

GOREX and Things...

Guam Open Research and Education eXchange

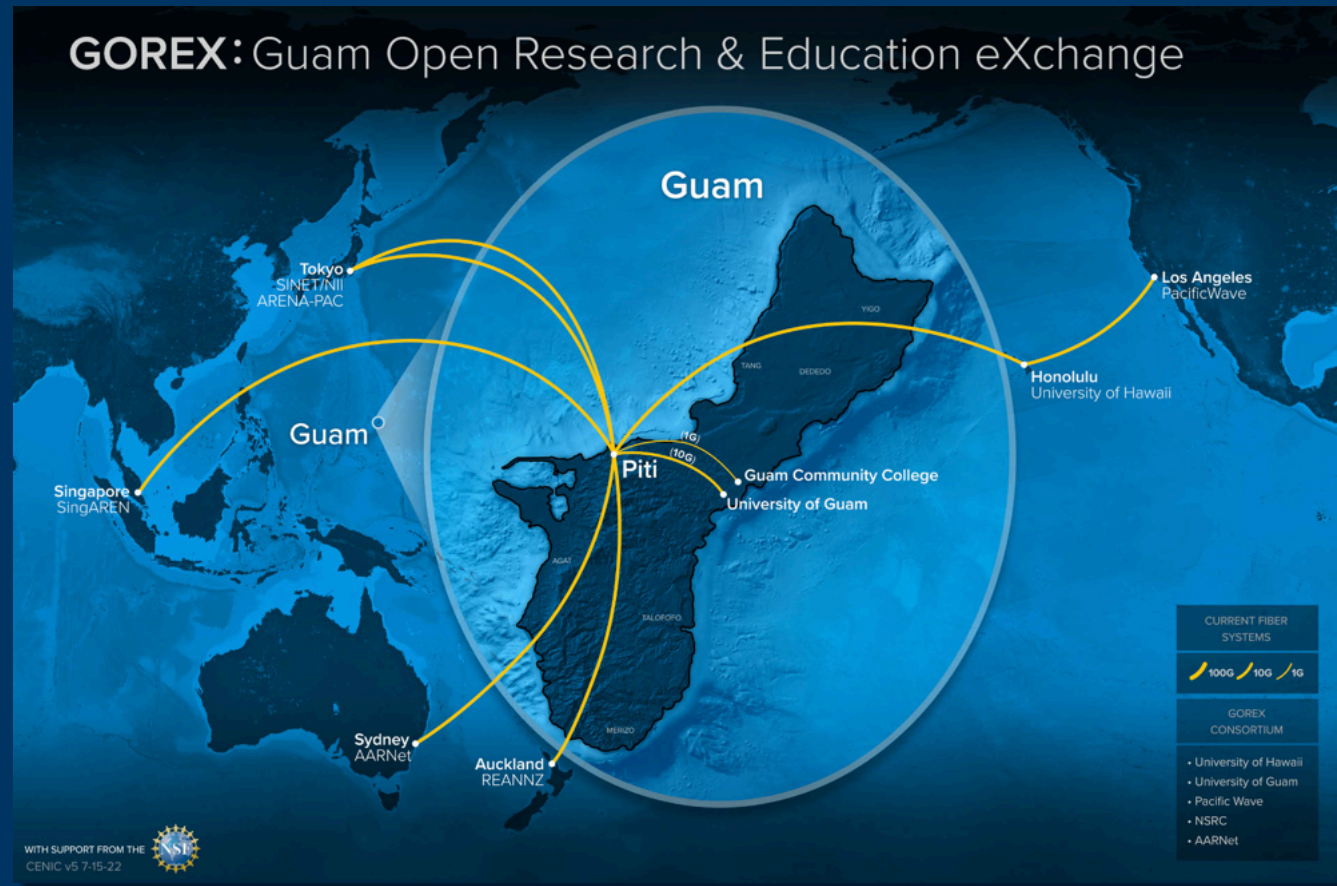
NSF IRNC Award #2029312

chris zane · czane@hawaii.edu · june 24 2024 · PacNOG 33

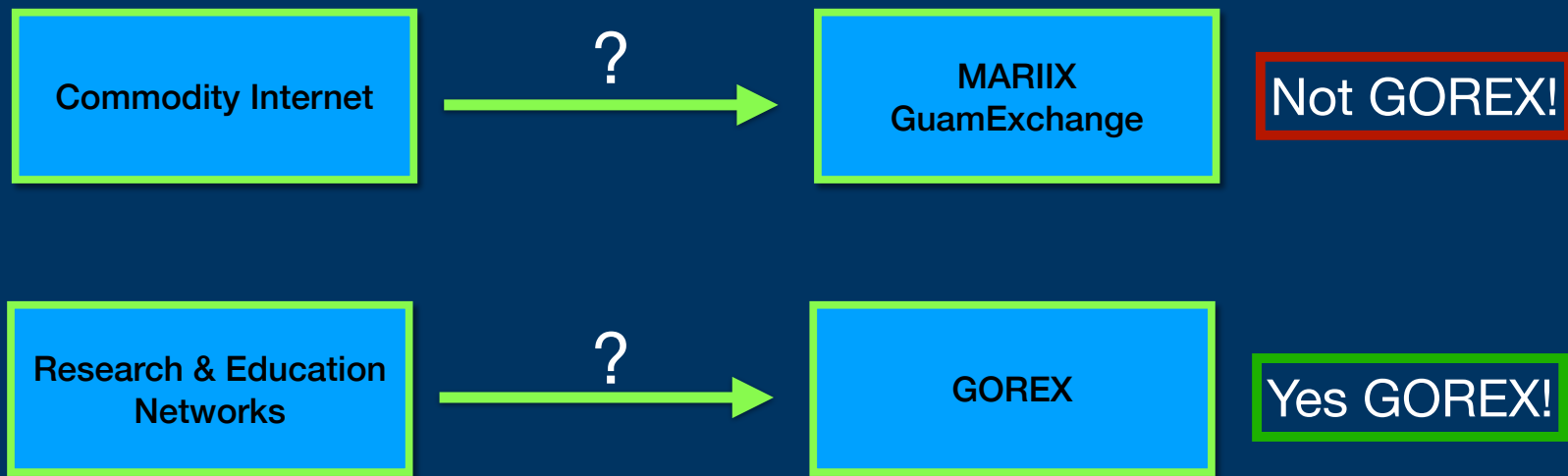
GOREX

- Established in 2017
- Located at GNC
- Big thanks to UoG !!!

AARNet
ARENAPac
Guam Community College
PacificWave
REANNZ
SingAREN
SINET/NII
University of Hawaii
University of Guam



GOREX vs Other Exchanges

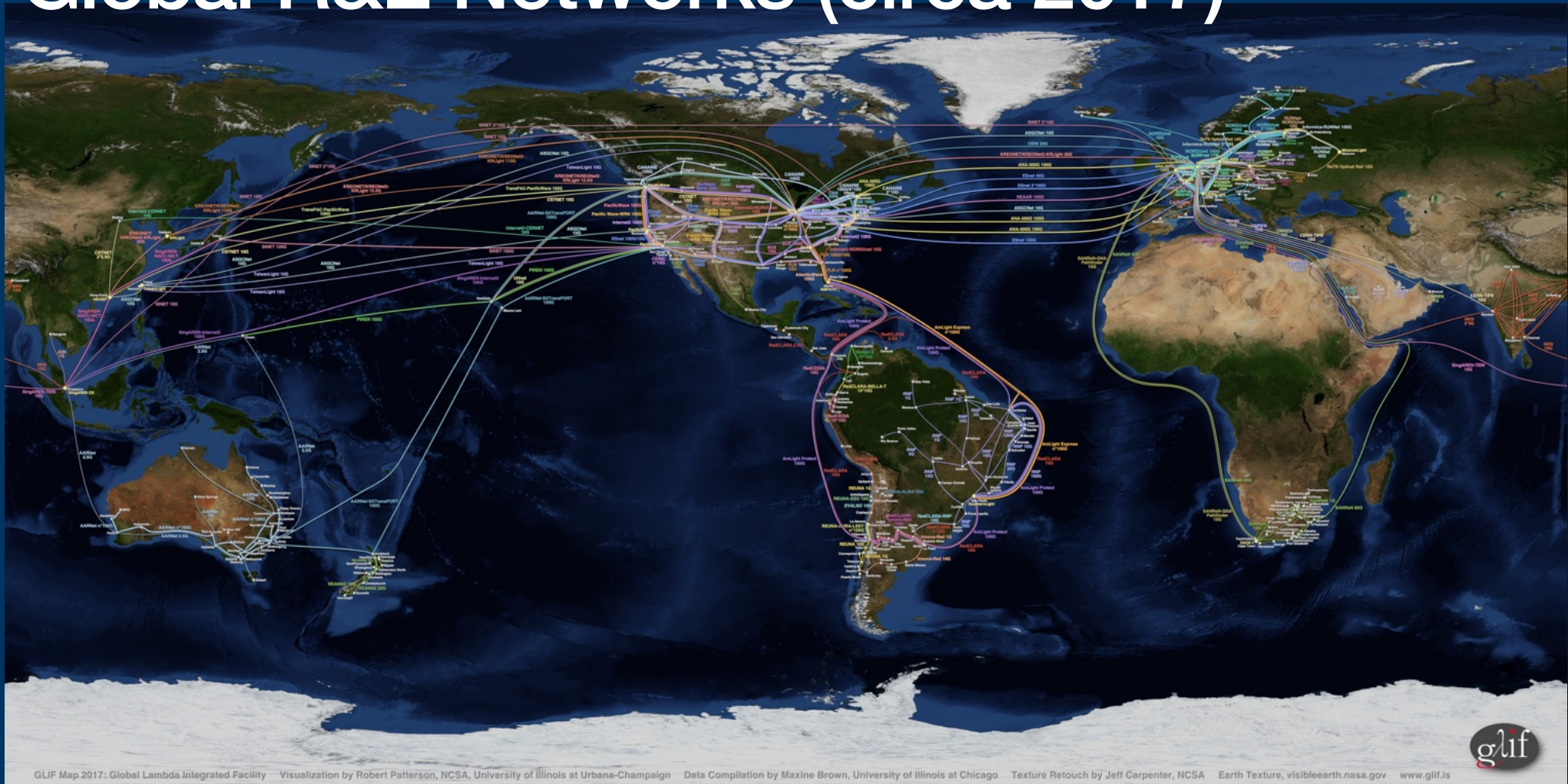


Research & Education Networks

- "RENs" - Purpose built networks designed to support large and high speed data transfers for research and education purposes
- NREN (National)
- Universities & Community Colleges
- Research Facilities
 - Zero Congestion
 - Low Latency

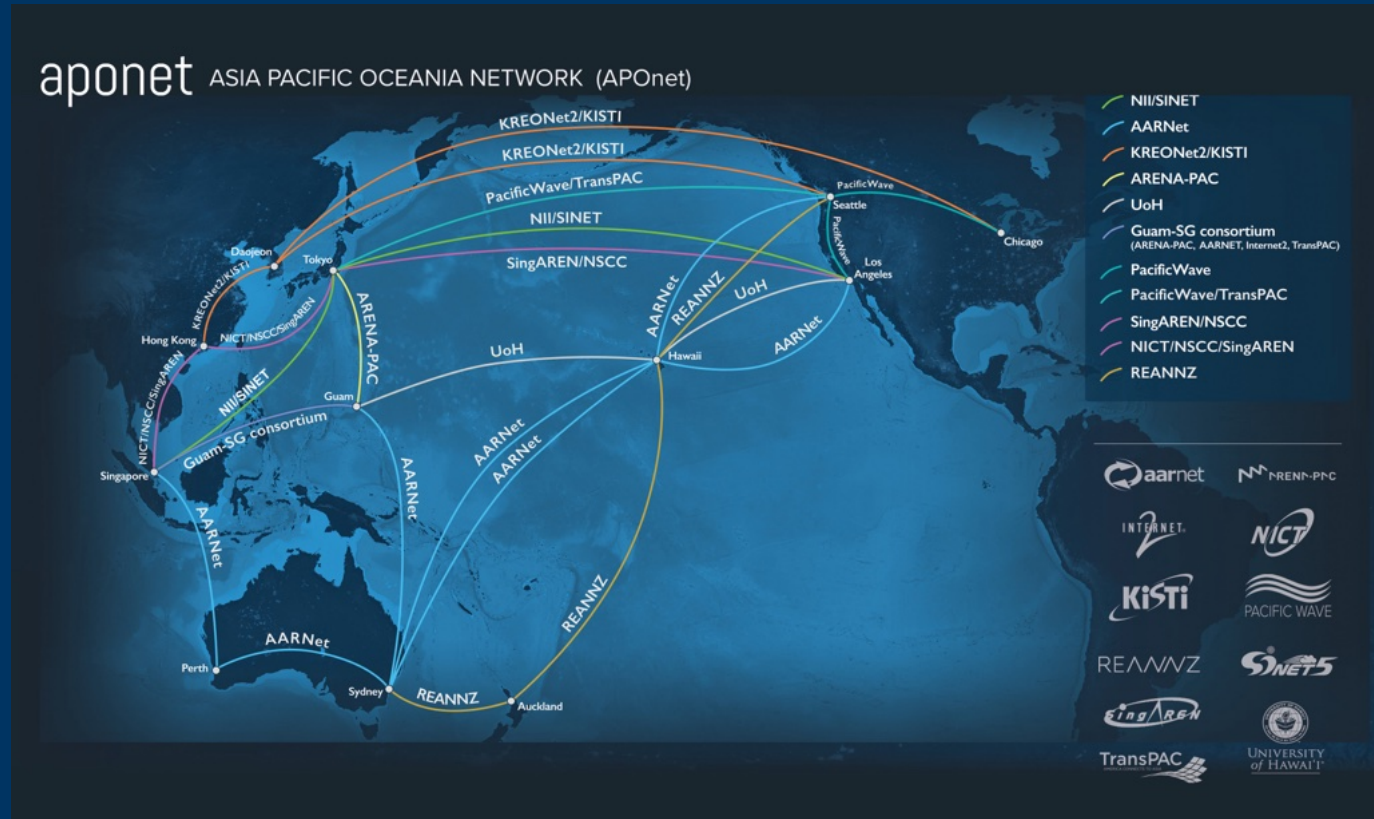


Global R&E Networks (circa 2017)



APONet

- <https://aponet.global>



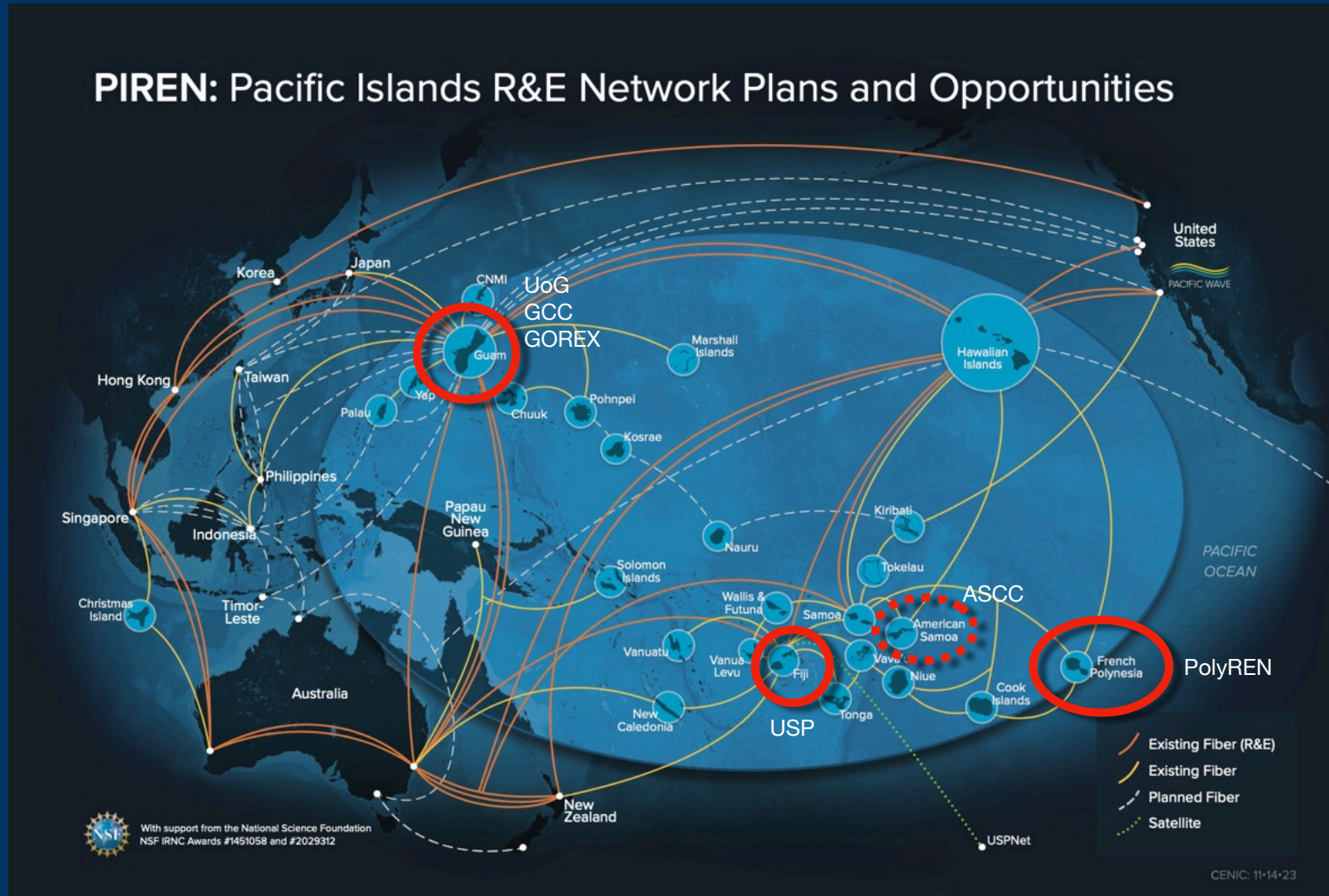
- Supporting Highly Available Connectivity
- Backup Traffic
- Cooperation and Coordination
- Network Research and Services
- Application Development and Support
- External Experiment Support
- Preferred Route ID and Resolution
- Sharing of Measurement Data



PIREN

- NSF Award to UH
- 2020-2025
- Pacific Islands Outreach

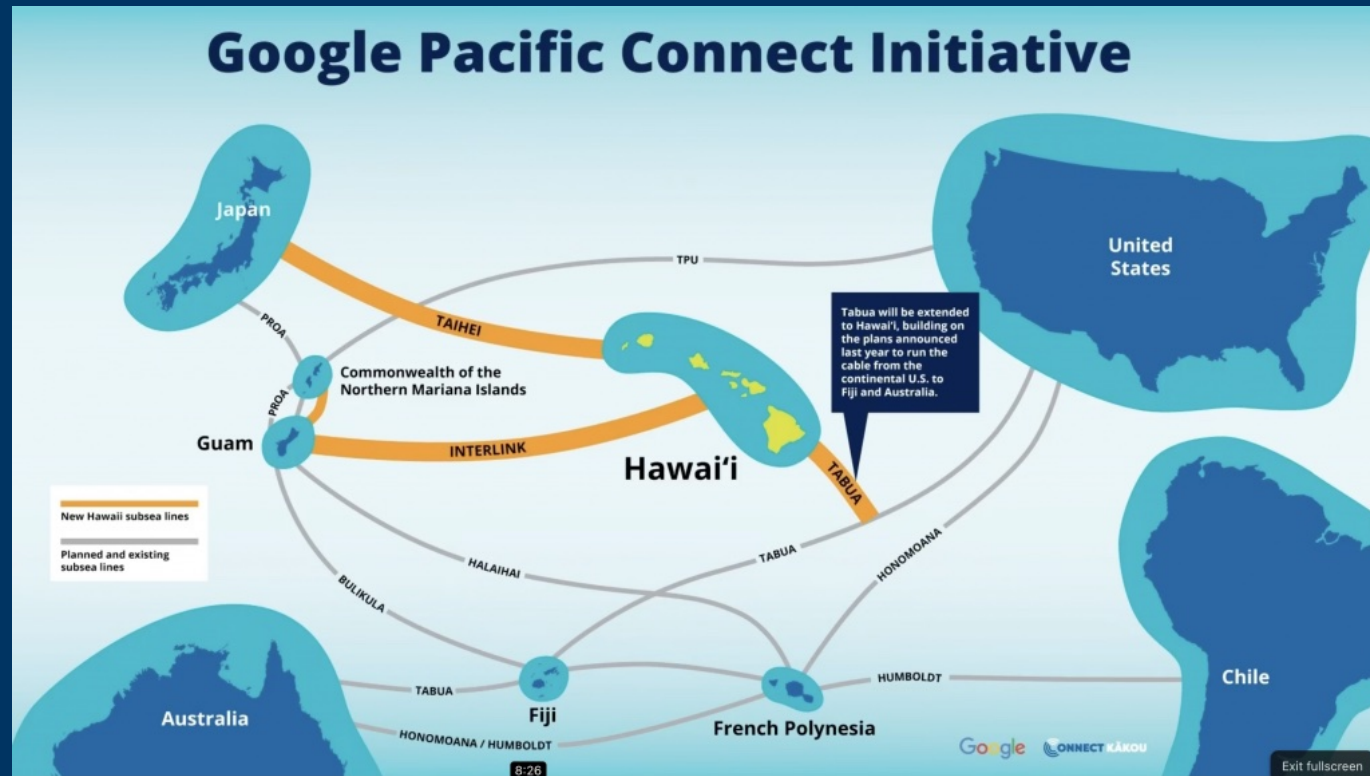
PIREN: Pacific Islands R&E Network Plans and Opportunities



GOREX Upgrades

- Replacement of Juniper MX480 with Arista 7280's in February 2025
- Support for 100 / 400 GbE (and lower of course)
- Upgrade of PerfSONAR to 100 GbE (currently 40 GbE)

Future Things



GOREX

Thank You!

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