

BROADBAND RESILIENCY

Government Data Center and Dark Fiber

PRESENTATION

- Digital Policy Office
- OTECH
- Ongoing Planning Initiatives
- IIJA Digital Deployment funding
- Digital Equity Act of 2021



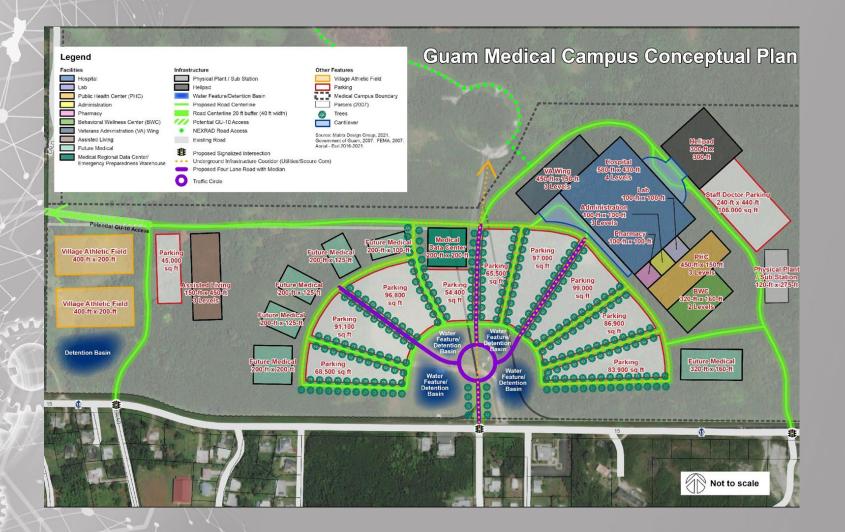
- Relocation of the Government of Guam
 Data Center to the Guam Medical
 Campus
- Construction of dark fiber from the underseas cable landing to the Guam Medical Campus as an anchor institution

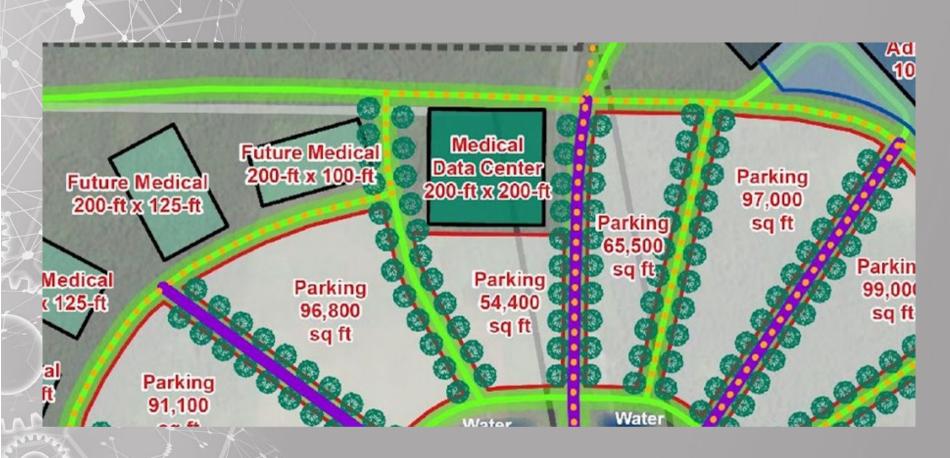


Broadband Resiliency Proposal

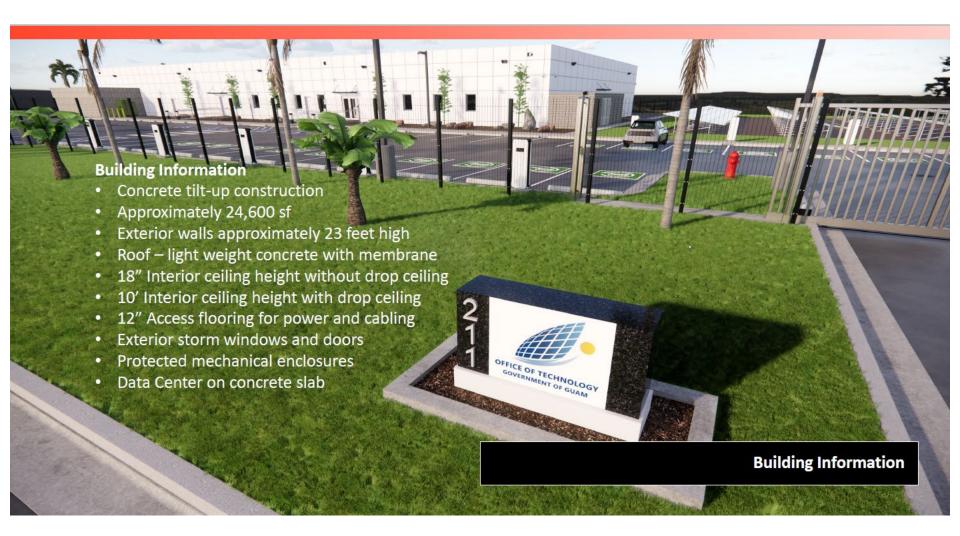
- Provide resilience for critical government data
- Support health care operations, particularly with respect to telemedicine
- Serve as a nexus to support new IT enterprises as part of economic recovery
- Provide the opportunity to lease excess dark fiber capacity to ISPs in order to provide revenue for digital access programs such as free Wi-Fi hotspots

- Relocation of the Data Center
 - o Current data center built in the 1960s
 - Located in the Agana Flood Plain
 - Critical government data
 - Tax Records
 - Electronic Medical Records
 - Public Safety Records









Conceptual Interior Floor Plan

Staff Space

- Reception / Lobby
- · 2 COVID Entry Stations
- 68 Cubicles
- 6 Offices
- 2 Conference Rooms
- Training / Conference Room
- · Break Room / Patio
- Restrooms
- · Storage Room
- · UV air sterilization system

Data Center 1

- 20 Racks
- N+1 Cooling
- Monitoring / Security
- · Fire Suppression

Data Center 2 & 3 & 4

- 10 Racks
- N+1 Cooling
- Monitoring / Security
- Fire Suppression

UPS Module

- 2N 200kW UPS System
- N+1 Cooling
- Monitoring / Security
- Fire Suppression



Entry

Relocation of the Data Center

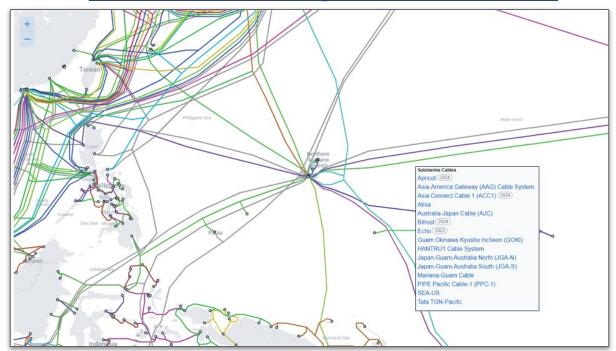
- Leeds architecture for improved energy efficiency
- Resilient hub for dark fiber distribution
- Hardened location for GovGuam's cloud edge infrastructure
- Estimated cost \$60 million

- Construction of dark fiber linking underseas cables with the Guam Medical Campus
- Estimated cost \$2 million



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Submarine Cable Map: Guam Connections





IT Economic Development

- Silicon village
 - Tech-focused small business incubator
 - IT learning centers
 - Data centers and other tech companies
 - Tech-oriented nonprofits

Digital Access Programs

- Digital literacy
- Skills training
- Student access through Schools, Libraries, After School programs, and Child Care facilities
- Wi-Fi hotspots
- Access to devices
- Capacity building

Guam Public Library

- Learning Centers
- Satellite Branches
- Virtual Learning Resource Center



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