Without restructuring, customers will experience higher rates, resulting from repayment of a higher legacy obligation and risk premiums associated with the Title III case. Ultimately, successful restructuring of outstanding bonds and debt obligations will allow PREPA to achieve its transformation goals, thus modernizing Puerto Rico's power grid, and passing on subsequent efficiencies and cost savings to end users.

PREPA's Certified 2021 Fiscal Plan and the energy public policy and legal framework established by the Government of Puerto Rico¹⁹¹ lays out the transformation roadmap. If successfully implemented, a reformed energy system will lead to a modernized and reliable energy service across the Island: a diversified fuel mix and reduced fuel costs, anchored on low-cost renewable energy generation resources; increased operational efficiencies; and a well-funded, financially sustainable utility. These outcomes will benefit the customers and businesses of Puerto Rico through more affordable, reliable, clean, and safe electricity service.

10.2.1 Energy regulatory reform and oversight

As previously stated, the current regulator of the power sector in Puerto Rico is the Puerto Rico Energy Bureau (PREB), which has been operational since its creation by Act 57-2014. PREB has the responsibility to "regulate, monitor, and enforce the energy public policy of the Commonwealth of Puerto Rico."

As Puerto Rico's energy sector is transformed into a vibrant, modern system, PREB will continue to be responsible for the development of a robust regulatory framework that will promote prudent investments by utilities, increase quality of service to customers, and ensure industry trends and technological advancements are appropriately incorporated into Puerto Rico's energy system. To that end, PREB's regulatory oversight will directly impact the utility and have significant influence

¹⁹⁰ This agreement was deemed to be compliant with the Commonwealth's energy policy by PREB on June 17, 2020 and approved by PREPA's Governing Board, the Governor, and the Governor of Puerto Rico on June 22, 2020

¹⁹¹ Puerto Rico Energy System Transformation, Act No. 120-2018; Puerto Rico Energy Policy Act, Act No. 17-2019

on Puerto Rico's energy sector. To fully achieve its purpose, PREB should remain financially independent from the Government and its decisions, and its determinations should be free from any political influence or interference.

To ensure PREB becomes a best-in-class regulator, several structural changes are required, as detailed below. In addition, the following section provides a description of what PREB's roles and responsibilities will be in the long-term as well as the near-term delineation responsibilities between PREB and the Oversight Board.

Long-term mandate, authorities, and expertise for the energy sector regulator

To be effective, PREB's regulatory authority and its mandate to promote an efficient, reliable, resilient, and customer-responsive energy system must be clear and well-established. In a transformed energy system state (after emergence from Title III), PREB's responsibilities include (1) rate setting, (2) Integrated Resource Plan (IRP) approval and compliance oversight, (3) protecting customers, and (4) ensuring workforce safety.

Rate setting for non-legacy debt: PREB should "review and approve and, if applicable, modify the rates or fees charged by electric power service companies in Puerto Rico."¹⁹² In doing so, PREB should ensure rates and rate structure are rational and predictable, minimize risk and "rate shock", and create incentives to support equitability and economic development. PREB should set a clear, transparent, and efficient process for rate cases. All rate adjustments and revisions, other than those approved under the plan of adjustment, must be approved by PREB before enactment. In this capacity, PREB must ensure that necessary operational frameworks are in place to not only provide a robust review process in line with best-in-class U.S. state regulators, but also ensure that rate reviews are conducted efficiently and in a manner that does not adversely impact service performance or consumer confidence.

Over the next years, PREB should encourage the implementation of several core principles within rate case proceedings, including the development of dynamic rate structures (e.g., time of use, rate decoupling, unbundling), evaluating prudence of investments and cost of service, and analyzing the distribution of cost and revenue allocations.

Integrated Resource Plan (IRP) approval and compliance: PREB is mandated to "review and approve policies and strategic plans [...] in connection with energy resources integrated planning in Puerto Rico, and oversee compliance therewith."¹⁹³ During review, PREB should assess related policies and plans on whether they meet the objectives of Puerto Rico's energy public policy and promote energy service reliability, safety, efficiency, and affordability.

Protecting customers and customer service: PREB is responsible for ensuring energy prices are just and reasonable, investments are aimed at improving service quality, and reliability, and customers have access to information regarding their rights and responsibilities. This includes reviewing potential policies, rates, and capital projects for their potential effects on customers and service quality, and ensuring customers understand and have the ability to voice their opinions regarding future decisions. PREB is also responsible for addressing customer complaints and ensuring customers are not subject to unjust or abusive practices by their energy providers.

Ensuring safety: PREB is responsible for ensuring the safe operation of Puerto Rico's utilities for workers and the public. This is particularly important given the high number of safety incidents PREPA has experienced by U.S. utility standards. PREPA experiences significantly higher workplace incidents than the average U.S. utility. From 2018 to 2019, PREPA's recordable Incident Rate fell from 10.7 in 2018 to 8.76 in 2019, yet it was nearly five times higher than the U.S. average of 1.78.¹⁹⁴ PREB should develop a comprehensive safety plan addressing overall

¹⁹² "About the Puerto Rico Energy Bureau" at Puerto Rico Energy Bureau website. Accessed April 20, 2021.

¹⁹³ *Ibid.*

¹⁹⁴ The Edison Electric Institute (EEI) provides comparable benchmarks specific to transmission and distribution operations in the United States

safety culture at regulated entities and ensure that utilities have sufficient resources to comply with these plans. Finally, PREB should establish, track, and analyze key safety performance metrics, and monitor the effectiveness of utility safety programs.

Regulator expertise

To implement its long-term mandate in a robust and effective manner, PREB must build expertise on topics that reflect the core regulatory priorities facing most regulators:

- Generation planning and dispatch
- T&D reliable operations and capital planning
- Workplace safety
- Customer service
- Rate-making

In addition, PREB can build expertise in topics that are increasingly addressed by regulators across the mainland so that Puerto Rico's energy sector is able to match pace with best-in-class utilities. By doing so, PREB can provide proper guidance to sector players on how to secure, modernize, and efficiently operate the grid. These topics include:

- Contribution-in-lieu of taxes (CILT)
- Renewable energy integration (distributed and commercial)
- Weather-related risks (e.g., hurricanes, climate change)

Authorities for the energy sector regulators during transformation

Until PREPA emerges from Title III and the transformation of the energy system is complete, it is important to clearly delineate the role of the Oversight Board and PREB with respect to energy sector regulation. The table below describes the role of each entity during the transition period:

EXHIBIT 59: ROLES OF THE OVERSIGHT BOARD AND PREB DURING THE TRANSITION PERIOD

	Oversight Board	PREB
IRP	Approves revenue requirements and expenditures in the Fiscal Plan for PREPA. PREPA's Fiscal Plan should be informed by the results of the IRP and provide a clear framework for executing the modernization of generation resources.	Approves the IRP. The IRP process shall be open and transparent so that third parties can understand inputs and methodologies behind each scenario and be able to participate and attend hearings to understand the decisions driving approval of the final capital plan and revenue requirement.
Budget and rate-making	Approves a yearly budget for PREPA that aligns with PREPA's Fiscal Plan and thus should align with revenue requirements and expenditures.	Authorize rates, except those approved under a plan of adjustment, (either formulaic or on an expedited manner) which align with the budget as certified by the Oversight Board.
Utility debt	Approves restructuring of existing debt through the Plan of Adjustment for PREPA.	No authority
Liquidity management	Oversees liquidity management in the energy system, to ensure that consistent and quality energy service to customers is not disrupted.	No authority
Title III	As the representative of PREPA in Title III, the Oversight Board has the exclusive right to file a Plan of Adjustment, which will contain any transformation-related agreements.	No authority
Transition to Privately Managed Operations	Approves any operator that engages with PREPA (e.g., T&D and generational operators). After the operators have been installed, the Oversight Board will continue to ensure compliance with PROMESA and the energy sector transformation objectives. The interaction between PREPA, the operators, and the Oversight Board will be determined at a later date.	Issues Energy Compliance Certificate and approves the following: performance metrics, rate orders (when applicable), System Operation Principles, System Remediation Plan, Integrated Resource Plan ("IRP"), among others.
Other	Track PREB's actions around distributed generation, net metering, and CILT to ensure the regulator is providing proper oversight over these critical topics.	Continues to exercise duties and responsibilities (e.g., addressing distributed generation, net metering, and CILT) as outlined in its enabling laws, except when doing so is inconsistent with the powers and authorities delegated to the Oversight Board under PROMESA.

Structural elements to ensure a best-in-class regulatory agency

Although administratively located within the Puerto Rico Public Service Regulatory Board (PSRB), PREB's decision-making process should not be subject to direct or indirect review by other government entities, except for any review under applicable administrative procedure rules or with respect to issues that are covered by a federal statute such as PROMESA. Staff involved in substantive decision-making should be kept separate and independent from the PSRB and be fully dedicated to matters within PREB's jurisdiction and purview. PREB may, on an annual basis, provide funds to the PSRB to cover administrative and other operational costs, however, PREB's resources should be kept separate and shall not be controlled or placed under the direction of the PSRB.

There are five key structural elements that will ensure PREB is a best-in-class regulatory agency:

- **Governance:** It is imperative that PREB's governance structure enable independent, quick and robust decision-making. In line with best practices for regulatory commissions (e.g., California Public Utilities Commission, Hawaii Public Utilities Commission, New York Public Services Commission), PREB is headed by five commissioners who serve staggered six-year terms. The commissioners are appointed based on their technical, professional and/or academic credentials, with potential candidates identified and appointed through a candidate list developed by an external recruitment firm. The commissioners should be supported in their oversight role by professional civil servant staff that has utility expertise.
- **Independent ratepayer advocate:** All commission decisions in adjudicatory proceedings must comply with applicable requirements of administrative procedure. Separate from the regulator, there shall be an independent ratepayer advocate, a role currently filled by the *Oficina Independiente de Protección al Consumidor* (OIPC). OIPC should be well-funded so that it has the resources to meet its responsibilities. Currently, PREB transfers 10% of its

budget to OIPC; as priorities evolve and the need for a robust consumer advocate increases, the Government may – with the approval of the Oversight Board – provide OIPC with additional funding.

- *Employee structure:* Presently, all 23 of PREB's employees are considered trust employees, meaning PREB's organizational structure fails to comply with Act 17, which requires PREB to achieve an employee structure wherein trust employees comprise no more than 25% of employees.¹⁹⁵ Moreover, the 2020 Fiscal Plan required PREB to further reduce this amount to no more than 15% by June 30, 2021 and 10% by June 30, 2022.¹⁹⁶ On November 23, 2020, the Oversight Board partially approved a budget reprogramming request submitted by PREB to fund the creation of 22 civil servant positions and maintain existing 7 trust positions¹⁹⁷. While the structure proposed by PREB would have allowed it to achieve the Act 17 target of no more than 25% trust employees, PREB would still fall short of the 15% trust employee target by June 30, 2021 outlined in the 2020 Certified Fiscal Plan. Accordingly, no later than December 31, 2021, PREB must reduce the number of trust employees to no more than 15% of total employees, with a further reduction to no more than 10% trust employees by June 30, 2022.¹⁹⁸

During and after the energy sector reform process, PREB must have enough staff to effectively undertake its duties and responsibilities in a timely and professional manner. The selection, hiring, and management of PREB's staff must not be subject to review or approval by any other entity of the Executive or Legislative Branch.

- *Budget:* PREB's substantive independence must be supported by financial independence. Under current law, PREB's yearly budget is set at \$20 million and collected through charges assessed on certified energy companies.¹⁹⁹ To provide for a steady and predictable funding source, PREB's enabling act must be amended to provide that PREB's budget shall be funded entirely through rates, as part of the revenue requirement used to determine energy rates. PREB's funds are then collected by the T&D operator through customer bills and periodically remitted to PREB. This funding mechanism is consistent with the mechanisms used to fund peer mainland regulators. Providing for an independent and unencumbered source of income for PREB helps create the conditions to protect ratepayer interests, increase transparency, and reduce system costs. However, the Government has not yet complied with this requirement and has not ensured a steady and predictable source of funding to PREB. Instead, PREB is currently being funded through fees levied on energy companies certified by PREB to provide energy services in Puerto Rico.

While the Oversight Board is in existence it can ensure PREB's budget through its budgetary powers. However, moving forward, PREB's budget and funding must be kept separate and independent from the Commonwealth budget or the budget of any other Commonwealth agency, entity, or instrumentality, and neither the Executive nor the Legislative branches should have authority to modify PREB's budget or reapportion any of PREB's funds without PREB's prior consent. PREB is subject to periodic reviews from relevant authorities for use of public funds, which is consistent with all other Government agencies in Puerto Rico.

- *Transparency:* To achieve best-in-class status as an energy system, transparency is an indispensable factor. PREB must ensure that proactive transparency permeates relevant energy operations, while being diligent in excluding confidential information such as customer data and operational details that would increase cyber or risk vulnerabilities.

¹⁹⁵ "Trust employees" includes any employees that are related to political appointments, non-civil service appointments, etc.

¹⁹⁶ To show that this has been completed, PREB needs to submit an organization chart showing the split of employees (civil servant vs. trust) no later than the end of Q1 of FY2021. However, PREB has not yet complied with this requirement

¹⁹⁷ Approved for remaining 8 months of fiscal year; partially approved medical insurance.

¹⁹⁸ Relevant milestones and deadlines are shown in *Section 10.3*

¹⁹⁹ Amount in line with other jurisdictions; the Hawaii Public Utilities Commission had revenues of \$19 million in FY2017 to serve a population of 1.4 million

Transparency practices may include making information publicly accessible, maintaining quick and efficient decision-making, and holding public events when appropriate in order to consider public opinion. Additionally, PREB must uphold transparency in its own financials and operations, including disclosing how it utilizes its annual budget.

10.2.2 Vision and structure for an energy system operator

As described above, private operators for T&D and generation operations will be responsible for executing Puerto Rico's energy system modernization strategy as well as assisting with the allocation of related federal funding. Each private operator's overall objective will be to improve service quality and deliver reliable service at just and reasonable prices. As such, a private operator will be motivated to deliver financial and operational performance improvements across six dimensions:

- **Reduce costs by introducing experienced personnel.** A private operator would be incentivized to reduce PREPA's dependency on outsourced contracts by insourcing activities, empowering the local labor force, and potentially achieving economies of scale.
- **Upgrade technology.** While PREPA has limited access and experience with industry-standard technology, a private operator would be incentivized to deploy modern grid technologies, digital capabilities, and infrastructure to significantly enhance operational efficiency, thus lowering O&M costs and customer rates over time through better asset utilization.
- **Improve processes and procedures.** Drawing on operational expertise, a private operator would be incentivized to streamline and standardize critical management processes and implement operational efficiencies (e.g., processes such as procurement, contract management, maintenance). A private operator can also leverage experience in customer service to improve PREPA's responsiveness to customer needs and expectations.
- **Limit political interference.** A private operator's decisions would be subject to independent regulatory oversight, but free of political interference. This would lead to the adoption of standard industry practice where experienced utility operators make operational decisions with oversight from an independent regulator (e.g., investment decisions made based on overall benefit to the system, instead of short-term political gains).
- **Effective and efficient capital delivery.** A private operator would be incentivized to establish the tools and processes critical to improving PREPA's capital project management. This will be key to unlocking the federal funding required for grid modernization and generation improvements, which in turn will aid PREPA in strengthening grid resilience and making its generation fleet future proof.
- **Renewable energy generation and transmission.** A private operator would assist with and enable the transition to a clean, reliable, and sustainable energy sector. This shall include renewable energy procurement, renewable energy program management, T&D system modernization, and renewable generation scheduling and dispatch. These efforts are required to meet the goals set up by Act 17, which mandates that Puerto Rico should obtain 40% of its electricity from renewable resources by 2025, 60% by 2040, and 100% by 2050.

Energy Sector Reorganization

To achieve Puerto Rico's energy system transformation, a change in PREPA's historical roles and responsibilities and their reassignment through multiple entities is imperative. The first step in this restructuring process was taken with the enactment of Act 57-2014, which established the Island's energy regulator, PREB. PREB's establishment eliminated PREPA's prior authority to self-regulation and installed those regulatory and oversight responsibilities within PREB. In

Puerto Rico's transformed energy system, those regulatory roles and responsibilities remain at PREB.

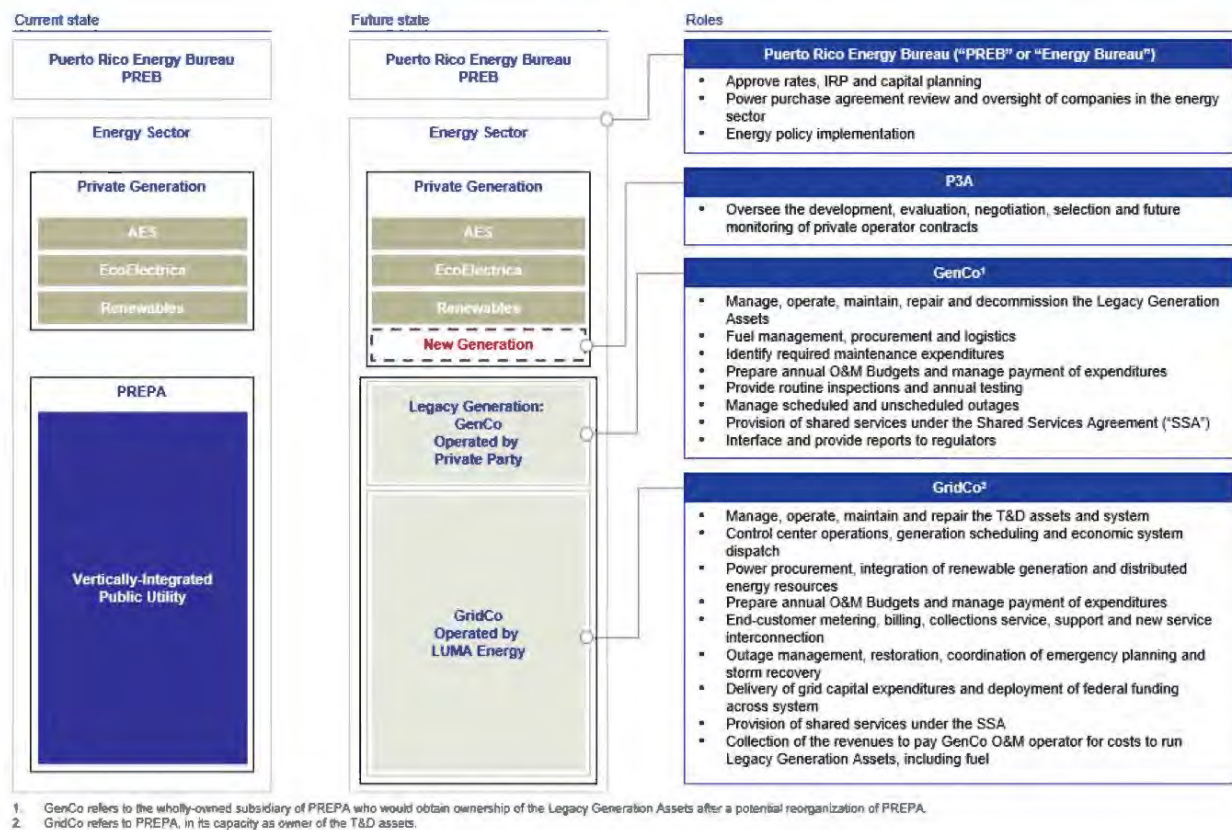
PREPA's Certified 2020 Fiscal Plan required PREPA's vertically integrated operations to be, as mandated by law, disaggregated into Generation and T&D utility functions – GenCo and GridCo, respectively. GridCo (which comprises transmission and distribution, customer service and administrative functions, operated and maintained by LUMA Energy, LLC or “LUMA”) and GenCo (which comprises existing PREPA-owned generation resources that are to be operated and maintained by one or more private operators until their retirement, as mandated by PREPA's approved Integrated Resource Plan).²⁰⁰ Besides the selection of LUMA as the T&D operator, the Island's transformed energy sector also envisions GenCo being responsible for, among other activities, the operation and maintenance of existing PREPA-owned generation resources, environmental compliance, safety and plant retirement and decommissioning. Additionally, GenCo will be responsible for working closely with LUMA to ensure appropriate short-, mid- and long-term system planning and timely and efficient execution of system-wide capital improvements.

Finally, PREPA's existing day-to-day roles and responsibilities over the operation of the energy system, deployment of federally and non-federally funded capital investments, short medium, and long-term system planning and energy sector oversight are expected to be reduced over time as such roles and responsibilities are taken up by the relevant Government agencies and private operators.²⁰¹

²⁰⁰ See Section 1.8 of the Puerto Rico Energy Public Policy Act; Act 17-2019

²⁰¹ See Section 1.7 of Act 17-2019, which states that “the Government of Puerto Rico, by itself or through the Authority or another public corporation affiliated to the Authority, shall maintain ownership of the transmission and distribution assets and may maintain ownership of the legacy power generation assets.” See Section 1.8(b) of Act 17-2019 which also provides that PREPA shall only “retain personnel as are necessary to fulfill its responsibility as a Partnering Government Entity, as such term is defined in Act No. 29-2009, of assisting the Public-Private Partnership Authority in overseeing the Contractor's performance of the Partnership Contract and compliance with the performance-based metrics set forth therein.” Pursuant to the LUMA agreement, PREPA delegated any duties with respect to overseeing LUMA's performance to the P3A

EXHIBIT 60: ENERGY SECTOR TRANSFORMATION – CURRENT AND FUTURE STATE



System modernization

In September 2017, Puerto Rico's electric system was completely devastated by the landfall of Hurricanes Irma and María, resulting in the longest electrical blackout in modern U.S. history. In efforts to mitigate the economic, fiscal, and social impacts of future storms, FEMA and the Government agreed to a fixed cost estimate of \$10.7 billion to repair the electricity system in Puerto Rico (see *Exhibit 61* below). Of those \$10.7 billion, \$9.7 billion would be provided by FEMA, with the remaining \$1 billion to be covered by PREPA through own funds and/or available CDBG funding.

EXHIBIT 61: PREPA ASSET CATEGORIES AND COST ESTIMATES

Asset category	Eligible cost, \$
Building Assets	125,088,362.54
Transmission Assets	2,642,131,654.47
Substation Assets	781,890,093.70
Telecommunications and IT	685,928,720.98
Generation Assets	108,927,715.08
Distribution Assets	5,499,837,404.90
Water Assets	860,926,275.87
Total Eligible Costs from FEMA	10,704,730,227.54


Transmission & Distribution Modernization


Approximately \$8.1 billion (76%) in FEMA reconstruction funds are destined for Transmission & Distribution Assets²⁰², which include thousands of miles of transmission and distribution lines. The remaining 24% is destined to Hydro Assets \$860 million (9%)²⁰³ Substation Assets \$782 million (7%)²⁰⁴, Telecommunications Assets \$686 million (6%)²⁰⁵, Building Assets \$125 million (1%)²⁰⁶, and Generation Assets \$108 million (1%).²⁰⁷ After the transition to LUMA has been completed, LUMA will be responsible for implementing the modernization of the T&D system.

Generation Assets Modernization

As directed by the PREB, and as required under Act-57, PREPA prepared an IRP intended to consider all reasonable resources to satisfy the demand for electrical services over a twenty-year planning horizon. The IRP as well as Act 82-2010, as amended by Act 17, directs PREPA to procure Renewable Energy Resources in accordance with the following milestones relative to the aggregate percentage of generation supplying its system: 20% by 2022, 40% by 2025, 60% by 2040 and 100% by 2050. On February 22, 2021, PREPA released RFP No. 112648 for the procurement of 1,000 MW of renewable energy resources capacity and 500 MW of energy storage resource capacity. This marks an important first step for Puerto Rico and its journey towards delivering clean, sustainable, and reliable energy and will accelerate the deployment of renewable generation sources. This RFP represents the first of six RFPs to procure a total of 3,750 MW renewable energy resources and 1,500 MW of energy storage resources during the next 3 years. Already, on February 26, 2021, the Oversight Board approved two (2) PPOAs to deliver 150MW out of the 1000 MW, to further accelerate the transition towards renewable resources.

EXHIBIT 62: YEARLY INCREMENTAL RENEWABLE GENERATION CAPACITY PROCURED AND ADDED BASED ON PREB'S GUIDANCE

 Completed

PREB guidance for procurement of renewable generation and battery storage capacity					
RFP target release date	Solar PV or equivalent other energy, MW		4-hr. battery storage equivalent, MW		Tranche
	Minimum	Cumulative	Minimum	Cumulative	
Feb. 2021 ¹	1,000	1,000	500	500	1 
Jun. 2021	500	1,500	250	750	2
Dec. 2021	500	2,000	250	1,000	3
Jun. 2022	500	2,500	250	1,250	4
Dec. 2022	500	3,000	125	1,375	5
Jun. 2023	750	3,750	125	1,500	6

¹ Original date was Dec. 2020 but has been updated to reflect the current review process (RFP 112648 was released on February 22, 2021)
SOURCE: PREB

202 Transmission and Distribution assets include the following: approximately 2,491 circuit miles of overhead transmission lines, 37 miles of underground 115kV cable, 63 miles of underground 38kV cable, 22.59 miles of submarine 38kV cable to the islands of Vieques y Culebra, 708 access roads, 1,229 distribution feeders including 182,985 transformers and 16,800 miles of overhead and underground line, 342,569 each of Streetlights with an estimate of total population of 489,385 streetlights Island-wide, Poles and power line hardware

203 The Water Assets consist of Hydroelectric Plants, Dams, Irrigation Channels, and Water Conveyance infrastructure

204 Substation Assets include 392 substations and Transmission Centers located in 292 facilities

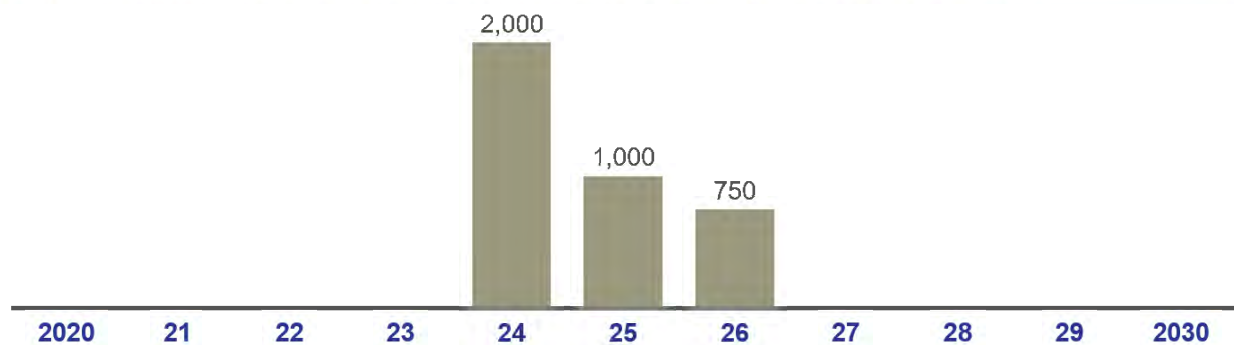
205 Telecommunication Assets consist of telecom facilities, communication hardware, software, information technology (IT) and other peripheral elements

206 Building Assets consist of 134 buildings throughout seven regional sectors on the Island

207 The Generation Assets consist of 12 power plants that generate electricity through fossil fuel. Nine power plants are included in this claim: Cambalache, Aguirre, Palo Seco, San Juan, Yabucoa, Mayaguez, Vega Baja, Dagua, and Jobos

EXHIBIT 63: PROJECTED INSTALLATION TIMELINE OF THE RENEWABLE GENERATION CAPACITY ORDERED BY PREB

Projected installation timeline of the renewable generation capacity ordered by PREB, in MW



¹ Assumes RFP process takes two months, the PPOA finalization process takes one month, construction begins eight months after the PPCA approval, and commercial operations begin 24 months after construction begins.

Role of operators

PREPA's existing operations will be split into GridCo (comprising T&D and customer service functions) and GenCo (comprising PREPA's existing generation assets). GridCo and GenCo are to be privately operated by professional entities selected through a competitive process under the supervision of the P3A. LUMA has been selected and has entered into an agreement to manage GridCo, while the process for identifying one or more operators for GenCo is currently underway. As mentioned before, the transition to private, professional operators is expected to improve quality of services, bring cutting-edge knowledge and expertise, improved efficiency, ensure compliance with applicable laws, and promote long-term sustainable planning, among others.

In order to achieve a reliable and modern energy system, PREPA must maintain the minimum levels of working capital needed to ensure all necessary and approved operational and capital investment expenditures are made on time. To that end, PREPA must create and fund various operational reserve accounts to be used by PREPA, LUMA and any additional private operators to fund the day-to-day operations of the energy system, ensure capital availability for maintenance and improvement projects, including FEMA-funded projects, and safeguard the financial sustainability of the system.

Specifically, no later than 10 business days prior to June 1, 2021, PREPA shall establish and fund one or more such operational reserve accounts, which accounts shall be consistent with the requirements in the LUMA Energy operations and maintenance agreement (OMA). PREPA and/or the Government must deposit in such accounts a total sum of approximately \$1.0 billion, of which a substantial portion of approximately \$500 to 750 million shall be funded through an equity contribution from the Commonwealth and the remaining \$250 to 500 million shall be funded from PREPA's existing cash reserves. The funding deposited in these accounts shall be used exclusively for the maintenance and operation of the transmission and distribution system and the execution of capital improvement projects, including FEMA-funded projects, as such functions are described and contemplated in the LUMA Energy OMA.

Transmission & Distribution

On June 22, 2020, the P3A, PREPA and LUMA signed a 15-year OMA for the T&D system. Under the OMA, LUMA is responsible for, among other activities, the operation and maintenance of the transmission and distribution assets and system, control center operations, generation scheduling and dispatch, power procurement and integration of renewable generation and distributed energy resources, customer metering, billing and collections, regulatory and environmental compliance

delivery of grid-related capital expenditures and deployment of federal funding across the system. Full transfer of O&M responsibilities to LUMA is expected to take place by June 1, 2021.

Under the OMA with LUMA, LUMA shall interview and hire qualified PREPA employees, and shall grant priority to PREPA employees over other, equally qualified, candidates. Existing PREPA employees who are not selected by LUMA, may be eligible to continue employment at PREPA's generation operations (to the extent consistent with PREPA's 2021 Fiscal Plan and Budget and until such operations are transferred to one or more private operators), may be eligible to transfer to another Commonwealth entity (to the extent consistent with applicable law, the 2021 Fiscal Plan and Budgets for the Commonwealth or any other covered instrumentality to which such employees may transfer) or may be eligible to participate in an early retirement program (to the extent such program is developed and implemented by PREPA in a manner consistent with the PREPA 2021 Fiscal Plan).

Generation

On November 10, 2020, the P3A launched an RFP to select one or more private operators for PREPA's existing generation assets. The selected proponent(s) will be responsible for the operation and maintenance of existing generation assets until those assets are retired and decommissioned in accordance with PREB-approved integrated resource plan (IRP). Additionally, the selected proponent(s) will be responsible for, among others, environmental compliance and safety, and fuel management. Currently, the P3A is expected to select the winning proponent(s) by August 2021 with full transfer of O&M responsibilities by the last quarter of the year.

EXHIBIT 64: CURRENT PREPA STRUCTURE

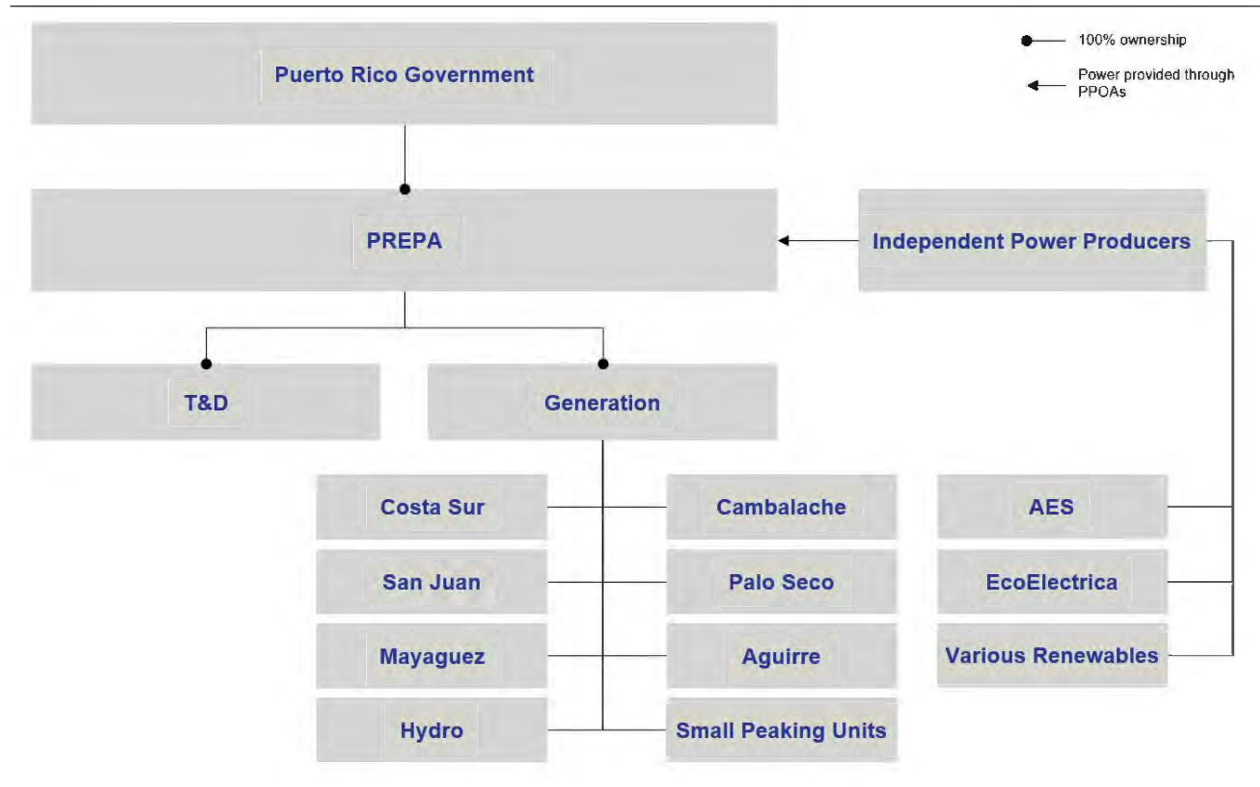
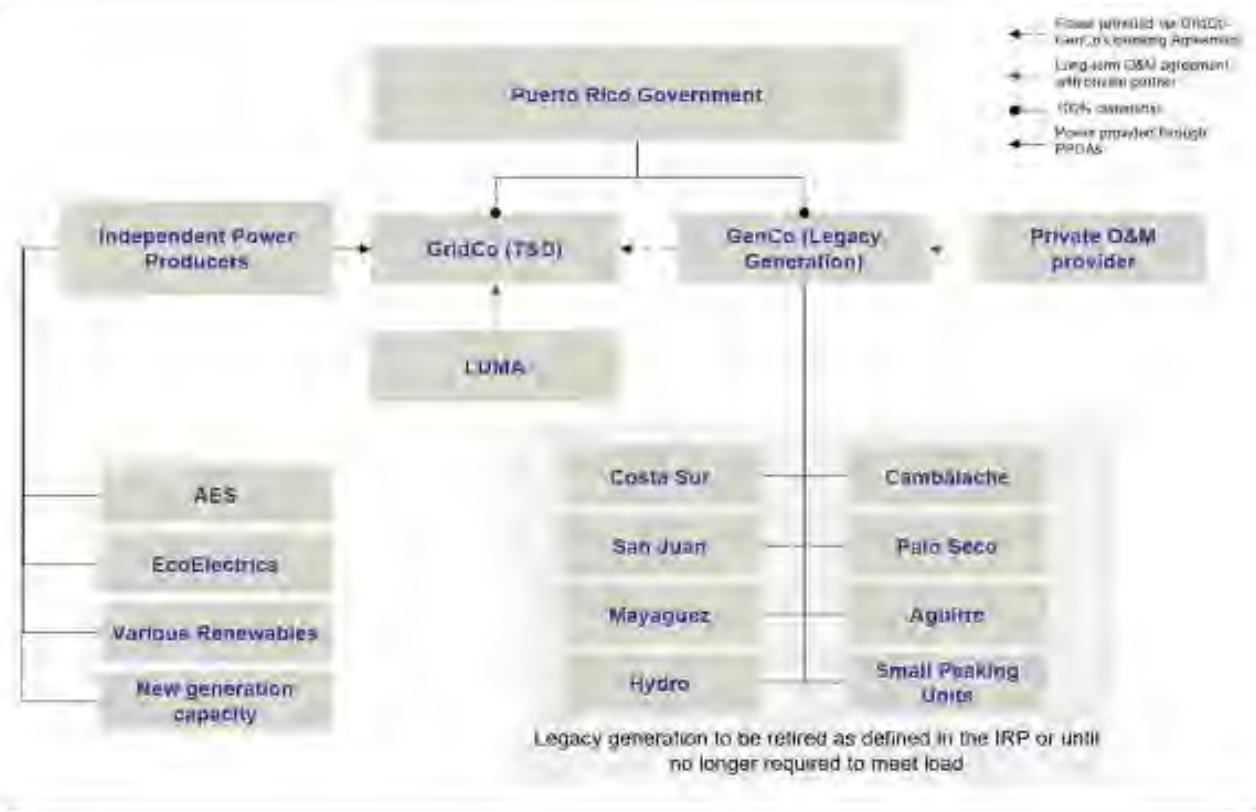


EXHIBIT 65: FUTURE PREPA STRUCTURE



Oversight

During the transformation of Puerto Rico's energy system²⁰⁸, i.e., while PREPA remains a covered instrumentality under PROMESA and until PREPA emerges from Title III, PREB will share responsibility for the regulation of the energy sector with the Oversight Board. During this time, the Oversight Board will have authority to approve revenue requirements and expenditures in PREPA's 2021 Fiscal Plan, which should be informed by PREPA's IRP. Additionally, the Oversight Board has the authority to approve a yearly budget and restructure PREPA's existing debt through a Plan of Adjustment and oversee liquidity management. PREB, in turn, will have authority to approve PREPA's IRP, authorize rates that align with PREPA's budget, and will continue to exercise its duties and responsibilities as outlined in its enabling laws, i.e., Act 57-2014 (e.g., addressing net metering, distributed generation, and CILT). Related to the transition of the T&D system and generation to private operators, PREB has the authority to approve performance metrics, rate orders (when applicable), System Operations Principles, the System Remediation Plan, as well as the IRP developed by the private operator. At the same time, the Oversight Board approved any private operator that engages with PREPA, and – after the operator has been installed – ensures compliance with PROMESA and the energy sector transformation objectives.

Once the transformation has been completed and PREPA has emerged from Title III, oversight responsibility in Puerto Rico's transformed energy system lies with PREB and the P3A.²⁰⁹ PREB retains its roles and responsibilities under Act 57-2014, which include approving of energy rates, integrated resource planning (IRP), capital planning, reviewing of proposed power purchase

²⁰⁸ Stated above in this section

²⁰⁹ The Oversight Board will also retain its power and duties under PROMESA with respect to PREPA as long as PREPA is a covered territorial instrumentality

agreements and oversight of companies in the energy sector, and the implementation of the Commonwealth's energy policy.

On the other hand, the P3A, as Administrator, is responsible for overseeing the development, evaluation, negotiation, selection and future monitoring of private operator contracts. To fully comply with their mandate, the P3A must build up its capabilities in order to assume their role in the transformation process of the energy system. As such, the P3A must develop a plan to develop the organizational structure needed to act as Administrator, build its resources, including the hiring of professional, experienced civil servants, with an aim at reducing trust positions within the Administrator division of the P3A to no more than 10%. Further detail on the timeline for achieving this organizational build-up is provided in *Exhibit 67*.

Energy sector debt restructuring

As of May 2017, PREPA had \$9.25 billion of outstanding bond and other debt obligations, and an unsustainable repayment schedule; PREPA would have had to repay approximately \$4.5 billion of debt service obligations between FY2019 and FY2023. PREPA's unsustainable capital structure reflects persistent operating deficits, resulting from overly low base rates and high operating costs. As long as PREPA remains in bankruptcy, it poses a risk to suppliers and partners, potentially increasing costs and delaying progress in rebuilding after major catastrophic events (e.g., hurricanes, earthquakes, COVID-19).

To restructure PREPA's debt, a debt restructuring agreement among a group of PREPA creditors, the Oversight Board, the Government, and PREPA is in progress. However, as a result of the uncertain and unpredictable effects of COVID-19 on PREPA and its customers, the Oversight Board requested additional time from the court to assess the situation. PREPA's Restructuring Support Agreement remains in effect and has not been terminated by the Oversight Board, the Government, PREPA, or PREPA's creditors.

10.3 Implementation and enforcement of power sector reform

To achieve 2021 Fiscal Plan savings projections, several reforms to the power sector must be implemented immediately. Several of those measures recommended in earlier Fiscal Plans already have been completed and are listed in *Exhibit 66*.

EXHIBIT 66: COMPLETED MILESTONES FOR POWER SECTOR REFORM

Area of focus	Action item	Responsible party	Completed
Implement regulatory reform	Provide interim feedback on PREPA's Integrated Resource Plan (IRP)	PREB	Completed
	Remove CW government approval needed for PREB staff appointments	CW government	Completed
	Revise charter legislation to provide dedicated funding for power sector regulation that provides regulator with annual budget of \$20 million in line with benchmark	CW government	Completed ¹
	Appoint the remaining PREB commissioner to serve staggered six-year terms	PREB	Completed
	Increase number of PREB staff in line with appropriate benchmarks	PREB	Completed
	Approve IRP	PREB	Completed
Transition to private operators	Perform market sounding to collect feedback on interests and concerns from interested parties for generation asset privatization	P3 Authority / Oversight Board	Completed
	Select a winning proponent to manage and operate PREPA's T&D system	P3 Authority	Completed
	Prepare for and launch RFQ for the selection of a proponent for PREPA's generation assets	P3 Authority	Completed
	Prepare for and launch RFP for the selection of a proponent for PREPA's generation assets	P3 Authority	Completed

¹ Partially completed. Legislation was adopted (Act No. 17), providing \$20 million in funding. However, the funding was not from a dedicated source, PREB will need to confirm completion in the near future.

Exhibit 67 describes the additional reforms required to ensure the transformation of the electricity sector and compliance with the 2021 Fiscal Plan, and to meet the 2021 Fiscal Plan growth and revenue targets. Several of these reforms were outlined in the June 2019 PREPA Fiscal Plan and remain incomplete (demarcated with *).

EXHIBIT 67: PENDING MILESTONES FOR POWER SECTOR REFORM

Area of focus	Action item	Responsible party	Deadline
Implement regulatory reform	Create an oversight and monitoring division for LUMA operation and management agreement and other P3A deals, with experienced career civil servants and minimal trust employees	P3 Authority	June 1, 2021
	Provide FOMB with staffing plan and organizational chart outlining the monitoring and compliance division created within P3A and required funding sources.	P3 Authority/ AAFAP/ Legislature	June 1, 2021
	Amend PREB enabling act (Act 57-2014) to stipulate that PREB's budget will be funded through rates	Governor/ Legislature	December 31, 2021
	Submit implementation plan for achieving a workforce with no more than 10% trust employees.	PREB	June 30, 2021
	Reduce the percentage of trust employees to 15% of total employees	PREB	June 30, 2021
	Reduce the percentage of trust employees to 10% of total employees	PREB	June 30, 2022
	Conclude and publish a study regarding an optimal CILT structure and submit a recommendation to the Governor and the Legislature.*	PREB	September 1, 2021 ¹
	Develop a CILT process by which municipalities pay for electricity consumption not covered by CILT, and are able to file complaints related to CILT*	PREB	December 1, 2021
Transition to private operators	Select a winning proponent to manage and operate PREPA's existing generation assets	P3 Authority	First half of FY22
	Implement approved IRP and grid modernization plan to ensure a modernized, resilient, and reliable grid	PREPA	In process
Restructure legacy debt obligations	Confirm Title III plan of adjustment	FOMB	To be determined
	Implement PREPA plan of adjustment	PREPA	To be determined

* Milestones also recommended in June 2019 Fiscal Plan

¹ This is revised from the original deadline in Act 17-2019, which stipulates that, "in view of this new model for an Electrical System, on or before December 31, 2019, the Energy Bureau shall conduct a study on the implementation, effectiveness, cost-benefit, reasonableness, and economic impact of the contribution in lieu of taxes (CILT) to determine the need and convenience, if any, of reforming this mechanism and the subsidies."

Chapter 11. Infrastructure reform

The transportation sector is essential for both economic and social development with transportation systems playing a critical role in facilitating the movement of goods and people. A well-performing system can increase workers' access to jobs and businesses' access to customers, unlocking the productive potential of residents and firms, thereby increasing economic output and inviting further private investment. Meanwhile, a poorly performing system can mire its residents in wasted time, inequitable access to jobs and opportunities, fractured communities, and productivity losses, as can be observed in Puerto Rico.

Puerto Rico's transportation sector underperforms across a range of outcomes. Roads in Puerto Rico are crowded and unsafe, resulting in 80% more traffic-related fatalities than the U.S. average.²¹⁰ Among U.S. cities, San Juan has the seventh-longest average commute at 31.2 minutes.²¹¹ Drivers lose 58 hours each year in traffic²¹² at a cost of \$1,274 per driver and \$400 million to the city.²¹³ Puerto Rico's roads suffer from poor conditions—only 4% of the Island's non-interstate highways are in good condition, compared to the U.S. median of 57%.²¹⁴ Furthermore, in 2020 the Highways and Transportation Authority (HTA) reported to FHWA that 12% of Puerto Rico's lane miles are in "poor" condition, thus exceeding the maximum of 5% of

²¹⁰ "Highway Statistics 2019." Office of Highway Policy Information of the U.S. Department of Transportation Federal Highway Administration. Last updated September 30, 2020

²¹¹ "150 Best Places to Live in the U.S. in 2020-21." U.S. News and World Report. Accessed 21 April 2021

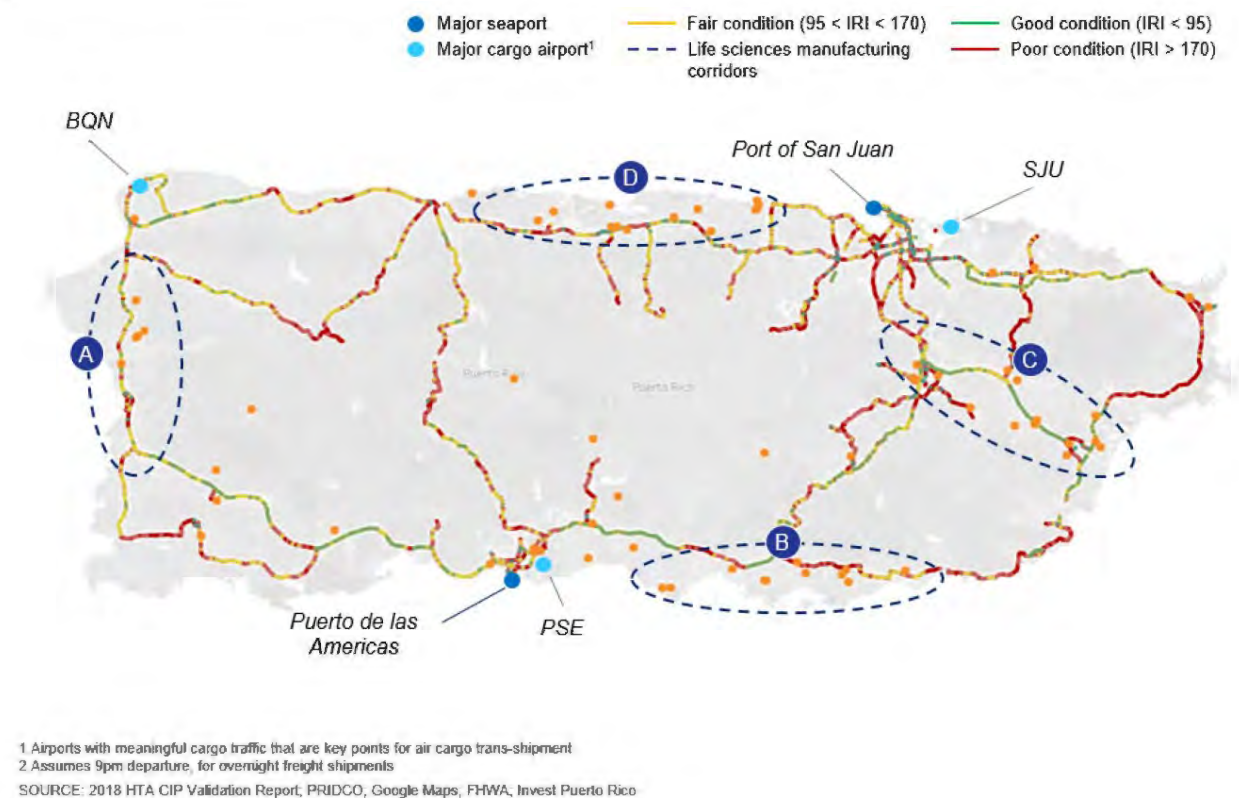
²¹² "2019 Urban Mobility Report." The Texas A&M Transportation Institute. August 2019

²¹³ Costs include lost productivity, increased freight movements costs, higher operating costs and decreased reliability. For more information, see "Revised Departmental Guidance on Valuation of Travel Time in Economic Analysis." Memo from Acting Assistant Secretary of Transportation Policy Vinn White to Secretarial Officers and Modal Administrators, September 27, 2016

²¹⁴ Ibid "Highway Statistics 2019"

lane miles in “poor” state for pavement conditions on the Interstate System²¹⁵ as required by federal law.²¹⁶ As a result, for a second consecutive year, FHWA imposed a penalty and constraints on some portion of its federal allocated funds.²¹⁷ Moreover, the road safety and congestion are not the only challenges faced by the transit sector.

EXHIBIT 68: POOR ROAD SURFACE CONDITIONS MAKE IT DIFFICULT FOR LIFE SCIENCES MANUFACTURERS TO MOVE THEIR GOODS TO MARKET



The financial performance and sustainability of the transit sector also lags mainland peers. Tren Urbano’s (TU) transit farebox recovery ratio (share of expenses covered by fare revenues) is only 9%, compared to 26% for peer U.S. systems.²¹⁸ The percent of non-fare directly generated public transit revenue (as a percent of total transit revenue) in Puerto Rico is about half of the U.S. median.²¹⁹ Construction of TU took 75% longer than expected, delaying its opening by four years, and increasing project costs from \$1.5 billion to \$2.3 billion. A 2017 assessment after Hurricanes Irma and Maria found that more than 50% of the turnstiles (barriers) were not operational, 20% of the ticket vending machines were defective and non-compliant with Payment Card Industry Standards and used outdated software. TU has failed to fix these problems, despite federal funding being available to do so since 2012.

The ferry service is yet another example of suboptimal performance. For months, the Maritime Transportation Authority (ATM, by its Spanish acronym) has operated with two (2) or fewer of its fourteen (14) ferry boats to meet its service demand due to frequent breakdowns and, for several

²¹⁵ As defined by 23 USC 103(c)

²¹⁶ 23 USC 119(f)(1) and 23 CFR 490.315

²¹⁷ In a letter dated September 30, 2020, FHWA informed HTA the determination regarding pavement conditions in the Interstate System. After analyzing the 2019 Interstate System pavement condition data reported by HTA on the Highway Monitoring System, FHWA determined that (1) HTA did not meet the minimum level requirements for pavement condition on the Interstate System as required in 23 USC 119(f)(1) and 23 CFR 490.315 and (2) penalty under the provisions of the Interstate System Condition (23 USC 119 (f)(1) must be invoked pursuant to 23 CFR 490.317. As a result, HTA will have constraints on some portion of its allocated funds as per 23 CFR 490.31(e)

²¹⁸ “2019 data tables.” United States Department of Transportation Federal Transit Administration. Accessed April 21, 2021

²¹⁹ “2019 funding sources.” United States Department of Transportation Federal Transit Administration. Accessed April 21, 2021

years, has relied on leased ferry boats to supply services, thereby limiting its ability to invest in its ferry assets, worsening their condition and further forcing ATM to continue to rely on leased ferries. The Desirability and Convenience Study for the Puerto Rico Maritime Transportation Services PPP further highlights the issues concerning the ferry service. Chief among the challenges is the current state of facilities and vessels, which are in operation beyond their expected service life. Consequently, ferry services are subject to frequent cancellations and delays and increasing maintenance costs, forcing ATM to defer much needed maintenance for its vessels and facilities. The result is an unpredictable and unreliable ferry service that too often leaves the residents of Vieques and Culebra without access to basic goods and services (including access to medical services, given Vieques lacks on-Island hospital facilities), and prevents the Islands from realizing their full potential as world-class tourism destinations.

Given the complexity of managing an entire island's transportation infrastructure cost-effectively, the Government should implement a cohesive policy for the transportation system. The task at hand will result in a total reorganization of Puerto Rico's transportation infrastructure. Such effort would mainly revolve around the following key initiatives:

- 1. Restructuring transportation capabilities and organizational structures by allocating transportation assets into entities based on type of asset and/or transportation service (e.g., toll roads, non-toll roads, mass transit)** to achieve efficiencies in operational expenses and capital delivery while also paving the way for closer collaboration between different transportation entities
- 2. Creating an overreaching Transportation Policy Board** to ensure consistency in long-term planning strategies and priorities across all transportation assets management
- 3. Improving performance management** through the integration in public systems, performance-based contracts, better supervision, and leveraging private sector capabilities
- 4. Maximizing available funds through a more aggressive federal grants strategy and attracting private capital**

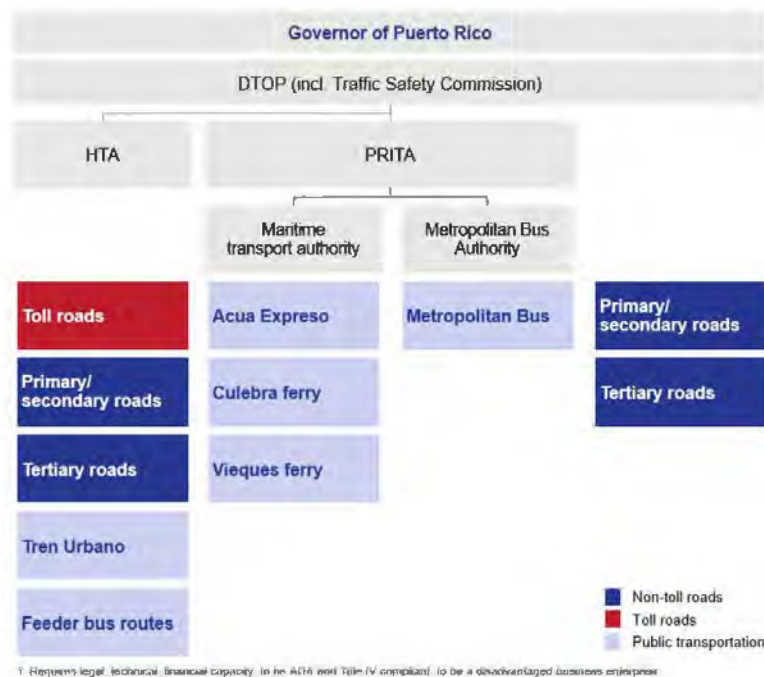
11.1 Current structure of Puerto Rico's transportation system

Individual modes of transportation with overlapping and fragmented ownership

The transportation system falls under the organizational structure of the Department of Transportation and Public Works (DTOP, by its Spanish acronym), which includes the Highways and Transportation Authority (HTA) and the Integrated Transit Authority (PRITA). PRITA is further divided into ATM and the Metropolitan Bus Authority (AMA, by its Spanish acronym).

Currently, asset ownership is fragmented across Puerto Rico's transportation entities. Non-tolled roads are split between HTA and DTOP. Bus routes are divided between HTA and AMA. The urban transit line sits within the highway authority (HTA), rather than the dedicated transit authority (PRITA).

EXHIBIT 69: CURRENT ALIGNMENT OF TRANSPORTATION ASSETS TYPES TO ENTITIES



Fragmentation across transportation modes inhibits efficient management of the transportation system by complicating budget distribution, priority-setting, and decision making. For instance, even though DTOP is responsible for ~96% of the road system's maintenance (excluding toll roads), HTA often performs such maintenance. HTA's operational and project delivery capacity is further strained due to also being responsible for over ~95% of the road system's construction projects (including toll roads). This mix of both tolled and non-tolled roads leaves HTA with limited resources to concentrate on the operation and maintenance of the toll roads and with a mix of private revenue streams (e.g., tolls and fines) and public funds (e.g., transfers from the Commonwealth) that complicates decision making concerning transportation public policy setting and implementation. As an example, HTA has not adjusted toll rates since 2005, despite increases in both congestion and inflation, toll roads have not been the subject of focused capital investments, and non-toll roads suffer from a backlog of maintenance projects such as toll fare adjustments and toll road capital projects.²²⁰ Furthermore, HTA is the federal grantee for PRITA, ATM, TU, and feeder bus routes, while AMA is its own FTA grantee.

The fragmented ownership of transit assets inhibits cross-modal coordination: TU, AMA, and the feeder bus networks do not have harmonized schedules that enable easy and efficient transfers between modes. This creates a negative user experience for riders and encourages commuters to travel via private vehicle rather than public transit, which in turn worsens the financial performance of transit systems and increases road congestion.²²¹ Puerto Rico, furthermore, receives about 90% of the federal funding for roads that could be expected based on its population size.²²² Despite this, agencies struggle to spend all the money available to them due to difficulties executing the backlog of projects.

²²⁰ In other states, by contrast, toll roads and non-toll roads are managed by independent, apolitical public entities (e.g., Florida Turnpike Enterprise, New Jersey Turnpike Authority) that can focus on maintaining their own financial sustainability

²²¹ Many U.S. cities, by contrast, have integrated transit authorities so all transit assets across modes coordinate schedules and payment methods, ensuring a seamless experience for customers and efficiency in delivering services. For example, Portland's TriMet system operates bus, light rail, heavy rail, and streetcar services under one network with a single payment system and harmonized schedules

²²² "Revenues Used By States For State-Administered Highways – 2018." Office of Highway and Policy Information of the United States Department of Transportation Federal Transit Administration. Last updated January 2020

EXHIBIT 70: TRANSPORTATION ASSET DISTRIBUTION ACROSS PUBLIC ENTITIES

	Assets	Managed by
HTA Toll Roads	<ul style="list-style-type: none"> 4 tollways: PR-53, 52, 66, 20 704 lane miles 	<ul style="list-style-type: none"> HTA responsible for construction, maintenance, and operations
Non-Toll Roads & Bridges	<ul style="list-style-type: none"> Primary: 3,005 lane miles <ul style="list-style-type: none"> Urban: 954 lane miles Non-urban: 2,051 lane miles Secondary: 2,304 lane miles Tertiary: 6,344 lane miles 	<ul style="list-style-type: none"> HTA manages a subset of primary, secondary, and tertiary roads, and is responsible for: <ul style="list-style-type: none"> Operation & maintenance of 753 lane miles Construction of 11,299 lane miles DTOP owns a subset of roads, but is only responsible for: <ul style="list-style-type: none"> Operation & maintenance of 10,547 lane miles Concessionaires are responsible for the construction, operation & maintenance of the remaining roads: <ul style="list-style-type: none"> Abertis manages 9 lane miles Metropistas manages 344 lane miles
Rail	<ul style="list-style-type: none"> Tren Urbano 	<ul style="list-style-type: none"> HTA, which was supposed to transfer the administration of this asset to PRITA, but the process stalled
Bus	<ul style="list-style-type: none"> 3 HTA feeder bus lines San Juan bus systems (30 routes) 	<ul style="list-style-type: none"> HTA manages the 3 Tren Urbano feeder bus lines. HTA was supposed to transfer to PRITA, but the process stalled AMA used to administer the San Juan bus system. However, it has recently transferred it to PRITA
Ferry	<ul style="list-style-type: none"> AcuaExpreso (San Juan) Culebra and Vieques (Fajardo) 	<ul style="list-style-type: none"> In process of transfer from MTA (Maritime Transportation Authority) to ATI/PRITA
Ports and airports	<ul style="list-style-type: none"> 9 ports 10 airports 	<ul style="list-style-type: none"> Port Authority manages both airports and ports (SJU is outsourced to Aerostar)

1 DTOP, Puerto Rico 2040 Island-wide Long Range Transportation Plan, 2013. Estimated ownership of system using HTA provided km-in by functional road class.

Historically, Puerto Rico has not maximized its funding potential

Currently, AMA has federal grantee status. Meanwhile, PRITA is a subgrantee to the Puerto Rico Ports Authority (PRPA) and HTA. This scenario is far from ideal for PRITA to carry out its mission to operate and invest in Puerto Rico's bus, ferry, and rail transportation services. Furthermore, the proportional allocation of federal funds to transportation is a separate challenge itself. Puerto Rico's 3.1 million residents represent 1.0% of the United States population, and yet, Puerto Rico rarely sees a proportional amount of federal funding from large transportation-related grants programs. HTA, for instance, received zero new discretionary grants in FY2020. If Puerto Rico received discretionary grants²²³ proportional to its population, agencies would have an additional \$1.5 billion available for strategically important, non-State of Good Repair (SOGR) projects over the next 30 years, granted that the Government seek a holistic grantee structure and federal funding strategy.

Moreover, to generate this type of capital spending, the Commonwealth and its corporations will need to maximize investments in Puerto Rico's transportation sector by ensuring access to all available federal and private funding. To achieve this, PRITA should successfully obtain grantee status, which is pivotal for maximizing federal funding opportunities and would pave the way to efficient multi-modal coordination.

Puerto Rico should explore further opportunities to leverage private capital via PPP projects. The Government should build on the success of the PR-22 and PR-5 PPP with Metropistas. Since 2011, Metropistas has contributed \$1.6 billion for the right to operate and collect tolls on PR-22 and PR-5. These funds have been used to reduce existing debt, improve road quality, and accelerate safety improvements.²²⁴ As a result, 99% of PR-22's pavement is in "good" or "fair" condition, compared to 86% for Puerto Rico's interstate system as a whole.²²⁵ Puerto Rico's PPP Authority

²²³ E.g., Capital Investment Grants, Better Utilizing Investments to Leverage Development (BUILD) grants, Infrastructure for Rebuilding America (INFRA) grants, Highways for Life (HfL) grants

²²⁴ "Project Profile: Puerto Rico PR-22 and PR-5 Lease." Center for Innovative Finance Support, United States Department of Transportation Federal Transit Administration. Accessed April 21, 2021

²²⁵ 2028 Puerto Rico Transportation Asset Management Plan, Final Revised as of October 8, 2019

should pursue a transportation-focused strategy to attract additional private funding to this sector. Puerto Rico should also leverage non-toll sources of revenue through innovative contract financial structures with its PPP concession-holders.

11.2 The future of Puerto Rico's transportation system

Reorganization of Puerto Rico's transportation assets and responsibilities into entities based on type of asset and/or transportation service

To achieve long-term financial stability and sustainability, Puerto Rico's transportation sector should be reorganized to ensure the best outcomes across different modes of transport. Under this proposed reorganization, HTA would operate as a standard toll road authority and oversee Puerto Rico's toll roads, DTOP would act as a standard department of transportation, with responsibility over non-tolled, non-municipal roads, and PRITA would fulfill its original intention as a unitary transit authority by managing and consolidating all transit assets on the Island (e.g., buses, ferries, Tren Urbano).²²⁶ The Ports Authority would continue to retain control over airports and ports. All relevant agencies should achieve federal grantee status as these new roles and responsibilities require.

Consistent with the reorganization described above, and with the 205(a) letter of January 29, 2021, the 2021 Fiscal Plan increases the HTA operating transfer to cover the full cost of non-toll assets, marking the first step towards the implementation of the Transportation Sector Reform. As a result, over FY2025-FY2051, the 2021 Fiscal Plan includes an average annual operating appropriation of ~\$133 million and capital appropriation of \$68 million per year on average. The amount of the annual operating transfer may be reduced in a proportionate amount should federal funding for non-toll assets appropriated to HTA increase.

The HTA operating transfer is intended to be used by HTA solely to fund costs associated to non-toll assets and is not available to be used for any other purposes, including funding costs and projects above and beyond those contemplated in HTA's Fiscal Plan.

EXHIBIT 71: PROPOSED ALIGNMENT OF ASSET TYPES TO ENTITIES



The state of public transit infrastructure and management on the Island deserves special focus. Congestion is increasing in many metropolitan areas, implying additional delays for activities such as commuting. Traffic in congested urban areas is moving at the same speed that it did 100

²²⁶ There is an existing legislative precedent for this type of effort, as outlined under 23 L.P.R.A. § 11161. The enactment of PRITA was originally intended to integrate mass transit systems under one authority, thus relieving HTA from its responsibilities related to the Tren Urbano transit system

years ago on horse-drawn carriages.²²⁷ The San Juan metro area has 37,000 more households commuting by private vehicle than would be expected if mass-transit usage matched the U.S. average.²²⁸ As a result of these extra vehicle journeys, San Juan experiences two additional weeks of low air-quality days per year, compared to the U.S. average.²²⁹ Worse yet, NOx and PM2.5 emissions from vehicles are statistically associated with excess deaths in the local population.²³⁰ Hence, a reliable public transit option is extremely valuable to day-to-day activities of local residents. The current system suffers from limited availability, efficiency, route coordination, operational cohesiveness, and accessibility. These issues result in higher congestion and reduced mobility particularly for low-income residents who experience long commutes or are forced to invest in owning a vehicle.

Achieving an integration of the public transit systems and cohesive operations and investment strategies across modes will require the Government assume a proactive role. The Government should establish a unified transport system and although these initiatives would ideally be implemented by an integrated PRITA, their implementation can and should start today.

The transformation into an integrated transit system would mainly rely on the implementation of the following initiatives:

- **Integrate all transit assets under PRITA:** PRITA should be empowered to fulfill its original intention, and act as a unitary transit authority by managing all transit on the Island (e.g., all buses, ferries, Tren Urbano). To accomplish this, the Government should ensure PRITA achieves federal grantee status as necessary to take on these new roles and responsibilities (e.g., FTA grantee status).
- **Integrate all non-toll roads under DTOP:** DTOP should assume responsibility for construction and maintenance of non-toll roads from HTA. Doing so would better align sources of funding with entity mandates (i.e., public funds used for publicly-managed roads). This would require relevant personnel and capabilities also shift from HTA to DTOP to ensure DTOP can manage the full portfolio of non-toll roads.
- **Integration of public transit networks:** Existing public transit agencies of the San Juan metropolitan area should integrate their operations to maximize ridership by increasing both the legibility and usefulness of the system.²³¹ Example initiatives include:
 - Adoption of a single farecard for all transit networks
 - Harmonization of fares and schedules across TU, buses, and ferries
 - Design of a coordinated network of routes to increase accessibility and attractiveness of mass-transit alternatives
 - Redevelop areas surrounding major transit stations to maximize mobility and accessibility to goods and services
- **Coordination of public transit systems with private transport networks:** Public transit agencies should collaborate closely with private transport networks (e.g. Públicos,

²²⁷ The Geography of Transport Systems, 5th Edition, 2020 by Jean-Paul Rodrigue, Claude Comtois, and Brian Slack

²²⁸ 22% of San Juan metro area residents commute via carpool, walking, bicycling, or public transit, compared to 27% for the U.S. as a whole. Data.IO

²²⁹ Low air quality defined as AQI > 100; PR has 19 days per year to U.S. median of 4, as per the Department of Natural and Environmental Resources website

²³⁰ EPA estimates excess deaths per ton of emissions at 0.002 for NOx and 0.1 for PM2.5

²³¹ Oregon's TriMet system shows how this can work in practice. Like TU, TriMet is a relatively new transit system, having developed its light rail in the 1980s. TriMet consolidates all Portland-area transit assets into a single entity that coordinates route planning, scheduling, and payments. Riders use "Hop Fastpass," a smart fare card, to pay for their travel and can plan multi-modal trips using TriMet's website. This user-friendly system encourages high levels of ridership on the city's light rail and bus systems, saving the city \$150 million annually due to reduced traffic congestion. Finally, a major emphasis in TriMet's planning was to use transit to improve land use, leading to \$25 billion in new development near light rail stations

Transportation Network Companies).²³² By implementing a series of joint initiatives (e.g., fare integration, station re-design, schedule integration, multi-modal trip planning), public agencies and private network operators would be able to achieve increased service quality and increased ridership.

- **Improvement of curb management practices:** Public transit agencies should work with local municipal authorities to promote the adoption of innovative curb management practices (e.g., dynamic pricing for on-street parking, replacing on-street parking with drop-off zones). These practices would incentivize commuters to use public transit rather than private vehicles. They would also generate funds that could improve service quality in the communities they service (e.g., construct more and better bus shelters).

Overall, these initiatives would contribute to the decrease of average commute times for the residents of the San Juan metropolitan area, thus resulting in substantial labor productivity gains and other benefits to residents such as greater mobility, accessibility, and equity, while also reducing harmful vehicle emission, thus increasing the overall quality of life. At the same time, they would enable public transit networks to increase their ridership and their revenue, thus having a smaller need for subsidies from FTA or the Government. These measures should be led by agencies responsible for various assets (HTA, ATM, PRITA) until the transformation of PRITA into a true transit authority is complete, at which point PRITA should become the responsible party across assets.

Implementing these goals will require a concerted effort and continued engagement of a workforce, all collaborating towards a common goal. As an example, asset transfers between agencies should also consider the transfer of responsibilities and recurrent funding, in addition to the assets themselves. In order to apply lessons learned, the Government should perform an initial assessment of legal, Federal Transit Administration (FTA) and Transportation Asset Management Plan (TAMP) considerations. Once the assessment is completed, the Government should develop a program foundation to align on priorities, success metrics, measures, and a future state organizational structure (as reflected in *Exhibit 72*) to demonstrate progress. Thereafter, workstreams can be implemented and, along the path of implementation, optimization and innovation can take place after results have been assessed and new workstreams are established. Ultimately, the end goal is for rider experience to improve, and transit ridership and accessibility to increase. As part of the reorganization of assets and responsibilities into mode-specific entities, the Commonwealth should ensure that the entities meet all requirements to obtain federal grantee status.

Create an overarching Transportation Policy Board to guide multi-modal transportation strategy across the Island

The Commonwealth should create an independent Transportation Policy Board (“TPB”) to set and execute an Island-wide transportation strategy. The TPB would be empowered to, at a minimum,

1. Set long-term, cross-modal, strategic plans and investment priorities applicable to all transportation investments on the Island
2. Regularly review and report on execution against strategic plans, providing transparency and guidance on any corrective steps required
3. Coordinate the federal grants strategy for all transportation entities to harmonize the process and maximize opportunity and availability of federal funds

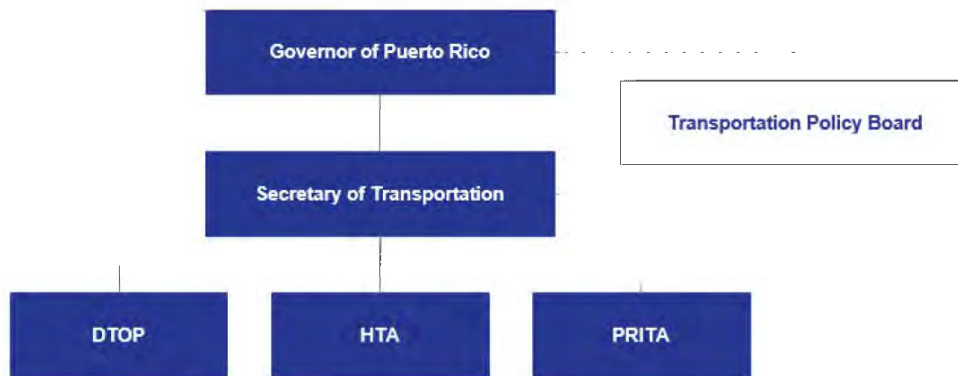
²³² Públicos and Transportation Network Companies carry ~50 million passengers per year, representing the vast majority (65%) of total transit rides in the San Juan metropolitan area. Puerto Rico Long Range Transportation Plan, December 2013

4. Develop and oversee the use of objective frameworks for project selection and project prioritization processes
5. Provide oversight and compliance check to both the pre-construction and capital delivery activities.

The proposed TPB would provide oversight and guidance for the transportation entities within the Government but would not seek to burden them with new regulations, leaving implementation of long-term strategic plans to each relevant entity.

The TPB should be comprised of 3 to 5 members, appointed by the Governor with the advice and consent of the Senate. Candidates should be selected from lists developed by professional recruitment firms and should comply with minimum knowledge and expertise requirements. To insulate TPB members from political pressure and ensure continuity and consistency in long-term planning, initial TPB member terms should be staggered with subsequent appointments being for a term of no less than five years. TPB members should also not be subject to at will removal, and should only be removed for cause.

EXHIBIT 72: PROPOSED RELATIONSHIP BETWEEN TRANSPORTATION POLICY BOARD AND OTHER TRANSPORTATION ENTITIES



Improve performance management through performance-based contracting and concessions with the private sector

Puerto Rico should better integrate private operators into public systems. At present, *públicos* and transportation network companies ("TNC") operate broadly across Puerto Rico to satisfy excess demand for transportation beyond that provided by the public sector. There is limited coordination, however, between these private operators and the public networks. Similarly, private contractors execute much of the Island's transportation construction without providing visibility into individual project performance. If managed well, the private sector can be a key partner in both operating transit systems and delivering capital projects efficiently and cost-effectively. As an example, the Maritime Transportation Services PPP with HMS Ferries LLC ("HMS") is structured such that HMS prioritizes improved service quality and efficiency, thereby aligning the interests of private operators with those of Puerto Rico's businesses and residents, who demand access to reliable and safe transportation services. Moreover, the management of private sector players is critical for transportation agencies to ensure that they can maximize available funds and mitigate risks, as shown through the improvements seen in PR-22 road condition as a result of the Metropistas PPP.²³³ Further, Puerto Rico's transportation entities can get more value from their private-sector vendors through innovative contract design and improved vendor supervision. Moreover, PPPs are an additional tool to attract private investment.

²³³ At present, the Acts governing PRITA and HTA provide for the implementation of this measure per P.R. Laws tit. 9, § 2004a

Of the ten projects currently under consideration by the PPP Authority, none impact transportation.²³⁴ Greater coordination between transportation sector entities and the PPP Authority can enhance the potential of private funds being leveraged for transportation, specifically by identifying, developing, and structuring attractive projects, such as the long-term concession of the remaining toll roads. If Puerto Rico achieved the same amount of PPP investment per capita as Virginia, it would receive an influx of \$3.7 billion in private investment.²³⁵

In addition, the Government, and more specifically, relevant transportation entities, should systematically identify ancillary revenue opportunities (e.g., advertising, creating service plazas, renting out real estate to retailers). If Puerto Rico achieved a level of non-toll revenue similar to mainland peers such as Florida's Turnpike Enterprise and the North Texas Tollway Authority, HTA would realize an incremental \$12.7 million in annual revenues.²³⁶ As with PPP funding, this best-in-class example should serve not as a specific target, but as an indication of what is possible.

Maximize funding by ensuring all relevant entities have federal grantee status, adopting a more comprehensive federal grants strategy, and attracting private capital

The Government needs to maximize investments in Puerto Rico's transportation sector by ensuring access to all available federal and private funding are deployed. To achieve this, PRITA should successfully complete the FTA's process to obtain grantee status, which is pivotal for maximizing federal funding opportunities, reorganization of assets and management responsibilities, and would pave the way to efficient multi-modal coordination.

Puerto Rico would benefit from a holistic strategy to maximize funding flowing into its transportation network. The TPB would be well-situated to coordinate these efforts across transportation entities. By establishing an Island-wide federal funding strategy, attracting more private investment, and increasing ancillary revenue, Puerto Rico can improve the transportation sector's financial health and invest more in-service delivery to public transportation users.²³⁷

²³⁴ Puerto Rico Public Private Partnerships Authority website

²³⁵ \$10.2 B in new build PPP at 8.5 M people in Virginia is about \$1200 per person. \$1200 per person for 3.2 M people in Puerto Rico represents \$3.8 B and Puerto Rico currently has \$127 M in new build PPP projects, per the Center for Innovative Finance Support, United States Department of Transportation Federal Transit Administration

²³⁶ The Florida Turnpike Authority and the North Texas Tollway Authority each bring in ancillary revenue equivalent to about 3-5% toll revenues. The NJTA is particularly successful in collecting non-toll revenue, and they regularly renegotiate with private operators (including toll collectors, gas stations, and service plazas) at the end of every contract. The NJTA successfully leverages the lucrative nature of these concession agreements to build performance incentives into contracts and pursue profit-sharing agreements between vendors and the agency. In 2019, non-toll revenues were equal to 15.5% of NJTA's toll revenues and included cellular tower rentals, park-and-ride facilities, rent, towing fees, property sales, billboard commissions, video feed licensing, an Arts Center, and other investments, compared to 5% in Puerto Rico. \$121 million in toll fares * 15.5% = \$16.2 million; \$16.2 million - \$6 million in "other income" = ~\$10 million. Per the New Jersey Turnpike Authority 2021 Annual Budget in Brief; the New Jersey Turnpike Revenue Bond Resolution Certification 713 (c) dated October 14, 2020; and the HTA FY2020 Fiscal Plan

²³⁷ At present, the Center of Federal Opportunities (under the Office of Management and Budget) is tasked with providing technical assistance to the Government of Puerto Rico and its related agencies in order to obtain and maximize federal grants. This recommendation requires that the Center of Federal Opportunities fulfill its mandate by supporting transportation authorities to secure further public funding

11.3 Implementation of the transportation system reform

To meet the requirements outlined above, the below milestones should be accomplished:²³⁸

EXHIBIT 73: IMPLEMENTATION TIMELINE FOR THE TRANSPORTATION SECTOR REORGANIZATION

Municipality	Action item	Owner	Deadline
Allocate transportation assets into mode-specific entities	Develop a program foundation to align on priorities, success metrics, measures and future state organizational structure to demonstrate progress	PRITA, HTA, DTOP, AAFAF	October 1, 2021
	Organize assets, roles and responsibilities within existing entities into asset-class groupings	PRITA, HTA, DTOP, AAFAF	October 1, 2021
	Identify legal and other obstacles to asset reorganization and present to FOMB	PRITA, HTA, DTOP, AAFAF	October 1, 2021
	Segregate costs/revenues associated to tolled, non-tolled roads and transit assets (i.e. labor, opex, etc.) and assign by asset class	PRITA, HTA, DTOP, AAFAF	October 1, 2021
	Amend/Update entity organizational structures to accommodate restructured roles and responsibilities	PRITA, HTA, DTOP, AAFAF	November 15, 2021
	Transfer personnel and resources (as applicable) to the relevant entities	PRITA, HTA, DTOP, AAFAF	June 30, 2022
	Finalize transfer of roles and responsibilities for non-tolled roads from HTA to DTOP	PRITA, HTA, DTOP, AAFAF	June 30, 2023
Re-allocate transit assets to PRITA	Perform initial assessment of legal, Federal Transit Administration (FTA) and Transportation Asset Management Plan (TAMP) considerations	PRITA, HTA, AAFAF	September 1, 2021
	Specify, procure, and implement required system to operate transit assets (e.g., IT infrastructure)	PRITA	December 31, 2021
	Achieve minimum financial, legal, and technical capacity to effectively manage FTA funds	PRITA, AAFAF	October 1, 2021
	Submit request to FTA for Grantee Status Designation	PRITA, AAFAF	November 1, 2021
	Achieve FTA grantee ¹	PRITA	June 30, 2022
Transit Service Integration and Coordination	Finalize transfer of all transit assets to PRITA	PRITA, HTA	June 30, 2023
	Enhance governance structure of PRITA by ensuring subject matter expertise is present at all levels of the organization, including top level management and Board of Directors.	PRITA	December 31, 2021
	Adopt a single farecard for all public transit networks	HTA, ATM, PRITA	December 31, 2021
	Harmonize fares and schedules across TU, buses and ferries	HTA, ATM, PRITA	December 31, 2021
	Pool data resources in order to conduct common research on future initiatives	HTA, ATM, PRITA	December 31, 2021
Leverage private-sector services for improved efficiency	Design a coordinated network of public transit routes	PRITA	March 31, 2022
	Begin redesigning the physical landscape around transit stations to encourage pedestrian traffic and promote integration with the stations	PRITA	April 30, 2022
	Design a series of initiatives that could be implemented in collaboration with private transport networks (e.g. Públicos)	PRITA	December 31, 2021
Identify and implement innovative transportation initiatives	Develop a strategy for communicating with private network operators	PRITA	December 31, 2021
	Identify curb management practices and other practices that disincentivize the use of mass transit infrastructure	PRITA	March 1, 2022
Establish Transportation Policy Board or analogous entity ²	Introduce new legal/regulatory framework proposals to address these practices and promote greater use of transit systems	PRITA	June 30, 2022
	Establish an independent advisory board responsible for setting long term holistic strategic plans and oversight of investment prioritization processes to advance transportation from an island-wide perspective	AAFAF	November 1, 2021
	Establish processes and guidelines for reviewing and reporting on the execution of strategic plans and providing transparency and guidance on corrective action	Transportation Policy Board (TPB)	December 1, 2021
	Establish processes and guidelines for coordinating the federal grants strategy for all transportation entities to harmonize the process and maximize availability of federal funds	TPB	December 1, 2021
	Assess and develop mechanisms to lower traffic congestion and increase accessibility to transit	TPB	December 1, 2021

¹ This is dependent on FTA review and approval process, which is outside of the Commonwealth's control

² The proposed Transportation Policy Board would have to be created by legislation or by modifying the existing legislative mandate that established an Advisory Board on Transportation

²³⁸ In the interest of ensuring compliance, the Oversight Board reserves the right to tie a portion of DTOP's and PRITA's budgets to the successful implementation of certain milestones (TBD), and, as such, freeze or clawback funds should the Government fail to implement its milestones

Part IV. Investments to revitalize Puerto Rico

As Puerto Rico aims to navigate through the COVID-19 pandemic and rebuild both economically and fiscally, the 2021 Fiscal Plan builds on what has been multi-year strategic investment program to improve government services, increase competitiveness, and create the conditions for growth that can benefit all residents.

Multiple Fiscal Plans have called for investments in front-line services that residents depend on for health, safety, and economic opportunity. This has included investments to support the Government, as well as individuals and businesses, in combating the COVID-19 pandemic. The 2021 Fiscal Plan preserves investments included in prior Fiscal Plans and supplements them in priority areas such as broadband infrastructure, developing the technology-oriented workforce of Puerto Rico, and ensuring robust civil service reform.

The Government must deploy these funds efficiently and effectively to maximize their benefit for the Island's people and economy.

These investments can be categorized as follows.

Immediate response to COVID-19

In the wake of the COVID-19 pandemic, the Oversight Board worked closely with the Government to act decisively to mitigate the effects of the sudden economic shock caused by the COVID-19 pandemic. These initial investments totaled **\$787 million** and provided hazard pay for front-line workers, direct payments to residents, essential supplies and equipment for public safety, materials for distance learning in the public education system, and funding for COVID-19 related research and development in UPR's Medical Sciences Department.

Investments in frontline services and agency operations

The 2021 Fiscal Plan also continues or makes additional investments to support frontline services and to enhance agency operations. These include **~\$900 million to bolstering healthcare infrastructure and services** (e.g., capital improvements at public hospitals, public hospital IT, telehealth infrastructure, opioid treatments, education loan forgiveness for rural healthcare professionals, and funds to maintain nurse and health professional staffing levels), **~\$880 million for public safety** (e.g., police salary raises, police equipment and capital, funds to hire Forensics Institute personnel, and funds for a DCR assessment of facility footprint and consolidation potential), **~\$640 million for educational outcomes** (e.g., funds for school psychologists and nurses, better transportation for students, teacher time and attendance analysis, needs based scholarships, incentives for student attendance reporting, digitization, teacher and director salary raises, and innovation), and **~\$550 million for new Government programs and to enhance agency operations** (e.g., funds to support ERP implementation, hire staff to finalize centralized procurement initiatives, accelerate municipal service consolidation, create transparency into economic incentives, hire special prosecutors and agents for the Specialized Domestic Violence, Sexual Crimes and Child Abuse units, and enable the fourth phase of the "Abriendo Caminos" infrastructure improvement program and for regular maintenance programs for the road infrastructure, etc.).

Strengthening the technology sector

To ensure Puerto Rico can compete in a global economy, the 2021 Fiscal Plan includes critical funds for technology infrastructure and workforce development programs. These include **\$400 million to boost universal broadband access** through incentives to expanded broadband roll out and the provision of faster service, and **\$50 million to establish a 21st Century Technical and Business Education Fund**, designed to develop technical and business skills that are aligned with the needs of the 21st century economy.

Further information on these investments are detailed in *Chapter 12* below.

Cultivating a high-performing public workforce in Puerto Rico

To ensure the Commonwealth Government can provide quality services to Puerto Rico's residents for years to come, especially given the set of natural disasters and emergencies the Island continues to face, the 2021 Fiscal Plan includes **~\$790 million for comprehensive civil service reform**. The program will aim to: align the Government's workforce capabilities and organizational structures to better meet mission objectives; enable the Government to better recruit and retain the right talent; augment employee development through standardized training; optimize human resources technology, compensation structures and policies; and redesign performance management and succession planning to promote employee development. The program will start with a pilot for financial management personnel and functions; the Oversight Board will work with the Government to ensure the success of this pilot as well as its scaling across other agencies and functions.

Further information on these investments are detailed in *Chapter 13* below.

Chapter 12. Strengthening Puerto Rico's technology sector

12.1 Broadband infrastructure

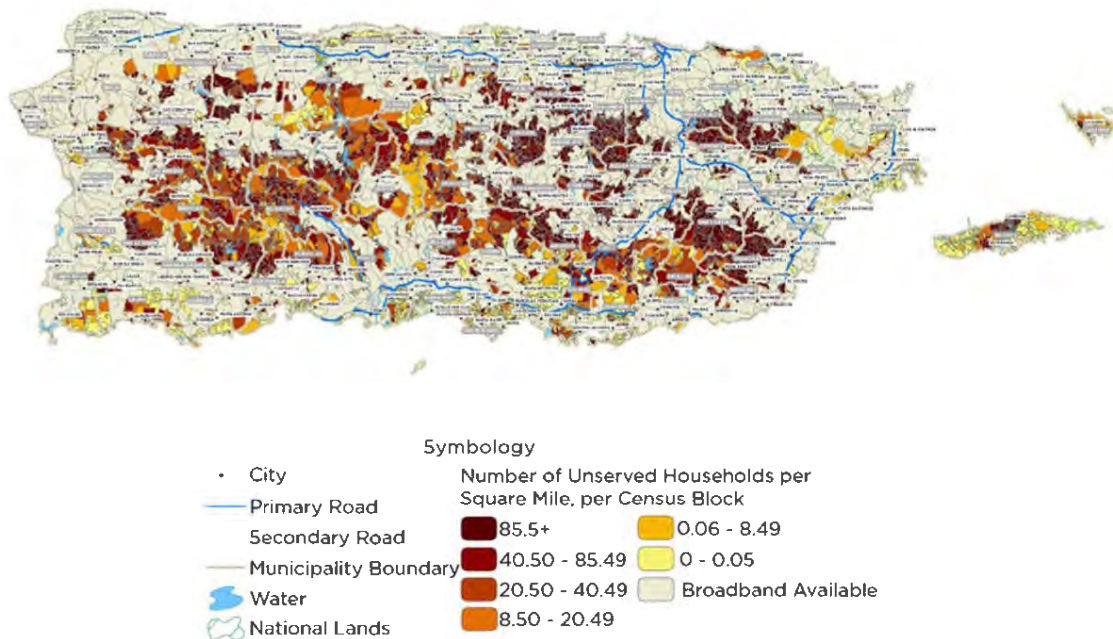
The 2012 Puerto Rico Broadband Strategic Plan (written by Connect Puerto Rico, in conjunction with the Puerto Rico Telecommunications Regulatory Board and the Puerto Rico Broadband Taskforce) established a vision of a Puerto Rico with fast, robust, redundant, and ubiquitous broadband access. Broadband provides numerous socio-economic benefits to communities and individuals, including improving labor market outcomes by enabling remote education and increasing business productivity through better connectivity, providing access to better health care through telemedicine for those in rural areas, and enhancing civic participation through better access to information.

During the COVID-19 pandemic, internet access has become even more important to residents' livelihoods. Across the US, telemedicine is becoming more widespread as a way to deliver health services safely. As public and private school systems alike move to distance learning models, students who do not have access to reliable, high speed internet are unable to participate – and therefore fall farther behind. Finally, most employers have shifted to remote or hybrid working models, meaning participation in the formal sector requires stable broadband access.

Unfortunately, within Puerto Rico, while there was some growth in broadband deployment in 2011-2014 (driven by an aggressive capacity upgrade of cable networks, as well as the deployment of fiber by other broadband providers), critical broadband infrastructure gaps still exist, particularly across rural areas of the Island. As of 2014 (the most recent year for which data is available), while ~99% of urban households across Puerto Rico had access to speeds of at least 10 Mbps download and 1.5 Mbps upload, this was true for only ~66% of rural households²³⁹ (see *Exhibit 74* below). Broadband adoption figures across Puerto Rico also reveal a persistent gap among certain demographic groups. Broadband non-adopters in Puerto Rico are generally low-income groups, senior residents, people with disabilities, and/or individuals with less education, which mirrors demographic trends related to broadband adoption on the U.S. mainland. These gaps have possibly widened since Hurricanes Irma and María, particularly in the mountainous region of Puerto Rico, where topography has hindered replacement of damaged infrastructure.

²³⁹ Puerto Rico Broadband Strategic Assessment, 2015

EXHIBIT 74: PUERTO RICO BROADBAND STRATEGIC ASSESSMENT (2015) – UNSERVED HOUSEHOLDS



Addressing the digital divide is critical to ensuring that all residents of Puerto Rico can take advantage of the many well-documented socio-economic benefits afforded by Internet connections. These benefits are most evident when people have access to the Internet at speeds fast enough to be considered broadband since these speeds are required to facilitate full interaction with advanced online platforms.

Historically, the Federal Government has created a number of programs to expand and subsidize broadband access throughout the United States, including the Federal Communications Commission (FCC) *Uniendo a Puerto Rico Fund*, the FCC E-Rate and Rural Health Care programs, and the FCC Connect America Fund (CAF), amongst others. To date, these programs have yet to fully address the particular needs of Puerto Rico with regard to broadband availability, quality of service, and adoption, and significant gaps in service availability and take-up remain. For example, the *Uniendo a Puerto Rico Fund*, an FCC reverse auction program to help rebuild the fixed and mobile broadband infrastructure damaged during the 2017 hurricanes, awarded \$385.9 million for a 10-year period totaling (\$127.1 million and \$258.8 million, for fixed and mobile infrastructure, respectively). Although wide in coverage, this program emphasized availability of service over affordability, adoption and usage and focused on deployment across residential locations, potentially overlooking public institutions. Meanwhile, while significant new national broadband funding is also expected through federal legislative responses to the COVID-19 pandemic (including the CARES Act, the CRRSA Act, and the proposed American Jobs Plan Act), funds for Puerto Rico are still to be determined, and could be minimal.

To truly address broadband affordability and accessibility, more investment is needed. As such, the 2021 Fiscal Plan complements federal programs with \$400 million in FY2021 (to be used over three years) to accelerate growth in broadband access and expand resident adoption and use of online resources, develop necessary and reliable data through an assessment of broadband availability, incentivize private sector investments in broadband build-out, and to improve access to faster speed offerings in underserved areas (the “Broadband Infrastructure Fund”). This emulates the approach taken by several states such as Illinois, Minnesota, California and Kentucky. While the overarching goal of all these sources of funding is aligned with that of federal

programs, their focus, scope, granting and eligibility criteria, and disbursement timeline are different and complementary.

Meanwhile, in order to maximize the impact of these resources, an integrative, comprehensive and well-coordinated broadband strategy is required. This coordinated strategy should help overcome barriers to broadband expansion, ensure that all residents, enterprises, and public institutions in Puerto Rico benefit from this capacity, and ensure that critical public institutions – e.g., schools, hospitals, libraries – can stay connected. The goal is that the Broadband Infrastructure Fund will support expansion efforts in unserved and underserved areas through a grant program (the “Broadband Infrastructure Grant Program”) that will fund a portion of the cost of deployment in these communities.

The Broadband Infrastructure Fund and its associated grant program, stand to complement the federally funded programs by:

- Developing and implementing a purpose-built broadband program for the needs of Puerto Rico
- Updating the Puerto Rico Broadband Strategic Assessment, and establishing a system for continual updates, data analysis and maintenance
- Providing increased penetration and faster connectivity to users, at levels compatible with the 2015 Puerto Rico Strategic Assessment (100/50) and higher than minimum federal requirements (25/3)
- Driving up adoption and usage (~40% of Puerto Rico households do not have an internet subscription²⁴⁰)
- Connecting critical public institutions, including schools, hospitals, and libraries
- Enhancing resiliency of infrastructure by favoring buried conduit over aerial infrastructure
- Encouraging the participation of local vendors (~69% of local residents live in areas where there is only one provider²⁴¹)
- Providing for roll out over a shorter timeframe (3-years as opposed to 10 years)
- Enabling up-to-date and reliable local data distribution supporting FCC monitoring and assessing the digital divide

A successful Broadband Infrastructure Grant Program will require strong leadership, accountability, continuity, and willingness to work with a broad range of entities, both within the Government and the private sector. There are a variety of ways U.S. mainland states structure their broadband programs (e.g., some states, including Minnesota and Colorado, have broadband offices established by statute or executive order, while others, including Tennessee, have staff within an agency dedicated to supporting broadband programs). In the case of Puerto Rico, the grant program will be managed by a third-party administrator (the “Grant Administrator”) who will develop and manage a transparent and user-friendly grant application process, including development of the grant application, and will monitor disbursements from the Broadband Infrastructure Fund, amongst other administrative services.

This 2021 Fiscal Plan requires AAFAF to conduct a transparent, competitive procurement process as reviewed and approved by the Oversight Board to select the Grant Administrator. The selected Grant Administrator shall have a staff of experienced professionals and a dynamic network of collaborators that include a broad range of private and government organizations. The Grant Administrator must also ensure accountability by requiring that all grantees demonstrate they are providing the service they were funded to deliver, while also providing the data needed to evaluate the program and progress toward defined goals.

²⁴⁰ The White House, “American Jobs Plan, Puerto Rico Fact Sheet” 2021

²⁴¹ Ibid.

The 2020 Fiscal Plan indicated that AAFAF had to complete the procurement by December 1, 2020, and on October 21st 2020, AAFAF released a Request for Proposals (RFP) for broadband infrastructure grant administrator services (i.e. procure the Grant Administrator). A total of 4 proposals were received by the RFP's deadline. On February 1st, 2021, AAFAF confirmed 5 members for a selection committee, which began to evaluate all proposals. To date, a preferred proponent has not been selected as a Grant Administrator. A schedule for the spending of these funds is shown in *Exhibit 75* below.

EXHIBIT 75: ALLOCATION OF STRATEGIC INVESTMENT FUNDING FOR TELECOM BROADBAND INFRASTRUCTURE (\$M)

	<u>FY22</u>	<u>FY23</u>	<u>FY24</u>	<u>Total</u>
Assessment – Update Plan	1.0	-	0.5	1.5
Broadband Grant Program	50.0	168.0	173.0	391.0
Trust Admin/ Program Evaluation	2.5	2.5	2.5	7.5
Total	53.5	170.5	176.0	400.0

Over the next three years, in partnership with the Federal Government and public and private stakeholders, the Fund Administrator must collaborate to assess, evaluate, and map various opportunities for broadband expansion. Broadband inventory maps and technology assessment research will enable a better understanding of the Puerto Rico broadband market and help define infrastructure needs in underserved regions, as well as ensure that money is sent to the right places. The Fund Administrator, in collaboration with the broadband provider community, information and communication technology providers, K-12 education stakeholders, the higher-education community, healthcare professionals, local government, grassroots community groups working to address the digital divide in their communities, and private sector groups for whom broadband is an essential investment asset, will be responsible for:

- Monitoring, measuring, and assessing the impact of broadband across the Puerto Rico economy
- Measuring and publishing aggregate, industry-wide data regarding broadband investment trends
- Measuring and publishing aggregate broadband use patterns
- Adjusting Puerto Rico economic indicators to estimate and monitor the impact broadband has on the overall economy

Moreover, the Grant Administrator will set up the Broadband Infrastructure Grant Program and develop a solicited proposal mechanism with the goal of providing funding to telecommunications operators and other Internet Service Providers to support broadband deployment in unserved and underserved areas. The Grant Administrator will be overseen by a 5-member government committee (the “Grant Committee”) which will provide guidance as it relates to the grant administration services and ultimately approve any grants awarded by the Grant Administrator. The Grant Committee will also have one (1) ex-officio and non-voting member from the Oversight Board.

Once funding has been approved and disbursed, the Grant Administrator must institute grant reporting, data collection, and other accountability measures to ensure that funded projects

deliver the promised service and provide data necessary for the state to evaluate progress toward its goals. Additionally, and to speed up deployment, The Grant Administrator, in collaboration with relevant telecommunication stakeholders, must also work to streamline construction permitting and planning, and leverage existing public assets, such as poles, ducts, conduits, and rights-of-ways, to incentivize private broadband investments.

The Grant Administrator will also provide timely information and strategic planning support to grantees who can leverage FCC funding opportunities as part of the broadband build-out. Therefore, program grants will need to “plug in” some of the gaps inherent in the federal programs, like focusing on critical institutions (e.g., schools, hospitals, libraries), enhancing resiliency of infrastructure by favoring buried conduit, encouraging higher speed infrastructure (100/1000 fixed, 5G wireless) and making service more affordable by driving adoption and utilization of disadvantaged populations.

By ensuring the Government enhances measuring, monitoring and strategic oversight of telecoms and internet service providers, the 2021 Fiscal Plan expects to improve the overall infrastructure on Island and to provide enhanced opportunities—through better and more equal access to education, healthcare, and information—for the people of Puerto Rico. The goals set forth by the 2021 Fiscal Plan, which require a Fund Administrator to conduct a data assessment and develop a new strategic plan in consultation with local stakeholders, will ensure a holistic vision for the program, one that is distinct and complementary to other broadband funding streams.

In order to achieve all these objectives in a timely manner and ensure access to this funding, the Government must accomplish the following actions by their respective deadlines:

EXHIBIT 76: REQUIRED IMPLEMENTATION ACTIONS FOR THE BROADBAND INFRASTRUCTURE GRANT PROGRAM

	Action item	Owner	Deadline
To be completed in FY2021	▪ Select Grant Administrator	▪ AAFAF	▪ April 2021
To be completed in FY2022 and beyond	▪ Perform Broadband assessment	▪ AAFAF	▪ September 2021
	▪ Setup Broadband Infrastructure Grant Program	▪ AAFAF	▪ December 2021
	▪ Launch Broadband grants application and selection process	▪ AAFAF	▪ January 2022
	▪ Complete execution of the Broadband infrastructure buildout projects supported by the program	▪ AAFAF	▪ June 2024

12.2 21st Century Technical and Business Education Fund

In addition to funding for telecom and broadband infrastructure, the 2021 Fiscal Plan recognizes the importance of investing to close core skill gaps and ensure the people of Puerto Rico are able to compete in a global economy. Creating an aligned, 21st century workforce that prepares residents of Puerto Rico to thrive is the central challenge to maintaining economic competitiveness over the next decade.

As the pace of technological change has accelerated, one core skill gap in Puerto Rico is around technical capabilities. To close the gap for people who are already in the workforce, Puerto Rico must take a learner-centric approach to make it easier to access targeted technical education.

Meanwhile as businesses look for new skillsets, they are often willing to look beyond college graduates to fill open roles – especially for technical skills. According to a recent survey by Future Workforce, 90% of employers would hire candidates who validate their knowledge using a certification, digital badge, or coursework in lieu of a college degree.²⁴² In addition, 55% of employers often offer jobs to people who have not finished college. Today, the number of both traditional and non-degree credentials is rising. There are now 315,067 unique credential programs from non-academic organizations, with the largest categories being digital badges and online course completion certificates. Coding bootcamps, which have appeared recently, were responsible for over 1,000 unique credentials.

In Puerto Rico, there are initiatives such as Codetrotters Academy, which offers 10-week certification programs in web and mobile development, and the Holberton School, which recently opened a campus on the Island. However, these programs are limited and may not be affordable to many residents. In addition, they mostly focus on web development and programming, thereby leaving an array of important technical areas uncovered, such as cloud infrastructure, server administration, cyber security, business intelligence, artificial intelligence (AI), and machine learning (ML).

Addressing the need for additional short-duration technical and business education opportunities requires forceful and forward-thinking leadership. To spearhead this drive for Puerto Rico, the 2021 Fiscal Plan allocates \$50 million for a 21st century Technical and Business Education Fund.

The 2020 Fiscal Plan required AAFAF to conduct a transparent, competitive procurement process as reviewed and approved by the Oversight Board to select an organization to serve as the administrator of these funds (the “Education Fund Administrator”). The selected Education Fund Administrator must have a staff of experienced professionals and a dynamic network of collaborators that include a broad range of private and government organizations. AAFAF must complete the procurement by December 1, 2020. To date, the RFP Request for Proposal has not been completed and a fund administrator has not been selected. The Oversight Board expects this administrator to be selected by September 2021, in order for the Government to keep access to funding for this important program.

The Education Fund Administrator will be tasked with developing a plan for 21st century technical and business skills for the entire workforce pipeline in Puerto Rico. The plan will prioritize the technical and business areas/skills to focus on, and the program will partner with multiple stakeholders in catalyzing and evolving the skills ecosystem. Scholarships would be made available for programs that are certified by the Education Fund Administrator, which would do so in alignment with the skill development plan. To support these efforts, the Education Fund Administrator must establish an engagement mechanism with stakeholders (e.g., a private sector taskforce), publish the results of its skills assessment report, create the supporting infrastructure for the scholarship program, and put in place a regular monitoring and evaluation process.

Furthermore, the plan will allow universities and private providers to develop and open programs in anticipation of fees from the scholars’ enrollment. Given the importance of online learning, the plan should also encourage programs to be offered in multiple formats, be it online, on campus, or a hybrid of the two.

²⁴² Future Workplace and Wiley Education Services, “Closing the Skills Gap,” 2019

Chapter 13. Cultivating a high-performing public workforce

13.1 The need for Civil Service Reform in Puerto Rico

The civil service is the backbone of good governance and quality public service provision. Having dynamic, competent, motivated, and high-performing civil servants is critically important as they have a direct bearing on the content and implementation of public policies and reforms, translating executive and legislative directives and regulations into tangible daily actions. The ability of the Government of Puerto Rico to provide quality services to its residents has been questioned for some time, especially when considering its recent performance in managing emergencies such as the earthquakes in the south part of the Island and the COVID-19 pandemic.

For this reason, the sustainability and quality of public services requires a comprehensive civil service reform to resolve the underlying problems and challenges of human resources management in the Government. Only by achieving this kind of reform will the Government be able to change practices that prevent Puerto Rico's Government from effectively fulfilling the most fundamental and emerging needs of its residents.

Act 8-2017 (formally known as the "Government of Puerto Rico Human Resources Administration and Transformation Act") and Regulation 8992 (formally known as the "Regulation for Implementation of Act 8-2017") were adopted by the Puerto Rico Government with the intention, among others, of achieving best practices in public administration. However, based on the evidence gathered by Oversight Board, the reforms have fallen short, as they have covered too little ground, and allowed much of the existing civil service challenges to remain intact²⁴³. One major flaw of Act 8-2017 was the underlying assumption that centralizing certain operational structure of human resource management would lead to a transformation of the civil service. Another aspect where Act 8-2017 fell short is that it covered a small portion of government employees because a significant number of government entities are exempted from its application. Short-term tweaks such as the centralization of compensation and classification systems do not resolve the structural problems in the civil service. True and effective reform must address the inherent problems of civil service, like political patronage, an aging and outdated talent pool, and poor performance, and redesign the processes and systems used to manage human resources in the Government.

In May 2019, the Government of Puerto Rico submitted a Uniform Classification and Compensation Plan to establish a uniform role and pay structure for its employees. The plan included career government employees and positions of trust across 65 agencies subject to the jurisdiction of the Government's central personnel management agency, the Office of the Administration and Transformation of Human Resources (OATRH, by its Spanish acronym). The plan proposed an annual investment of \$146 million to provide compensation increases for 13,198 employees in these agencies.

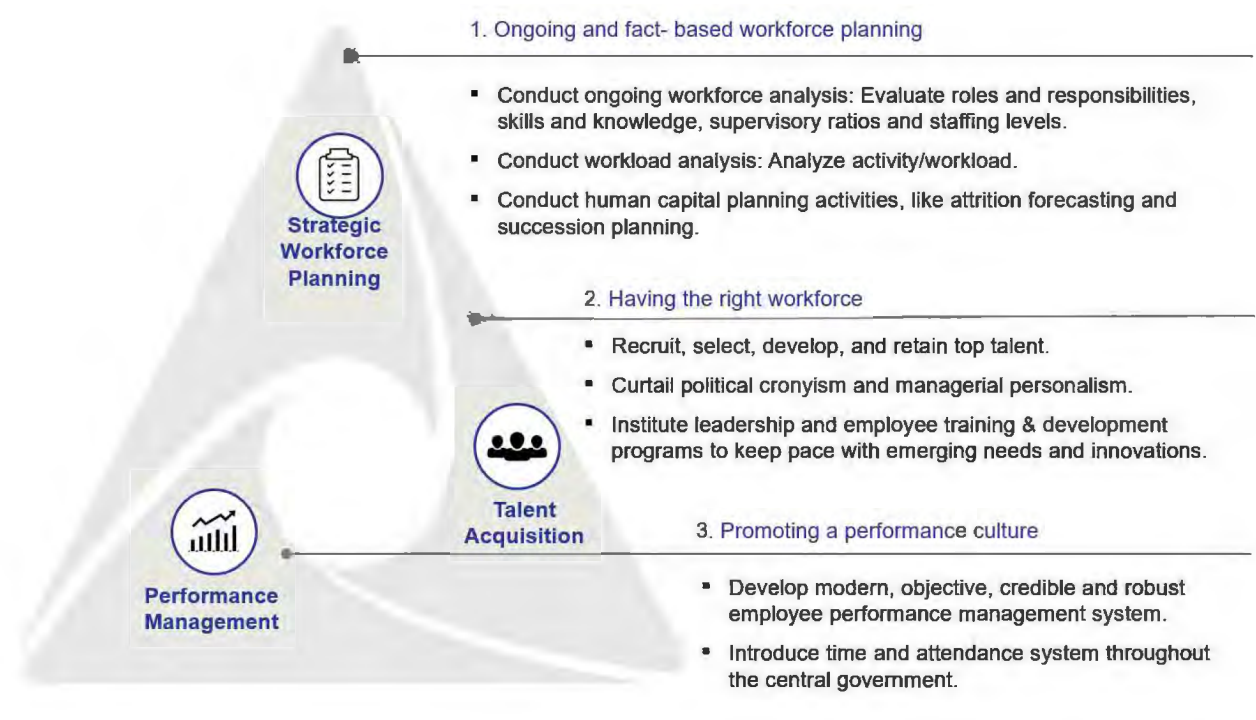
Although a worthy effort to ensure consistency and standardization across government agencies, the Uniform Classification and Compensation Plan falls short in addressing the perennial structural problems in human resource management (HRM) in the Commonwealth's civil service. A recent examination of the existing human resources management structure in the Commonwealth Government conducted by the Oversight Board revealed many deficiencies in areas such as strategic human capital planning, recruitment, selection, talent management, performance management and evaluations, and succession planning.²⁴⁴ Therefore, the

²⁴³ Gonzalez, Simuell et al. "Policy Paper: Civil Service Reform." Puerto Rico Federal Oversight Management Board website. Accessed April 21, 2021

²⁴⁴ Ibid.

Government should consider a broader and more integrated approach to civil service reform, as shown in *Exhibit 77*.

EXHIBIT 77: CIVIL SERVICE REFORM GOALS FOR THE COMMONWEALTH



13.2 Civil Service Reform approach

There is no universal blueprint for successful civil service reform. Changes in public sector personnel management should be tailored to the local context and conditions. Some governments adopt a comprehensive, government-wide approach to civil service reform, fully revamping the civil service system, while others follow a more incrementalistic approach, targeting more narrow areas of human resource management. For example, Title VI Section 601 (i.e., Research programs and demonstration projects) of the Civil Service Reform Act of 1978 allowed “federal agencies to experiment, subject to congressional oversight, with new and different personnel management concepts in controlled situations to achieve more efficient management of the Government's human resources and greater productivity in the delivery of service to the public.” Allowing federal agencies this flexibility to innovate on personnel management systems has proven useful with many federal agencies making their demonstration projects permanent. Further, it will be difficult to push civil service reforms forward that have a positive lasting impact in Puerto Rico without strong executive and legislative backing and strategic engagement with key stakeholders.

Given the amount of administrative and political challenges with reform in Puerto Rico, a gradual and more narrowed approach, focused on pressing human capital issues within key functions of government might be more practical. Adopting a pilot-then-scale implementation approach will enable government leadership to see reforms in action and allow for policy changes and new programs to be adapted and tweaked as required prior to a larger-scale implementation and roll out. It also allows leadership to get a more concrete and accurate idea of the operational and financial challenges that might be faced in the implementation of reforms.

13.3 Financial management and reporting within the Commonwealth

As mentioned in previous chapters, Puerto Rico has had fiscal management challenges for years that created a growing deficit in the Island. For the Government to adhere to structurally balanced budgets reflecting ongoing fiscal discipline, it must be able to return to the timely publication of audited financial statements and related disclosure information, which is a key issue for regaining access to markets, in accordance with PROMESA. Best practice calls for audited statements to be published no later than 180 days after the end of each fiscal year, while in Puerto Rico, the FY2015 and FY2016 Annual Audited Report (AAR) were issued and published by the Government 1,095 and 1,037 days, respectively. The latest completed (AAR) is that of FY2017, issued 38 months after the fiscal year ended. Currently, the Commonwealth is conducting the FY2018 audit (expected to be issued by June 2021), and proposed to complete the FY2019 AAR by May 2022 – 35 months after that fiscal year closed. The current rate of progress to close this gap and bring these reports and audits current is not effective and the amount of time projected to audit each year in arrears will guarantee that the Commonwealth will continue this unacceptable situation well into the future.

A root cause of Puerto Rico's financial management challenges is that the Government lacks key personnel with the technical knowledge and training to properly implement new and current Governmental Accounting Standard Board (GASB) pronouncements and develop a proper financial management infrastructure. As a result, the Government continues to engage with outside contractors for critical day-to-day functions. Senior officers in charge of the preparation, review, and approval of the AAR's are replaced every time there is a change in administration. Meanwhile, Hacienda's workforce is significantly older than most private sector firms, which increases the seriousness of workforce challenges ahead. For example, almost half of Hacienda employees have been in government for over 20 years. Having long tenure but limited upward movement and training means that some employees may not have the "future skills" that are necessary for continued mobility. Similarly, employees with long tenure are more likely to have an outdated job description, with responsibilities that might be currently obsolete. And given high attrition rates across the Government, Hacienda will need succession planning efforts as well as effective sources and methods for recruiting and retaining candidates to avoid the loss of technical expertise in mission-critical skills.

In order to solve these workforce challenges, a clear and fact-based understanding of the human capital situation at Hacienda and other auditing areas at Component Units is required to align "people policies" to performance goals. Instead of adding additional accountants or establishing a new Uniform Remuneration Plan (URP) in a vacuum, the Government should work on developing a comprehensive human capital plan for financial management and reporting functions, using data and analysis to address specific areas, like strategic alignment, talent management, performance, and evaluation.

13.4 A human capital pilot to enable timely and effective financial reporting processes in the Government

The Government must commence a **civil service reform pilot program (Pilot)** to achieve an aligned and sustainable human capital strategy to meet future financial reporting challenges at the Commonwealth. The Pilot would have the following objectives:

- Align the Commonwealth's workforce capabilities and organizational structures to better meet objectives.
- Enable the Commonwealth to recruit and retain the right talent needed to meet financial reporting requirements.

- Augment employee development through standardized training, evaluation, and knowledge transfer.
- Optimize processes, technology, compensation, and policies to effectively support human capital management.
- Redesign performance management and succession planning to promote employee motivation, development, and retention.

The Government shall be responsible for assembling a Pilot Project Team (PPT)—comprised of Hacienda, the Office of Management and Budget (OGP, by its Spanish acronym), OATRH, the Fiscal Agency and Financial Advisory Authority (AAFAF, by its Spanish acronym) and the Oversight Board—to perform ongoing weekly tracking and reporting of the Pilot. The PPT would also be in charge of reviewing current and future state documentation, such as operational structures, job descriptions, headcount, budgets, human resources policies and procedures, and previous financial reporting reports. Upon reviewing all the information, the PPT would conduct a current state gap analysis in skills, abilities, and knowledge, and then define future state competencies and activities for finance and accounting roles at Hacienda and other relevant agencies. Based on the assessment, the PPT will develop recruitment policies and processes and an actionable roadmap for Pilot implementation, prioritizing key positions for talent interventions.

The Pilot will be developed in phases. *Exhibit 78* includes detailed actions, timelines, and milestones that will require action by the Government to make progress in the Pilot.

EXHIBIT 78: PILOT MILESTONES AND PHASES

Action item	Phase Duration
▪ Establish Pilot Project Team comprised of Hacienda, OMB, AAFAF and FOMB	Week 1-2
▪ Evaluate current and future state of financial management and reporting at the Commonwealth	Week 3-9
▪ Conduct workload and workforce assessment of financial management divisions at Hacienda and finance departments at agencies participating in the pilot	Week 10-13
▪ Develop Human Capital Plan for financial management divisions at Hacienda and finance departments at agencies participating in the Pilot	Week 14-17
▪ Develop recruitment strategy and actionable roadmap for pilot implementation (including new URP structure at pilot agencies/divisions)	Week 14-18
▪ Pilot execution- Recruitment of key personnel, deployment of new URP and performance appraisal system at Pilot agencies/division	Week 19-25
▪ First Pilot Audit	Week 30-32

13.5 Oversight Board and pilot implementation collaboration

In addition to being a member of the PPT, the Oversight Board will play an active role in overseeing all aspects of the Pilot implementation. The Government must work with the Oversight Board and its staff to effectively implement key deliverables of this Pilot to ensure overall progress against objectives outlined in this chapter. The Government will work with the Oversight Board

staff to evaluate existing processes, analyze the problem areas, and develop a new financial management structure and a human capital plan for the future.

For example, the Government will work with the Oversight Board staff on key deliverables of the Pilot, including a current state assessment, a workforce capability matrix and report, a staffing plan, workload analysis summary, skills inventory, future state operating model / organizational design, short- and long-term recruitment strategies, revised recruitment policies and procedures, and prioritized talent intervention actionable roadmap, exclusive of identifying contractor support for implementation.

13.6 From pilot to government-wide Civil Service Reform implementation

Once the audit of the Pilot is completed and it is determined by the Oversight Board that the Pilot objectives were met, the 2021 Fiscal Plan provides an option for larger-scale implementation and roll out of the Civil Service Reform for the rest of the central government. Expanding of the Civil Service Reform will be done incrementally, strategically moving from one government agency to the next based on implementation indicators collected by the Oversight Board. The PPT will be tasked with developing a scaling roadmap detailing where, when, and in what order to expand the Civil Service Reform. *Exhibit 79* includes a scaling checklist detailing the essential steps to deploy the Civil Service Reform at a given agency.

EXHIBIT 79: CHECKLIST OF ESSENTIAL STEPS TO EXPAND CIVIL SERVICE REFORM

Civil Service Reform Components	Central Government Outcomes	Agency Accountabilities
Pilot Financial Management	<ul style="list-style-type: none"> Successful implementation of the pilot (per FOMB audit) 	
Strategic Workforce Planning	<ul style="list-style-type: none"> Digitalization of HR records through a centralized information system Training of OATRH staff and HR professionals at Commonwealth agencies of the new system Workforce planning forecasting model tool to perform quantitative and scenario-based workforce modeling 	<ul style="list-style-type: none"> Appropriate policies to enable HR data management compliance in the new centralized information system Facilitation of trainings and workshops for implementation of new system Deployment strategy to enable adoption and utilization of new system (certified by OATRH)
Talent Acquisition	<ul style="list-style-type: none"> New recruitment and outreach policies and procedures New recruitment web platform Talent screening of qualified candidates and outreach activities by 3rd party staffing agency 	<ul style="list-style-type: none"> Facilitation of trainings and workshops for implementation of new system Deployment strategy to enable adoption and utilization of new system (certified by OATRH)
Performance Management	<ul style="list-style-type: none"> New performance appraisal framework, guidelines and operating manual Identified critical capabilities and key performance metrics for talent evaluation processes Web-based performance appraisal system Time and Attendance (T&A) guidelines for agencies 	<ul style="list-style-type: none"> Facilitation of trainings and workshops for implementation of new system Deployment strategy to enable adoption and utilization of new system (certified by OATRH) Utilization and compliance with T&A system guidelines and procedures Automate TNR at agency

13.7 Funding the program

The Oversight Board estimates that the financial management Pilot will cost \$11.5 million in FY2022, which includes \$1.5 million in implementation costs. As the program scales, the Government and Oversight Board estimate that it will cost \$83 million per year in General Fund expenditures. The 2021 Fiscal Plan includes almost \$800 million in investment FY2022-FY2051

to cover much of the run-rate costs of the program, while it expects the Government to fund a portion through savings generated through its Time & Attendance project.

On March 8, 2021, the Puerto Rico Department of Education (PRDE), in conjunction with AAFAF and Hacienda, officially launched and implemented a Time and Attendance (T&A) project that allowed the Department to determine which employees were being paid while no longer active or employed. Already, \$22 million in run-rate General Fund savings have been identified through PRDE's efforts. Implementation of T&A is estimated to save \$58 million annually by ensuring that only active employees who show up to work get paid.

EXHIBIT 80: CIVIL SERVICE REFORM COSTS AND SAVINGS²⁴⁵

Cost and Savings, \$M	FY22	FY23	FY24	FY25	FY26
Civil Service Reform Costs	12	38	64	83	84
T&A Savings	12	38	58	59	60
Civil Service Incremental Costs to the CW	0	0	0	9	25

²⁴⁵ PRDE in FY2022 already achieved \$22 million of savings as a result of T&A implementation in FY2021 of which \$11.5 million will go to pay the Civil Service Reform in FY2022

PART V: Transforming government to better serve the residents

In addition to structural reforms, the Government must also implement fiscal measures to create a sustainable fiscal future for Puerto Rico. Fiscal measures should reduce costs while maintaining or improving the quality of important services. The wide range of government efficiency initiatives target an increase in revenues through new and more efficient collections activities, while decreasing government expenditures by ensuring reasonable usage of resources.

Although the Government has successfully maintained balanced budgets established by the Fiscal Plans, it has been slow to make meaningful progress in transforming its processes and organizational structures. These measures are necessary to sustainably reduce the Island's cost of operations. This delayed progress has created precarious risk to government service delivery, especially given recent events.

The earthquakes and the COVID-19 crisis have caused local residents to be especially reliant on the Government to effectively and efficiently provide public services. At the same time, the Government has received significant funding from both the Federal Government and the Oversight Board to respond to COVID-19, ensure service provision, and spur economic recovery. For one, the Oversight Board and Government provided a \$787 million Emergency Support Package in early 2020 to agencies, individuals, and businesses. Further, COVID-19 related federal relief has totaled over \$43 billion for the Island, with ~\$4 billion alone going to PRDE and \$5.5 billion for the Government's fiscal uses (via the CARES, CRRSA, and ARP Acts). Finally, the Oversight Board paused most fiscal measures for FY2021 to enable the Government to focus on implementation.

Unfortunately, the Government has struggled to drive operational changes and reforms, in part due to COVID-19 and a transition in Commonwealth leadership, but also because agencies have not focused on pursuing such reforms. With billions of dollars in federal support and the nation and Island starting to navigate out of the pandemic, the time is now for the Government to make its final push to drive efficiency and effectiveness.

With a new administration in place, the Government has a new opportunity to re-commit to identifying and driving initiatives that will result in better processes, more efficient spending, and greater quality of service for the Island. The 2021 Fiscal Plan resumes fiscal measures in FY2022 and continues to include milestone budgeting, which provides incentives for achievement of longstanding key fiscal goals and efficiencies. Through these incentives, as well as rapid implementation of effective managerial processes, the Government can make meaningful progress in FY2022.

Fiscal measures

Office of the CFO (*Chapter 14*). The Office of the CFO ("OCFO"), will be responsible for a variety of reforms that will ensure the most efficient financial stewardship of the Island's resources.

Agency Efficiencies (*Chapter 15*). The new model for government operations involves "rightsizing" the Government through agency consolidation, process re-engineering, standardization of benefits, and reduction and/or elimination of government services. This process includes implementing comprehensive reform initiatives in the Departments of Education, Health, Public Safety, Corrections, OCFO, and Economic Development, as well as consolidations and reductions within the "long tail" of other agencies. FY2022 represents the final "savings ramp" for most of these measures, which are supposed to have been implemented since

FY2019. Agency efficiency measures must result in \$1.5 billion in run-rate savings²⁴⁶ by FY2026 (versus the FY2018 baseline).

Medicaid Investments and Reform (*Chapter 16*). Healthcare measures seek to reduce the rate of healthcare cost inflation through a comprehensive healthcare model. The model prioritizes quality relative to cost and must result in \$331 million in run-rate savings by FY2026, projected to grow with healthcare inflation.

Tax Compliance and Fees Enhancement (*Chapter 17*). Tax compliance initiatives involve implementing new taxes as well as employing technology and other innovative practices to capture revenue from under-leveraged sources. These initiatives must increase run-rate revenues by \$459 million by FY2026.

Reduction in Appropriations to UPR (*Chapter 18*). The central Government will decrease appropriations granted to UPR, which must result in \$288 million in run-rate savings by FY2026.

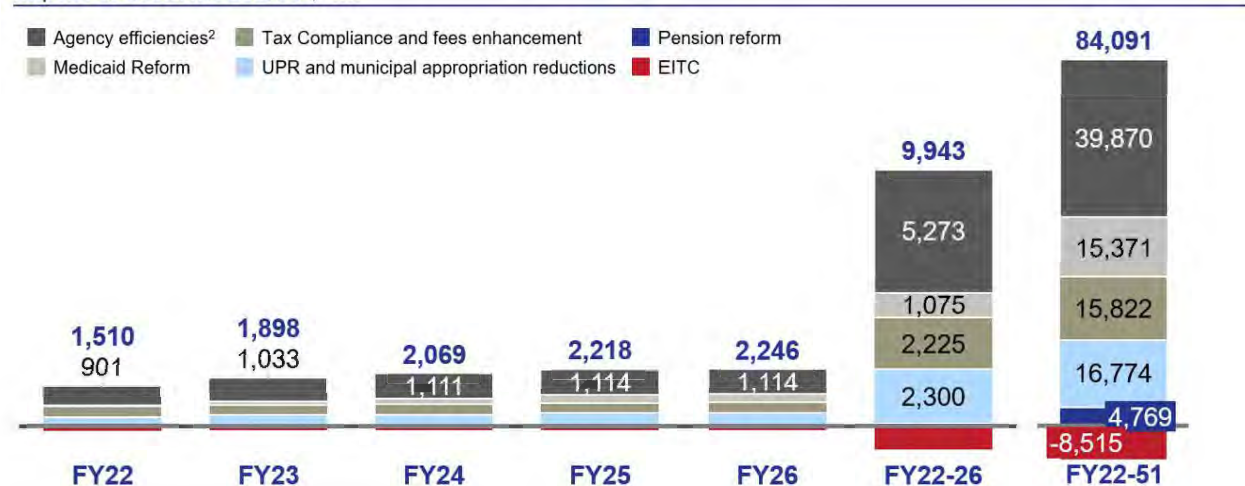
Municipal Services Reform (*Chapter 19*). In FY2017, Municipalities faced a dire financial situation despite massive Commonwealth assistance. The 2021 Fiscal Plan establishes a reduction of \$220 million to the Municipalities appropriation through municipal service consolidation and improvement in property tax collections to achieve a 100% reduction by FY2025.

Pension Reform (*Chapter 20*). The current PayGo system must be modified to freeze future pension accruals and reduce current benefit amounts paid (with protection for participants with benefits close to the poverty level). Future retirement benefits must be funded by expanded Social Security and Defined Contribution access to safeguard the financial stability of the public employees' retirement funds. These pension reform measures must result in \$46 million of net run-rate savings by FY2026.²⁴⁷

Together, these measures are crucial to the structural balance of the Commonwealth's budget, and are projected to have an impact of over \$10 billion during FY2022-FY2026 and over \$84 billion by FY2051 (See *Exhibit 81*)²⁴⁸.

EXHIBIT 81: CUMULATIVE IMPACT OF FISCAL MEASURES SAVINGS AND REVENUES²⁴⁹

Impact of fiscal measures¹, \$M



¹ Comprised only of fiscal measures attributable to the Commonwealth
² Includes investments and incremental budgetary adjustments

²⁴⁶ Includes right-sizing, compensation, and utility measures

²⁴⁷ Excludes savings attributable to the upfront payment to System 2000 participants

²⁴⁸ Excludes non-Medicaid healthcare investments, union agreement, and other COVID-19 related investments

²⁴⁹ Excludes Union agreement, Non-Medicaid health investments and other COVID-19 investments

Chapter 14. Office of the Chief Financial Officer (OCFO)

One of the key goals of the Puerto Rico Oversight, Management, and Economic Stability Act (PROMESA) is for fiscal accountability to be quickly and permanently ensconced in the Government. To fulfill this goal, the Government must create a strong Office of the Chief Financial Officer (OCFO). By centralizing key financial management functions (e.g., financial reporting, procurement, payroll) under a capable and well-resourced OCFO, the Government can address long-standing issues that have arisen under the Island's historically decentralized financial management regime that did not provide a central focus to government-wide financial reform. These include persistent difficulties around: understanding the financial needs and priorities across Government, collecting transparent data, conducting timely and accurate consolidated reporting, preventing the misallocation of funds, preventing agencies from overspending their budgets, controlling management of bank accounts, and consolidating financial statements. The OCFO is the organization that establishes policies, processes and procedures that are repetitive, efficient, and timely to track the financial impact of all transactions and report those to government leadership and external users. The creation of a centralized OCFO has been a linchpin in the restoration of fiscal responsibility of several public entities, including the District of Columbia following its financial crisis in the mid-1990's, the City of Detroit in its Chapter 9 bankruptcy as well as New York City and Philadelphia's municipal restructuring. A strong OCFO helps to provide accurate, timely and analytical financial information to support executive decision making and evaluate the impact of certain actions on efficiency and effectiveness of program outcomes. The Oversight Board strongly stands behind the need for a centralized OCFO to **place the Island on a fiscally responsible economic trajectory and restore its access to the capital markets as required by PROMESA.**

The Government's efforts to create a highly-performing OCFO have been slow and disjointed. However, progress has been made in certain areas, including providing bank account transparency, publishing weekly emergency reserve reports, monthly reporting of budget-to-actuals for select Government agencies, enhancing General Fund collections with technology, and publishing of the 2017 tax expenditure report in September 2019. While the enhanced reporting yields some improvements in management and oversight capabilities, there is a need for more detailed and timely reporting in several areas. For instance, detailed monthly budget to actuals on Special Revenue Funds (SRFs) and component units including revenues, expenditures and encumbrances; and timely issuance of the Government's annual audited financial statements (Annual Audited Report) and the annual Tax Expenditure Report (TER). In essence, each relevant financial agency has improved operational capacity and accountability somewhat, but there has been little centralization, and responsibilities still remain unclear within the group. Operating without a strong legislative mandate, the OCFO has moved from Hacienda to AAFAF throughout FY2020, and back to Hacienda during FY2021. While the OCFO has made recent efforts to produce more granular budgets and create detailed agency-level budget-to-actual spending reports, it has been substantially delayed in the issuance of its annual audits (as of April 2021, the FY2018, FY2019, and FY2020 audits have not been issued). The goal is to have a defined repeatable process where these reports are produced as required without extraordinary intervention being required. Recently, the Governor signed an Executive Order on the position of the Chief Financial Officer, and although the effort is a positive step that is expected to begin to provide some movement toward centralization, it still falls short of the centralized authorities envisioned in the 2021 Fiscal Plan.

The Executive Order ("EO-018") provided the creation of the CFO and for it to be the Secretary of Treasury. The Secretary is tasked with numerous initiatives including issuance of the Annual Audited Report, implementation of an ERP, and establishing corrective actions on control deficiencies identified by external auditors. However, the Executive Order falls short of the OCFO envisioned in the 2021 Fiscal Plan. A statutorily-created OCFO, as envisioned by the 2021 Fiscal Plan, would possess enhanced oversight capabilities through the consolidation of authorities currently spread across multiple agencies, including the Department of Treasury, Office of

Management and Budget (“OMB”), Office of Administration and Transformation of Human Resources, the General Services Administration, and the Fiscal Agency and Financial Advisory Authority (“AAFAF”). EO-018 lacks the appropriate authorities over financial dependencies that would allow CFO authorities over critical fiscal roles, responsibilities, and processes. Further, as drafted, the OCFO is not directly staffed, rather it must collaborate with other financial agencies and those agencies are to provide staff and professional services as requested.

Key financial management and administrative functions remain distributed across a half-dozen Government agencies, and the Government has yet to legislatively authorize the OCFO’s organizational and governance structures or adequately staff the organization to fully execute its oversight responsibilities. Part of the problem is not having the right human resource management structure at the Commonwealth. Ensuring all personnel at Hacienda and other relevant agencies have clear expectations and roles, are highly motivated, and their workloads are optimally distributed will improve overall financial performance in the Government. Additionally, determining the needed competencies, assessing the available workers and recommending training, outsourcing or hiring additional staff will be necessary to enable OCFO implementation. The 2021 Fiscal Plan makes funds available to enhance the effectiveness of the civil service through comprehensive civil service reform (as outlined in *Chapter 13*). Given the importance of the OCFO to enable accurate, timely and analytical financial information at the Commonwealth, the 2021 Fiscal Plan proposes beginning the civil service reform with a pilot within financial management and reporting functions of the Government. In this Pilot, the Government will work with the Oversight Board to develop a comprehensive human capital plan for financial management and reporting functions, using data and analysis to address specific areas, like strategic alignment, talent management, performance, and evaluation. This pilot will strengthen the OCFO office and enable swift implementation.

Without comprehensive action, the Island’s financial management capabilities will continue to fall short of best practices, the expectations of the capital markets, and the needs of the Puerto Rican people. Given the amount of disaster relief funds expected to flow into the economy of Puerto Rico within the next fiscal years, over \$100 billion, proper structure and implementation of the OCFO will be required to maximize and provide oversight of the use of such federal funds. As such, the OCFO should assume all key financial management functions across the Government—necessary to place the Island on stronger financial footing²⁵⁰.

The core objectives of the consolidated OCFO must be to:

- **Centralize treasury and liquidity management**
- **Enhance the budget development process** by improving monitoring and performance tracking based on timely and accurate accounting practices and data
- **Drive the standardization and integration of the Government’s financial IT systems**
- **Ensure compliance with procurement, contract, and human resource management policies** across Government agencies
- **Ensure full implementation of pension policies** across Government agencies, including Act 106-2017 regarding the Defined Contribution system for government employees, the timely deposit of employee contributions withheld by government employers, the timely implementation of Social Security as required by the 2021 Fiscal Plan for judges and teachers, and the full repayment (with repayment plans as required) of amounts owed by government employers for PayGo obligations
- **Strengthen oversight of SRFs** through enhanced control mechanisms

²⁵⁰ On February 26, 2021 the Oversight Board held a Public Meeting with Governor Pierluisi on the outstanding Annual Audited Report issuance, ERP implementation, and OCFO creation recommendations. The Governor agreed to the recommendations presented, which are included in a PROMESA Section 205 letter addressed to the Executive branch. As of the date of the 2021 Fiscal Plan certification, the Government is still within the 90 days’ timeframe awarded to respond

- **Improve the timeliness of the publication of the Government's Annual Audited Reports and financial reporting**, achieving issuance on a best practices basis – within six months of fiscal year end
- **Centralize and validate the management of Government bank accounts, funds, debts, and other financial transactions**
- **Ensure coordination of maximally efficient use and transparent reporting of federal funds**, including both regular annual funds and disaster-related funds

Empowering the OCFO to effectively manage the Government's finances is more important than ever considering the devastating COVID-19 crisis. As part of the Federal Government's response to the pandemic, the OCFO will play a central role in administering and monitoring the use of over \$45B federal and Commonwealth funds meant to support the Island's recovery from the pandemic. To that end, the OCFO must be prepared to comply with enhanced reporting and oversight requirements governing the use of Coronavirus Aid, Relief, and Economic Security Act (CARES), the Coronavirus Response and Relief Supplemental Appropriations Act (CRRSAA), the American Rescue Plan (ARP) Act and other federal funds earmarked for Puerto Rico.

A properly structured OCFO will constitute an important organizing entity for the pursuit of timely financial reporting, decision making, monthly budget-to-actual analysis, and for resource management and planning. Ultimately, PROMESA requires the institutionalization of sound financial management and fiscal responsibility within the Government. As such, the Government should take steps to institutionalize the responsibilities, financial requirements, and goals encompassed in the 2021 Fiscal Plan to ensure efficient financial management practices are sustained post-PROMESA. Cooperation between the OCFO and the primary fiscal entities and officers of Puerto Rico is essential in achieving these objectives.

14.1 OCFO design parameters

14.1.1 Responsibilities of OCFO

The 2021 Fiscal Plan requires the Government to strengthen the OCFO in line with the following parameters during FY2022 by:

- **Centralizing treasury and liquidity management to:**
 - Enforce and manage a consolidated Treasury Single Account (TSA) for the Government that controls and offers visibility into all Government bank accounts (to the extent possible), including those of component units (CU) at private banks
 - Enable all other public entities to maintain zero balance sweep accounts
 - Empower the OCFO to serve as the sole authority for Government bank account creation and closure—facilitating liquidity reporting, monitoring, and analysis
 - Facilitate the rationalization of the Government's account portfolio to support maximization of earnings, cash pooling, daily cash sweeps and treasury operations, and implementation of uniform accounts payable and disbursement prioritization processes and reports
- **Enhancing the budget development process by improving monitoring and performance tracking to:**
 - Comply with the recently-issued Oversight Board budget guidelines to develop an auditable budget that is readily-traceable to the 2021 Certified Fiscal Plan and its priorities
 - Forecast and manage the seasonality of tax receipts

- Forecast and report the fiscal cost of tax credits
- Oversee all tax decrees and tax agreement issues
- Operationalize the financial system budget to ensure consistency between accounts and facilitate their monitoring
- Estimate, protect, and enhance tax collections and revenue streams
- Establish budgetary priorities—namely, effective expenditure controls and Government-wide procurement reforms
- Develop budgets using detailed and granular account level structures for expenditures and revenues accounting through standard guidelines followed by all Commonwealth agencies
- Report revenues and expenditures’ budget-to-actuals for the General Fund and Special Revenue Funds on a recurring monthly basis
- **Driving the standardization and integration of the Government’s financial information technology (IT) systems to:**
 - Identify disparate systems being used for financial tracking and reporting
 - Establish a roadmap to standardize and integrate systems to the fewest possible
 - Orchestrate the integration across agencies, including defining new policies and procedures, coordinating data migration and validation, and training system users to effectively utilize new systems
 - Improve and standardize processes that support and contribute to the accuracy of financial information provided to the ERP
 - The Oversight Board encourages the Government to evaluate current laws which exempt certain government entities from the Puerto Rico Government Accounting Act. Regardless, while some entities are mandated by law to maintain fiscal independence, these entities could still leverage central financial IT systems to reduce costs and automate current processes.
- **Ensuring compliance with procurement, contract, pension, and human resource management policies across Government agencies to:**
 - Certify all contracts, bills, invoices, payroll charges, and other evidences of claim, demand, or charge relating to the Government and entities reliant upon its taxing authority by prescribing receipts, vouchers, and claims for all agencies to leverage
 - Manage centralized health insurance procurement and policy management
 - Oversee human resources, Government payroll operations, and all Government-related financial transactions
 - Implement uniform time, attendance, and overtime processes, payroll controls, and reporting standards

Puerto Rico Department of Education (PRDE) Time & Attendance (T&A) Project:

- In September 2020, the Oversight Board uncovered and disclosed to the public that **PRDE paid at least \$80 million in salaries between 2007 and 2020 to more than 17,500 former employees who should not have been on the agency's payroll.**
- As such, on November 2020, the **Oversight Board began supporting PRDE in the T&A Project, in collaboration with AAFAF and Hacienda.** The project sought to fully implement PRDE's T&A Policy, enforce the use of PRDE's existing time reporting system (Kronos), and ensure that all payroll systems were linked. By doing so, PRDE would **ensure only active employees who showed up to work were paid**, while also **directly impacting the wellbeing of public-school students** – as students are unable to effectively engage in school or receive quality, consistent education without a teacher present.
- The original timeline of the project was that starting with the pay period of December 16 to December 31, 2020 (payable on January 31, 2021) all employees would be required to record their attendance as a condition to get paid, and those who failed to properly record their attendance would receive payroll discounts on a subsequent paycheck. However, the PRDE Secretary requested additional time to implement a communication strategy.
- Nonetheless, **PRDE successfully launched the project for the pay period of February 16 to February 28, 2021** (payable on March 31, 2021). Although the project was launched ~3.5 months after initiation, this process is expected to be continued and enforced at PRDE from now onwards, without exceptions.
 - For the **first implementation cycle** (February 16 to February 28, 2021), the **financial impact to PRDE was ~\$1.49 million** in discounts to ~4,370 employees.
- As of late March 2021, the project had already yielded significant savings to the Government. For example, as a direct result of the T&A project, the Oversight Board, along with PRDE, were able to identify **973 employees who were inactive or terminated but still being paid, representing ~\$27 million of annual payroll costs.** All findings will be officially validated through a forensic audit currently being conducted and expected to be completed before FY2021 end.

- **Strengthening oversight of Special Revenue Funds (SRF) through enhanced control mechanisms to:**
 - Implement processes and guidelines that improve stewardship and centralization of all SRFs
 - Ensure all revenue streams attributable to SRF are deposited within the TSA
 - Improve centralization of revenues and expenditure budget-to-actual reporting and accounting of transactions in a centralized accounting system
- **Improving the timeliness of the Government's annual audited report (Annual Audited Report) and financial reporting to:**
 - Produce high-quality Annual Audited Reports that follow the modified-accrual basis of accounting required by PROMESA and leverage new forecasting, e-settlement, and analytics capabilities for FY2018 onward within established regulatory timeframes
 - Issue the FY2018, FY2019, FY2020, and FY2021 Annual Audited Reports no later than December 2021.
 - Implement long-lasting standard reporting processes and policies to ensure FY2021 and beyond audit issuances can occur within six months of a fiscal year end

- Support stronger implementation forecasting of measures required by the 2021 Certified Fiscal Plan and more robust reporting of actuals
- Supervise property tax assessment reforms, prepare tax maps, and provide notice of taxes and special assessments
- **Centralizing and validating the management of Government funds, debts, and other financial transactions to:**
 - Maintain custody of all public funds, investments, and cash
 - Administer cash management programs to invest surplus cash
 - Facilitate short- and long-term borrowing programs
 - Establish accountability over all Government funds, property, and assets
 - Oversee all tax decrees and agreements issued
 - Publish an annual TER that identifies and quantifies all tax expenditures²⁵¹ (initial report published in September 2019 for tax year 2017)
- **Overseeing the Implementation of the 2021 Certified Fiscal Plan to:**
 - Enable all Government agencies to comply with efficiency measures stipulated within the 2021 Certified Fiscal Plan
 - Facilitate timely and targeted interventions to address areas of underperformance relative to efficiency measures
- **Ensure robust management of new federal funds and ensure compliance to maximize and optimize their usage**
 - Assign leaders to spur accountability and improve transparency
 - Establish mechanisms to coordinate with federal counterparts
 - Plan for financial inflows
 - Provide appropriate resources for agencies to handle the influx of demand

14.1.2 Authority and composition of OCFO

To execute these responsibilities, OCFO must have the power to:

- **Act as the central authority over finance, budget, human resources, audit, procurement, cash management, and debt issuance** matter for all entities supported by the General Fund or dependent on the Government's taxing authority
- **Exercise a direct reporting line into agency CFOs** (in parallel to reporting lines to agency secretaries)
- **Remove any fiscal officer belonging to entities supported by the General Fund or the Government's taxing authority for violations of or non-compliance with the law**—including failure to provide timely and accurate financial information
- **Reform personnel policies**—even through the renegotiation of existing or negotiation of future Collective Bargaining Agreements (CBAs)—**in a manner consistent with the 2021**

²⁵¹ These include tax exclusions, exemptions, adjustments, deductions, subtractions, credits, abatements, deferrals, rebates and special rules

Certified Fiscal Plan's efforts to realize budget savings and efficiencies and enhance the delivery of Government services

14.2 OCFO structure and agency efficiency measures

14.2.1 Future state structure

To enable this degree of centralized management, these functions must be concentrated under a single individual: the Chief Financial Officer currently responsible for overseeing the OCFO. Over time, relevant responsibilities presently distributed across various Government agencies should be consolidated within OCFO.²⁵² After this consolidation, the Government should consolidate or eliminate the following agencies (*Exhibit 82*):

EXHIBIT 82: LIST OF AGENCIES IN FUTURE STATE OCFO GROUPING

1 Department of Treasury (Hacienda)	4 Treasury (internal entity)
2 Office of Management and Budget	5 General Services Administration
3 Office of Administration and Transformation of HR	6 Fiscal Agency and Financial Advisory Authority ¹

Limited legislative support for OCFO consolidation and various delays around standardizing and upgrading financial systems have placed the broader benefits of a consolidated OCFO at risk. The Government has not complied with original deadlines to consolidate the requisite agencies under the OCFO. Although Executive Orders can facilitate initial reforms, a broader legislative and administrative overhaul conforming to the parameters set forth within the 2021 Fiscal Plan and PROMESA is necessary to establish an effective OCFO capable of executing the responsibilities and wielding the authority outlined above. And, while Act 73-2019 marks a step in the right direction, its primary benefits (improved visibility and budgetary controls) are contingent upon IT system upgrades and the creation of procurement boards that have yet to be realized.

²⁵² These agencies include but are not limited to: The Department of the Treasury, the Office of Management and Budget, the Government Development Bank (scheduled to be liquidated), the Office of Administration and Transformation of Human Resources, and the General Services Administration. AAFAF remains a separate entity per Government plans as of May 2020 but is included in OCFO agency efficiencies section for presentational purposes

Enabling improved financial stewardship

- **GSA centralized procurement staff and implementation (~\$6 million per year):** Starting FY2021 onwards, GSA has been funded with the staff needed to rapidly centralize procurement across the Government, focusing real effort on identifying opportunities to consolidate contracts, bring increased insight into spending, facilitating coordinated and rigorous vendor management, among other best practices.
- **Civil Service Reform Pilot:** The 2021 Fiscal Plan includes \$10 million in funds during FY2022 for a civil service reform pilot program (Pilot) to achieve an aligned and sustainable human capital strategy to meet future financial reporting challenges at the Commonwealth. The goal of this Pilot would be to design a workforce with the right people, the right skills, and the right mix to support, optimize, and transform financial management at the Commonwealth. The Pilot would cover financial and accounting positions at Hacienda and OMB and finance departments at PRDE, DCR, DOH and DPS. These human capital investments will enable swift implementation of the OCFO.
- **ERP implementation (\$36 million):** In FY2021, capital expenditure funding was provided for the implementation of a new Government ERP system -- \$14 million for Wave 1 and \$22 million for Wave 2 after the completion of Wave 1. However, Hacienda was unable to complete the required milestones during FY2021 and were not able to access the aforementioned funding.

14.2.2 Hacienda process streamlining and personnel rightsizing

By FY2022, Hacienda must attain a 15% net reduction (25% gross) in overall costs (approximately \$33 million or \$55 million gross).²⁵³ To do so, Hacienda should:

- Partner with private banks to reduce its real estate and personnel footprint
- Optimize non-personnel and procurement spend (e.g., support service consolidation)
- Digitize and optimize general processes to capture operational efficiencies

40% of Hacienda's gross cost reduction (approximately \$22 million) should be reinvested to bolster compliance activities and capabilities by:

- Hiring additional full-time employees for compliance activities (e.g., collection centers)
- Funding relevant technology investments to improve collection and reporting (e.g., fix challenges with SURI platform)
- Strengthening its in-house accounting capabilities and reduce its reliance on contracted accounting services
- Rolling out its internal ERP program

To-date, Hacienda has made progress in streamlining its processes, primarily by finalizing the roll out of the SURI digital platform and leveraging said platform in rolling out COVID-19 benefits. The agency has also been rightsizing its personnel with headcount decreasing by ~12% between FY2018 and FY2020. However, further improvements are needed in order to meet the FY2022 personnel target without compromising on its service quality.

During FY2021, additional resources were made available to Hacienda for hiring accountants; however, only ~12% of available funding has been used. Additionally, the ERP roll out has been delayed with Wave 1 (i.e., Hacienda's internal roll out) yet to be completed even though the Prior

²⁵³ For instance, a transformation within Her Majesty's Revenue and Customs agency (United Kingdom) reduced costs by 25% over a five-year period through a series of management initiatives, including IT cost reductions, realized operational efficiencies, reduced real estate footprint, and overall process improvements; see National Audit Office, "Reducing Costs in HM Revenue & Customs," 2011

Administration had already spent \$57 million on ERP-related consulting contracts over the past four years alone. The implementation of a centralized OCFO presents a valuable strategic opportunity to create a new Project Oversight structure over the implementation of the ERP to help address concerns over management direction and staff availability and commitment to the ERP implementation still need to be addressed, which are necessary for the success of the project.

14.2.3 ERP implementation status and actions needed

The successful implementation of a new ERP system can help drive changes in processes and at all levels of organizations. In Puerto Rico, the Government's ERP roll out has been consistently delayed with its initial wave (i.e. Hacienda's internal roll out) yet to be completed, despite prior administrations spending \$57 million on ERP-related consulting contracts over the past four years. The implementation of a centralized OCFO presents an opportunity to create a new Project Oversight structure over the implementation of the ERP to help address concerns over management direction, internal capacity, and staff commitment to the project.

The Government must document and standardize all processes that lead up to recording transactions and must replace processes that are redundant or inconsistent with those contained in the new ERP. Prioritization must take place to cleanse data that is inaccurate or inconsistently recorded in various parts of the organization later to be used for financial analyses and management decision-making. As these processes change, so do the roles of the people executing them, providing an opportunity to consolidate functions. During the process of implementing a new ERP system, the OCFO must educate all individuals involved in the transaction flow on the importance of their role to the overall integrity of the new ERP. The Government should not be automating inefficiencies, but rethinking the processes to take maximum advantage of the controls built into the new system and be constantly vigilant at pushing back on modifications allowing for old processes and procedures to continue. In this way, the implementation of ERP can be a key driver of efficiency and accuracy of financial functions.

Puerto Rico's ERP implementation process has suffered many cost overruns and implementation delays. Although there have been some factors outside of the control of Commonwealth's management, such as natural disasters, the project has:

- Lacked the basic day to day management control and involvement at all levels;
- Been driven mainly by contractors; and
- Misaligned with future state considerations of the Commonwealth's financial operations

The execution and future successful implementation of the recently enacted Executive Order 2021-018 issued by the Governor on March 2021, which expresses a commitment to fundamentally change the financial management of the Commonwealth, demonstrates a commitment from the Commonwealth to refocus its attention on the implementation of the ERP system and the improvements its successful implementation could drive.

Before the project's implementation there are several basic underlying and structural project oversight mechanisms that should be established. The OCFO must:

- Create an Executive Project Steering Committee Chaired by the CFO and composed of other executive level officials to oversee implementation;
- Create an ERP Implementation Team headed by the Commonwealth's project manager. Members of this team should be dedicated to this project on a full-time basis;
- Agree on a project plan with milestones and budget for completion of Wave 1 and projections of total project completion of subsequent Waves before restarting Wave 1; and
- Reassess the full project timeline and cost and impact of lessons learned in Wave 1 implementation at the conclusion of Wave 1.

The Commonwealth is expected to limit its reliance on contracted resources to assist with the implementation of the ERP. In fact, the Commonwealth must assure it has access to and can

maintain all of the consultant's work product that are key to the project's successful implementation. In developing the system, the Commonwealth must retain the project decision-making role, and to do so must be in a position to supervise and oversee the work of the contractor. The contractor's role should be clearly understood and documented, and any additional work of an operational nature should be scrutinized as to why it is not able to be performed by Commonwealth staff and the plan to migrate that work away from contractors to internal staff over time.

During FY2021, additional resources were made available to Hacienda for hiring accountants; however, only ~12% of available funding has been used. Additionally, the ERP roll out has been delayed with Wave 1 (i.e., Hacienda's internal roll out) yet to be completed even though the Prior Administration has already spent \$57 million on ERP-related consulting contracts over the past four years alone and indicated that Wave 1 completions was only weeks away only to find out that completion was further delayed. The implementation of a centralized OCFO presents a perfect opportunity to create a new Project Oversight structure over the implementation of the ERP to help address concerns over management direction and staff availability and commitment to the ERP implementation still need to be addressed, which are necessary for the success of the project.

EXHIBIT 83: ERP REQUIRED IMPLEMENTATION ACTIONS

	Required implementation actions	Deadline	Status / FY22 Budget Incentive
To be completed in FY2021	<ul style="list-style-type: none"> Create an Executive Project Steering Committee, chaired by the CFO and composed by other executive level officials to oversee the implementation 	May 2021	Not Started
	<ul style="list-style-type: none"> Designate project management team (with 3+ FTEs) to monitor and evaluate the progress and completion of the Enterprise Resource Management implementation. This team should be dedicated to this project on a full-time basis 	August 2020	Delayed - June 2021 (\$4.4M for Wave 1 implementation) ¹
	<ul style="list-style-type: none"> Provide to the Oversight Board a project plan with milestones and budget for the completion of Wave 1, and project completion of subsequent Waves before initiate Wave 1. 	June 2021	Not Started
To be completed in FY2022	<ul style="list-style-type: none"> Complete ERP Wave 1 implementation for the internal ERP system at Hacienda. 	September 2020	Delayed - August 2021
	<ul style="list-style-type: none"> Reassess the full project timeline and fees based on the results achieved in Wave 1. Furthermore, at the conclusion of Wave 1, present the impact of lessons learned throughout the implementation process of Wave 1 	August 2021	Not Started

¹ FY2021 budget incentives: Provide additional \$4.4M for capex related to ERP Wave 1 implementation)

14.2.4 Other OCFO personnel and non-personnel efficiencies

The Office of Management and Budget (OMB), the Office of Administration and Transformation of Human Resources (OATRH, by its Spanish acronym), and the General Services Administration (GSA) must also achieve significant savings as part of their consolidation under OCFO.

By FY2021 the OCFO was supposed to implement, but has yet to fully roll out procurement reform, centralizing Government-wide procurement processes and procedures at GSA, ultimately driving expected procurement savings across agencies.

During FY2021 the Government focused efforts on implementing the Procurement Reform Act by appointing required leadership positions such as a Chief Procurement Officer, a Bidding Official

and a centralized Bid Board, and by formalizing the Uniform Regulation for Purchases and Bids of Goods, Works and Nonprofessional services. Additionally, GSA is in the midst of transferring procurement employees from Central Government agencies as provided for in a circular letter published in January 2021. Although these milestones have advanced procurement centralization that should be continued during FY2022, savings have not yet been materialized given delays in reform implementation. For example, critical agencies, such as PRDE, that would drive efficiencies have not fully transitioned to the centralized procurement model.

Notwithstanding these efforts, the realization of OCFO efficiencies is currently delayed. These delays are tied to several factors: the absence of a plan to consolidate shared services, the lack of an HR management system, and the Government's movement of the OCFO within AAFAF and later to Hacienda. To achieve the 2021 Fiscal Plan savings projections, OCFO reforms must be implemented at the pace outlined below in *Exhibit 85*.

14.3 Looking ahead – efficiency savings to be achieved and required implementation actions

OCFO must continue driving consolidation and other reforms, as detailed in the previous section, in order to achieve the annual run-rate savings through FY2026 outlined in *Exhibit 117*. During the 2021 Fiscal Plan period, personnel efficiencies must continue to deliver run-rate savings of \$26 million and non-personnel efficiencies of \$73 million by FY2026.

EXHIBIT 84: OCFO MEASURES SUMMARY OF IMPACT

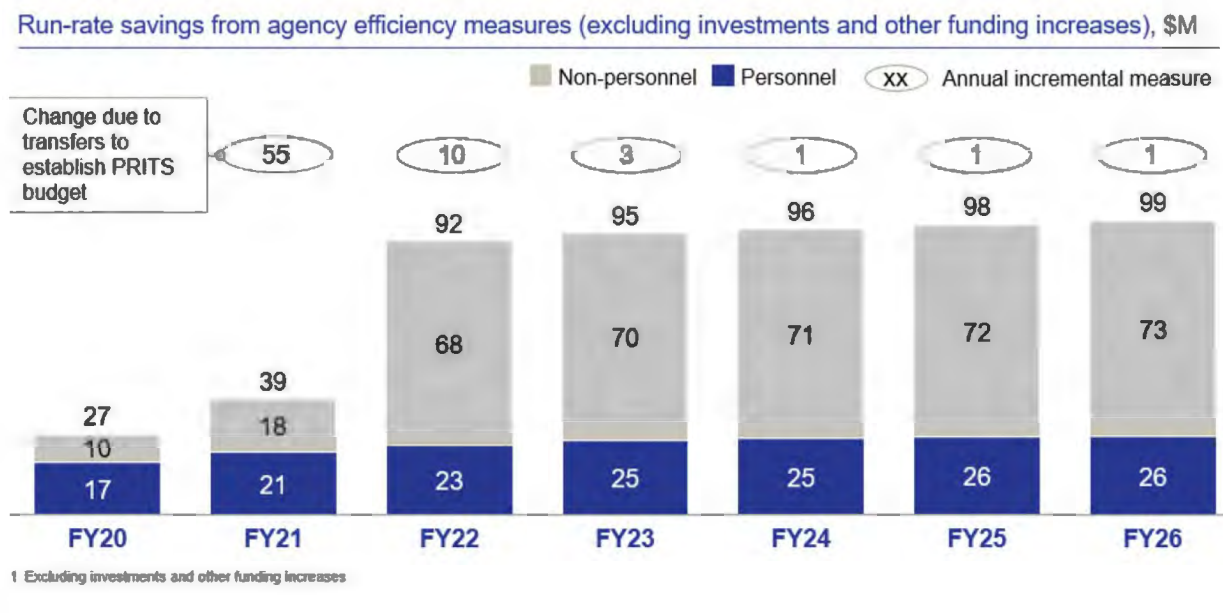


EXHIBIT 85: OCFO REQUIRED IMPLEMENTATION ACTIONS

	Required implementation actions	Deadline	Status / FY22 Budget Incentive
To be completed in FY2021	▪ Transfer DC plan funds from 2017 onward (located in temporary trust) into newly created segregated accounts, including payroll transfer of the employee contributions to the new DC account ¹	▪ Quarterly progress	▪ Completed
	▪ Publish the 2018 Audited Annual Report	▪ June 2021	▪ On track
	▪ Provide an action plan for the audit process and publication of the 2019, 2020, and 2021 Audited Annual Reports	▪ June 2021	▪ On track / Release \$1.5M for professional services
To be completed in FY2022	▪ Create and recruit associate Chief Financial Officer positions for the following groupings: (a) Economic Development, (b) Education, (c) Health, (d) Housing, (e) Public Safety and (f) Justice, whose authority would fall under the OCFO pursuant to enabling legislation	▪ December 2020	▪ Delayed - September 2021
	▪ Ensure passage of legislation to enable consolidation and empower OCFO to act as the central authority over finance, budget, human resources, audit, etc. ¹	▪ December 2020	▪ Delayed - December 2021
	▪ Publish the 2019, 2020, and 2021 Audited Annual Reports	▪ December 2021	▪ On track
	▪ All entities covered under Act 73-2019 must submit Annual Acquisition Plan to GSA, as provided for in Circular Letter 2021-04	▪ March 2022	▪ On track

¹ For all entities supported by the General Fund or dependent on the Government's taxing authority

Chapter 15. Agency efficiency measures

In accordance with Section 201(b)(1) of PROMESA, the Fiscal Plans for Puerto Rico “provide a method to achieve fiscal responsibility and access to the capital markets.” When the Fiscal Plan process began in 2017, the Government had approximately 16,500 employees across 114 Executive, Legislative, and Judicial branch government agencies, excluding large instrumentalities.^{254,255,256} These agencies **were ineffective and inefficient at delivering the services needed by the people of Puerto Rico, while consuming resources that were outsized compared to the population served.**

Even now, compared with U.S. states serving similar populations, Puerto Rico remains an outlier in terms of the sheer number of agencies. For example, as of 2018, Connecticut had only 78 state agencies, while Iowa had just 36. Staffing and managing an organization of this size is highly challenging and complex, even in a stable fiscal and economic environment. With over 100 direct reports to the Governor, it has been a practically impossible management task. **In addition, notwithstanding the amount of spending, there are countless examples of subpar service delivery across the Government.** For instance, despite having six agencies primarily dedicated to the financial stewardship of the Island, the Government has been unable to consistently issue consolidated audited financial statements on a timely basis. Further, Puerto Rico’s education system has a record of consistently delivering unsatisfactory student outcomes,

²⁵⁴ These include Puerto Rico Electric Power Authority (PREPA), Puerto Rico Aqueduct and Sewer Authority (PRASA), Highways and Transportation Authority (HTA), University of Puerto Rico (UPR), Public Corporation for the Supervision and Insurance of Cooperatives (COSSEC, by its Spanish acronym), and the Government Development Bank (GDB)

²⁵⁵ Excludes transitory employees.

²⁵⁶ Excludes agencies which currently have \$0 operating budget and no employees.

including below- U.S. mainland average graduation rates and standardized test scores that are far below basic proficiency levels.

To assure the delivery of essential services while achieving financial sustainability, **the Government must focus on operational efficiencies to enable better service delivery in a cost-effective way.** A leaner, more efficient, and transformed future Government of Puerto Rico should wherever possible reflect mainland U.S. benchmarks in terms of both number and size of agencies.

As part of the new Government model, the Government must conclude the process of consolidating the over 110 agencies into **no more than 49 agency groupings and independent agencies** (see *Section 25.2*). In some cases, these consolidations should better focus the competing efforts of multiple agencies, such as the Economic Development grouping, which is consolidating ten agencies into one. In other cases, the consolidations should serve to move services closer to residents, such as the Healthcare grouping, which will consolidate access points to important services like Medicaid. In all cases, consolidations will enable agencies to streamline back-office processes, eliminate duplicative resources and benefit from procurement efficiencies.

In addition to agency consolidations, the 2021 Fiscal Plan outlines operational and process improvements that must be made to more efficiently use resources—including staff, equipment, services, and buildings—across agency groupings such as Education (PRDE), Corrections (DCR), Health (DOH), and Public Safety (DPS). The goal of such efficiency measures is to improve the quality of the underlying services for the population while also directing valuable resources toward priorities and achieving the cost savings needed to balance the Government budget.

These measures were developed through an iterative process with the Government and are designed to ensure compliance with necessary savings targets without compromising the quality of public service delivery on the Island—and actually improving it in many cases. These include various agency-specific efficiency (rightsizing) measures as well as certain government-wide savings measures:

- **Agency-specific personnel measures:** Personnel efficiencies specific to each agency (e.g., back-office consolidation, process re-engineering to enable headcount rightsizing and aligning resources with mainland U.S. state benchmarks) that will enable the reduction of payroll expenditure levels
- **Agency-specific non-personnel measures:** Operational efficiencies specific to each agency (such as procurement centralization and optimization of spend, consolidation of facilities) that will enable the reduction of non-payroll expenditure levels
- **Government-wide compensation measures:** Standardization of personnel policies throughout government (including institution of a standard employer healthcare contribution, a hiring freeze, a payroll freeze, elimination of the Christmas bonus and prevention of carryover of sick/vacation days beyond the statutory caps) to enable the reduction of payroll expenditures across agencies even without reducing employees
- **Government-wide non-personnel measures:** Utilities efficiency improvements and conscious usage of electricity and water (e.g., PREPA and PRASA) to result in savings on utility expenses. Further, reductions of professional services to enable the professionalization of the civil service and reduce reliance on outside consultants. Finally, elimination of ‘englobadas,’ or less transparent spending to improve fiscal controls and accountability.
- **Budgetary adjustments and other funding:** Adjustments made on an annual basis to reflect new information obtained during the budget process. These include funding to ensure Government agencies meet federal requirements (e.g., consent decrees), provide quality front-line service delivery, and to reflect changes in agency operating needs.

- **Investments:** Agency-specific one-time or recurring funding provided to enhance service and improve the fiscal and financial management of the Government (such as the Pilot phase of the Civil Service Reform), to improve the tourism and economic activity of the Island (such as the hosting of the Central American and the Caribbean Games²⁵⁷), provide quality front-line service delivery (by continuing to fund pay raises to teachers, firefighters, police), enhance growth and labor productivity (such as through scholarships for UPR students, and funds for workforce development programs) and focus on implementation of efficiency measures.

To date, the Government has unfortunately failed to demonstrate meaningful progress in implementing agency consolidations or otherwise improving operational efficiency, though it has generally met budget targets. The Government has also struggled to properly activate several investments provided by the Oversight Board.

To achieve personnel savings, the Government has primarily utilized broad-based early or incentivized retirement programs (e.g., the Voluntary Transition Program and Voluntary Pre-Retirement Program),²⁵⁸ (Law 211-2015, as amended)), instead of driving optimization of back-office roles²⁵⁹ or alignment of front-office roles with mainland U.S. states' benchmarks (e.g., State Elections Commission personnel). Furthermore, the Government's efforts through these untargeted retirement programs have encouraged critical personnel to retire early leading to large payouts with high retirement rates, major gaps in skills and capabilities, and a slower, less effective government.

To achieve non-personnel savings (required since FY2018), the Government started to make changes during FY2021 to its procurement processes. FY2021 was the first year that the General Services Administration (GSA) received a General Fund allocation to carry out procurement centralization. The agency has managed to centralize some contracts and has begun to transition procurement employees across Central Government agencies. The GSA has also started assessing Government-wide procurement needs to attain efficiencies and achieve savings. Despite this consolidation of certain contracts across agencies, GSA claims it will take additional time to complete procurement centralization and achieve material savings. Additionally, procurement efforts have not been appropriately aligned with the consolidation of physical locations of operations, causing inefficient spending to continue longer than necessary. For example, utility expenses at closed schools have largely continued even though the schools are unused, and officers continue to be staffed to guard closed correctional facilities.

Finally, some funds have gone unspent or been utilized ineffectively. While there is some progress—DCR, for example, has successfully used funds provided to start its review of habitable spaces to enable prison consolidations, and salary raises have been provided to frontline police officers—there have been struggles in implementing many investments. For example, PRDE misspent funds for raises to teachers and directors in FY2019 and FY2020, leading to a costly lawsuit and delays in providing raises. Similarly, funds for a Firefighter Academy have only been used partially (not to the extent budgeted for) due to the inability of the Firefighters to establish a successful program to date. Funds for healthcare IT and capital expenditures have also gone largely unspent, though the procurement process has been initiated for most initiatives. And funds provided for FEMA Disaster Relief Funding cost share have been redirected to other uses, such as funding to cover state share of projects that are not disaster related. These are just selected examples among many. To truly enhance efficiency and effectiveness, these funds should be deployed – and deployed correctly – as soon as possible.

In addition to the above, the 2020 Fiscal Plan allocated \$73 million of implementation budget incentives in FY2021 for PRDE, DCR, DDEC, DOH, Hacienda, and AAFAF to

²⁵⁷ Funding subject to a determination on the availability of federal funds i.e., American Rescue Plan (ARP) Act

²⁵⁸ Law 211-2015, as amended

²⁵⁹ e.g., Through reduction of duplicate administrative roles in DCR or centralizing back-office operations in the Office of the Chief Financial Officer (OCFO)

accelerate transformation of core government services and encourage progress in high priority areas, including but not limited to meeting higher data quality and transparency standards, conducting operating model/capacity analyses, and building up essential infrastructure to facilitate process improvements. Agencies that completed full implementation of certain required actions for specific projects by the stated deadline would be eligible to receive budget incentives upon certification by the Oversight Board. **DDEC and AAFAF completed the required actions** within the determined deadline, making them eligible for the budget incentive. **However, PRDE, DOH, and Hacienda did not meet the requirements to comply with the implementation** of required actions within established deadlines. As such, these agencies lost the budget incentive. Many agencies like DOH and DCR, on the other hand, requested a deadline extension for the budget incentive due to delays in their procurement processes.

The implementation of 2021 Fiscal Plan initiatives and measures is required to achieve operational efficiency and improve government services. More than ever, given the significant influx of federal funding received as a result of natural disasters and the COVID-19 pandemic, all agencies must develop a long-term financial plan by December 2021 to serve as a concrete working plan to allocate State and federal resources in order to meet short and long-term objectives. A comprehensive long-term financial plan must have clear milestones, deadlines and actions that account for agency needs (short and long-term), while also focusing on implementing crucial agency efficiencies detailed in this chapter.

15.1 Agency operational efficiencies and improvements

The 2021 Fiscal Plan continues to outline savings the Government is expected to achieve through both agency-specific and government-wide personnel and non-personnel measures.

15.1.1 Agency-specific personnel and non-personnel efficiency measures

There are several actions that have been applied to each agency to achieve these targets:

- **A series of agencies must be merged** when benchmarking and best practices determine that activities across agencies could be better served through a single mission and management to eliminate redundancies, and/or where economies of scale make shared services more economical without reducing quality of service
- **A small subset of agencies will be left independent but must be made more efficient** through a series of streamlining efforts related to both personnel and operations, allowing the agencies to provide improved services at a lower cost to taxpayers
- **Some agencies will be closed completely or privatized** if their function and programs are not required, or can be transferred to private ownership, resulting in a 100% personnel and non-personnel savings for all non-federal funded expenditures after a two to three-year wind-down period (a minimum of 50% savings must be achieved no later than year two). The Government proposed three agencies for closure: Model Forest; Culebra Conservation and Development Authority;²⁶⁰ and Company for the Integral Development of Cantera's Peninsula;²⁶¹
- Additionally, the 2021 Fiscal Plan requires **the transfer of ownership or change in legal status of the Public Broadcasting Corporation (WIPR)** to a not-for-profit organization.

²⁶⁰ Agency will only be partially closed, so funding will be reduced by 32% overall starting in FY2020. No progress to date

²⁶¹ To be closed on July 1, 2033 per current law.

The 2021 Fiscal Plan lays out three major types of areas of operational efficiency across all agencies (whether consolidated or kept independent, but made more efficient):

- **Back-office personnel savings:** Achieve process efficiencies, centralization, and/or digitization of redundant tasks and eliminate role duplications in administrative positions. These levers have demonstrated savings of 15-20% in entities undergoing mergers
- **Front-office personnel savings:** Achieve personnel efficiencies by ensuring staffing levels are consistent with operational drivers with benchmarks from mainland U.S. states
- **Procurement/non-personnel savings:** Achieve operational efficiencies through contract renegotiations, reduction of rent payments, bundling acquisition across agencies, and other initiatives. Similar reforms of this nature have been shown to create savings of 10-15% for public and private sector entities

The Oversight Board and the Government established a working group in 2018 to develop the roadmap for these rightsizing efforts, which became the basis for the Fiscal Plans. For several of the larger agency groupings (i.e., PRDE, DOH, DPS, DCR, DDEC, and OCFO), the 2021 Fiscal Plan lays out specific reforms that are expected to be implemented in each of these areas. For other agencies, the 2021 Fiscal Plan sets savings targets that agencies are expected to achieve through their own operational improvement plans. Finally, while the Government has indicated that some consolidation plans may change, the Government shall still be responsible for achieving the total annual savings projected in the 2021 Fiscal Plan.

Furthermore, Act 73-2019, as amended, requires all Government entities to prepare an Annual Procurement Plan based on the agency's annual estimate of probable needs and purchases, using as reference the purchases made during the previous fiscal year. The plan must include a list of all goods, works and non-professional services that are considered necessary for the next fiscal year. GSA is responsible for publishing annual guidelines for the preparation of such plan, which must be submitted to GSA by March 31st of each year. Going forward, all agencies must comply with this requirement, which in turn will allow them to obtain an understanding of the purchases to be made during the year, identify potential savings, ensure compliance with budget targets, and flag opportunities to improve current processes and procedures. Although Act 73-2019 does not require the agencies to prepare a plan for annual professional services, they must in fact prepare a similar plan that details all professional services to be contracted by them during the fiscal year in order to obtain similar benefits.

15.1.2 Cross-cutting personnel measures

In addition to driving operational improvements specific to service delivery, the Government is expected to achieve cross-cutting personnel expenditure reductions through several initiatives which would reduce the requirement to reduce personnel:

Maintaining a payroll freeze: The March 2017 Fiscal Plan included a measure (which became law in FY2018) to freeze all payroll expenditures. To extend the savings from freezing payroll increases and minimize further rightsizing of staff, the freeze must be continued through the end of FY2023.

Standardizing healthcare provided to government employees: Medical insurance is a core benefit provided to all government employees. However, the degree of coverage varies widely across government agencies, with some employees receiving superior coverage compared to their peers. For instance, PRDE employees receive an average of \$120 per month in medical benefits, whereas employees of the Housing Finance Authority receive on average over \$730 per month.²⁶² To ensure fairness and reduce expenditures, the Government must implement its proposal to **standardize employer health insurance contributions so that all Commonwealth**

²⁶² Per latest FY2021 Housing Finance Authority payroll roster.

agencies contribute \$125 per employee per month, or \$1,500 per year.²⁶³ This initiative should have been fully implemented by the start of FY2019, but the Government has failed to implement it to date. Compliant with the 2021 Fiscal Plan, the annual budget includes an appropriation to cover the healthcare contribution up to \$125 per employee per month.²⁶⁴

Reducing additional outsized non-salary compensation paid to employees: There are several policies that the Government must continue to enforce through the duration of the 2021 Fiscal Plan that will impact personnel spend. These include:

- Asserting a hiring freeze with stringent requirements for backfilling positions left open by attrition or workforce reduction
- Limiting paid holidays to 15 days annually across all public employees
- Prohibiting carryover of sick and vacation days between fiscal years over the statutory caps (60 days for vacation and 90 days for sick leave, aligned with Act 26-2017)
- Prohibiting any future liquidation of sick and vacation days in excess of the amount of days permitted by law
- Eliminating funding for the Christmas bonus

The hiring freeze measure has been included in the Fiscal Plans since the March 2017 Fiscal Plan. The 2021 Fiscal Plan continues to require the policy, while also requiring the Government to propose stringent requirements for the backfilling of any opened positions, and to gain budgetary approval by the Oversight Board before the requirements are implemented.

The other measures outlined above were enacted in Act 26-2017, except for the elimination of the Christmas bonus. The elimination of the Christmas bonus was to be implemented starting in FY2019, but unfortunately the Government paid the bonus without approval from the Oversight Board. In FY2021, the Oversight Board reached an agreement with the Government of Puerto Rico to pay employees the Christmas bonus as long as it was done within the existing contours of the Commonwealth FY2021 Certified Budget. Certified Budgets do not include funding for the Christmas bonus.

15.1.3 Cross-cutting non-personnel measures

In addition to driving operational improvements specific to service delivery, agencies should reduce spend on utilities, as well as on other areas of the budget which have been historically “opaque” in terms of where funds are flowing:

- **Reducing utility spend over time:** The Government should implement energy efficiency initiatives that reduce utility payments in line with mainland energy efficiency efforts such as the U.S. Federal Energy Management Program (FEMP). Energy efficiency initiatives would include facility & fleet optimization (e.g., recycling), improved procurement agreements, and strategic investments, potentially through utility capital expenditure. By FY2023, the Government must achieve savings of 15% on its FY2018 utilities expenses, considering the rate increases projected by PREPA and PRASA. While savings associated with this measure were paused for FY2021, they have been reinstated for FY2022.
- **Reducing spend on historically low-visibility areas:** The Government should continuously monitor and reduce expenses in historically low-visibility areas (e.g., “unclassified professional services” and “englobadas”). The 2019 Fiscal Plan required a one-time and government-wide 10% incremental cut on professional services spend and 10% limit to unclassified professional services. While no incremental cut is explicitly required in

²⁶³ The exception is public corporations, which should maintain current employer contribution levels for those employees with chronic pre-existing conditions. There are also exceptions based on the recent Plan Support Agreement.

²⁶⁴ The exception is public corporations, which should maintain current employer contribution levels for those employees with chronic pre-existing conditions. There are also exceptions based on the recent Plan Support Agreement.

FY2021, the Oversight Board continues to expect more rigorous documentation and justification for such spending before approving its inclusion in future agency budgets. The 2021 Fiscal Plan will maintain the 10% limit on unclassified professional services.

As with prior Fiscal Plans, this 2021 Fiscal Plan includes implementation exhibits that date back to Fiscal Plans certified in 2018 (starting *Chapter 7*). These exhibits continue to show implementation dates that have been passed without Government completion of the action. The Government must act as soon as possible to address these missed milestones and to accelerate the pace of change. This 2021 Fiscal Plan therefore lays out future dates for missed milestones, by which the Government must implement the actions.

15.2 Investing to support agency efficiency and recovery

The 2021 Fiscal Plan includes new incremental funding to support the Government in its efforts to operate effectively and sustainably. These include:

- **Investments in frontline service delivery:** The 2021 Fiscal Plan includes several incremental investments in frontline service delivery, including compensation and benefit raises for police officers, support for Special Education therapy, and teacher compensation; funds to attract additional recruits to the Emergency Medical Services Corps and Institute of Forensic Sciences; and investments in healthcare, including funds for opioid treatment, telehealth, electronic health records, hospital capital expenditures, scholarships for medical students who commit to practice outside of major metro areas, and additional school nurses.
- **Support for accelerating operational improvements:** The Government's lack of progress on operational changes to date has created a risk to government services delivery, especially given the effects of the recent earthquakes and COVID-19. The 2021 Fiscal Plan includes implementation budget incentives that would become available when certain milestones are accomplished (e.g., consolidation of back-office functions).
- **Funding to enable consent decree compliance:** Several Puerto Rico Government agencies are subject to federal consent decrees that require them to adhere to certain regulations. These consent decrees often mandate funding requirements (e.g., certain funding levels to Special Education students). The 2021 Fiscal Plan includes funding for all consent decree requirements of which the Oversight Board is currently aware.
- **Funding for agency priorities:** The Government's proposed initiatives include investment such as the fourth phase of "Abriendo Caminos" infrastructure improvement program and additional funding for regular maintenance programs for the road infrastructure (Department of transportation and public works), hire additional personnel for Specialized Domestic Violence, Sexual Crimes and Child Abuse Units (Department of Justice), increasing funding for the Comprehensive Cancer Center and support to host Central American and Caribbean Games²⁶⁵ as stimulus to post-COVID local and international tourism and general economic activity.
- **Funding for Civil Service Reform:** The 2021 Fiscal Plan includes funds for Government-wide civil service reform, as discussed in *Chapter 13*. This funding is intended to enhance training, performance management, recruitment and retention of Government employees, and thereby professionalize the public workforce.

Specific investments are detailed by agency in the following sections.

²⁶⁵ Funding for the Central American and the Caribbean Games will be made available following the selection of the host and subject to a determination on the availability of federal funds i.e., American Rescue Plan (ARP) Act

15.3 Department of Education (PRDE)

The Puerto Rico Department of Education (PRDE) is the largest government agency within the Commonwealth, with approximately 44 thousand employees, charged with providing high quality education for approximately 276 thousand K-12 students across the Island at 858 schools. However, as *Chapter 8* indicates, PRDE has struggled to improve educational outcomes for its students and to operate at a size commensurate to its student enrollment.

As discussed in *Chapter 8*, a significant factor driving PRDE's subpar outcomes is **a set of underlying bureaucratic systems and structures that are ineffective and inefficient**. Simply stated, PRDE has not developed the internal capacity, or led with commitment to a clear plan to manage the complex educational dynamics in Puerto Rico. As the largest agency by both personnel headcount and budget dollars, PRDE is outsized relative to its results and needs. While student enrollment has declined considerably over the past few decades (over 50% decline since its peak in 1980 and approximately 33% in the past decade) in line with a declining population, prior to the 2017 Fiscal Plan, the number of schools and teachers had not decreased proportionally.^{266, 267} Furthermore, although regional offices are up and running, they currently function more as an additional layer of bureaucracy, rather than as mechanisms to drive change and shared learning closer to the student and parent populations in schools.

The Oversight Board has made a number of suggestions to help PRDE operate in more strategic ways while aiming to fulfill its core function of driving a more efficient and cost-effective educational delivery model. The one year pause on agency efficiency measures during FY2021 presented PRDE with the opportunity to start implementing necessary reforms; however, the Department was unable to move these initiatives forward, in part due to its focus on managing through the operational challenges faced during the COVID-19 pandemic and the significant leadership turnover during the election year.

Upon preliminary review of PRDE personnel and non-personnel expenses for FY2021, it would appear that PRDE achieved some savings (e.g., the number of core teachers is aligned to 2021 Fiscal Plan targets); however, these are known to be the result of low teacher staffing levels in some areas and increased vacancies due to the remote learning environment rather than adherence to the structural changes required by the 2021 Fiscal Plan. The Oversight Board anticipates the level of savings and budget underspending to decrease as PRDE resumes full in-person instruction. In addition, the Department has not achieved progress in increasing the academic support in the regional offices or executing planned workforce reductions in other areas. This effect was deeply felt by the school community during the COVID-19 pandemic since many critical schools supports (e.g., teacher coaches or "facilitadores", family engagement coordinators) were significantly lacking. At the same time, PRDE continues to have a deficit in some academic areas such as English. Currently, PRDE does not have an adequate number of English teachers to support students across the Island, which in turn result in schools that are sub-scale and require targeted resources, on a per student basis.

The Oversight Board recognizes that PRDE has been operating in a complex environment in the wake of Hurricanes Maria and Irma, earthquakes, and the ongoing COVID-19 pandemic. However, beyond these crises, PRDE continues to be challenged by its bureaucratic processes and the significant lack of system capacity that hinders its ability to implement necessary reforms. While *Chapter 8* offers recommendations and benchmarks to improve management capacity of the system and, in turn, student outcomes, this chapter focuses on the operational and financial process improvements required to support increased transparency and better decision-making at PRDE. While agency efficiency measures are applied to the State budget, PRDE needs to unlock

²⁶⁶ Helen F. Ladd and Francisco L. Rivera-Batiz, "Education and Economic Development in Puerto Rico" *The Puerto Rican Economy: Restoring Growth*, Brookings Institution Press, Washington, D.C., 2006, 189-238

²⁶⁷ There were 1,619 public schools in 1990 and 1,131 at the time of reporting. Oversight Board Listening Session, Secretary Julia Keleher, "On the Road to Transformation," November 30, 2017

and strategically allocate all sources of funding. This will only be possible if PRDE has clear insight to its existing spend through improved financial reporting processes.

During FY2021, PRDE was able to finalize and sign the Third-Party Fiduciary Agent (TPFA) contract (related to Special Conditions imposed by the U.S. Department of Education (USDE) in June 2019). Failure to finalize the contract in prior years (based on PRDE's inaction) had prevented PRDE from accessing ~\$1.12 billion total from FY2021 and FY2020 USDE federal funds. However, the Oversight Board, and the Government of Puerto Rico, now expect these funds to be released during FY2022. In addition to these recurrent federal funds, PRDE received an unprecedented allocation of federal funding in FY2021 as a result of the COVID-19 pandemic and prior natural disasters. Incremental federal funds available to PRDE include:

- ~\$2.3 billion of disaster relief funding designated by FEMA to support reconstruction of damages caused by Hurricane Maria.
- ~\$4.5 billion of COVID-19 related federal funding meant to address high priority needs associated with planning for a safe return to school and offering robust learning opportunities in the case of extended in-person school closures. This amount includes various stimulus, such as:
 - ~\$349 million of Coronavirus Aid, Relief, and Economic Security Act (CARES) funds
 - ~\$1.3 billion of the Coronavirus Response and Relief Supplemental Appropriations (CRRSA) Act
 - ~\$2.9 billion of the American Rescue Plan (ARP) Act
- A portion of the ~\$173 million allocated to the Governor's Emergency Education Relief Fund, authorized by CARES (~\$48 million) and CRRSA (~\$125 million).

The above funding will require a clear plan and rigorous controls to provide for the basic needs of students and families, nonetheless, these are not meant to reduce the expectation that the Department accelerate a major transformation of its operations and basic management improvements to better provide services and maintain fiscal balance. Without active management, operational improvements and leadership, PRDE will likely continue to see student outcomes stall.

The initiatives and milestones included in this chapter aim to provide a roadmap for PRDE to improve its operational efficiency and achieve savings targets required by the 2021 Fiscal Plan. **It is important to note all these initiatives were developed in collaboration with the Government and/or are based on PRDE's internal guidelines and regulations.** Given the immeasurable effects of the COVID-19 pandemic and other natural disasters on student learning, there has never been a greater need to drive operational process improvements and strategically reallocate resources to provide better services to the children of Puerto Rico.

Investments to drive operational improvements

The 2021 Fiscal Plan continues several investments that have been made in past years to ensure PRDE has what it needs to fulfill federal requirements and to enable better service delivery. These include:

- **Teacher and school director compensation (~\$285 million over five years):** The 2018 and 2019 Fiscal Plans provided salary raises for teachers and directors in FY2019 and FY2020. Unfortunately, PRDE mistakenly excluded transitory teachers and directors from these raises, which generated a lawsuit against the Department. As such, the 2020 Fiscal Plan provided the funding to cover the retroactive raises for these groups. As of March 2021, PRDE had taken the necessary steps to transfer the funds from the custody of OMB to PRDE in order to cover the FY2019 and FY2020 raises for transitory teachers and directors.

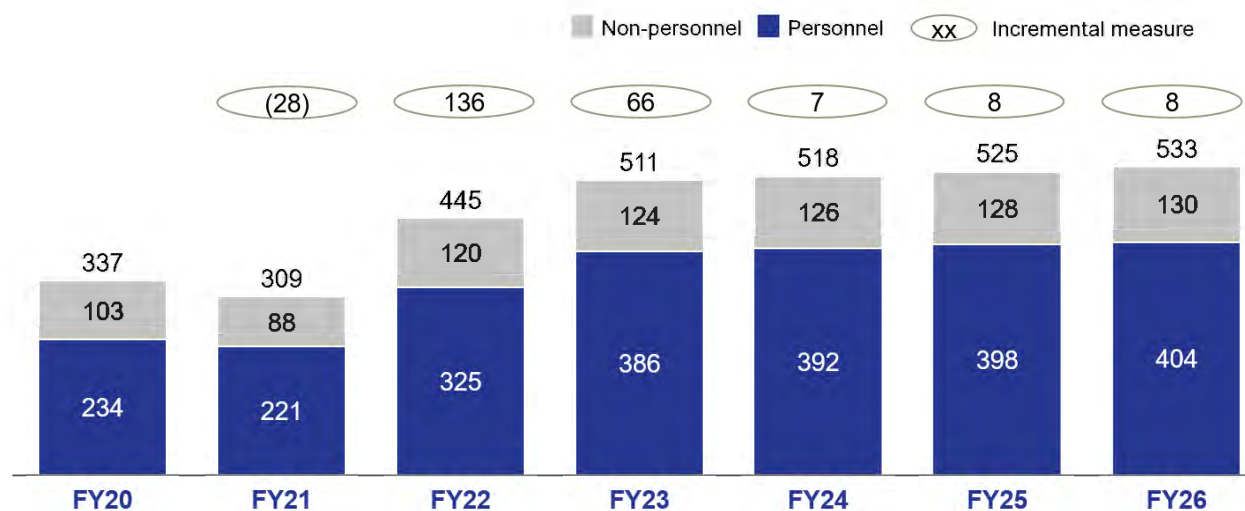
- **Special Education and Remedio Provisional program specific FY2022 budget accounting:** In addition to the funding above, the 2021 Fiscal Plan continues to ensure that PRDE is compliant with legal requirements for the Special Education and Remedio Provisional program. In order to ensure proper resources are allocated to all special education students, the FY2022 Budget for the Special Education Program and the Remedio Provisional Program will be separately presented from PRDE's overall budget. By presenting the budgets separately, the Oversight Board can ensure resources are properly allocated based on Special Education student enrollment and needs, while also ensuring greater transparency in program spending.

Overview of efficiency measures

The COVID-19 pandemic caused significant prolonged disruptions to the education system and PRDE was mainly able to focus on providing virtual education, which impacted the advancement of initiatives to proactively capture savings. To help the Government manage the COVID-19 pandemic and to progress implementation across key reforms, the Oversight Board allowed a one-year deferral on agency efficiency measures for FY2021. However, starting in FY2022, PRDE is once again required to generate personnel and non-personnel savings outlined in *Exhibit 86*. The Oversight Board is analyzing the formal guidance released by the U.S. Department of Education on how to calculate the Maintenance of Effort (MOE) requirements associated with the COVID-19 funding, and will determine what, if any, implications the MOE requirements have on the Commonwealth, UPR, and PRDE funding provided in the 2021 Fiscal Plan and FY2022 Commonwealth Budget.

EXHIBIT 86: DEPARTMENT OF EDUCATION MEASURES SUMMARY OF IMPACT

Run-rate savings from agency efficiency measures¹, \$M



¹ Excluding investments and other funding increases

15.3.1 Improving student-teacher ratio

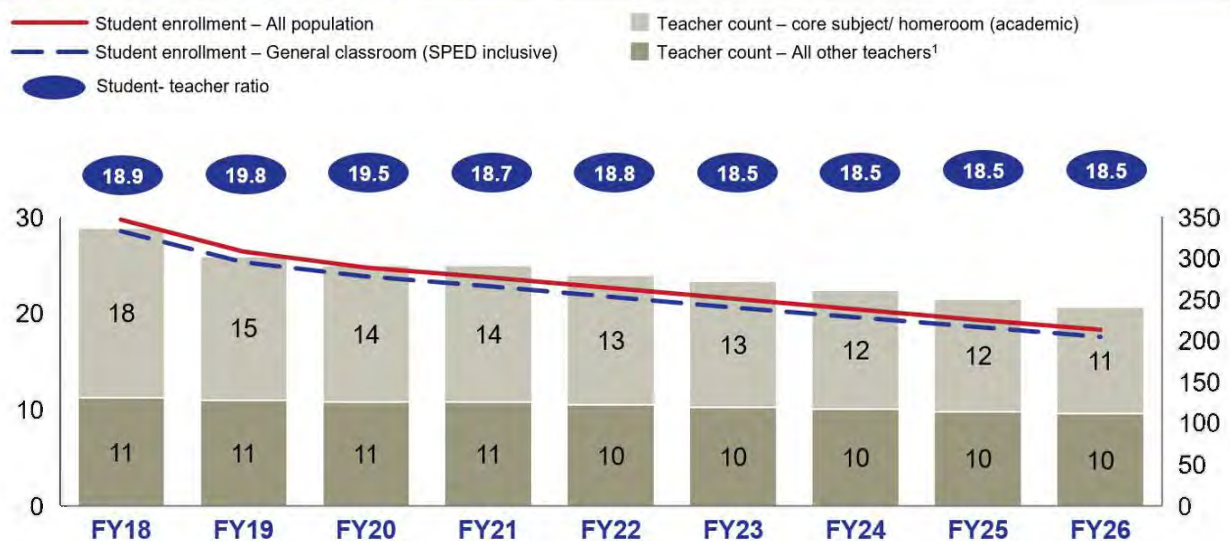
One key indicator of school efficiency is the student-to-teacher ratio (ST ratio) used across the school system. Given the need for PRDE to rightsize its resources in alignment with a steadily declining student enrollment, it should aim to manage its ST ratio to ensure improvements in efficiency. The Oversight Board recognizes that these are challenging times for the Department and that it may need to staff additional resources to address the tremendous student learning loss due to the pandemic. For this, PRDE must take advantage of the recent influx of non-recurring, non-General Fund dollars (e.g., stimulus, federal funds) to support these critical student needs through temporary staff that may not need to be incorporated as permanent positions. As described in *Section 8.3*, PRDE should protect against the possibility of this new headcount

creating a budget overspend by developing a long-term financial plan that efficiently leverages all funding sources available.

The ST ratio calculation is based on data from the Department and includes both general education students as well as Special Education students who spend most of the school day in inclusive classrooms with their general education peers (known as “salón recurso”). The teachers counted in the ST ratio are those that teach core subjects and/or homeroom classrooms.²⁶⁸ The staffing of all other teachers (previously referred to as ‘non-academic’ teachers) are expected to be rightsized through attrition.²⁶⁹

EXHIBIT 87: TEACHER HEADCOUNT AND STUDENT ENROLLMENT

PRDE historical and target teacher headcount, thousands



¹ Excludes librarians, program coordinators, counselors, or social workers

PRDE will need to monitor its teacher staffing formulas and more systematically apply its own guidelines, referred to as Organización Escolar, to assign teachers based on classroom size. Although PRDE initially assigns teachers based on these guidelines, it also allows for various exceptions which are not adequately documented. For example, PRDE may choose to retain an extra teacher in a school with declining enrollment if the teacher is not able to fill a vacant position at the current school or move to another school due to extenuating circumstances (e.g., onerous travel distance per Collective Bargaining Agreement (CBA)).

Due to the impact of the COVID-19 pandemic and remote learning, for the 2020-2021 school year, PRDE did not hire the number of teachers it would typically hire in an in-person school year. This has resulted in a ST ratio of ~18.9 for December 2020 (13.9k core teachers and 263.1k students served in general education classrooms) which is slightly better than the 2021 Fiscal Plan target of 18.7. However, as PRDE resumes in-person learning, and hires additional teachers to support it, the ST ratio is expected to decrease below the 2021 Fiscal Plan target.

²⁶⁸ Core subjects / homeroom teachers include those that teach General Education, English, Math, Science, Spanish, History, and homeroom

²⁶⁹ All other teachers include, for example, Career and Technology, PE, Arts, and Special Education teachers

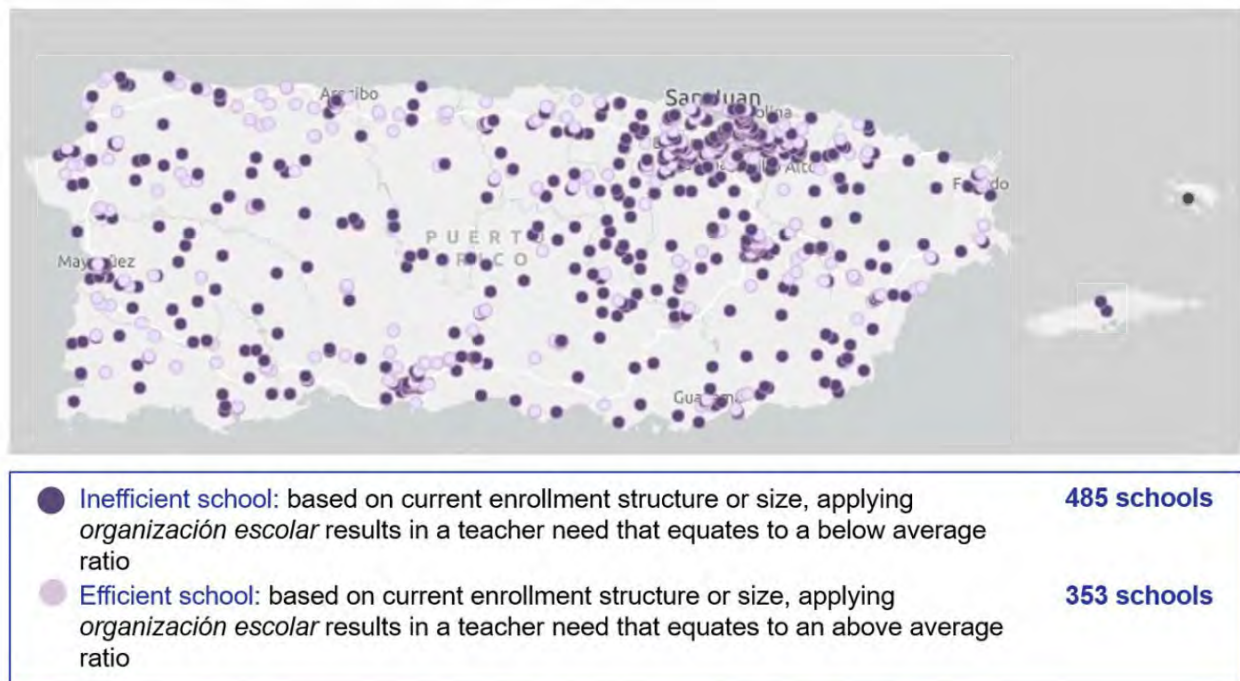
EXHIBIT 88: PRDE ORGANIZACIÓN ESCOLAR STAFFING POLICIES

	Formal policy	Implied guidelines	No implied guidelines
General Education	<ul style="list-style-type: none"> Class size maximums (PK: 16, K-3: 25, 4-12: 30) 	<ul style="list-style-type: none"> Grades 6-12: 5 classrooms per pod of 5 teachers – consisting of math, science, history, Spanish, and English teachers 	<ul style="list-style-type: none"> General Education assistants (n≈80)
Specialty		<ul style="list-style-type: none"> English (K-5): 5 classes taught per day PE: 1 every 250 students Arts, Health, Career & Technology: 1 per subject per 6-8 and 9-12 grade 	
Special Education	<ul style="list-style-type: none"> Class size maximums <ul style="list-style-type: none"> Regular, reduced enrollment: 16 Full-time classroom (promotion): 12; Full-time classroom (modified): 10 Resource teachers: 25 pull-outs per day Therapists: based on individual IEP 	<ul style="list-style-type: none"> Note: Special Education class size maximums in practice are lower than stated formal policy 	<ul style="list-style-type: none"> Special Education assistants (n=5.8k) Note: Driven in large part by IEPs, but exceptions are made based on need with no firm ratios
Source / Policy	<ul style="list-style-type: none"> Organización Escolar (General Education + Special Education) Convenio Colectivo 	<ul style="list-style-type: none"> Escuela Basica HR Director guidance 	<ul style="list-style-type: none"> Decisions are made flexibly

Notes: Special Education issued their first school organization policy in FY18-19. *PRDE communicated 1 nurse per school is required by Law 85, though the language is not apparent
SOURCE: Carta Circular num. 05-2019-2020, PRDE política pública sobre la organización escolar para el programa de educación especial y los requisitos de promoción y graduación para los estudiantes con discapacidades matriculados en las escuelas del departamento de educación de puerto rico, May 2019

By following its own staffing guidelines, PRDE would be pursuing a more efficient staffing structure; however, PRDE could ultimately fall short of 2021 Fiscal Plan targets over time given that many schools operate at inefficient enrollment levels and thus incur in significant “breakage” (i.e., underutilized teachers). For example, if a school has 36 students in third grade, that school will need two third grade teachers with classrooms of 18 students each, even though those teachers could theoretically teach an additional 7 students each, (i.e., up to 25 students per class), per *the Organización Escolar* guidelines. This type of situation is pervasive across the Island: in FY2020 only 40% of PRDE’s schools operated at roughly efficient school size (see *Exhibit 89*). These schools are geographically dispersed across the Island with inefficiencies existing in all regions and urban/suburban/rural areas. The issue can be best addressed with active footprint management, taking into consideration geographic and student demographic constraints.

EXHIBIT 89: MAP OF PRDE SCHOOLS BY ABILITY TO ACHIEVE EFFICIENT STAFFING



As enrollment is projected to decline by 4-5% each year through FY2026 (due to overall Island population decline), this issue of breakage will worsen, with schools increasingly less able to maintain efficient staffing levels. While the 2021 Fiscal Plan does not require additional school closures (which would reduce breakage in the system), it is nonetheless important to acknowledge the personnel (and operating) costs of managing a school system where capacity exceeds enrollment. PRDE has the opportunity to assess its existing school footprint and long-term plan through the Facilities Master Plan which will need to be prepared to assess the ~\$2.3 billion of disaster relief funding designated by FEMA to support reconstruction of damages caused by Hurricane Maria.

EXHIBIT 90: REQUIRED IMPLEMENTATION ACTIONS FOR IMPROVING STUDENT-TEACHER RATIO

	Required implementation actions	Deadline	Status / New deadline
To be completed in FY2021	<ul style="list-style-type: none"> Review current staffing levels against PRDE staffing guidelines (Organización Escolar) across all schools and identify schools with incorrect mix of teaching staff 	<ul style="list-style-type: none"> December 2020 	<ul style="list-style-type: none"> Delayed – November 2021
	<ul style="list-style-type: none"> Define an implementation plan to align teacher count to current Organización Escolar guidelines for identified schools – this change would allow PRDE to meet the Fiscal Plan savings targets for FY2022 to FY2025 	<ul style="list-style-type: none"> May 2021 	<ul style="list-style-type: none"> Delayed – August 2021
	<ul style="list-style-type: none"> Outline a plan to streamline the process for school staffing in a transparent data-based manner that will allow PRDE to continue to manage the student-teacher ratio in a systematic way 	<ul style="list-style-type: none"> May 2021 	<ul style="list-style-type: none"> Delayed – December 2021
To be completed in FY2022	<ul style="list-style-type: none"> Define an implementation plan to align teacher count to current Organización Escolar guidelines and meet Fiscal Plan targets for FY2022-FY2025 	<ul style="list-style-type: none"> August 2021 	<ul style="list-style-type: none"> Not Started
	<ul style="list-style-type: none"> Implement a streamlined process to systematically apply staffing guidelines and document allowable exceptions to teacher assignments to ensure that going forward PRDE is able to maintain an appropriate allocation of teaching staff in all schools 	<ul style="list-style-type: none"> December 2021 	<ul style="list-style-type: none"> Not Started

15.3.2 Capturing savings from past school consolidations

The Government of Puerto Rico recognized that declining student enrollment requires active management of school facilities to enable the system to invest in a smaller number of higher-

performing schools. Therefore, in 2018, the Government proposed to consolidate schools to improve overall efficiency within the system. After an analysis of several factors including capacity, geographic and cultural characteristics, distance to neighboring schools, transportation costs, and facility quality, the joint Government / Oversight Board proposal within the October 2018 Fiscal Plan included a measure for PRDE to close 307 schools by FY2020 which was projected to result in ~\$111 million of run-rate savings by FY2023. By FY2020, PRDE had consolidated 255 schools, and the Oversight Board determined that no further closures were required at the time. However, PRDE committed to capture the full savings estimate (representing ~\$15-20 million per year²⁷⁰) elsewhere. Unfortunately, to date, school consolidations have not led to proportional personnel and non-personnel costs savings because the consolidations have not been accompanied by concurrent reductions in administrative staff or operational savings.

On the personnel side, this initiative requires the number of school administrators (school directors, office staff, etc.), food service staff, facility maintenance staff, and other school-specific staff to be scaled down to account for a smaller number of schools than achieved to date through consolidation efforts.

EXHIBIT 91: RUN RATE SAVINGS TARGET AND ACTUAL RUN RATE SAVINGS ACHIEVED, BY PERSONNEL CATEGORY (FY2021)

School personnel category	Run rate savings target, \$M	Actual run rate savings, \$M
Administration	29.6	11.0
Maintenance	18.8	7.7
Food Services	28.8	5.2
Total	77.2	23.9

SOURCE: PRDE Personnel roster December 2020

The 2021 Fiscal Plan requires the Department to maintain its 2018 average of 3.39 food services full-time employees (FTEs) and 2.24 school administrative FTEs per school. As of December 2020, PRDE employed 3,588 food services staff and 2,230 school administrators (implying a ratio of 4.45 and 2.77²⁷¹ respectively). This is an excess of 1,274 employees from 2020 Fiscal Plan expectations for FY2021 and equivalent to ~\$42.2 million in unrealized run-rate savings in that same fiscal year. As such, in FY2022 PRDE must prioritize rightsizing headcount to meet 2021 Fiscal Plan personnel saving targets.

Recently, PRDE provided internal guidelines for staffing food services and school administrative staff. The full implications of the information received in late FY2021 is still being reviewed and analyzed. However, based on the evidence received, PRDE actual ratios are distant even from their internal guidelines. PRDE must achieve the personnel savings committed to when the 307 school closures were proposed, as required in the 2021 Fiscal Plan.

Furthermore, PRDE must also achieve a 2.27 maintenance FTEs per school ratio. Recently, PRDE provided supporting information for staffing maintenance personnel, which specified PRDE staffs 1 FTE per 13 building units (a unit is defined as 1 classroom, 2 bathrooms, 1 office, or 1 library). However, when asked to provide the building data necessary to assess if current staffing levels align with these guidelines, no further information was made available to the Oversight Board. As of December 2020, PRDE had not met 2020 Fiscal Plan targets for maintenance staff, employing 2,200 employees for a ratio of 2.61. As such, in FY2022 PRDE also must prioritize rightsizing maintenance headcount to meet 2021 Fiscal Plan personnel saving targets.

²⁷⁰ Non-personnel saving per school (~\$47,000) was the result of analyzing Government-provided school closure data from previous years and represents the average non-personnel savings across a group of 151 closed schools

²⁷¹ Based on Agency Efficiency Measure model target of 806 operating schools

EXHIBIT 92: SUMMARY OF CBA / STAFFING GUIDELINES FOR FOOD SERVICES, MAINTENANCE AND SCHOOL ADMINISTRATION

	Formal Policy	Source / Policy
School Administration	<ul style="list-style-type: none"> No formal CBA Escuela Básica indicates 1 administrative FTE / school 	<ul style="list-style-type: none"> Escuela Básica HR Director guidance
Maintenance	<ul style="list-style-type: none"> 1 maintenance FTE per 13 units¹ 	<ul style="list-style-type: none"> Maintenance staff CBA (2012)
Food Services	<ul style="list-style-type: none"> 1 food services FTE per every 9-14 meals served per hour² 1 food services supervisor FTE per school 	<ul style="list-style-type: none"> Food services staff CBA (2012)

1 Unit defined as 1 classroom, 2 bathrooms, 1 office, or 1 library
2 Meals served per hour calculated based on overall meal volume

On the operational side, school consolidations required PRDE to capture non-personnel savings, including reductions in spend on facilities/utilities, professional services, and purchased services, among others.

To date, PRDE has struggled to capture these additional operational savings. The Department has not provided a clear view into how the consolidation of 255 schools has resulted in lower utilities and other operating costs. However, PRDE has been working to avoid unnecessary payments in closed schools by diligently reconciling utility bills from PREPA and PRASA and increasing inter-agency communication. PRDE claims it has been able to recoup a significant amount from identification of excess electricity charges and water charges (although no supporting documentation has been shared), and the Department committed to continue monitoring these bills to avoid overpayment in the future in both closed and active schools.

Despite moderate progress made, many closed school buildings have been left empty or repurposed for administrative uses, inhibiting PRDE's ability to capture full savings from each of the school closures. PRDE has identified 56 school buildings to repurpose for administrative uses, including 41 to be used as inactive archives, regional offices, and for other administrative uses, and 15 to be used by a non-profit alternative education program (Proyecto Centros de Apoyo Sustentable al Alumno (CASA)); however, PRDE has not provided a capacity assessment to justify this decision. As part of its Facilities Master Plan, PRDE must work towards minimizing the spend on retained buildings and therefore achieving the required 2021 Fiscal Plan savings.

Further, notwithstanding that PRDE is not the owner of the schools, the Government (including PRDE, DTOP, PBA, AAFAF and any other relevant Government agency) must make every effort to finalize a plan for sale or lease to ensure the unused buildings are most efficiently utilized in communities and do not create new community challenges due to their abandonment. In FY2022, PRDE is expected to capture all the outlined 2021 Fiscal Plan savings for both personnel and operational savings.

EXHIBIT 93: REQUIRED IMPLEMENTATION ACTION FOR CAPTURING SAVINGS FROM PAST SCHOOL CONSOLIDATIONS

	Required implementation actions	Deadline	Status / New deadline
To be completed in FY2022	<ul style="list-style-type: none"> Define an implementation plan to rightsize food services personnel, maintenance, and school administrators according to internal staffing guidelines (e.g., CBA) and Fiscal Plan targets 	<ul style="list-style-type: none"> August 2021 	<ul style="list-style-type: none"> Not Started
	<ul style="list-style-type: none"> Provide a savings analysis of the 255 schools closed, including rent, utilities, maintenance, security, property materials, telecoms, etc. 	<ul style="list-style-type: none"> September 2021 	<ul style="list-style-type: none"> Not Started
	<ul style="list-style-type: none"> As part of the Facilities Master Plan, PRDE will work with other Government agencies (e.g., DTOP, AEP, AAFAF) to plan for the sale/lease/other of unused buildings, assess the cost to maintain ~56 closed schools for alternate use and identify a funding source to cover these operational expenses 	<ul style="list-style-type: none"> November 2021 	<ul style="list-style-type: none"> Not Started

15.3.3 Rightsizing regional and central offices

The 2021 Fiscal Plan supports PRDE's own proposed shift from a single central administrative office model to a central/regional administration model. By pursuing a regional model, PRDE had aimed to enable faster, more locally relevant educational services; drive system-wide initiatives and shared services from a central office; and reduce administrative headcount. In this new central/regional model, administration of individual schools would be decentralized and made leaner while also putting decision-making closer to students and families. Developing and relying on regional leadership would also allow PRDE's central administrative structure to rightsize to staffing levels comparable to state educational agencies on the mainland. In keeping with the push toward a central/regional model, Fiscal Plans have required that by FY2020, PRDE achieve approximately a 25% reduction in administrative headcount between regional and central office roles; this target has been maintained in the 2020 and 2021 Fiscal Plans.

As of December 2020, PRDE had ~2.8k staff that held central/regional office roles: 722 in the central office, 607 in the seven regional offices, and the largest portion, ~1.5k, in field-based roles that are directly serving schools or groups of schools but tagged to regions. **A comparison analysis of PRDE's administrative headcount for FY2020 and FY2021, which includes those in central and regional offices not directly serving schools, shows that there has been no progress in rightsizing headcount to meet savings targets.**

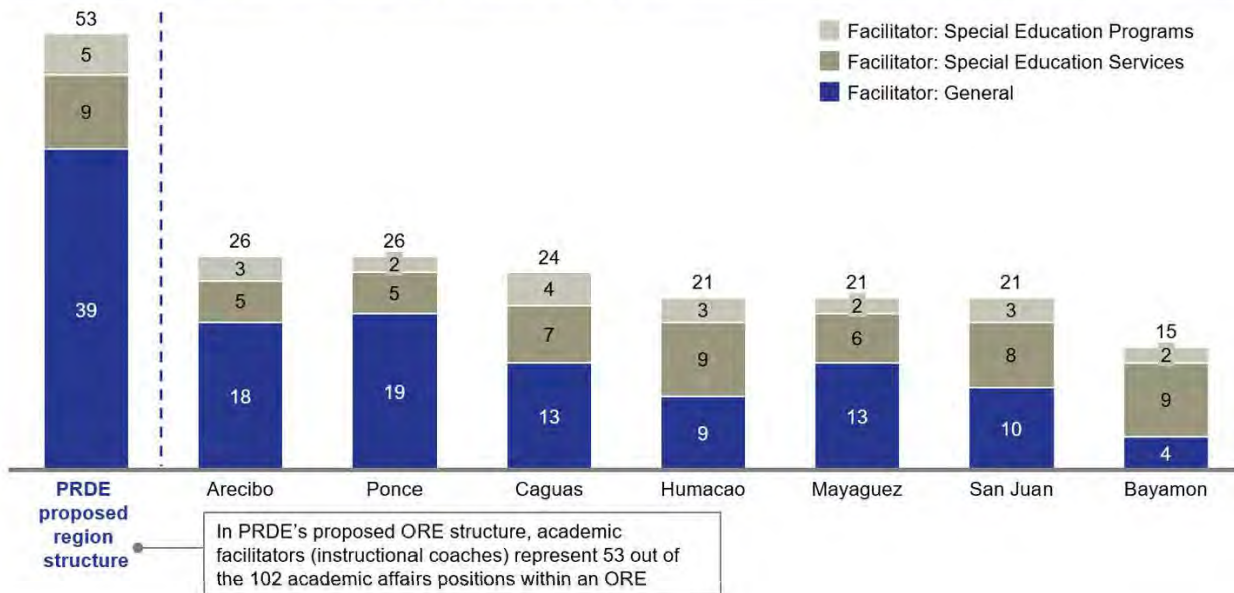
In order to meet 2021 Fiscal Plan targets going forward and maximize the impact of its staff, the Department must first clearly define the roles and responsibilities of functions at the regional and central level to identify capacity gaps and better empower the regions. There is currently redundancy in responsibilities to be resolved at the central and regional levels, which contributes to process inefficiencies and lack of ownership over decisions. Furthermore, these issues lead to unclear definitions of success, prevent high performers from being elevated to leadership positions, and limit opportunities for professional development programs differentiated based on the level and function of the staff member. PRDE must enable its staff to succeed through clearly defined roles, formal accountability structures, and professional supports to build relevant skills as outlined in *Chapter 8*. Addressing these concerns will result in a more efficient system and staff who understand how to maximize their contributions to improve the Department.

Additionally, to achieve the vision of a decentralized model, PRDE must realign existing resources to fill critical vacancies at both the central and regional level. In doing so, PRDE should re-evaluate dispersion of responsibilities across the central leadership team to create an organizational structure that best supports the needs of the Department. Furthermore, PRDE must ensure enough support at the regional levels, where there was a 20% reduction in field-based staff from FY2020-FY2021. In particular, there has been a stark understaffing of community engagement

regional coordinators, with four of seven posts remaining vacant, and of academic support staff, including facilitators who support teacher development.

EXHIBIT 94: ACADEMIC FACILITATOR COUNT VERSUS TARGET

Proposed regional headcount vs. current state for academic facilitators, Dec 2020



SOURCE: PRDE Personnel roster Dec 2020

Moving forward, PRDE must pursue its vision for a better-defined central/regional model by clearly defining the role of the central and regional offices and eliminating duplicative responsibilities between the offices. Subsequently, PRDE must fill key vacancies in all levels of the system, with a particular focus on increasing academic support staff as well as rightsizing administrative headcount in the central and regional offices to ensure resources are more adequately focused on driving student achievement in schools.

EXHIBIT 95: REQUIRED IMPLEMENTATION ACTIONS FOR RIGHTSIZING REGIONAL AND CENTRAL OFFICES

	Required implementation actions	Deadline	Status / New deadline
To be completed FY2022	<ul style="list-style-type: none"> Delineate roles and responsibilities for each function of the Central vs. Regional offices in a manner that allows PRDE to identify duplicative responsibilities and re-prioritize school support in the regions 	August 2020	Delayed – December 2021
	<ul style="list-style-type: none"> Define an implementation plan to invest in Region's school support function by re-allocating staff to increase academic facilitator positions in the regions and reduce administrative headcount in the central and regional administrative offices, aligned to Fiscal Plan targets for FY2022 to FY2025 	December 2020	Delayed – August 2021
	<ul style="list-style-type: none"> Identify critical vacancies at central, regional, and school level and develop a plan to fill with high potential candidates by reducing and reallocating existing resources, particularly administrative positions 	August 2021	Not Started
	<ul style="list-style-type: none"> Define implementation plan to achieve 25% reduction in administrative headcount between regional and central offices 	December 2021	Not Started

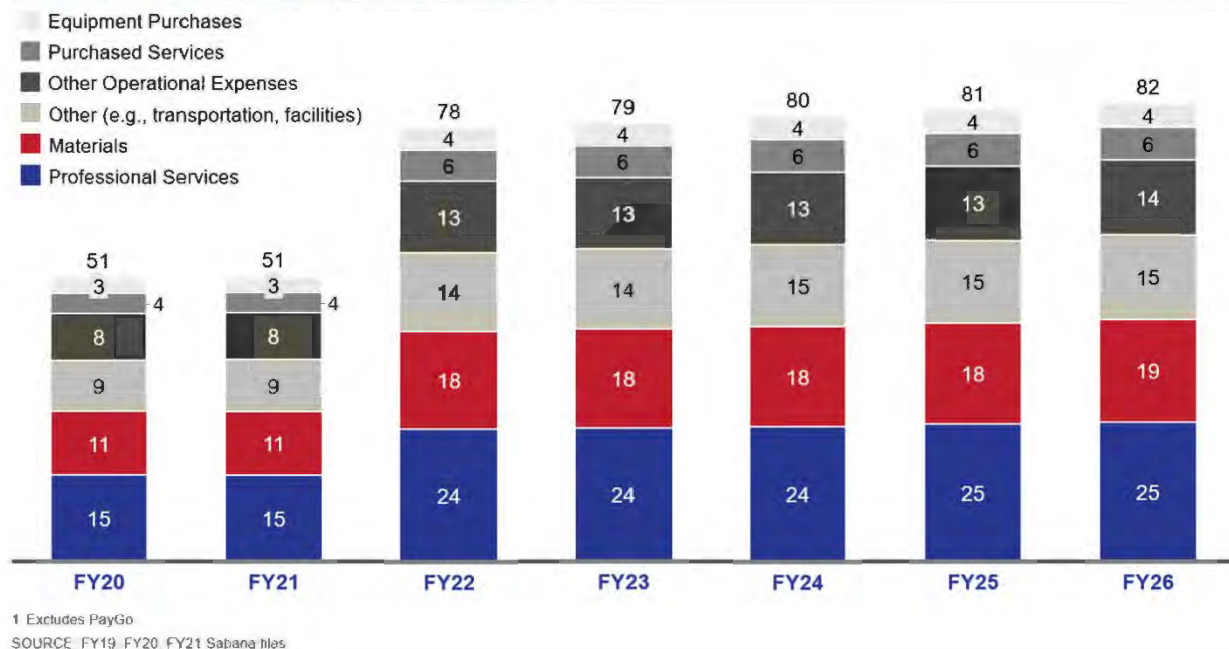
15.3.4 Reducing procurement spend

PRDE procurement spend must be reduced by 10-15% by FY2023 through centralized procurement policies, including strategic purchasing, and demand controls. As detailed in *Exhibit 96*, PRDE must meet 2021 Fiscal Plan savings targets across all procurement categories, by creating greater spending transparency, consolidating vendor contracts, and prioritizing savings

in areas that represent variable costs (which generally decline as enrollment does) and those that have less impact on students and schools.

EXHIBIT 96: SUMMARY OF EXPECTED PROCUREMENT SAVINGS PER 2021 FISCAL PLAN

Procurement savings target by spend concept¹, \$M



Even if PRDE operated within 2020 Fiscal Plan budget targets for FY2021, PRDE has not made notable progress in implementing structural initiatives to drive sustainable procurement savings, and instead has waited for the procurement centralization within the **General Services Administration (GSA)** to realize procurement savings. Starting on FY2022, GSA will start taking an increased role in procurement on behalf of PRDE, although PRDE is still accountable for achieving these procurement savings in the interim.

PRDE's ability to make informed strategic management decisions on how to effectively allocate resources to procurement expenses is constrained by a lack of transparency in spending. The 2020 Fiscal Plan highlighted the need to increase transparency of spending data (e.g., providing more visibility into the ~40-50% of non-personnel expenses tagged to categories with unclear descriptions or listed as "unclassified"), in order to allow PRDE to identify areas for efficiencies. During FY2021, PRDE took some initial steps to implement new subcategories in the financial system (Financial Information System of the Department of Education or SIFDE by its Spanish acronym) to better classify spend in the Professional and Purchased Services concept codes, and it should now aim to assess this spend and identify areas for vendor consolidation and/or other procurement efficiencies. Also, as part of the long-term financial plan mentioned in *Section 15.1.1*, PRDE must assess and rationalize spending across funding sources to ensure it is efficiently leveraging all funding sources available.

Lastly, as mentioned in *Section 15.1*, PRDE must comply with Act 73-2019, as amended, which requires the agency to prepare an Annual Procurement Plan based on the agency's annual estimate of probable needs and purchases. Although Act 73-2019 does not require agencies to prepare a plan for annual professional services, PRDE must prepare a similar plan that details all professional services to be contracted during the fiscal year to obtain similar benefits, including an understanding of the purchases to be made during the year, identifying potential savings, ensuring compliance with budget targets, and flagging opportunities to improve current processes and procedures.

Facilities costs

Currently, there is still very little transparency into what PRDE spends on facilities. PRDE continues to capture facilities related spend in several cost concepts, making it difficult to disaggregate between type of spend, including custodial, maintenance, capital expenditures, etc. The Oficina para el Mejoramiento de Escuelas Públicas (OMEP), which represented ~60% of facilities spending in FY2019, implemented minor changes in its system during this past fiscal year to increase alignment with SIFDE and better capture facilities spend. However, OMEP has yet to implement an expense reconciliation process with SIFDE, which limits the visibility into total facilities costs. Driving to a greater level of transparency in how OMEP spends its budget across the various facilities cost concepts will help PRDE make sure dollars are being allocated with the appropriate level of prioritization. As such, in FY2022 PRDE must implement updates to capture all facilities spend at PRDE (e.g., spend from OMEP) in a more streamlined manner and to be able to differentiate spend between maintenance, capital expenditures and custodians.

The 2020 Fiscal Plan discussed how PRDE must commission the development of a Facilities Master Plan to assess its portfolio of buildings alongside their purpose and plan for the future. During FY2021, PRDE contracted a vendor to complete a Facilities Master Plan as part of the requirements of the FEMA Accelerated Award Strategy (FAASt) funding obligation. An initial master plan is expected to be completed mid-to-late 2021 with the full plan finalized in early 2022. This plan would account for changing needs and demographics of schools on the Island by prioritizing investments in school buildings that have a long-term place in the school footprint and are equipped with 21st century features and resources as well as disaster-resilient infrastructure. The plan must also identify alternative uses of its facilities that may be phased out over time. As such, in FY2022 PRDE must comply with the FEMA requirement to create a facilities master plan that assesses the need of PRDE facilities portfolio and share all versions of such plan with the Oversight Board.

Transportation costs

Federal Individuals with Disabilities Education Act (IDEA) dollars and School-wide funds have been used by PRDE in the past to fund student transportation; however, USDE-imposed restrictions on PRDE currently prohibit the use of federal funds for transportation. This is due to the fact that PRDE has had a series of reports on non-compliance with the provisions of the Code of Federal Regulations and the IDEA Law related to improper payments, lack of internal controls, non-compliance with its own policies, and lack of adequate monitoring in relation to the issuance of payments for transportation services to students of the Special Education Program. Thus, at the moment, PRDE must completely fund both General and Special Education student transportation through the General Fund until compliance with USDE-imposed special conditions and other USDE requirements are met. Ultimately, this puts increased pressure on State dollars for student transportation instead of being able to leverage a portion of federal dollars.

During FY2021, PRDE made progress in implementing the transportation system updates that would address USDE findings, but it has yet to present these updates to USDE to assess completion of the actions. PRDE must prioritize this work in FY2022 to achieve greater flexibility in funding sources for student transportation.