

A nighttime aerial view of a city, likely Los Angeles, with the Hollywood sign visible on a hill in the background. The city lights are illuminated against a dark blue sky. The entire image is framed by a thick orange border.

PR5G ZONE

Blockchain Ignition Lab

FY 2025 Vision

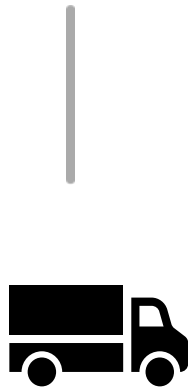
CONFIDENTIAL

Advanced Communications is the Critical Business Infrastructure of Tomorrow

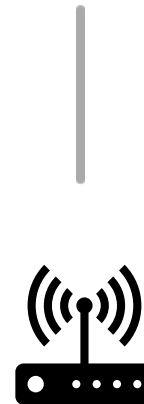
1930's
Rural Electric



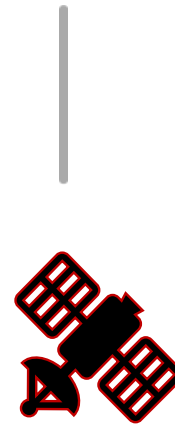
1950's
Interstate Highways



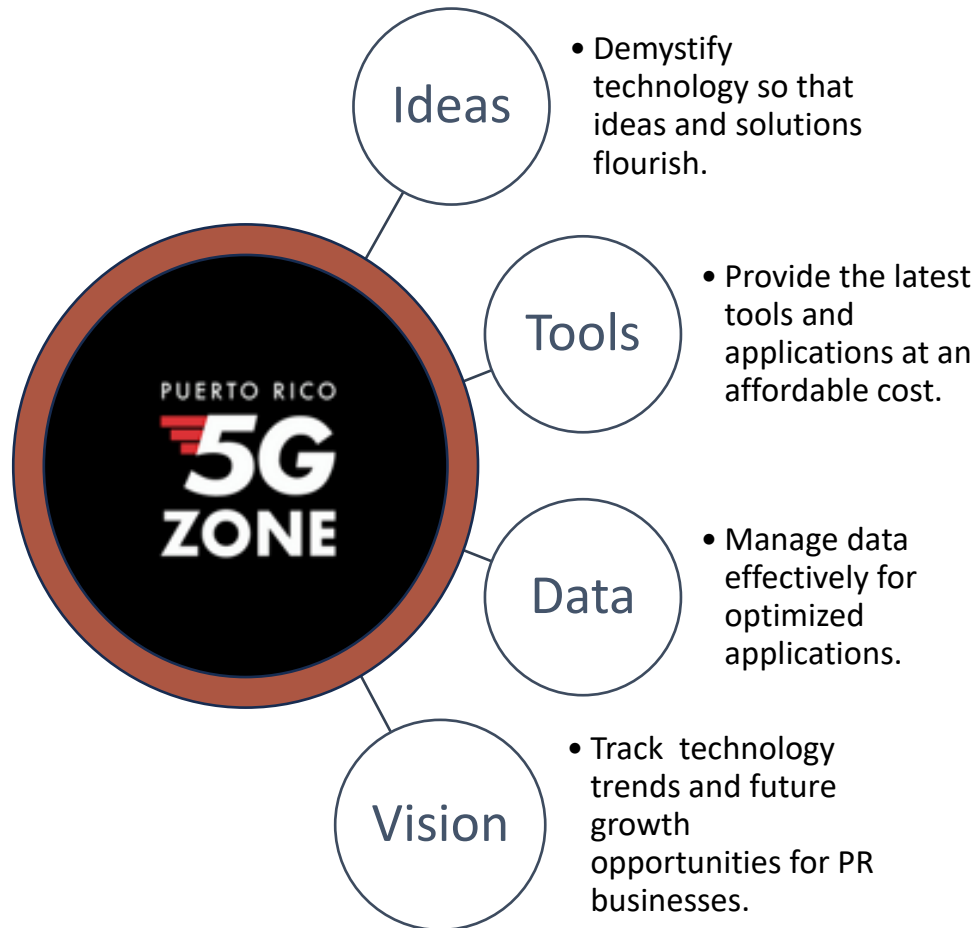
1990's
Access to Internet



Today
Secure Redundant
High-speed
Computations



The PR5G Zone Exists to Solve Data Challenges



PR5G Zone is a non-profit founded in 2020 with a single mission: To enhance Puerto Rico's ability to support high technology companies competitive in the 21st Century. We want to be the most creative, ground-breaking, and impactful advocate for critical intelligent infrastructure and applications in Puerto Rico. We approach challenges with fresh eyes to develop unique, customized strategies.

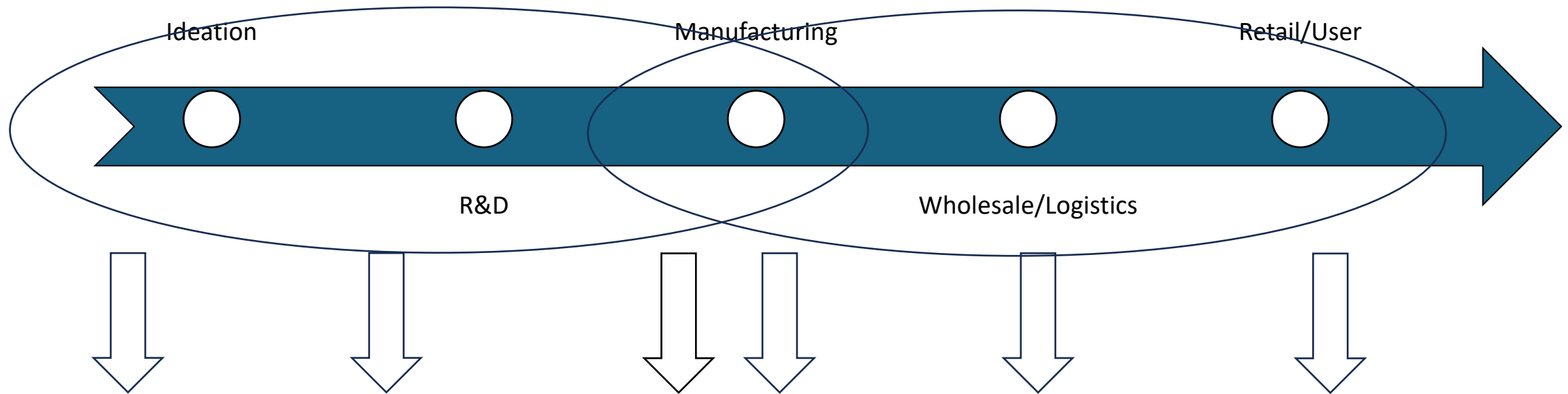
We see that data and communication technology is increasingly complex and it's difficult for individuals and businesses to navigate the landscape. Our goal is to work with industry to translate their challenges into easily navigable technology solutions.

We have a team of project management, finance, private investing, technology validation, and government compliance experts with global experience.

Focus on the Innovation Side of Value Chain

Innovation Driven

Profit Margin Driven



**What are the Tools
Needed to Enable
Innovation?**

Cash Incentives
Wage Erosion

Efficiency Enhancement

Status
Quo

Expand Capabilities Specific to Growth Needs

We answer that question based on a recent research project by University of Michigan which identified 11 key growth industries for Puerto Rico and aligned it to the enabling technologies needed for them to be globally competitive.

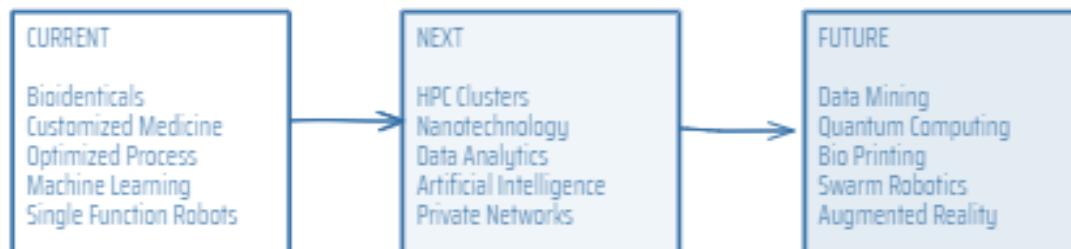
AEROSPACE



FINTECH



PHARMA

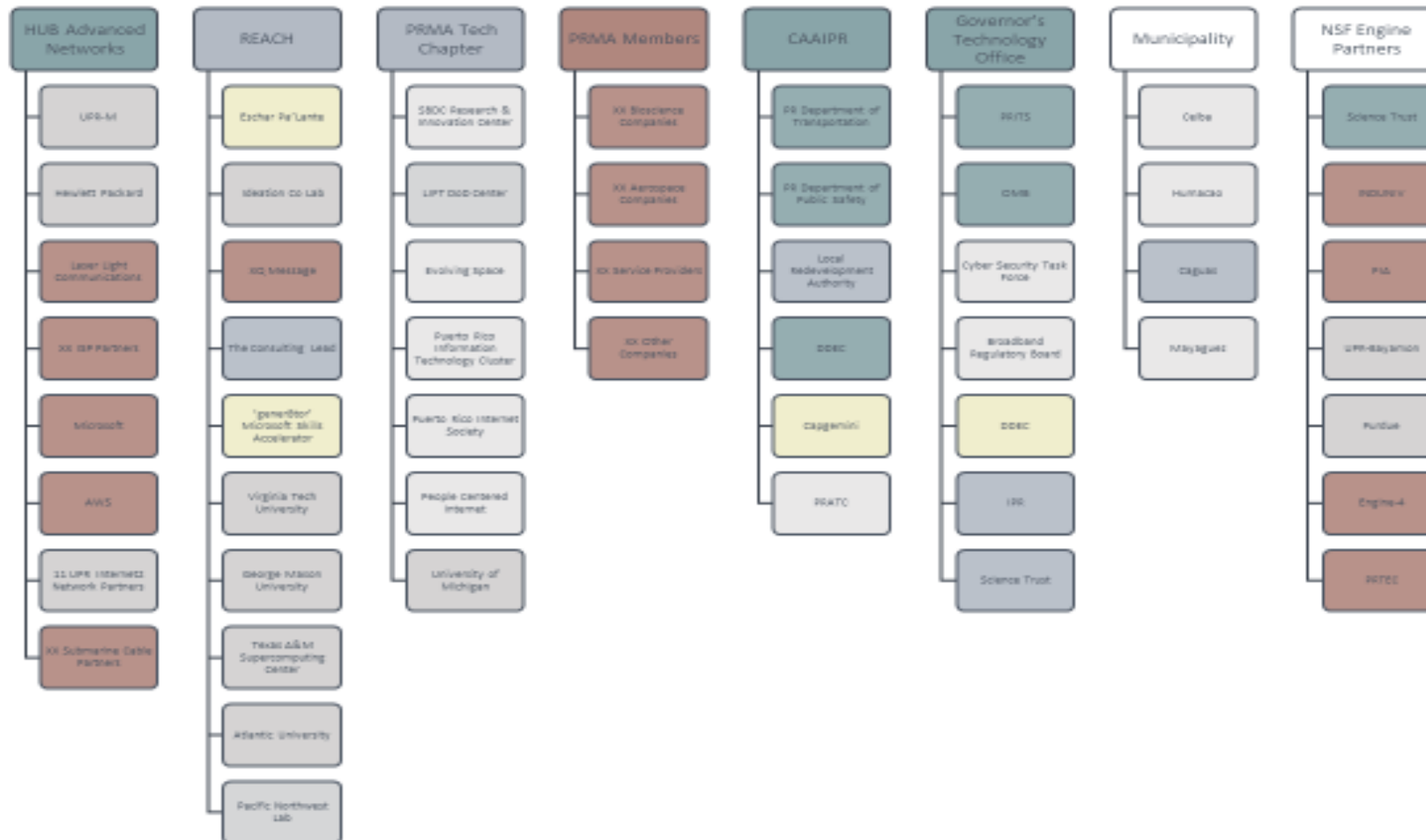


SOLAR ENERGY



Identify Challenges Through the 'REACH' Partnership

REACH Consortium Partners



KEY:

Commonwealth Government

Institutions of Higher Learning

Economic Development Entities

Relevant Industry and Firms

Labor and/or Workforce Training

Ongoing Research Projects With PRMA



VANGUARD
VISION



Industriales
de Puerto Rico



Completed



- Project 1- Identify key growth industries on Puerto Rico and map related needed technologies.

Completed



- Project 2- Engage with local industry and identify key challenges in technology adoption, then use a generic data platform to prioritize solutions.

In Progress



- Project 3- Create a customized algorithm to assist Puerto Rico industry in selecting solution tools that best align to unique challenges they face.

Planned
2025

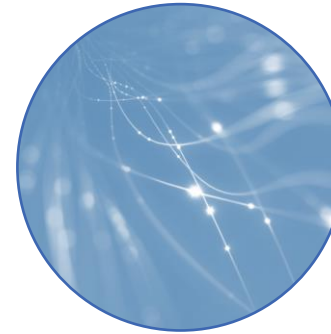


- Project 4- Expand the tool to include technology skills needed to manage the technology solutions. Seeking funding.

Enhancing Local Technology Capabilities



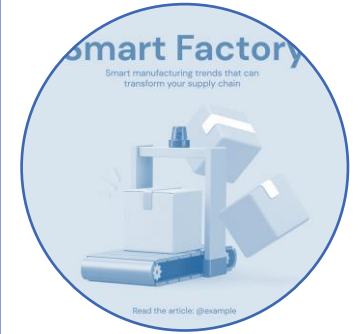
Establish a lab at UPR-Mayaguez to provide access to advanced tools through private 5G for faculty and students.



Bring research partners to enhance the Island's wholesale fiber optic, submarine cable, and space cable network to better support ISP and retail provider network.



Develop O-Ran research partnerships to utilize Puerto Rico's unique convergence capabilities.



Partner with PRIDCO on Smart Factory Development and Technology/Communications Upgrades of select properties.

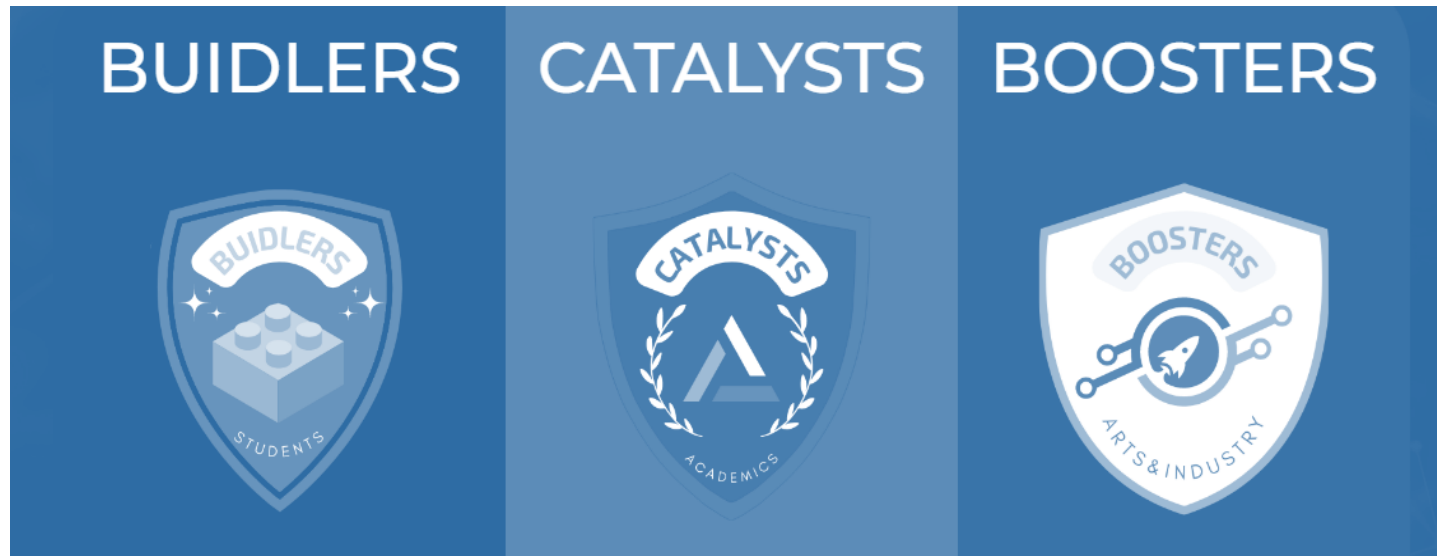


Engaging a Student Network for Related Skills



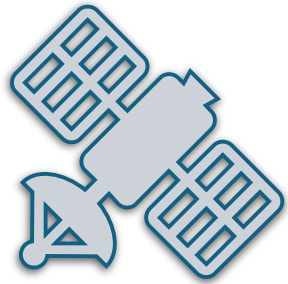
Participating students will take the path of BUIDLERS, they will be trained and presented with opportunities to lead, instruct and support others towards Web3 adoption.

Catalysts are designated supporters with academic pedigrees to champion Web3 activities. They will provide guidance on how these technologies can be applied in special projects and how Web3 can integrate educational coursework.



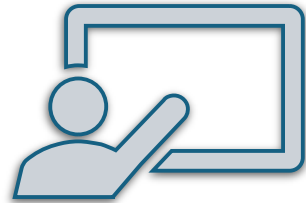
Specialists from ALL disciplines are welcome to be part of the community as BOOSTERS to learn, support and work alongside the student chapters to support the Web3 movement and grow their own personal brands.

2025 Focus Areas



Comms
Research

Converging
Domains
Applications



Workforce
Development
Needs

Map Needs
Identify
Skills



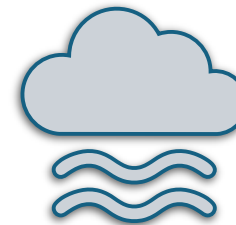
Energy
Management
Applications

Wireless
Relays
Source
Pairing



Data Transfer
Structures

Data Lakes
Edge
Computing



Weather
Climate
Impacts

Pattern
Tracking
Education



Space
Development
Needs

Security
BioScience
Research

Currently Funded Projects



U of M Tech Needs Capstone

- Expand Technology Pain Point Survey
- Identify PR Criteria for Algorithm to sorting options
- Work with Researchers to define AI Platform customization



Mapping Cybersecurity Readiness

- Establish goals for % of CMMC companies on Island
- Develop awareness campaign with FBI on basic 'best practices'
- Establish coordination with Virginia's Commonwealth Cybersecurity Initiative
- Map existing resources and gaps to add to data sorting platform (study needs funding)



Launching HALO Center

- Work with Science Trust to establish the center at the Forward Facility
- Work with Industry and University to engage in research projects and curriculum development



Weather Station Installations

- Work with Echar Pa'lante and schools to install devices
- Connect data collection into HALO Center
- Establish partnership with El Nueva Dia to promote public awareness of program.

Proposed Projects Seeking Funding



Smart Facility Pilot Project

- Advanced Energy & Comms in Select PRIDCO commercial properties.
- NTIA NOFO for Funding.
- Partnership with Virginia Tech, George Mason, UPRM, and Ericsson.



Tech Enablers Translated to Skills

- Using AI Platform developed at Stanford translate PR Tech Enablers Study to specific micro skills needs.
- Establish comprehensive list of available training.
- Define gaps and establish numeric goals based on job demand.



PRAGI Center

- Secure Space Command Center for Shared Use.
- Secure Training Rooms and Hot Desks for Visiting Researchers.
- Industry Facing SCIF for High Security Clearance Collaboration.
- Clean Rooms and Wet Labs for Microgravity Research.



Micro Data Centers

- Buried small computing centers at Edge.
- Industry specific for BioScience, Aerospace, Climate Research, Agriculture.
- Around the Island for Capability Distribution



UPRM Energy Testbed

- Digital Twin to facility at Virginia Tech.
- General use innovation on Wireless Green Energy Distributed Resource Management.
- Establishment of paired community micro-grids to maximize assets and resources.

Operational Needs



- Paid Administrative Support Staff
- On-Island Marketing and Awareness Campaign
- National and Global Communications Conference Attendance
- Establish a Dedicated Research Support Fund.

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