

Implementation Launch

April 25, 2023



Today's Agenda

Objective

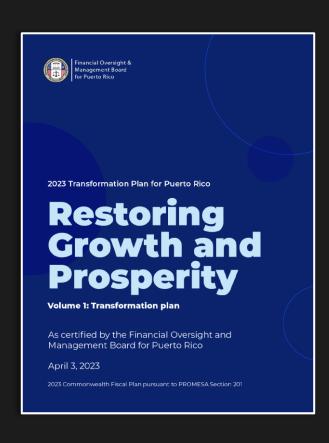
5 Facts about the current landscape

5 Solutions to implement today

Ways you can get involved



FOMB, DDEC, and the Government of Puerto Rico see talent as cornerstone to our economic transformation strategy





- Diversified Economy with Local & Global Integration
- Enterprising Island
- Globally Competitive Citizens
 - Talent with high-quality knowledge, leadership, and management capabilities
 - Private and public workforce integrated with global trends and industry best practices
- Advanced Infrastructure
- Social Wellbeing

1 Objective

To become a top 10 state/territory for 21st century talent by generating +50K additional skilled workers over the next 10 years





Identifying the most promising technical skills and solutions to offer economic mobility for Puerto Ricans and drive critical industry growth



Making strategic investments to maximize ROI on every public dollar investment



Doubling graduates in technical fields to ~12,500 per year



FACT 1 Talent is the #1 issue on CEOs' minds...



95% of execs rate availability of skilled labor as critical in site selection

...causing many states to make large-scale investments in talent



NORTH DAKOTA

~\$400M for workforce initiatives through Accelerate ND



VIRGINIA

\$2B+ in Tech Talent Investment Program



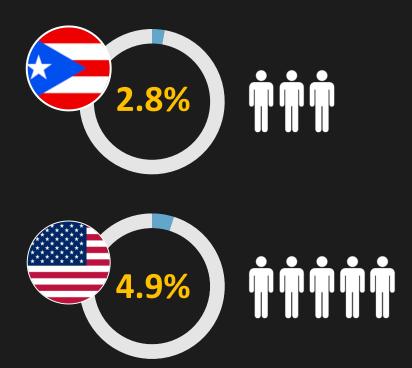
ILLINOIS

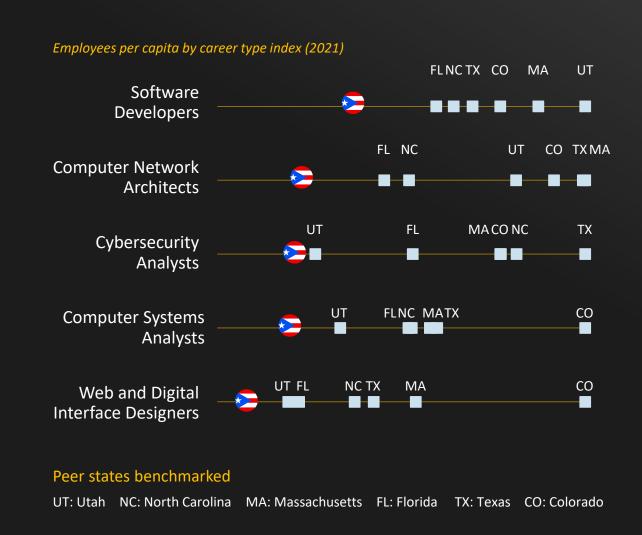
\$1B to build tech talent pipeline + \$44M for job training and youth career pathways



FACT 2 | Less than 3% of Puerto Rico's workforce occupies 21st Century Jobs resulting in a lag in most technical roles compared to other US states

Technology and Engineering as % of total workforce







FACT 3 | K-12 system lacks strong integration and exposure to technical skills

K-12 performance has opportunity for improvement

Of students achieving math proficiency in PR, ~20% below US average for public school students¹

Decline in graduation rates from 2017–22 at Occupational and Technical schools

Decline in the number of operational technical schools over the last 20 years

Creating a weak pipeline for technical degree programs

If you don't get comprehensive understanding of what compsci is in HS, you're not going to study it in college

Transfer and drop-out rates for CompSci majors are extremely high because students don't know what they were getting themselves into

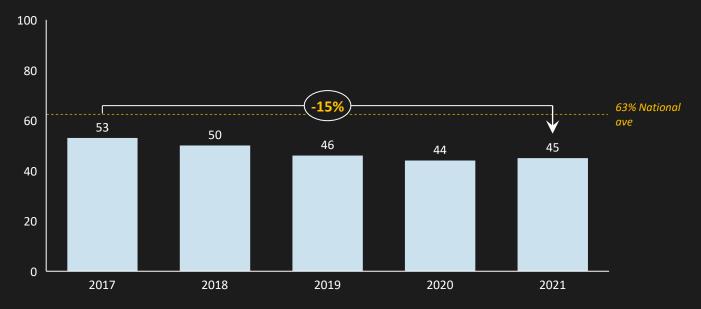


FACT 4 | High university drop out rates and outmigration are leaving Puerto Rico with few graduates that can fill 21st Century jobs



Graduation rates for technical and engineeringclassified schools have declined 15% since 2017...

Graduation Rates of Institutions Classified as Technical or Engineering, 2017–2021 (%)





...and 56% of Puerto Ricans with post-secondary education leave

Puerto Rico is not the first option for students when they graduate, especially engineers.

Big reason is pay

Puerto Rico has significant brain drain We cannot compete with the mainland U.S. salaries or quality of life. We see many of our graduates leave

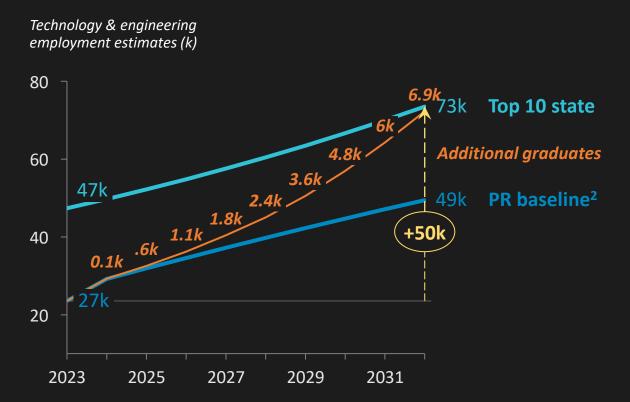
Puerto Rican companies largely do not offer internships to students before they graduate, so, they get offers elsewhere and leave – or don't come back if studying in the mainland

Directional estimates

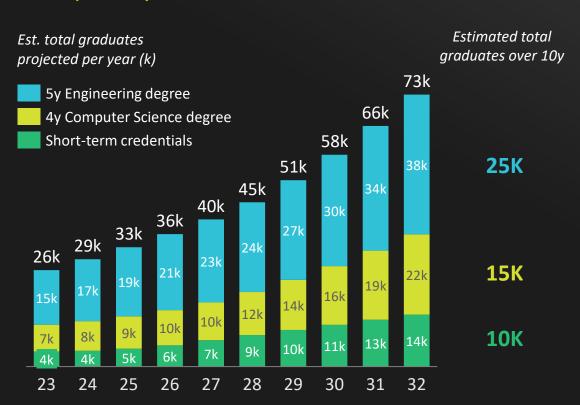


FACT 5 | We need at least 2x larger graduating cohorts across all technical training and degree programs

+50k students to be trained in engineering and computer science in the next 10 years



Graduates to be trained across three priority areas



^{1.} Top state given tech and engineering roles as a % total workforce; estimating a 5% YoY growth in demand for tech and engineering roles

^{2.} Assuming 5,684 technical graduates per year, 40% outmigration rate, and 2.2% annual exits

5 Facts about the current landscape



Talent is the #1 issue on CEOs' minds, causing many states to make large-scale investments in talent



<3% of Puerto Rico's
workforce occupies 21st
Century Jobs resulting in a
lag in most technical roles
compared to US states



K-12 system lacks strong integration and exposure to technical skills



High university drop out rates and outmigration are leaving Puerto Rico with few graduates that can fill 21st Century jobs



We need at least 2x larger graduating cohorts across all technical training and degree programs



Strategic priorities to shape our path forward and enable our vision





Better prepare
K-12 students for
21st century jobs
by increasing
technical careerfocused prog.
and upskilling
teachers



Increase availability and quality of shortform technical credentials



Expand
high-quality
engineering
and computer
science programs
at universities,
and better
retain graduates



Create more robust provider landscape for skilled trade/middle skill certifications



Invest in recruitment and upskilling of relevant instructors/faculty across the education spectrum



Launch a "Quick Start" program as one-stop-shop for employers seeking custom recruitment and training support



Enable
incumbent
workers to
transition into
21st century
roles

Target population

K-12 students

Post-high school

Undergraduates

Post-high school

K-12 and university teachers

Employers

Employers and incumbent workers

K-12 Career Connection Lighthouses

Evolving the K-12 education pipeline for the 21st Century

VISION | Expose all K-12 students to technical career paths and skills

Challenge awarding diverse set of middle/high schools to fund innovative and sustainable solutions to better connect students with pathways to a 21st century job

Benchmarks and best practices



Georgia STEM/STEAM initiative

Dedicated to preparing students for 21st century workplace careers by providing integrated curriculum driven by project-based learning, and STEM school certification

Grants provide \$10–25k per school, per year



DPI Teacher Training Programs

University of Illinois' public-private partnership to develop hundreds of K-12 and community college educators in computing / tech-related courses



P-TECH P-TECH School Model

Students earn HS diploma, industry-recognized associates degree, and work experience (K-12, community college, industry initiative)



Talent Accelerator

21st Century skilling platform in partnership with key employers

VISION | Develop world-class platform to train people in any short-form course employers need

Skilling platform with **immersive shortform programs** featuring real-world project-based learning and placement integration with employers

Benchmarks and best practices



RISE In Singapore

Rapid skilling platform (10-18 weeks) focused on core business and digital foundational courses, with application-based approach to learning

To be scaled to 5,000+ trainees in next 3–4 years



Stackable credentials

Grants to universities to centralize a stackable credentials program

VISION | Revolutionize the 4-year university learning journey

Enabling multiple short-form credentials that build on or supplement each other, and other foundational initiatives to support universities

Benchmarks and best practices



Virginia's Community Colleges

One-year certificate programs designed to meet regional demand for multiple jobs, including IT / technical fields

Aimed at post-high school students who are looking to upskill, reskill, or make career changes, typically while employed full-time

Credits are transferable to all Virginia
Community Colleges when students seek
Associate's degrees over two years



Short-form credentials

Grants to empower and grow shortform credential providers

VISION | Scale (and enable) providers to increase PR's skilled workforce

Flexible, quick way to **upskill individuals** with 21st century skills without the time commitment of a university degree

Benchmarks and best practices

Grow with Google
Grow with Google

Industry-focused, flexible online certificate courses and stackable credentials designed and taught by Google experts. Career support and 1-on-1 coaching offered

Higher education partnerships (e.g., Columbia Eng, UVA) to provide certificates as credit or non-credit offerings (up to 15 credits via ACE¹)

Offering free, project-based resources / lessons to help K-12 teachers apply practical digital skills

100,000 certificate program graduates and +8,000 local and national partnerships

1. American Council on Education



Quick Start

Best-in-class talent pipeline for custom recruitment and training

VISION | Provide a one-stop-shop for employers to address 21st century needs

- Assess talent needs with priority employers
- Develop curriculum tailored to skill needs
- **Recruit talent** pipeline for employers

Benchmarks and best practices

GUICK START®

Georgia Quick Start

Analyzes company needs, designs and delivers training plans, engages in ongoing evaluation and continuous improvement

\$10.2M in annual funding dedicated to Quick Start (est. 90 staff); embedded within GA Technical College system

+\$100M added to the technical college system budget in 2023 to develop job training centers for two EV plants



We established a **21st Century Techforce Advisory Board** comprised experts to support our progress every step of the way



Education Leaders



Business Leaders



Public Sector Experts

3 Ways you can get involved



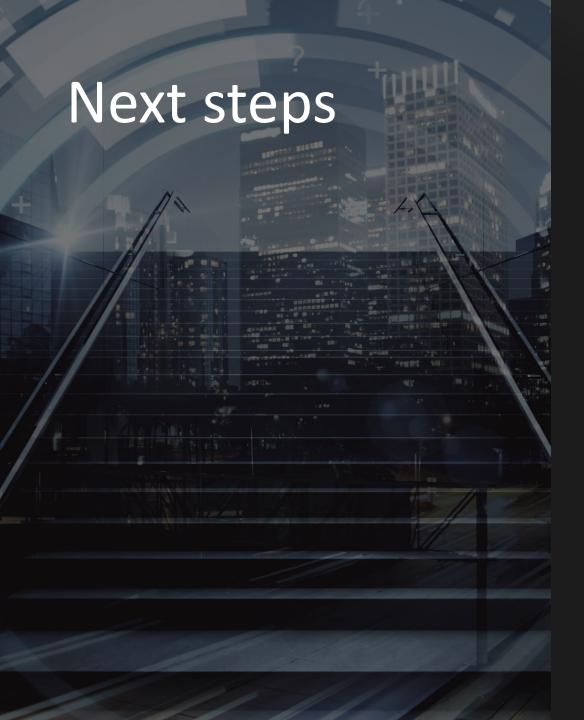
Respond to our open RFPs or encourage colleagues and partners to do so

Join our quarterly updates
where we will share project
updates and progress reports

Spread the word to help build momentum and generate support by raising awareness of the project and promoting its objectives

- @DDECPR
- @DDECPR

- @desarrollopr



- RFPs live as of today (April 25)
- Early May: FAQs published on landing page and Q&A webinars held
- Mid-May: Deadline to express interest and request technical assistance on your proposal
- Through May: Work with dedicated team to develop proposals
- June 5: Proposal due
- Mid-June: Notification of final grantees



THANK YOU

