

Driving E-Research across the Pacific

AARNET

APAC

TransLight/PacificWave

Workshop

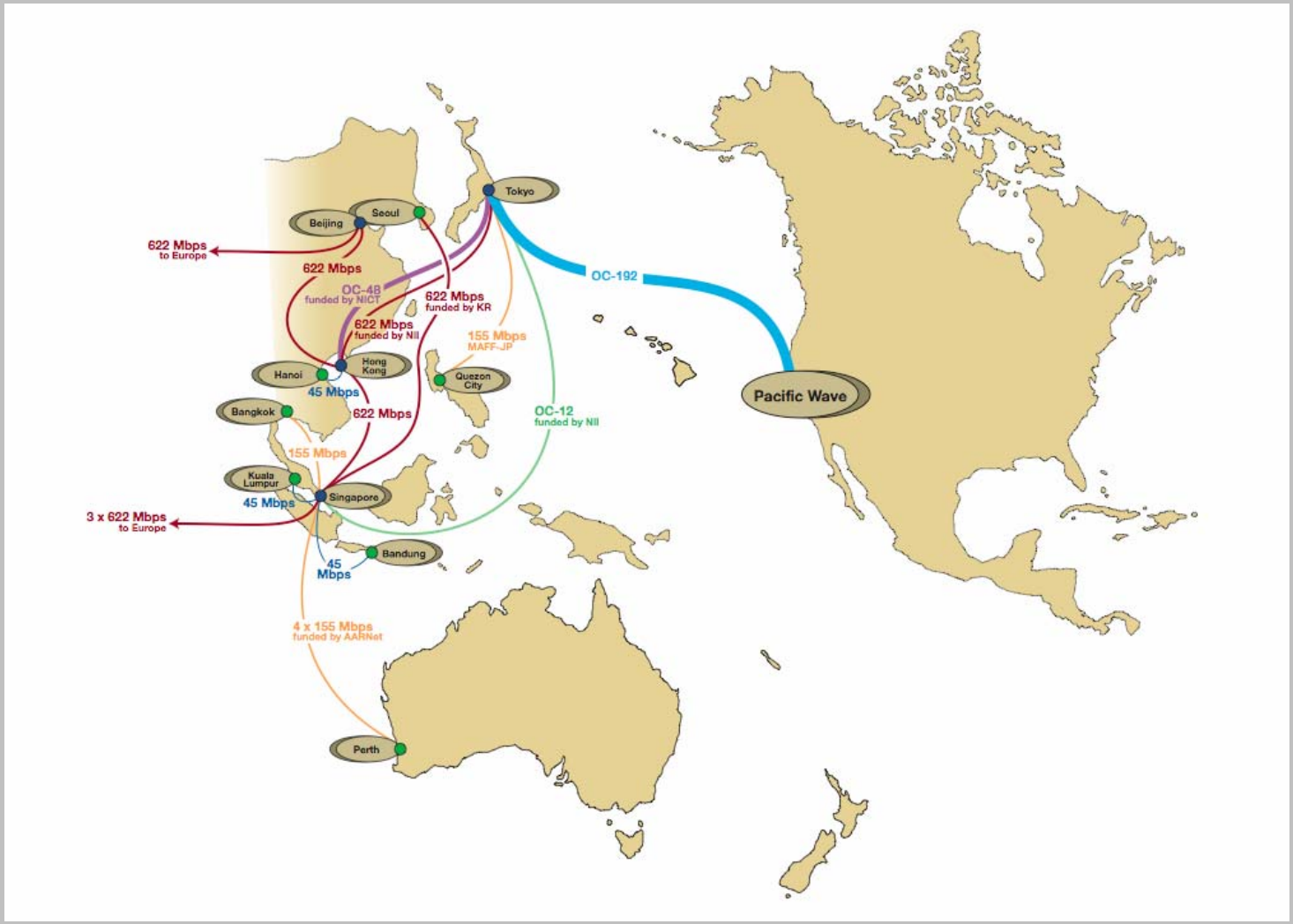
Perth, WA, October 11, 2007

US NSF-OCI IRNC

International Research Networks Connections

- Transpac2
- WHREN/LILA
- GLORIAD
- TransLight/StarLight
- TransLight/PacificWave

Transpac2



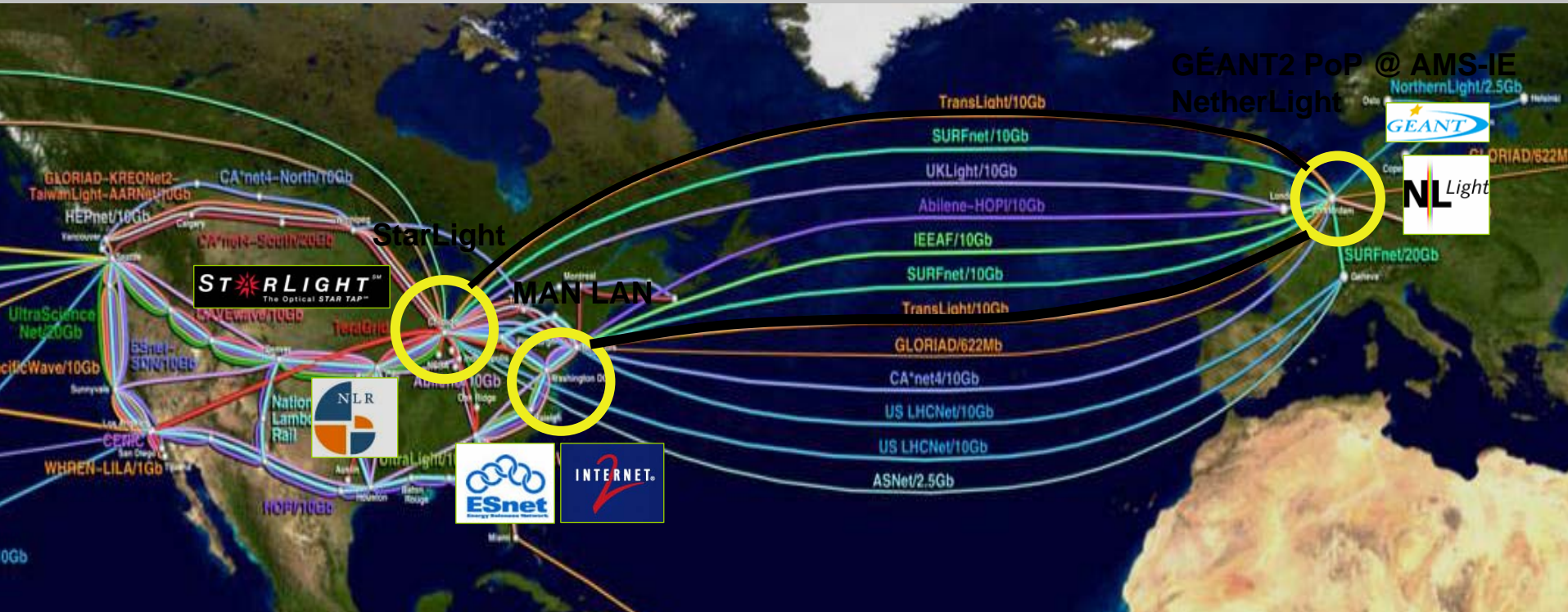
WHREN-LILA

- (1) 1.2Gbps link evolving to 2.5Gbps + dark fiber segment
- U.S. landings in Miami and San Diego
- Latin America landing in Sao Paulo and Tijuana



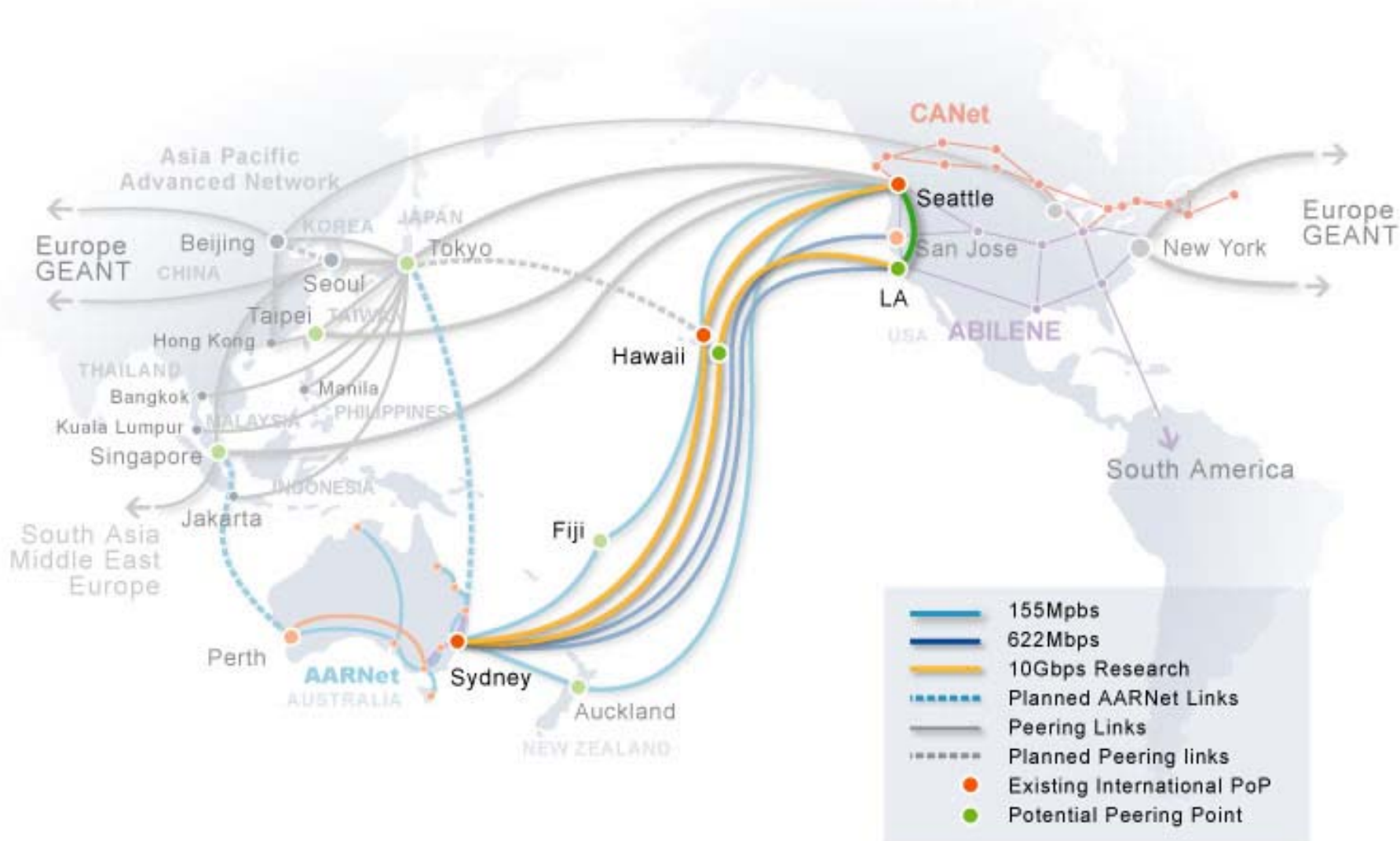
TransLight/StarLight

Two Trans-Atlantic Links

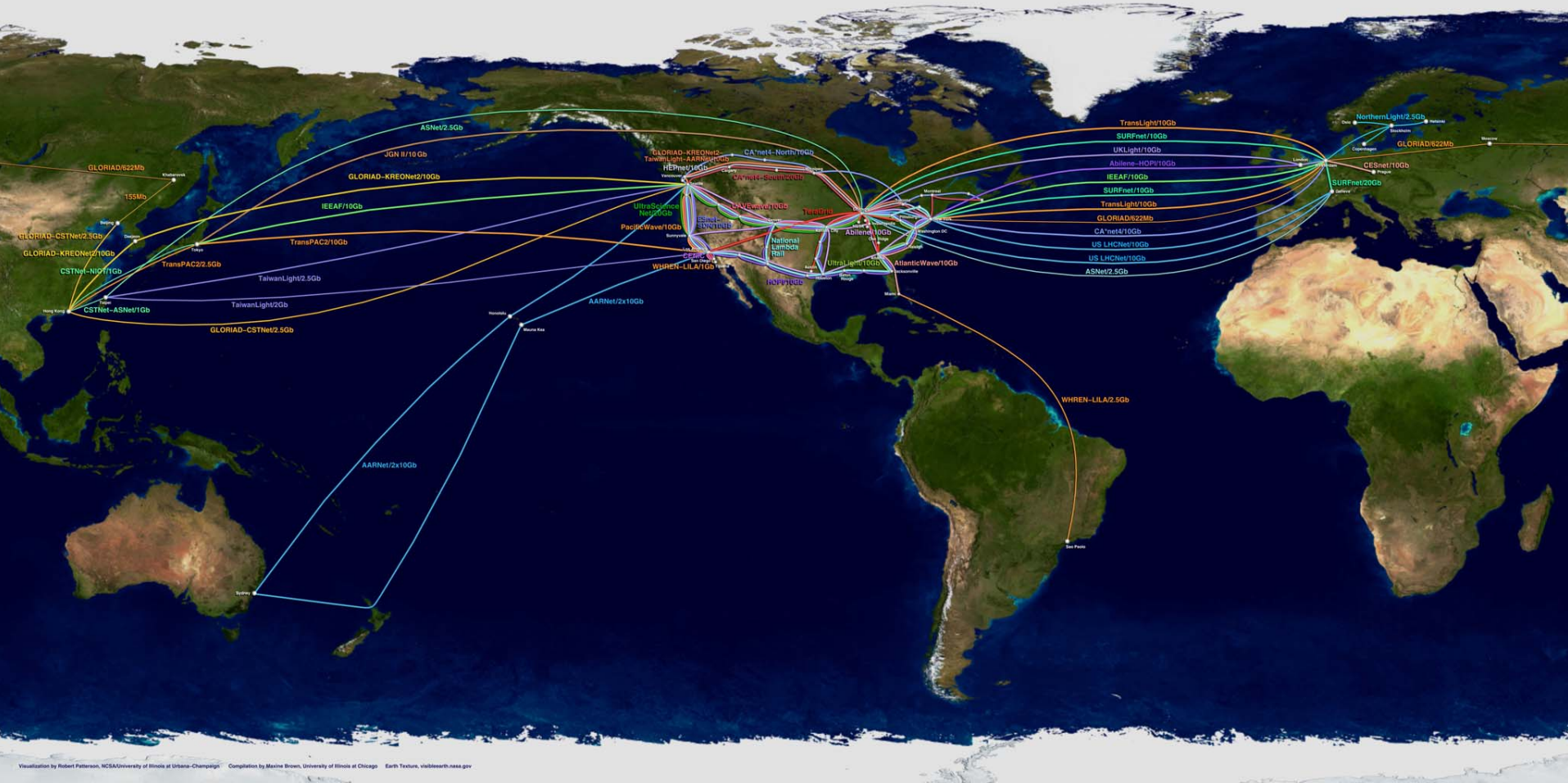


- OC-192 routed connection between MAN LAN in New York City and the Amsterdam Internet Exchange that connects the USA Abilene and ESnet networks to the pan-European GÉANT2 network
- OC-192 switched connection between NLR and RONS at StarLight and optical connections at NetherLight; part of the GLIF LambdaGrid fabric

Pacific Connectivity and SX TransPORT



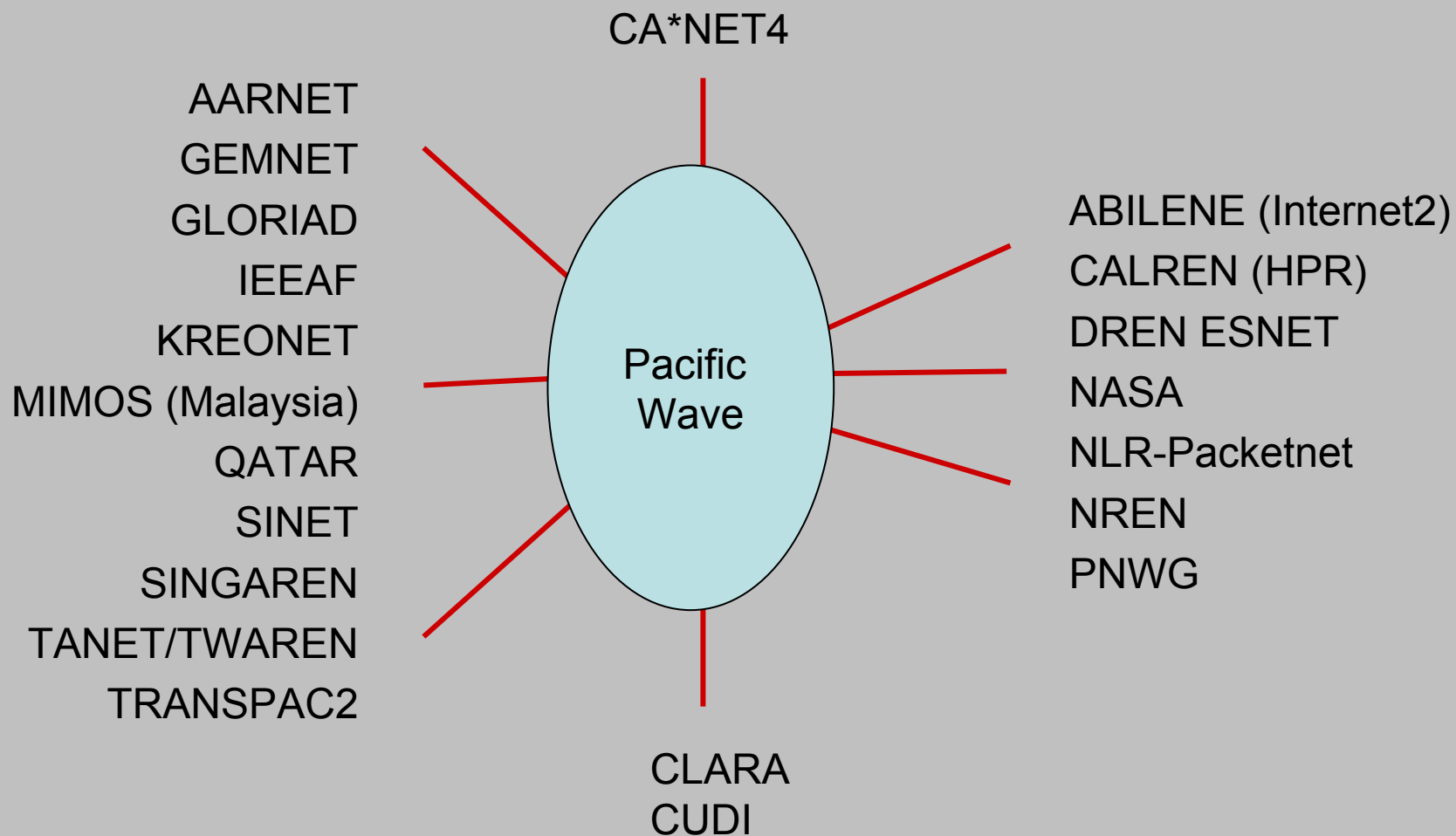
International Connectivity (GLIF)



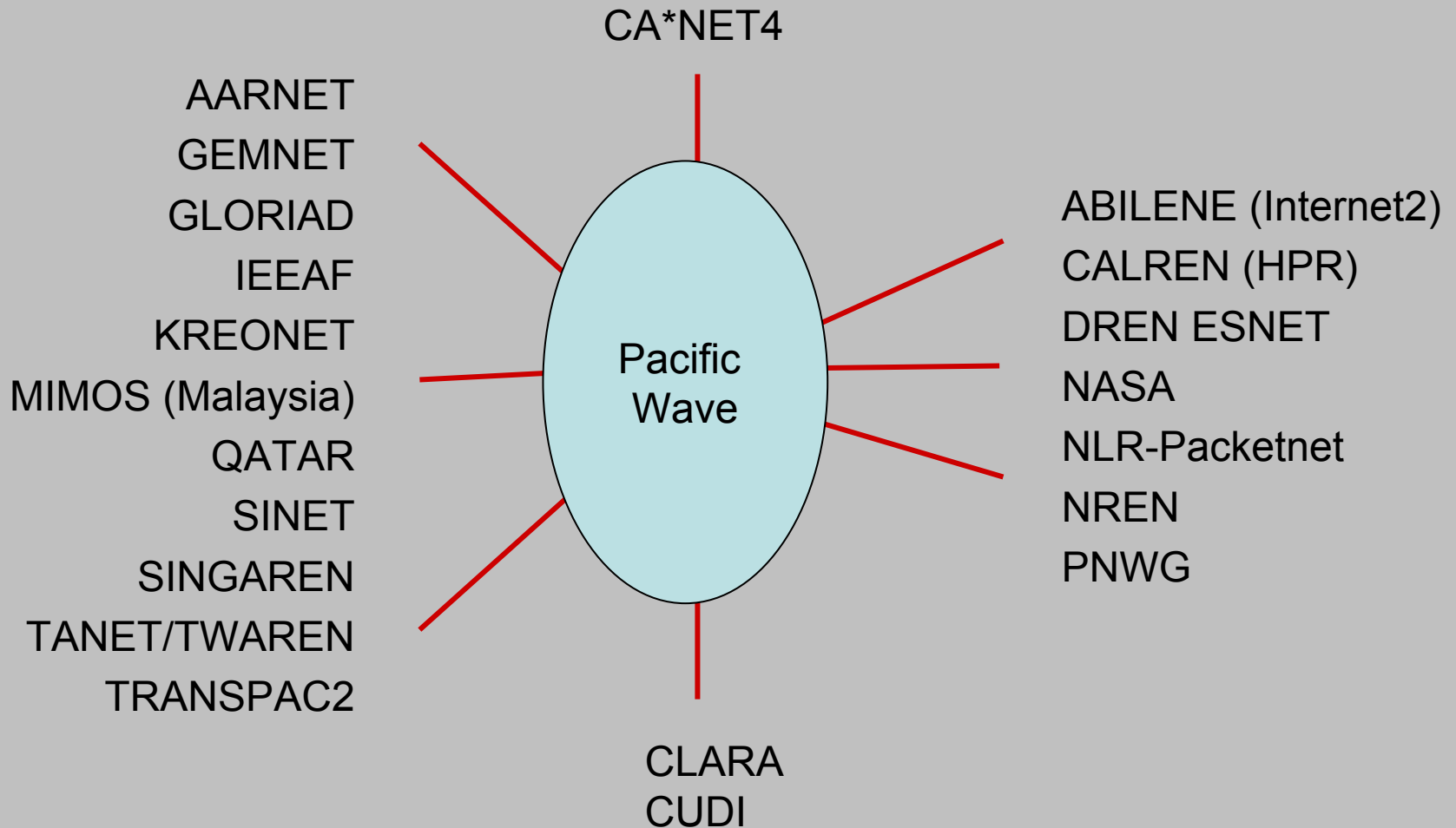
Visualization courtesy of Bob Patterson, NCSA.

www.glif.is

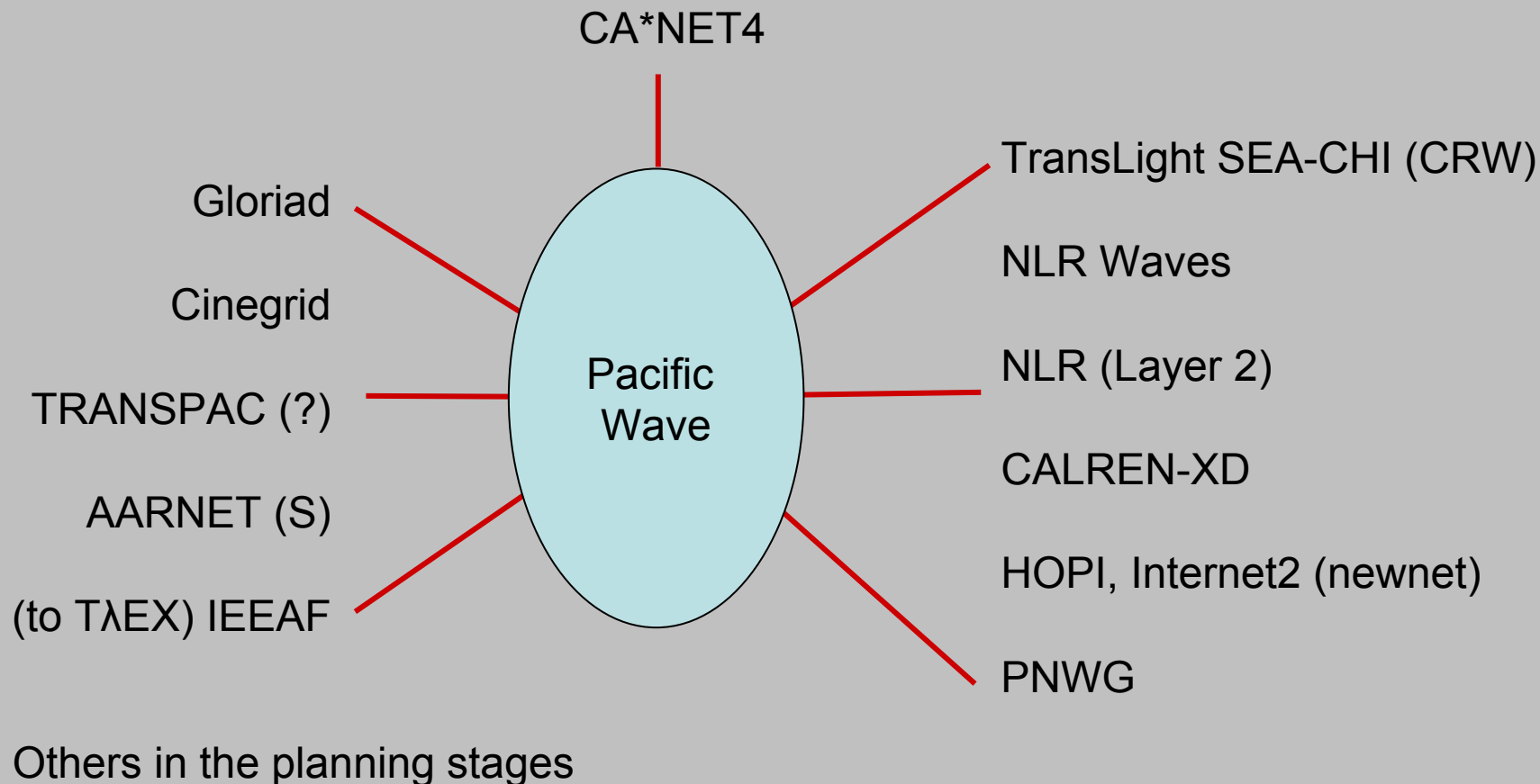
“Layer 3” R&E Networks and Pacific Wave



“Layer 3” R&E Networks and Pacific Wave



Lightpath Networks and PW



Workshop Objectives

- Identify and Support Research Collaborations that can benefit from the Trans-Pacific Connectivity
- What is needed?
- Establish Goals and Milestones for next 12-24 Months
- Identify Longer Term Needs