

5G Use in Puerto Rico

Advanced Manufacturing

Puerto Rico's well-developed biosciences and aerospace industries are advancing manufacturing into the 5G era to provide:

- Delivery of real-time data to companies, at scale
- Preventive and predictive maintenance to monitor equipment status within the facility
- Theft prevention tracking across the supply chain

Logistics

Logistics go hand-in-hand with 5G. The IoT devices that enable shipping infrastructure need continuous connectivity with minimal latency:

- Ability to track cargo by the second through its entire journey
- Allow smart facility management
- Adopt just-in-time sequence loops at airports and warehouses

Energy and Smart Cities

5G technology will open the door to companies to help address pressing economic challenges that enable:

- Smart metering capabilities in the utilities industry
- Smart building management
- Energy-efficient, GPS-free geolocation technology

The Fourth Industrial Revolution is already underway in Puerto Rico, primed to support business with state-of-the-art communications infrastructure that takes connectivity to the next level, including 5G and 0G networks, the Internet of Things (IoT), artificial intelligence, and automation.

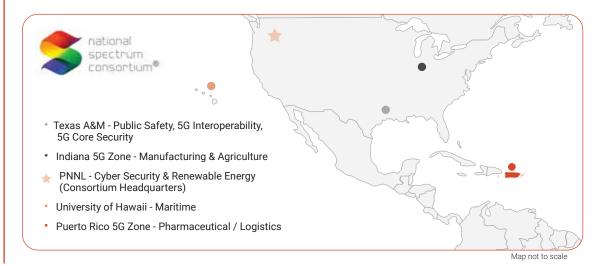
pr5gzone.org

Leading the charge in next-generation connectivity is the Puerto Rico 5G Zone. This public-private partnership brings together industry, academia, and government to provide a testbed for companies to invest in 5G products and services in a safe, secure environment. The Puerto Rico 5G Zone is part of a nationwide consortium of 5G Centers of Excellence that also includes labs in Indiana and Washington state, as well as at Texas A&M University and the University of Hawaii. Each lab specializes in a specific sector, with Puerto Rico focusing on life sciences, manufacturing, and logistics.

Puerto Rico's role in the consortium has been strengthened by recent investments in IoT network integration. Everynet BV recently launched a long-range, low-power wide-area network (LoRaWAN), giving the Island the only open network of its kind in the U.S. Sigfox, the world's leading IoT provider, expanded its 0G network to include Puerto Rico, thus bringing the Island into a LoRaWAN network that spans over 1.1 billion people and 70 countries.

Companies developing logistics products and services for use in the U.S. will find the Island to be an ideal location for optimizing international trade & travel routes, while safely testing technology before bringing to market.

Labs Across America



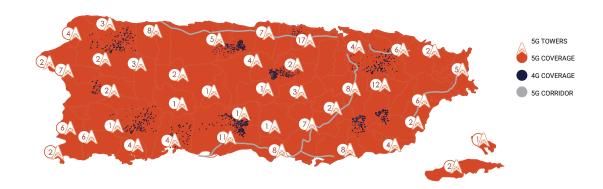
Puerto Rico 5G Zone Leverages a Robust Tech Ecosystem

Puerto Rico is harnessing the power of technology to confront some of the most pressing challenges and grow. Driven by local talent, Puerto Rico's Tech sector spans digital financial services to Al- and blockchain-based software development to cyber & information security. This vast and quickly growing scene is supported by island-wide Information & Communications Technology (ICT) and software development infrastructure, including 5G rollouts by multiple companies and new 0G networks that connect devices in Puerto Rico to international IoT grids.

Island-wide Coverage

Home to 31 internet providers and three 5G networks, Puerto Rico has a competitive and cost-effective ICT infrastructure

Over 90% of this infractructure is privately owned



Puerto Rico 5G Zone

The Puerto Rico 5G Zone is advancing the transformation of physical industries by powering Smart Cities, Smart Logistics, and Advanced Manufacturing.

Dedicated to providing cost-effective access to government, industry and academia to better understand the opportunities presented by the future of blockchain, broadband, and High Performance Computing.

PRITS

The Government of Puerto Rico bases its socioeconomic development model on science, technology, and innovation. To implement it, the Puerto Rico Innovation and Technology Service (PRITS) was created through Law 75 of July 25, 2019. Initiatives include:

- · The centralization of technology
- · Agency Modernization
- · Growth of the Innovation Ecosystem

CDBG MIT FUNDS

This program addresses mitigation needs by identifying risks and developing solutions that create resilient infrastructure in Puerto Rico; mitigates identified risk to critical lifeline infrastructure assets, including communications

Eligible Entities are municipalities, agencies, authorities, trusts, governing boards, Community-Based Development Organizations (CBDO) and private non-profits, and non-governmental organizations (501c(3)) or not-for-profit entities.



U.S. Jurisdiction

- Governed by U.S. federal law, including intellectual property protection
- Unique financial flexibility for IFEs and IBEs
- ICT innovation is supported by the FCC



Workforce & Talent Development

- Wages are 40% lower than the rest of the U.S.
- Bilingual in English and Spanish
- 80+ local universities
- Over 200K students annual enrollment
- 60% of graduates in STEM fields



Organizational Support

 Robust and growing innovative and entrepreneurial (I&E) ecosystem, including the PR Science, Technology, & Research Trust (PRSTRT), the IT Cluster, the public Blockchain Advisory Board, and regional accelerator of choice parallel18



High Quality of Life

- Diverse outdoors activities from pristine beaches to dense rain forest, mountains, caves, and canyons
- Rich cultural experiences from nighttime dancing to centuries old museums
- Over 50 certified historic landmarks



Real Estate

- Island-wide ICT infrastructure, including multiple 5G providers
- Lowest cost of Class A office space relative to comparable cities in the U.S.

