



Singapore Advanced Research and Education Network

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APAN42 Meeting, Hong Kong

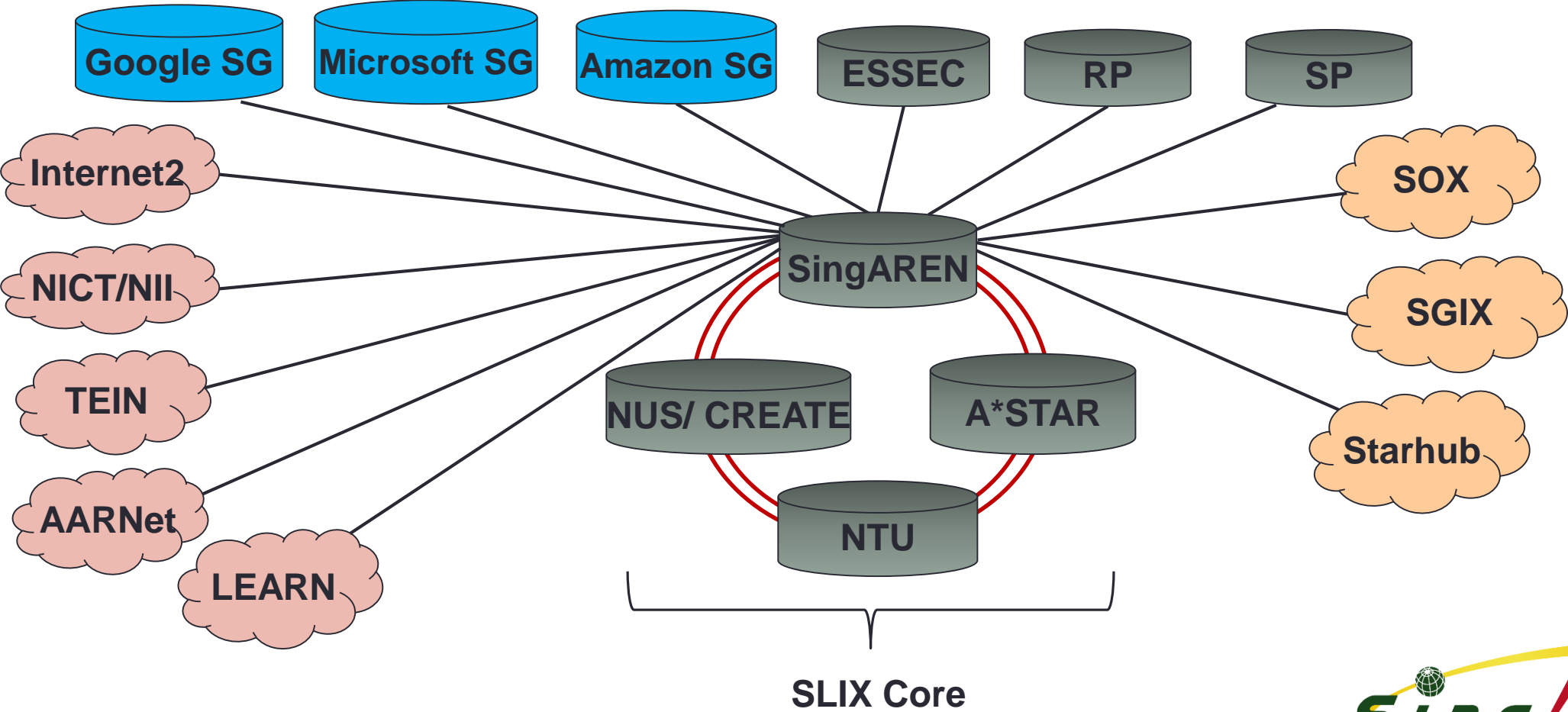
31 July – 5 Aug 2016

Presentation Overview

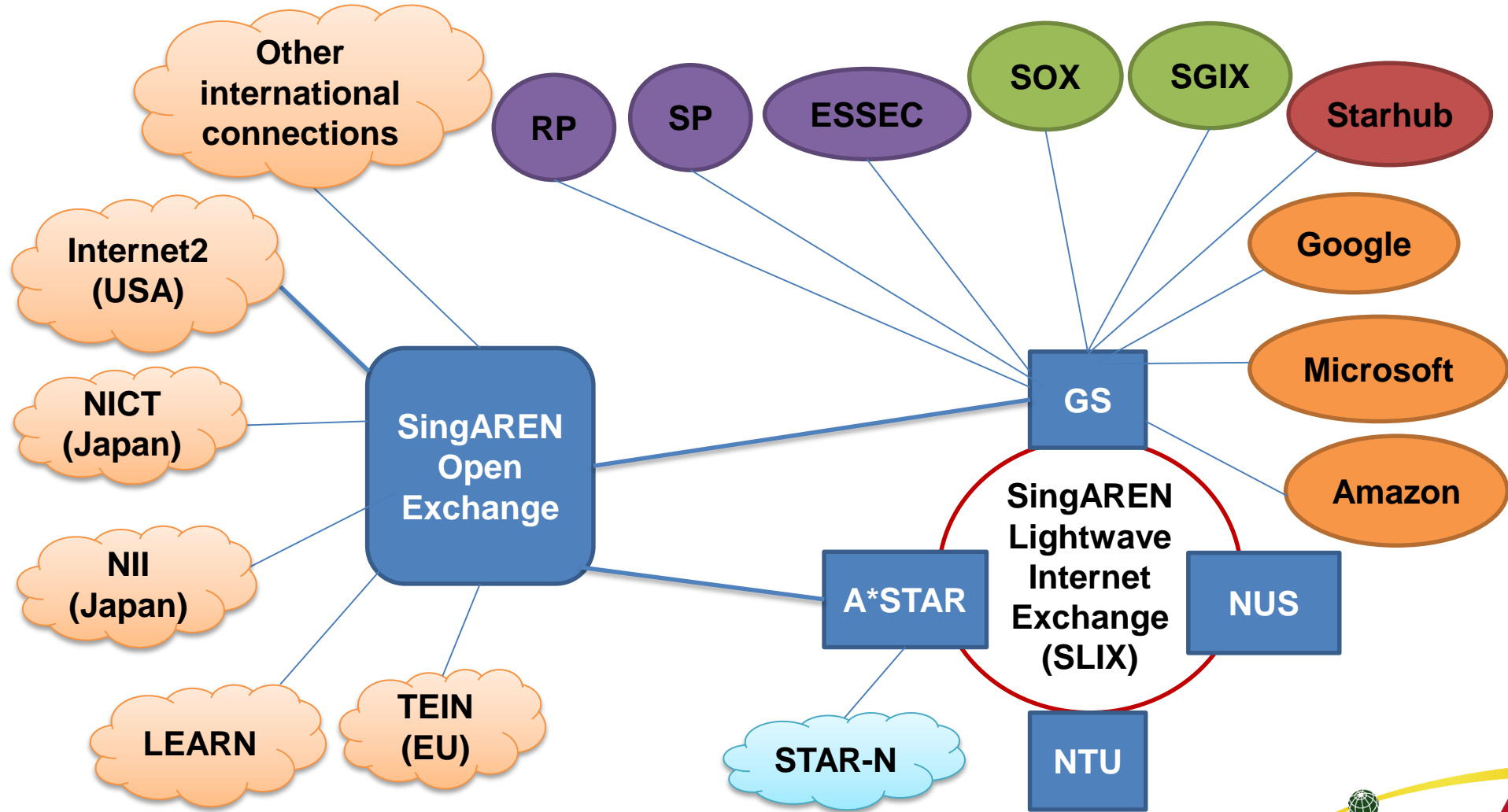
- Network Topology
- New Services
- Collaboration with Industry Partners



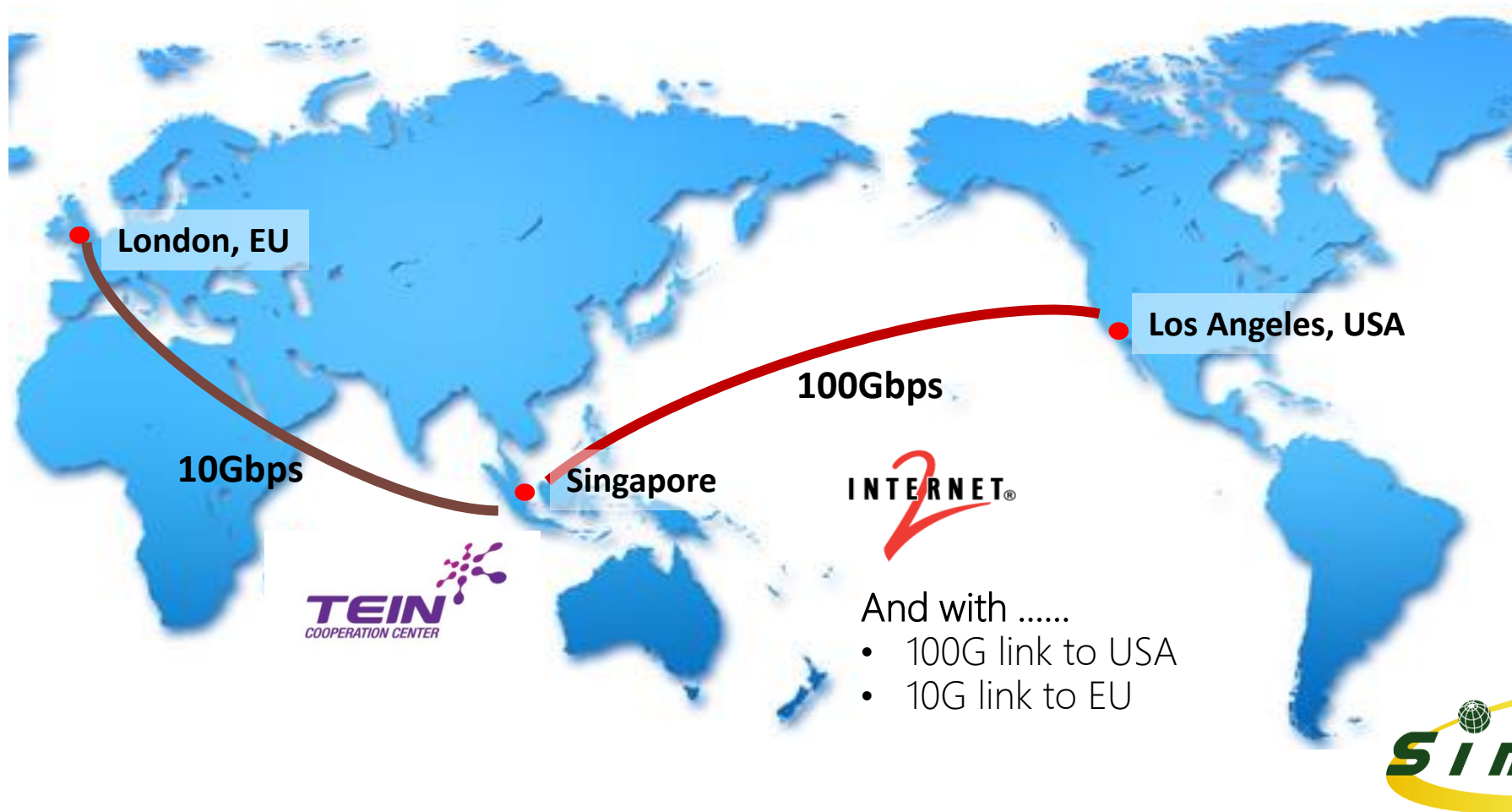
SingAREN-Lightwave Internet Exchange (SLIX)



SingAREN Network Topology (Future)



Collaborations with National Supercomputing Centre (NSCC), SG and R&E partners:



Singapore Access Federation (SGAF) Service



- Launched on 14 July 2016
- Cross-organisational authentication and authorisation system to provide **single-sign on (SSO)** for web applications
- **Trust** between Identity Providers (IdP) & Service Providers (SP)
- <http://www.singaren.net.sg/SGAF.php>



Singapore Access Federation (SGAF) Service

Cloud Computational Services

In collaboration with:



Agency for
Science, Technology
and Research

FileSender SG

Powered by:



User Portal : National Supercomputing Centre



Database Mirroring Service

- Enables high-speed downloads of major scientific databases for Singapore's R&E community
- Relevant for users with regular and frequent access to large databases hosted overseas
- <http://dbmirror.singaren.net.sg/>



Database Mirroring Service

Examples of mirrored scientific databases:

- National Center for Biotechnology Information (NCBI), U.S.
- UCSC Human Genome Browser, U.S.
- European Bioinformatics Institute (EBI)
- GenomeNet, Japan



Open Networking Innovation Competition (ONIC)

- 1 – 30 June 2016, Co-host: SingAREN
- Target Audience: R&E institutions in Asia Pacific
- Develop the most innovative application for a Data Center Interconnect (DCI) use-case, specifically with Ciena's [Waveserver™](#) stackable interconnect system on the [Emulation Cloud™](#), using its REST-APIs.

SingAREN-Brocade SDN Interactive Workshop

28 Apr 2016



Thank You!

