GOREX

Guam Open Research and Education eXchange

NSF IRNC Award #2029312

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GOREX

- 2017 - 100G between Los Angeles - Hawaii & Hawaii - Guam
- GOREX turned up on Jan 8, 2018
- Temporary location at GTA Central Office
- Initial connectivity was University of Hawaii, University of Guam and 2 x 10G (TransPAC) to HKOX in Hong Kong

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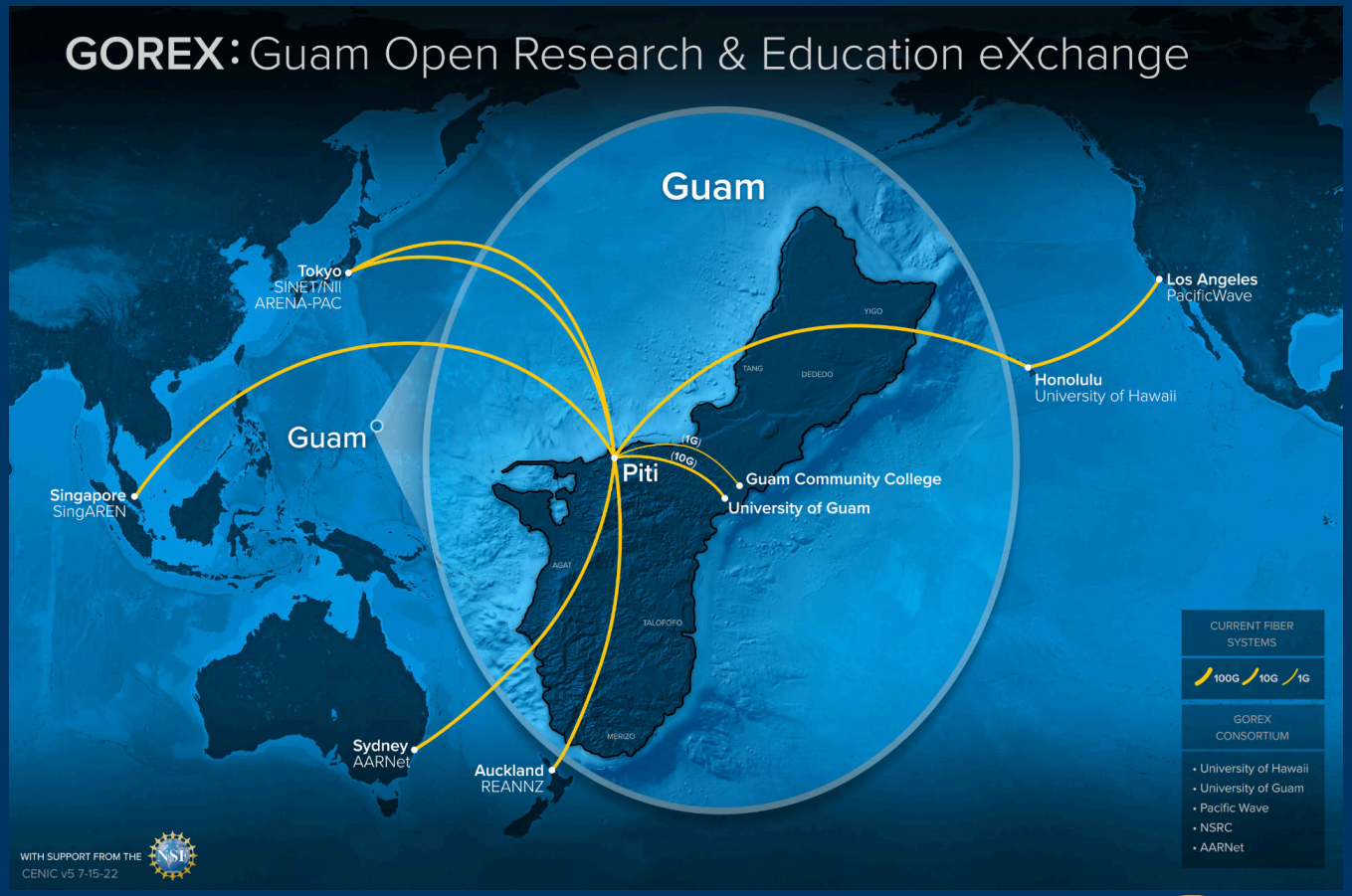
- Moved to GNC in middle of pandemic
- GNC is carrier neutral
- SEA-US, JGA-N/S
- Expecting PREGINet soon



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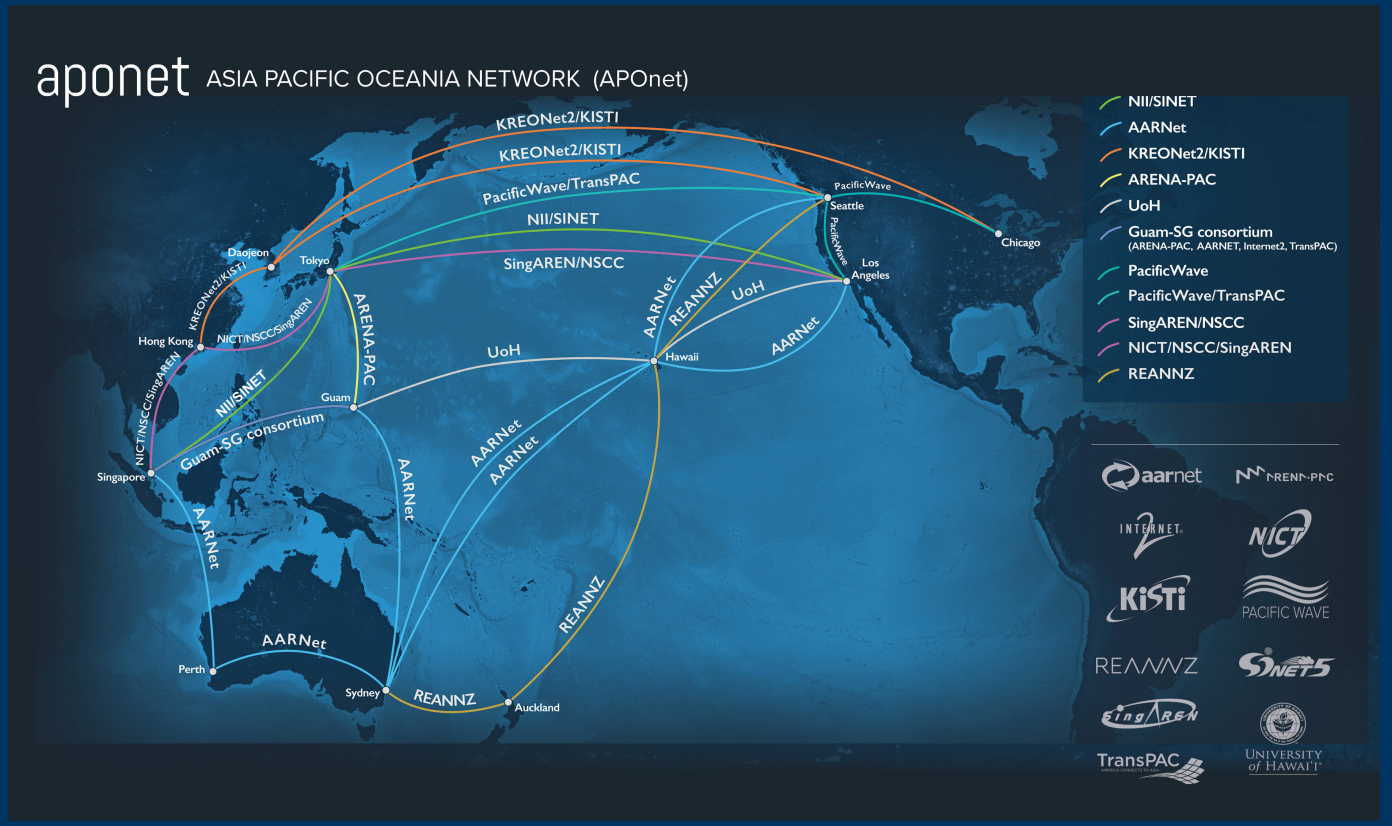
- APONet
- https://aponet.global



- 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

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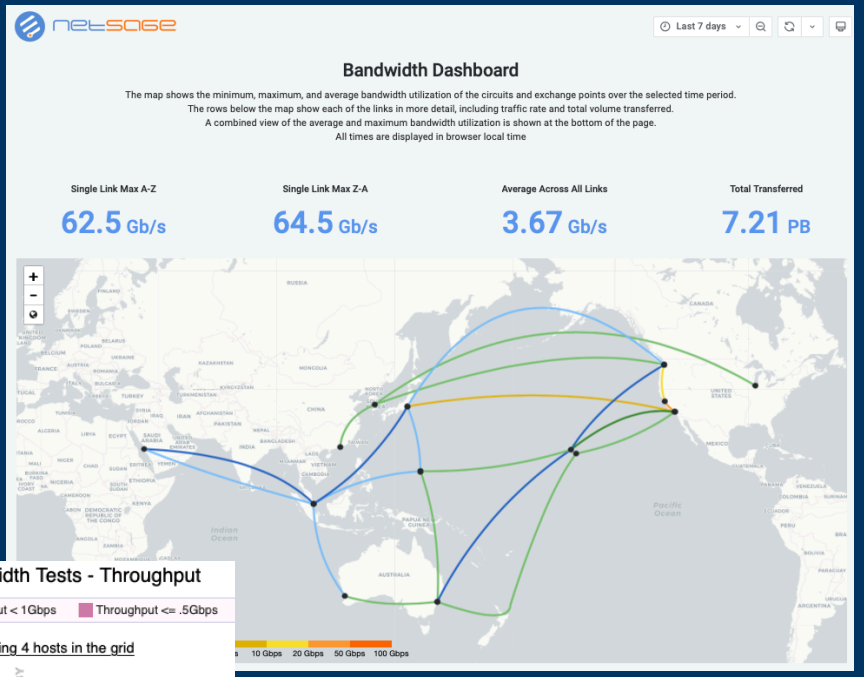
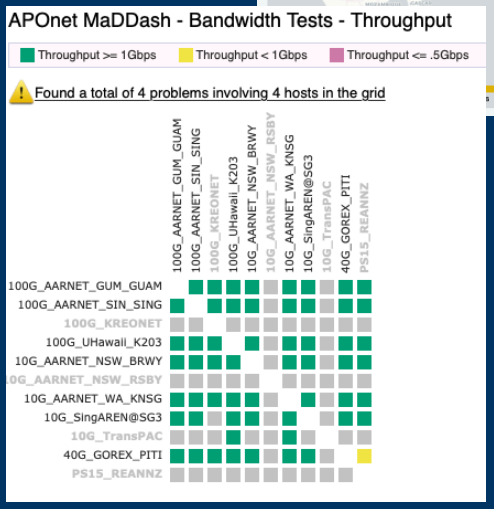
- Layer 2 / Layer 3 exchange point
- Network Usage: https://aponet.netsage.global
- Router Proxy: https://routerproxy-gorex.uhnet.net/routerproxy/
- PerfSONAR MadDash: https://aponet.ps.uhnet.net/maddash-webui/





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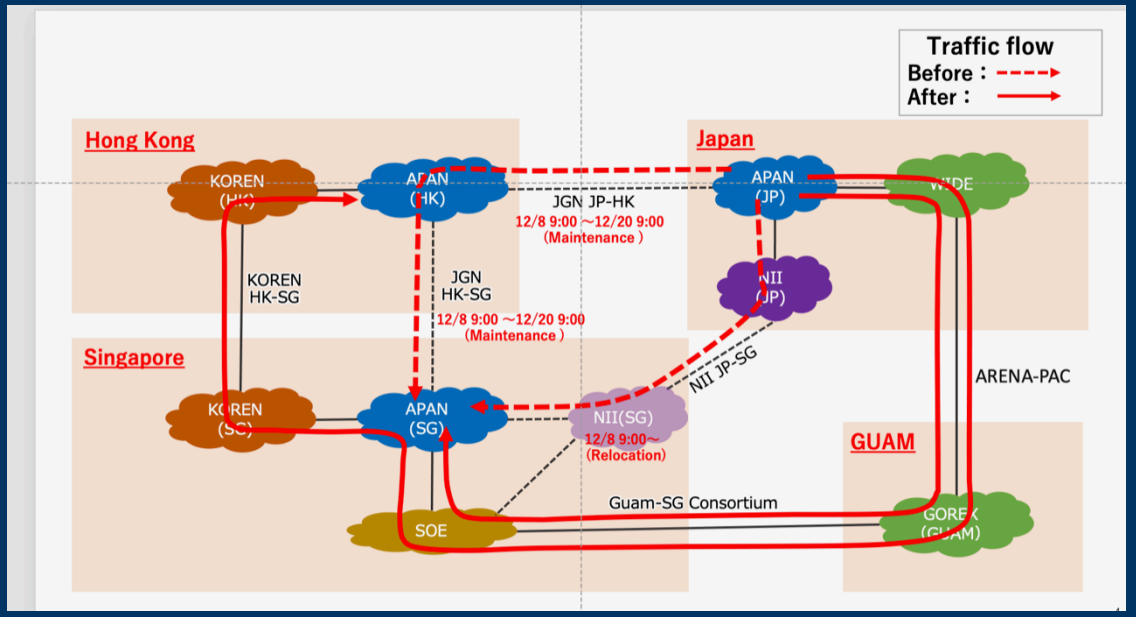
- Backup Paths
  - Japan - Singapore - Hong Kong
  - JGN cable down for maintenance
  - NII switch being relocated
  - Rerouted VLANs through GOREX and SG to avoid going to US West Coast



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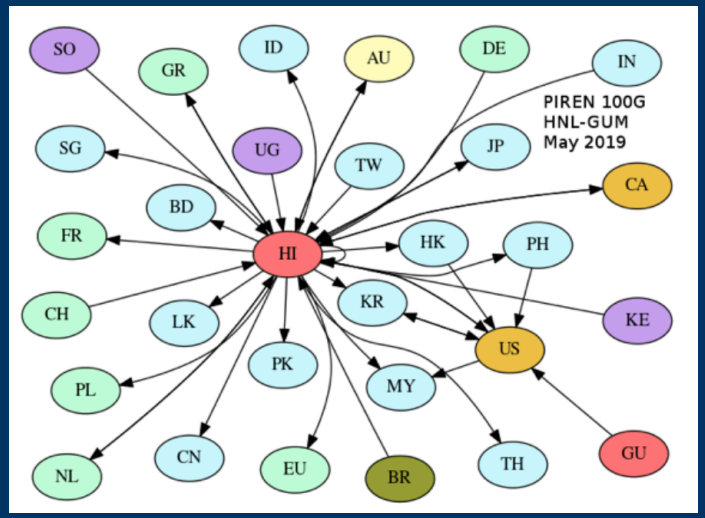
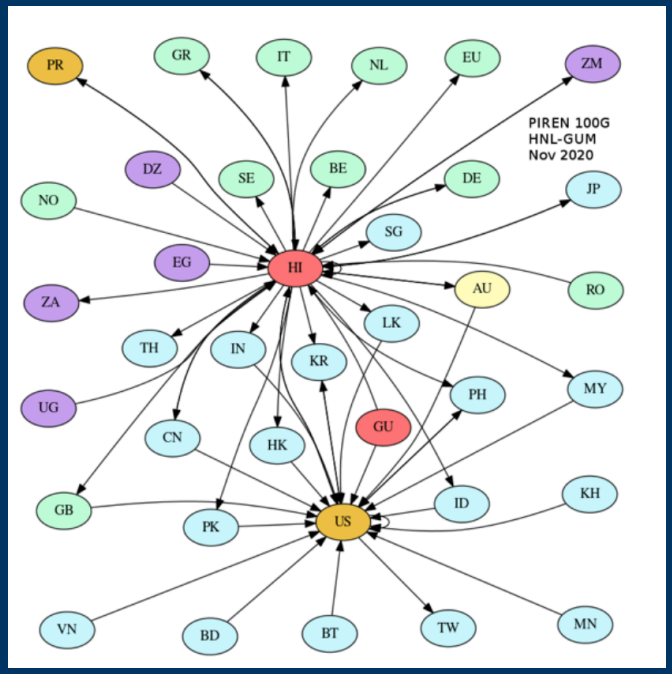
- Traffic patterns through GOREX
  - NetFlow data across Guam-Hawaii PIREN circuit



2019



2020

Region Colors:
- Africa
- Asia
- Au/NZ
- Europe
- North America
- Pacific Islands
- South America

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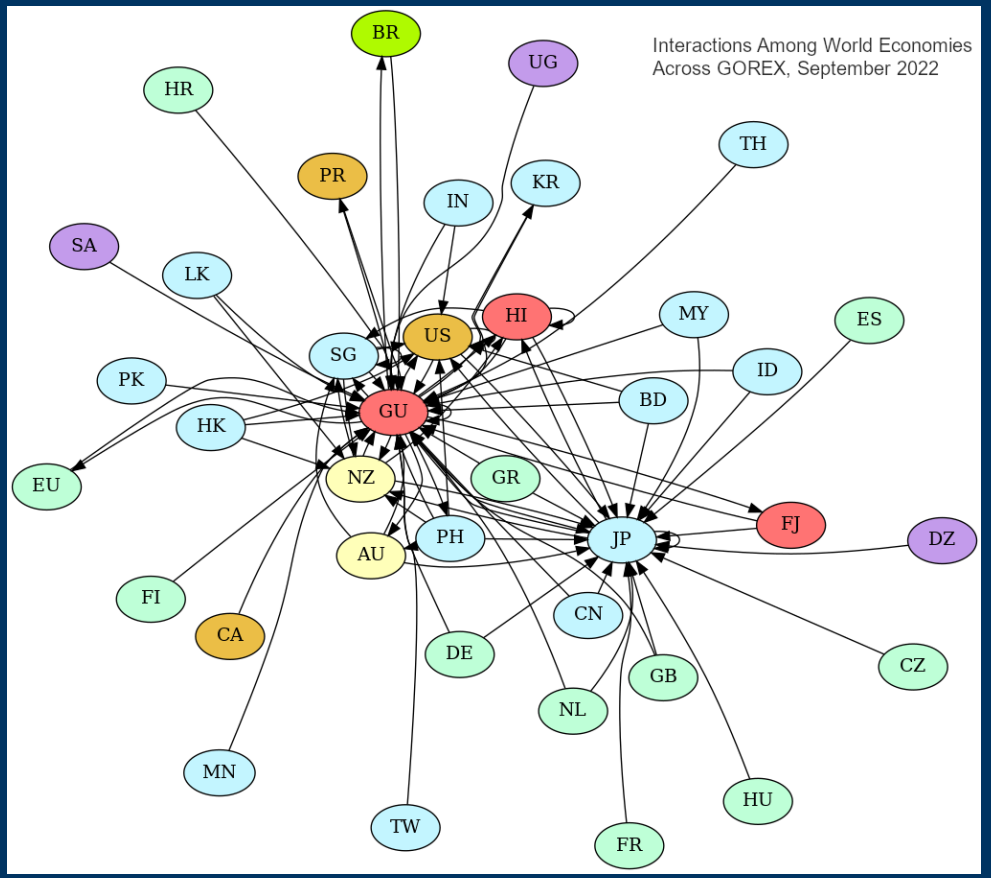
- Traffic Patterns in the Asia-Pacific



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Sep 2022

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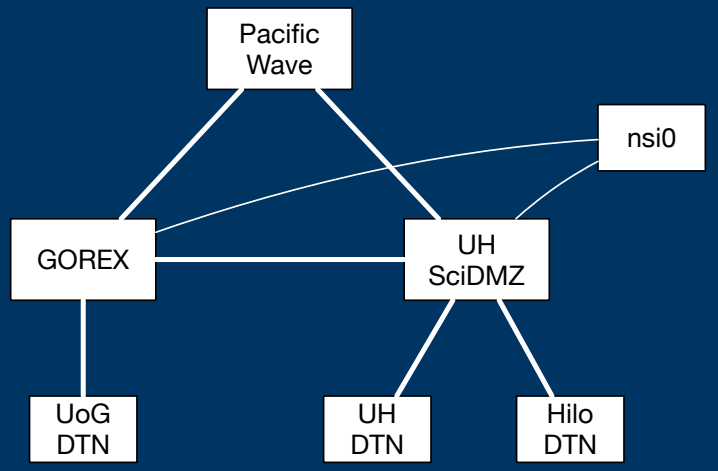
- Upcoming Links / Projects
  - ARENA-PAC - colo & 100G to Indonesia & Philippines
  - SINET - colo
  - PREGINET - 10G
  - AutoGOLE/SENSE
  - GOREX Expansion/Upgrades



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Thank You!

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