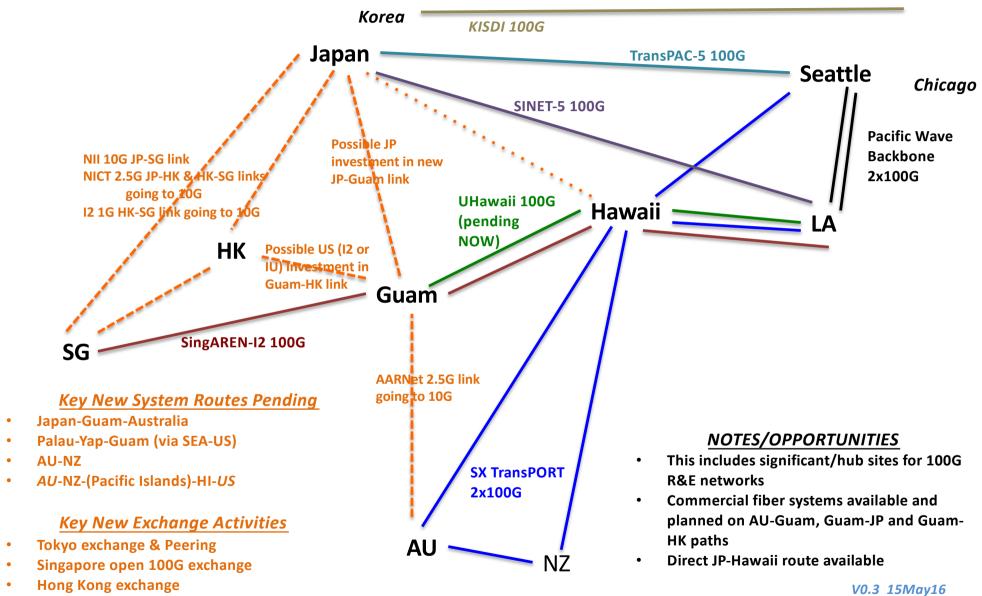


Toward Rationalizing the High Speed Trans-Pacific R&E Infrastructure

Notional Architecture



R&E Network Goals

- Connect local-regional-global education & research communities
 - Enable cyberinfrastructure-empowered research
 - Enable distance learning, training, access to content and academic collaborations
 - Support academic cloud services
- Develop, deploy and transfer advanced network applications and technologies
 - Enable new generation of R&E applications
 - Share massive datasets generated by R&E activities
 - Transfer technology, knowledge and experience for broad commercial use

Benefits of R&E Networking for the Pacific – Education & Health

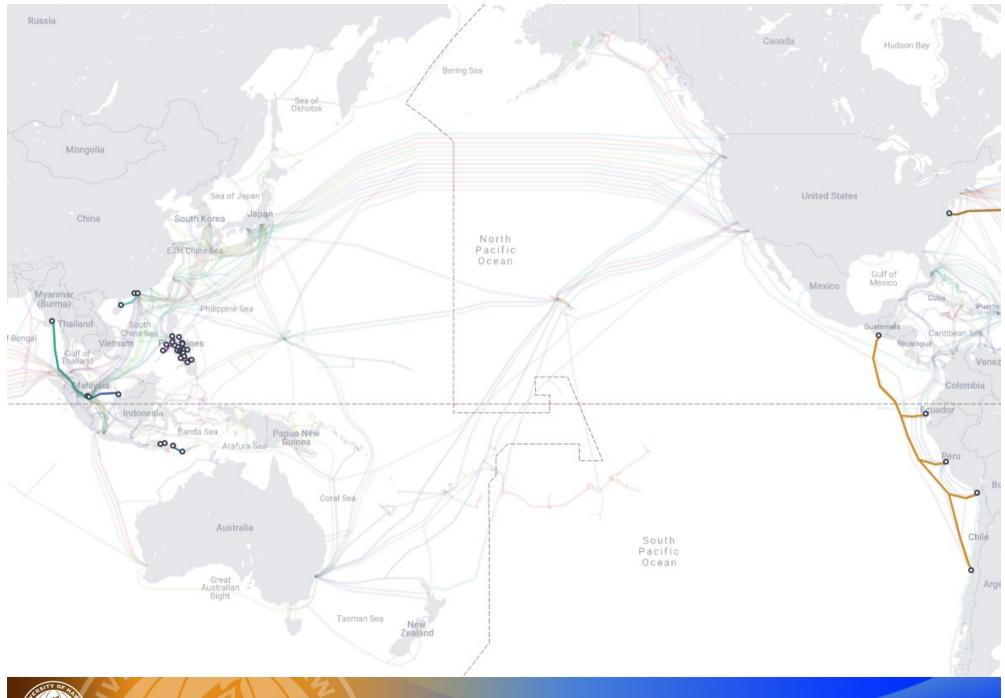
- Expand distance learning opportunities and improve educational capacity
 - Education, Public Health, Health Care, Social Work, STEM,
 Marine Sciences, Environmental Studies, Business...
 - Connect indigenous and native communities to share language, culture, practices and wisdom
- Access to global digital libraries and educational content repositories
- Enable collaboration among schools, colleges, universities,
 NGOs and others throughout the world
- Telemedicine & Public Health outreach and research

Benefits of R&E Networking for the Pacific – Addressing National & Regional Problems

- Enable strategic research using modern cyberinfrastructure and eScience approaches:
 - Climate Change & Sea Level Rise, Ocean Acidification, Coral Reef Survival, Fisheries, Island Sustainability, Indigenous Culture Preservation, Sustainable Agriculture, Public Health, Bioinformatics applications to people and the environment, Earthquake & Tsunami Modeling, Disaster Resilience, Environmental Studies...
- WITH, not just FOR Pacific Islanders

Benefits of R&E Networking for the Pacific – Economic

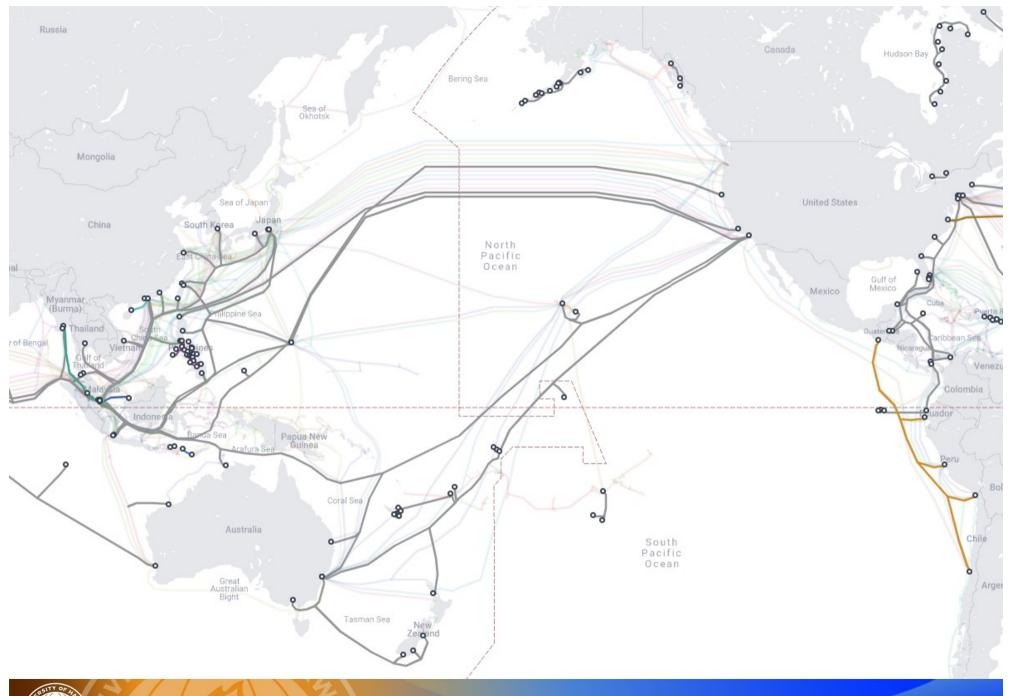
- Develop a workforce skilled with emerging technologies for local telecommunications and ICT industries
- Enable economic development for information economies through new ICT-based innovations and initiatives
- Build appreciation for higher speed broadband
- Catalyze demand for higher capacity services and infrastructure - direct benefit to commercial carriers

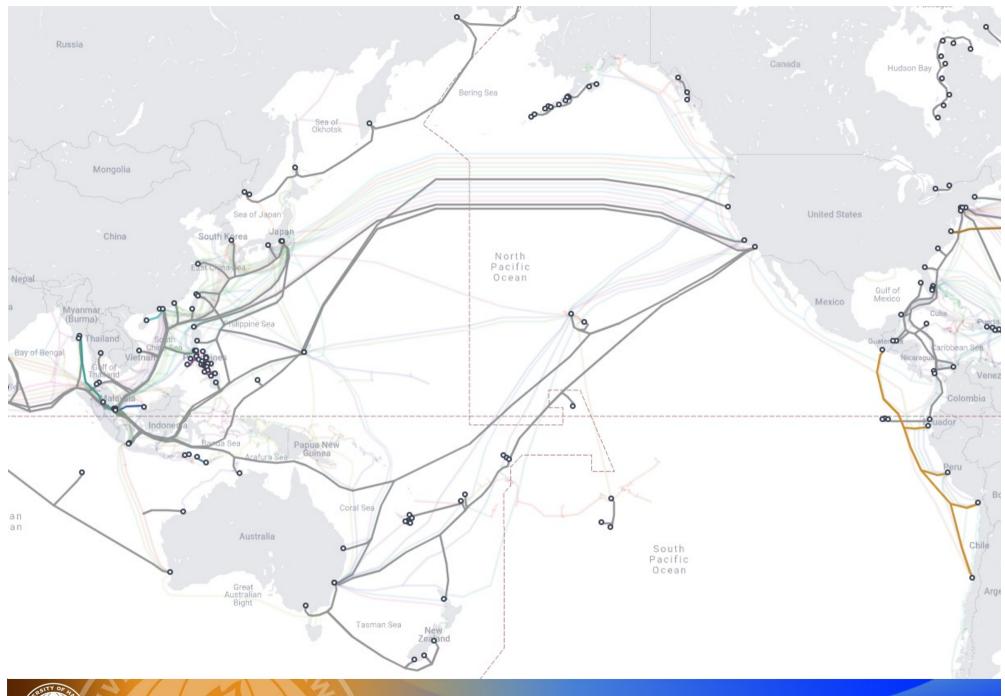


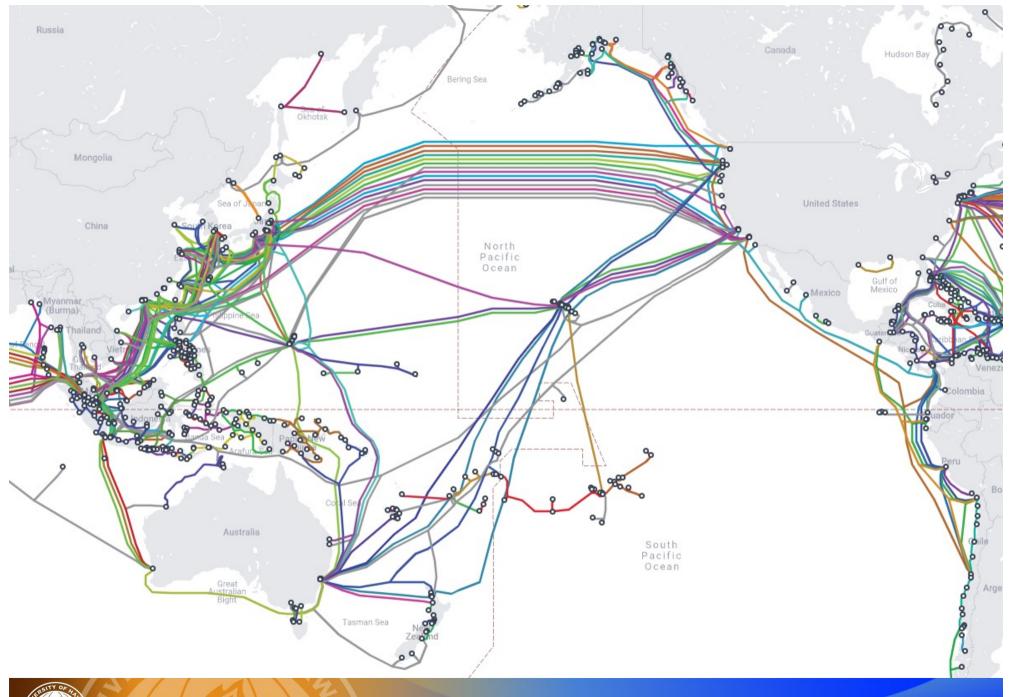


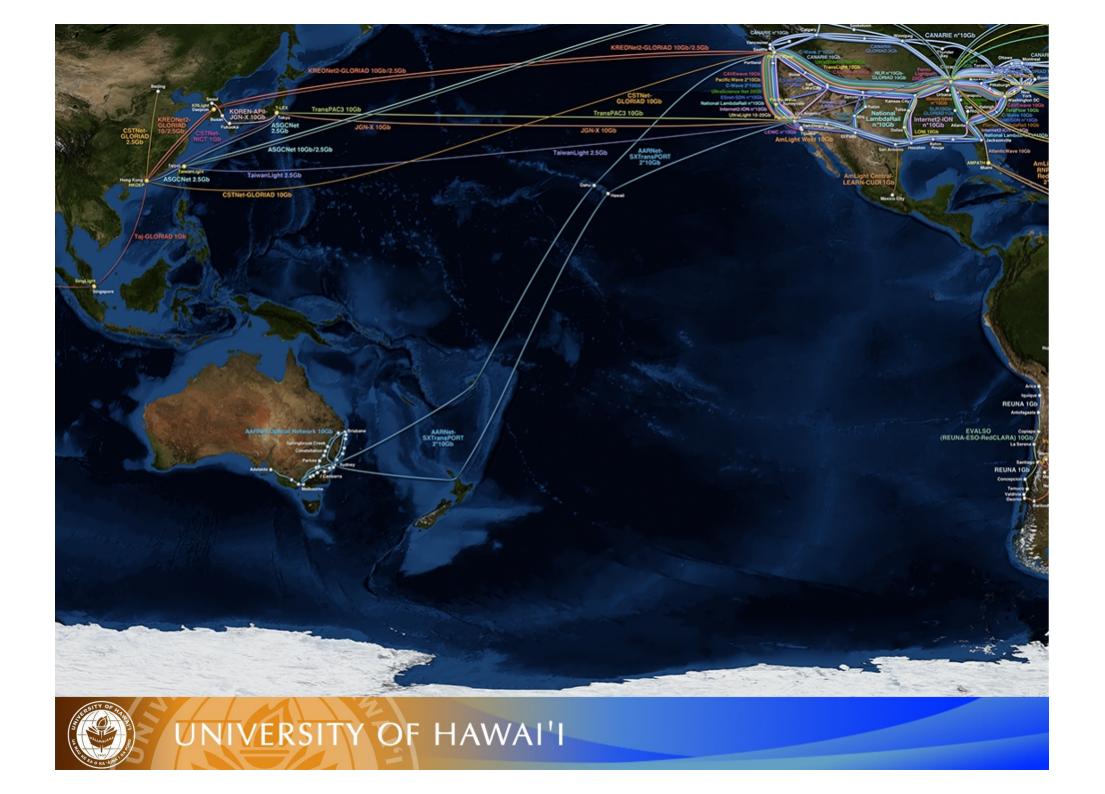


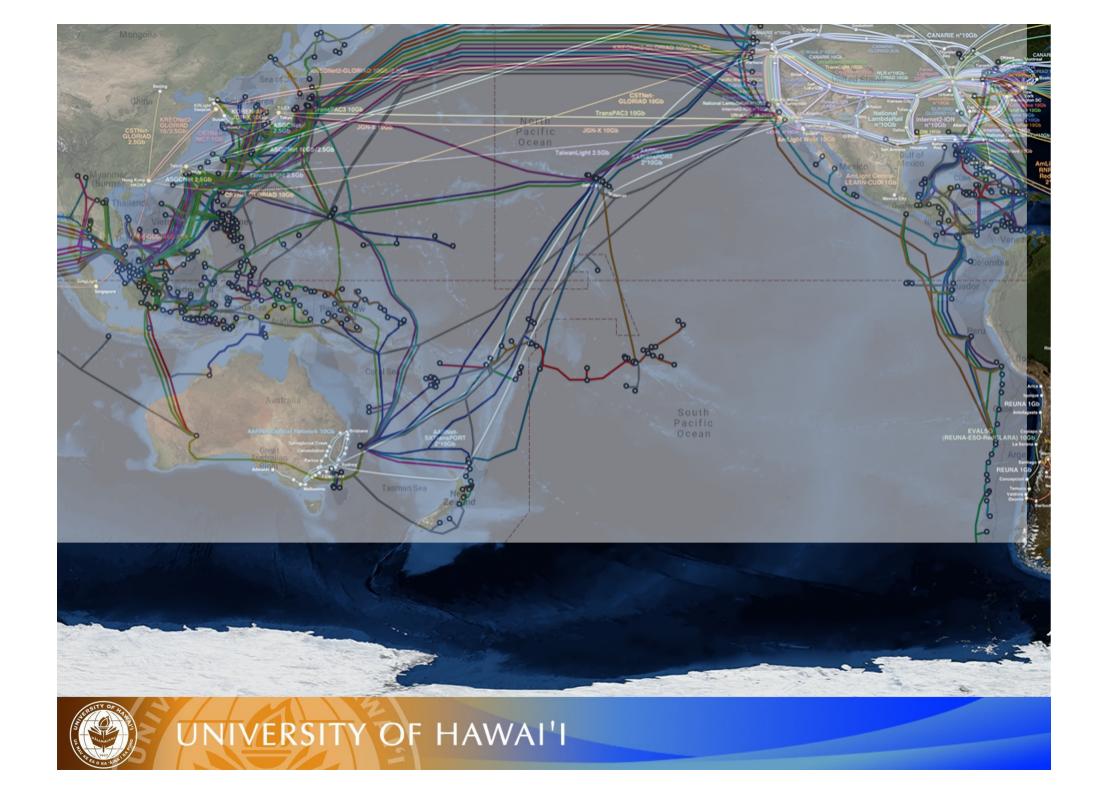




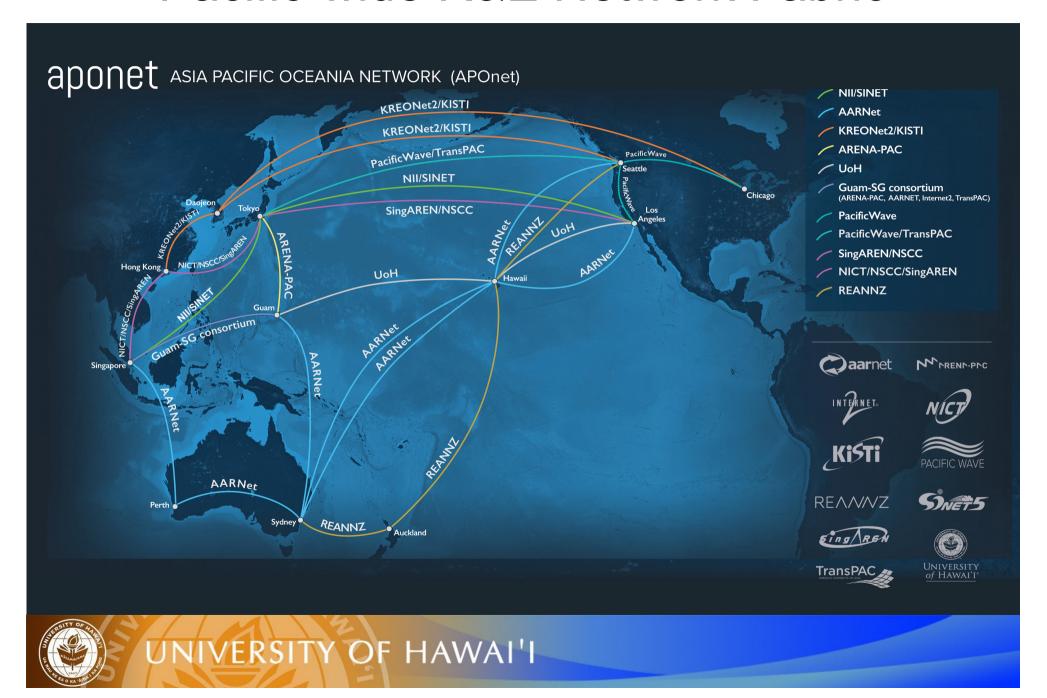








Pacific-wide R&E Network Fabric



MAHALO!

