

# Guam: Cables, Datacenters and IXPs



# Current State of Guam



## Key Issues:

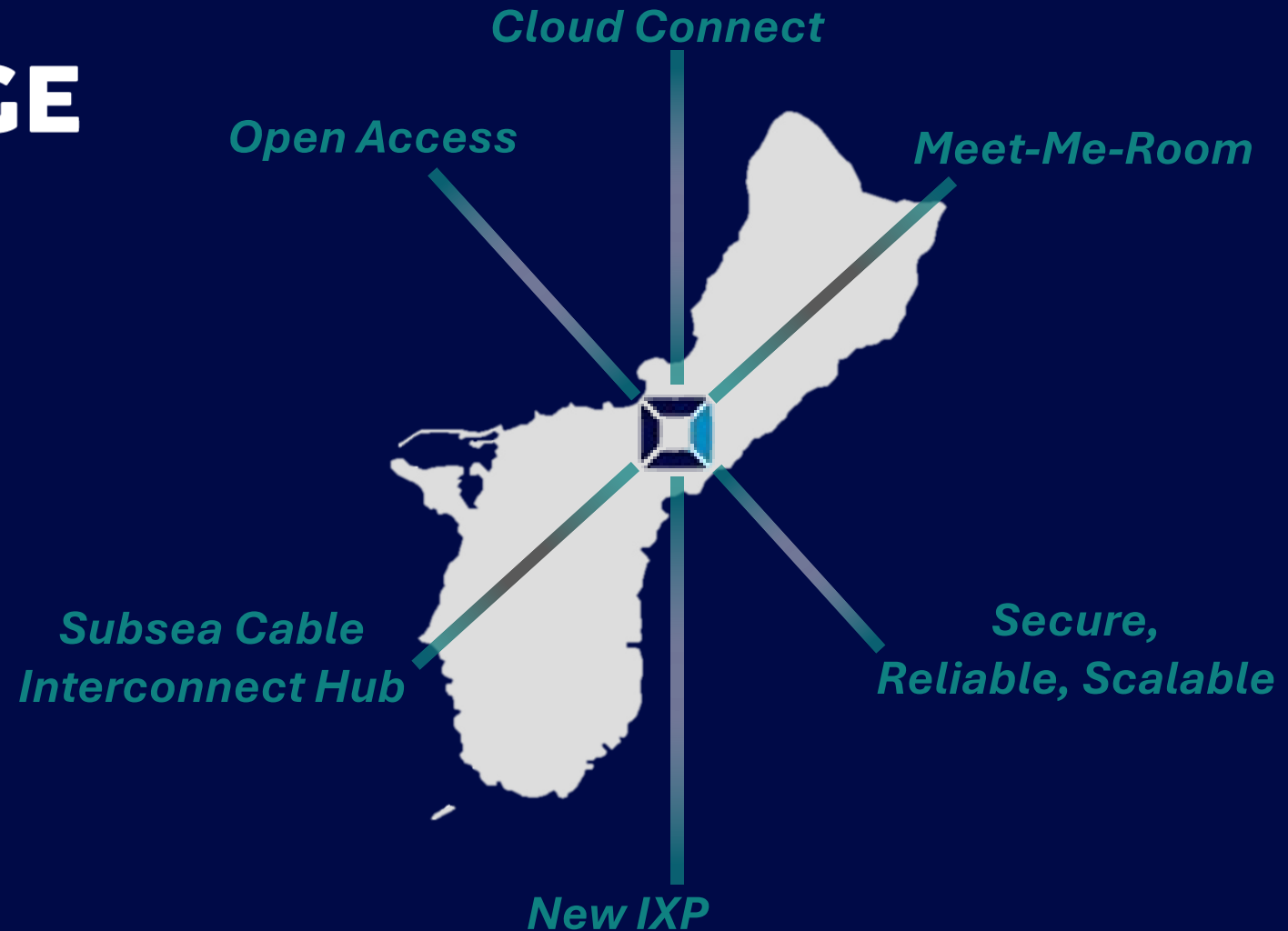
- X** No common interconnect point for all subsea cables
- X** Current datacenter options are retrofitted CLS facilities not meant for traditional colocation
- X** No Central peering point for IX traffic

# GUAM EXCHANGE

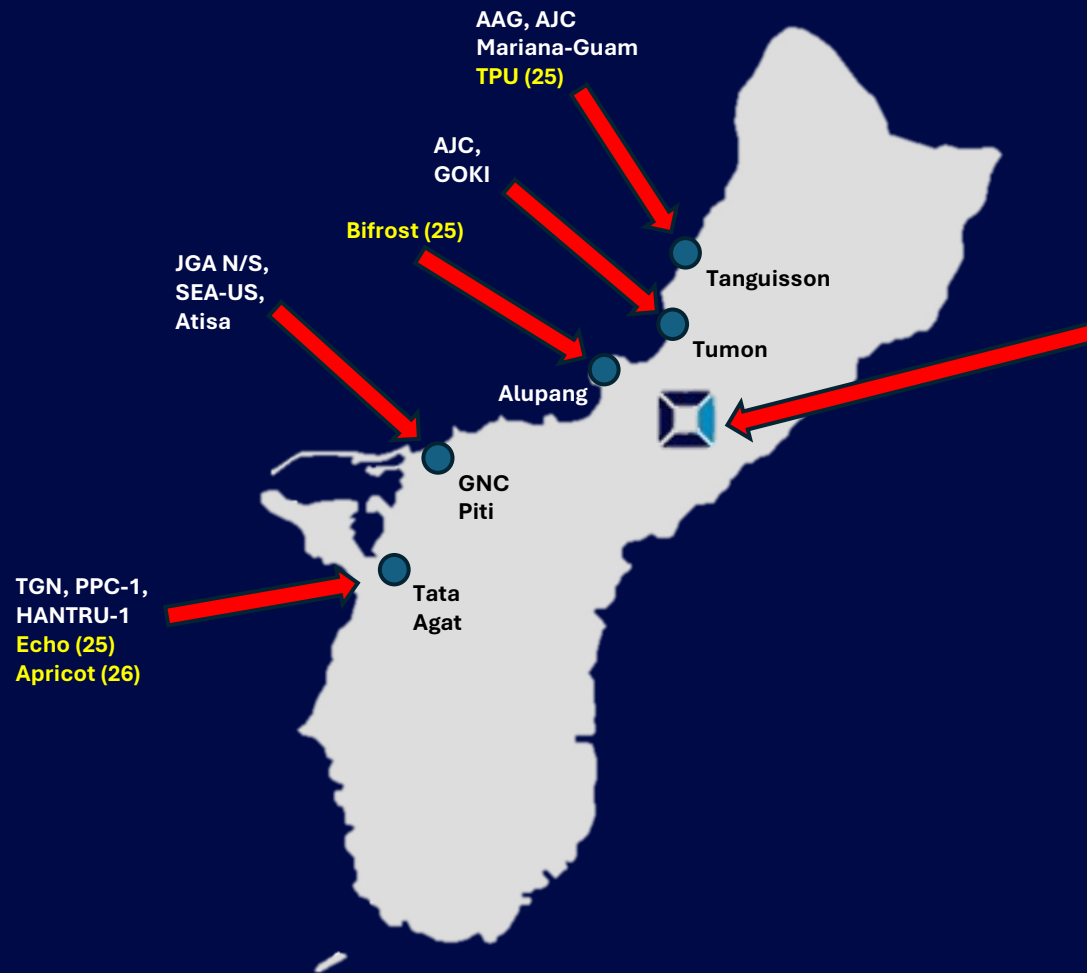


## *Interconnect Ecosystem:*

- + Central hub to access all Subsea Cables traversing Guam via x-connect at the MRR in Harmon
- + New Internet Exchange Point to tap into the 100 Tbs' of new subsea capacity traversing Guam
- + Cloud Connect Gateway to prominent Cloud Service Providers



# Harmon Campus & New Subsea Cables

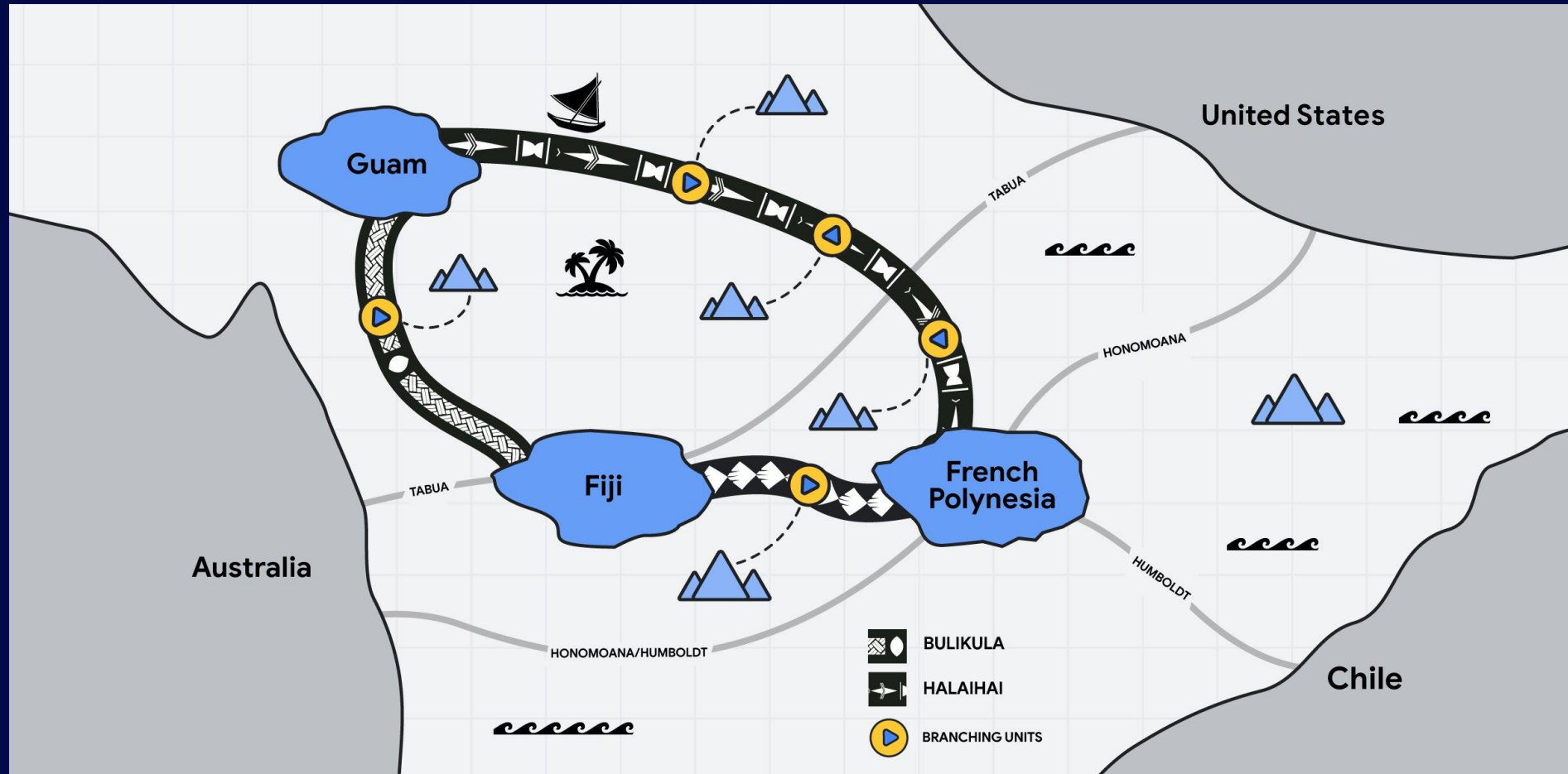


## *Harmon Campus*

- + Key industrial center of Guam
- + Fiber dense, open access
- + Fully interconnected with every CLS via protected buried fiber
- + 33m above sea level
- + Ample utility power feeds for growth

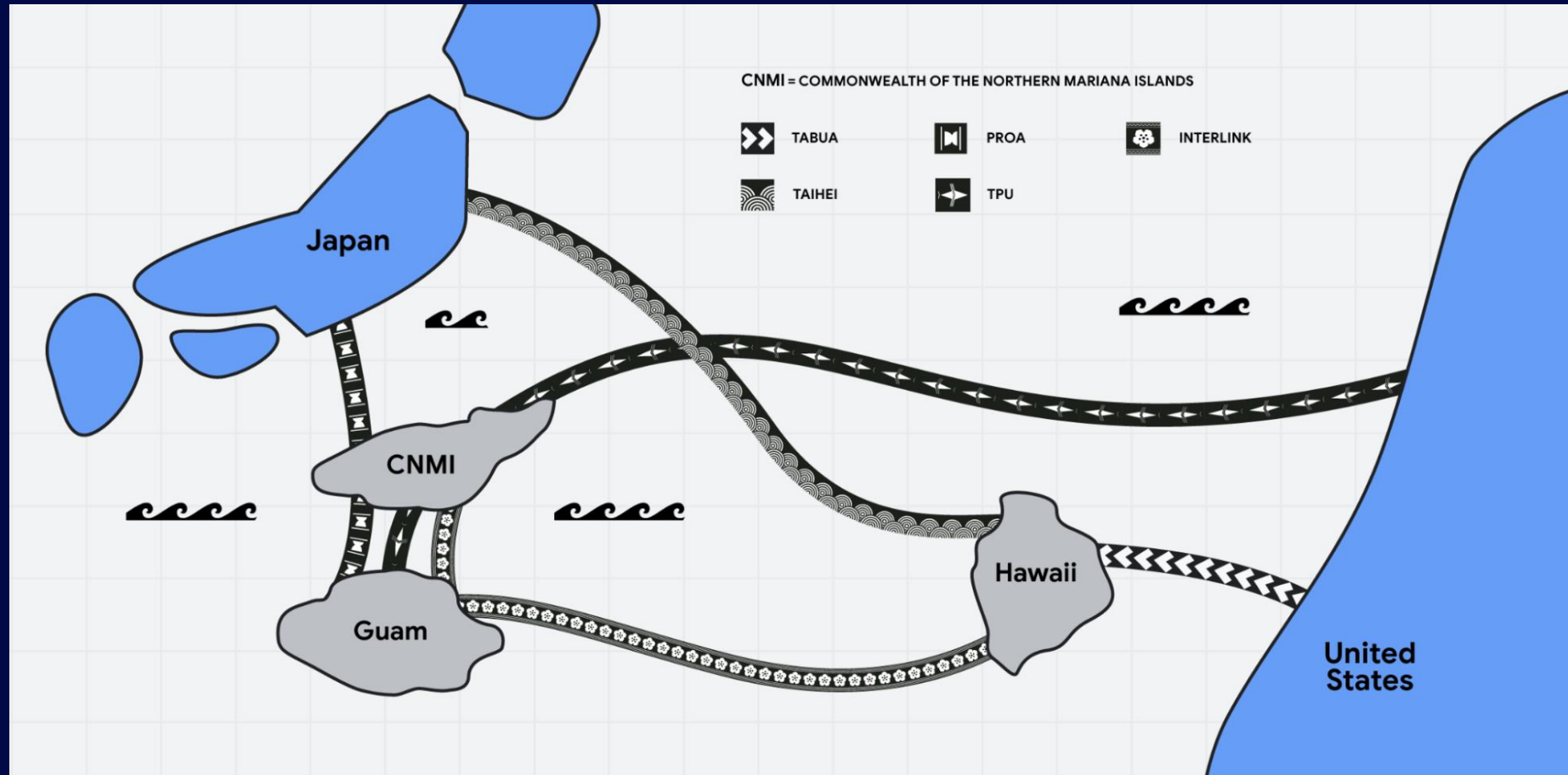
# Google Pacific Connect Cables

January 2024

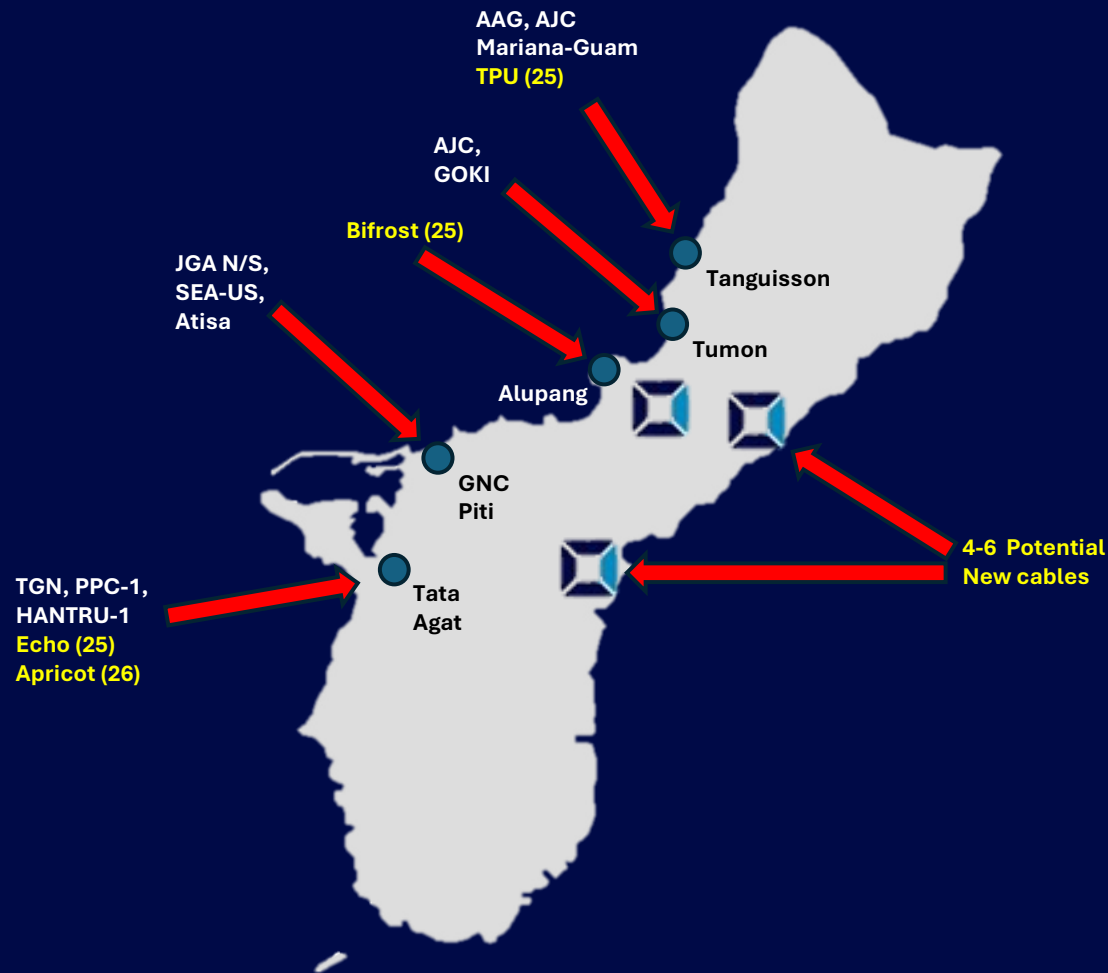


# Google Pacific Connect Cables

April 2024



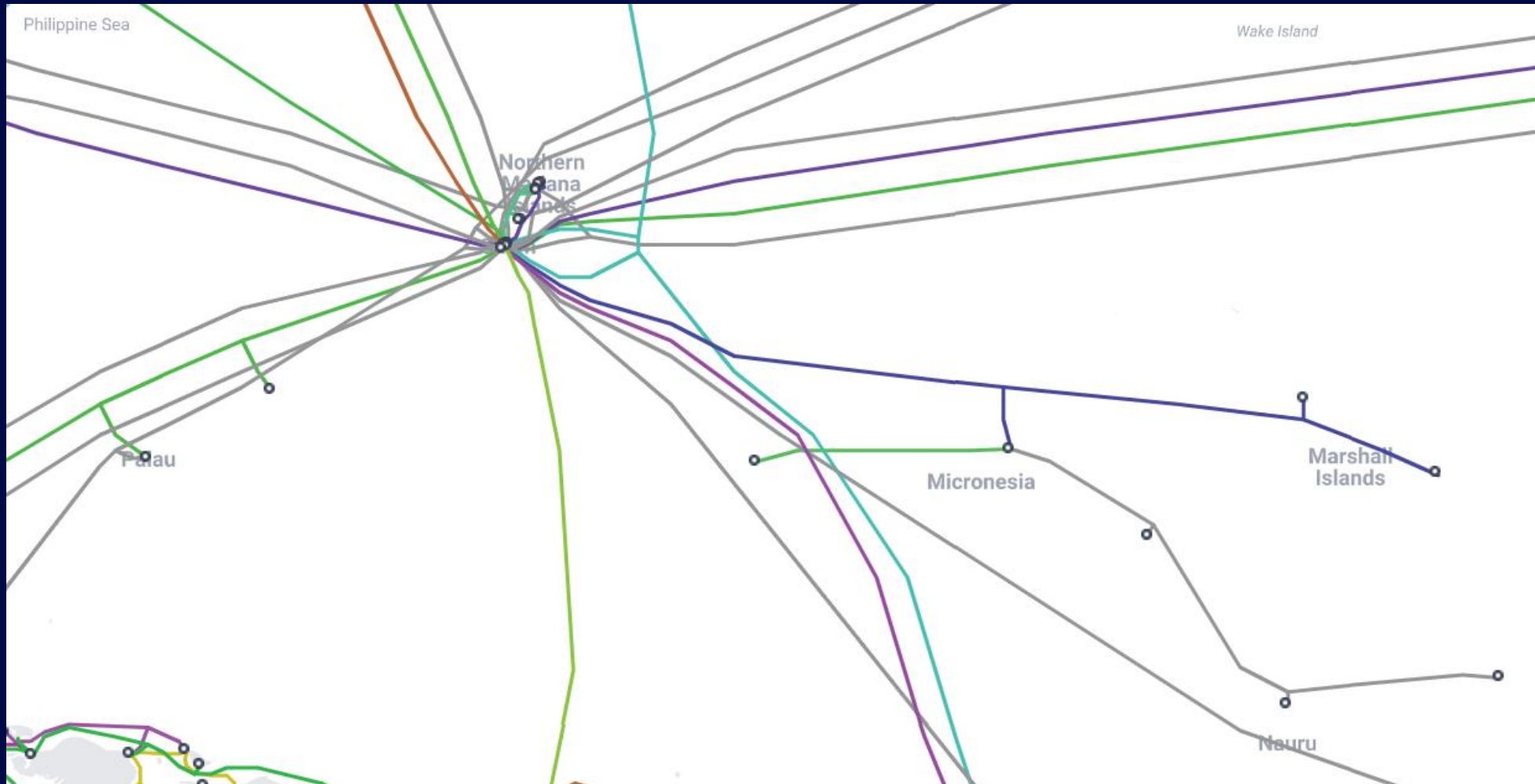
# Possible East Coast Cable Landing



## *Proposed East Coast Landing Stations*

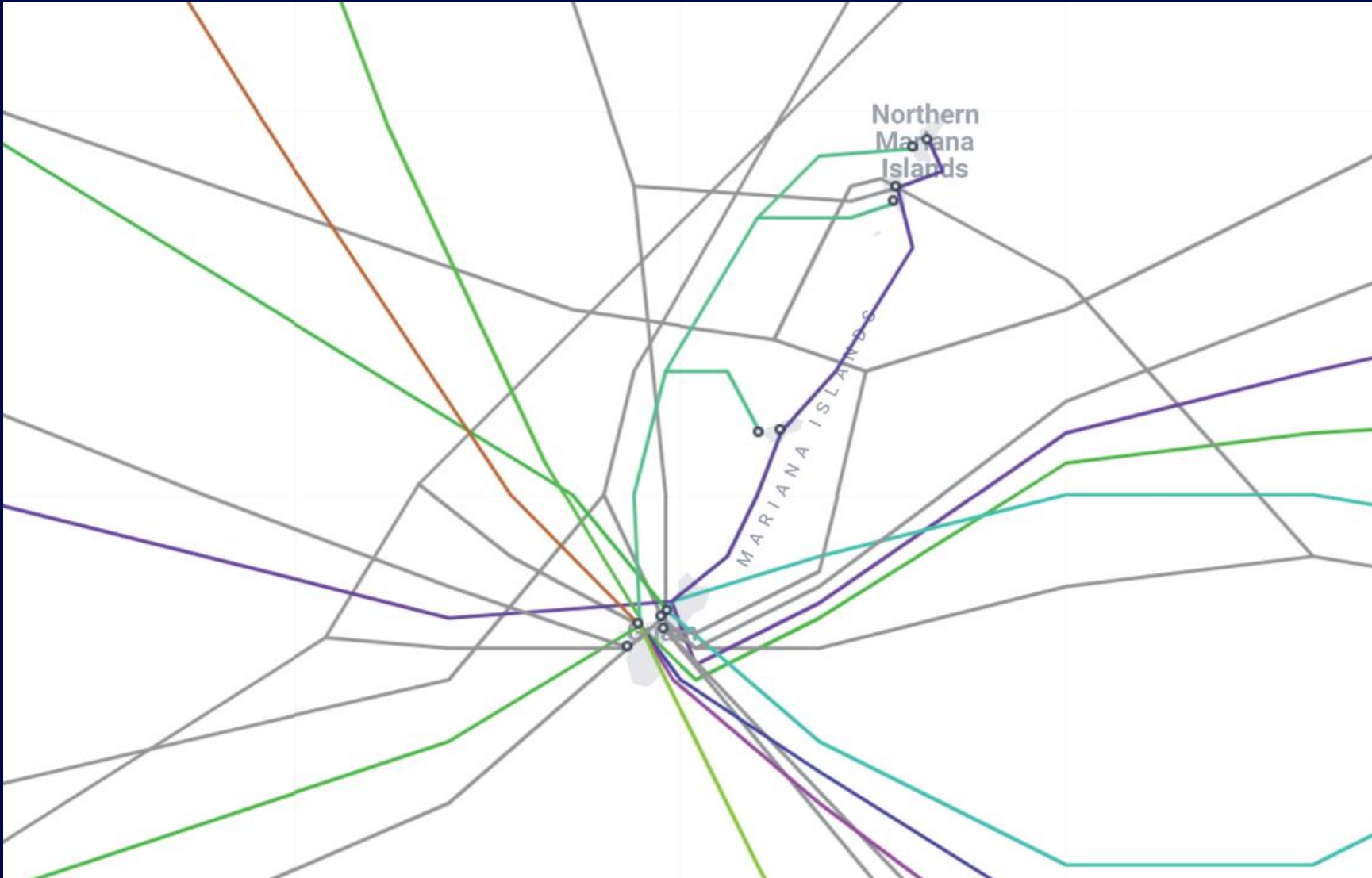
- + Investigating new landing points, bolstering possibilities for diversity in Guam
- + New fiber builds would interconnect back to Harmon in a ring configuration
- + Marine surveys and permitting in progress

# Submarine Cable Map of Micronesia

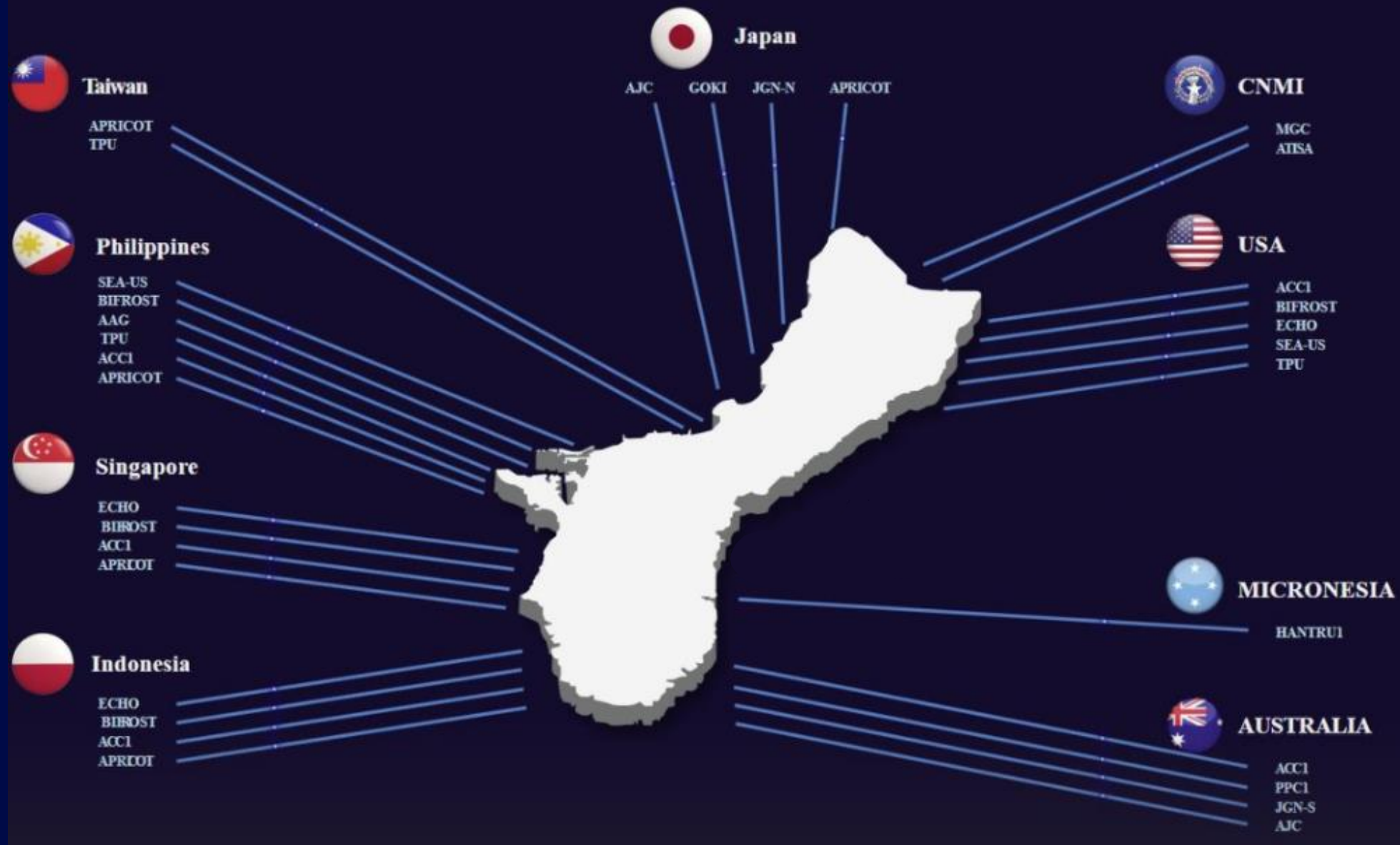




# Submarine Cable Map of the Marianas



# Guam, Nationally Connected



# Facilities on Guam



Name <a href="#">Az</a> <span>▼</span> Management	CLLI NPA-NXX	City Country	State Postal Code	Networks
<a href="#">Guam Exchange</a> Guam Exchange	- -	Harmon GU	GU 96913	1
<a href="#">IT&amp;E Guam</a> IT&E	- -	Tamuning GU	GU 96913	1
<a href="#">MCV Guam Datacenter</a> Guam Cablevision, LLC.	- -	Dededo GU	GU 96929	2
<a href="#">RTI Guam GNC</a> RTI Connectivity Pte. Ltd	- -	Piti GU	Guam 96915	8
<a href="#">TATA Communications - Piti Cable Landing St...</a> TATA Communications Ltd	- -	Piti GU	GU 96925	7
<a href="#">UoG - Office of Information Technology</a> University of Guam	- -	Magilao GU	- 96923	4

# IXPs on Guam



Name <small>A-Z</small> <span>▼</span>	Media Type	Country	City	Networks
<u>GOREX</u> Guam Open Research & Education Exchange	Ethernet	GU	Tumon	1
<u>GU-IX</u> Guam Internet Exchange	Ethernet	GU	Guam	1
<u>Guam IX</u>	Ethernet	GU	Harmon	1
<u>MARIIX</u> Mariana Islands Internet Exchange	Ethernet	GU	Mangilao	9

# GUAM IX

AS152735

## IXP Service Partners



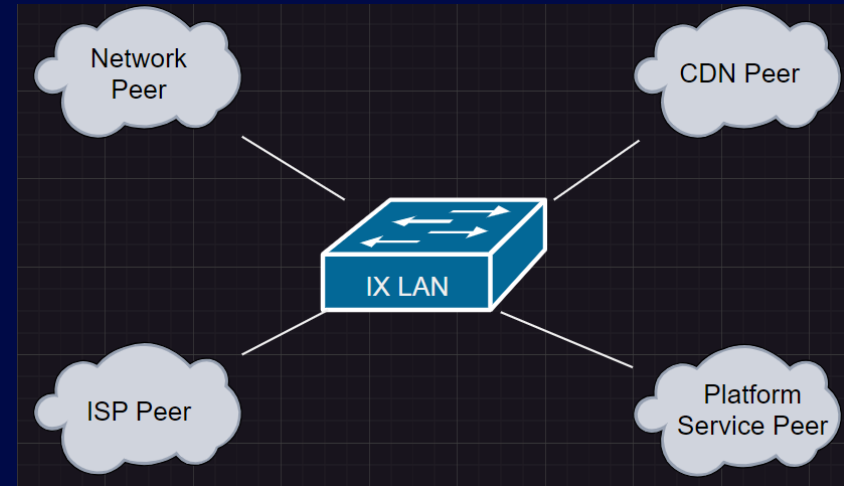
- + AS 42 / AS 3856
- + Largest authoritative DNS service, Anycasting nearly 400 TLDs and multiple root letters



- + AS 19281
- + Anycast the 9.9.9.9 DNS



- + AS 197000 / AS 25152
- + AuthDNS and K-Root Server



## Current Root Servers on Guam

