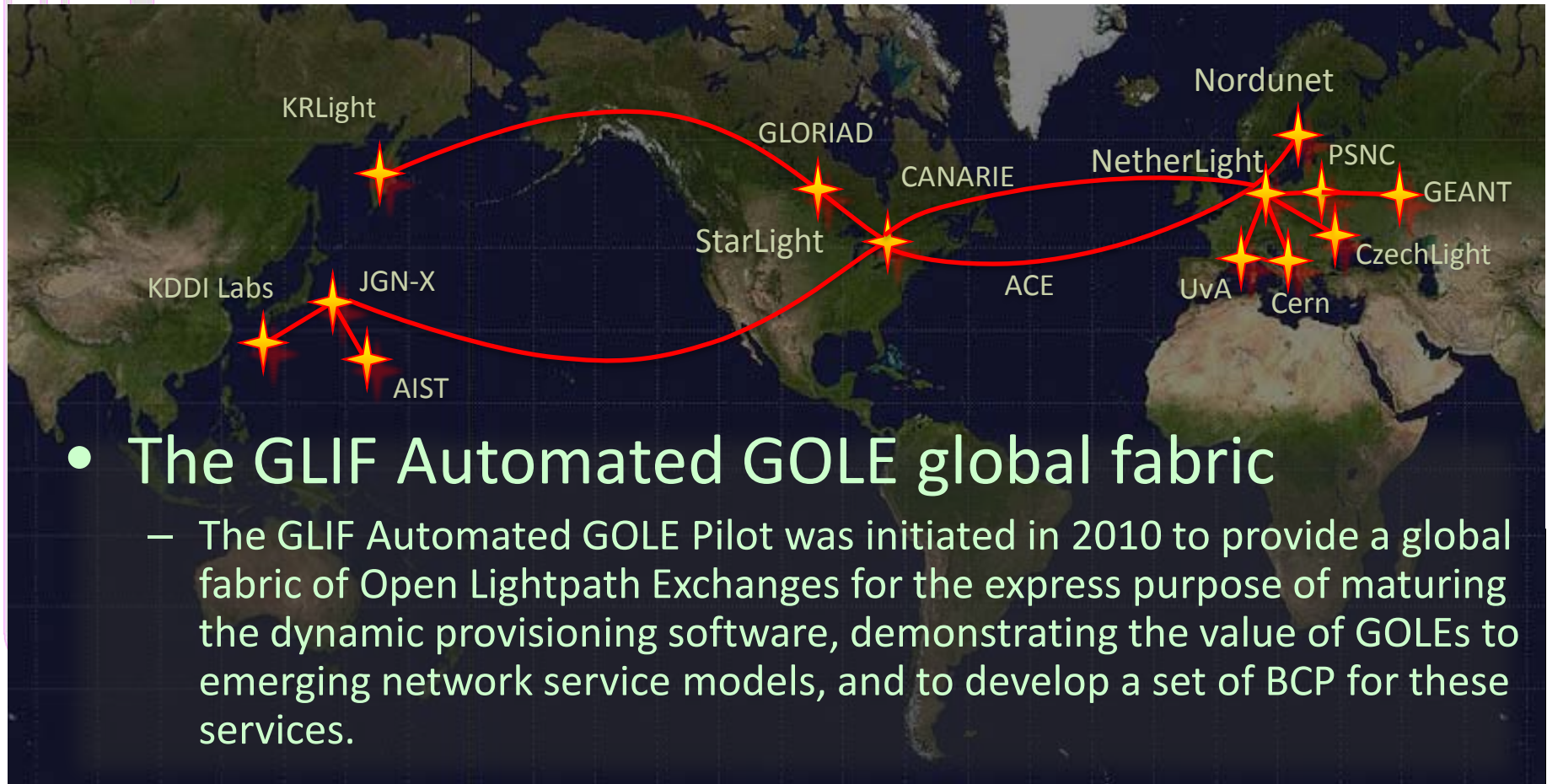




Automated GOLE Pilot Project update

Jerry Sobieski

Oct 2012
Chicago, US

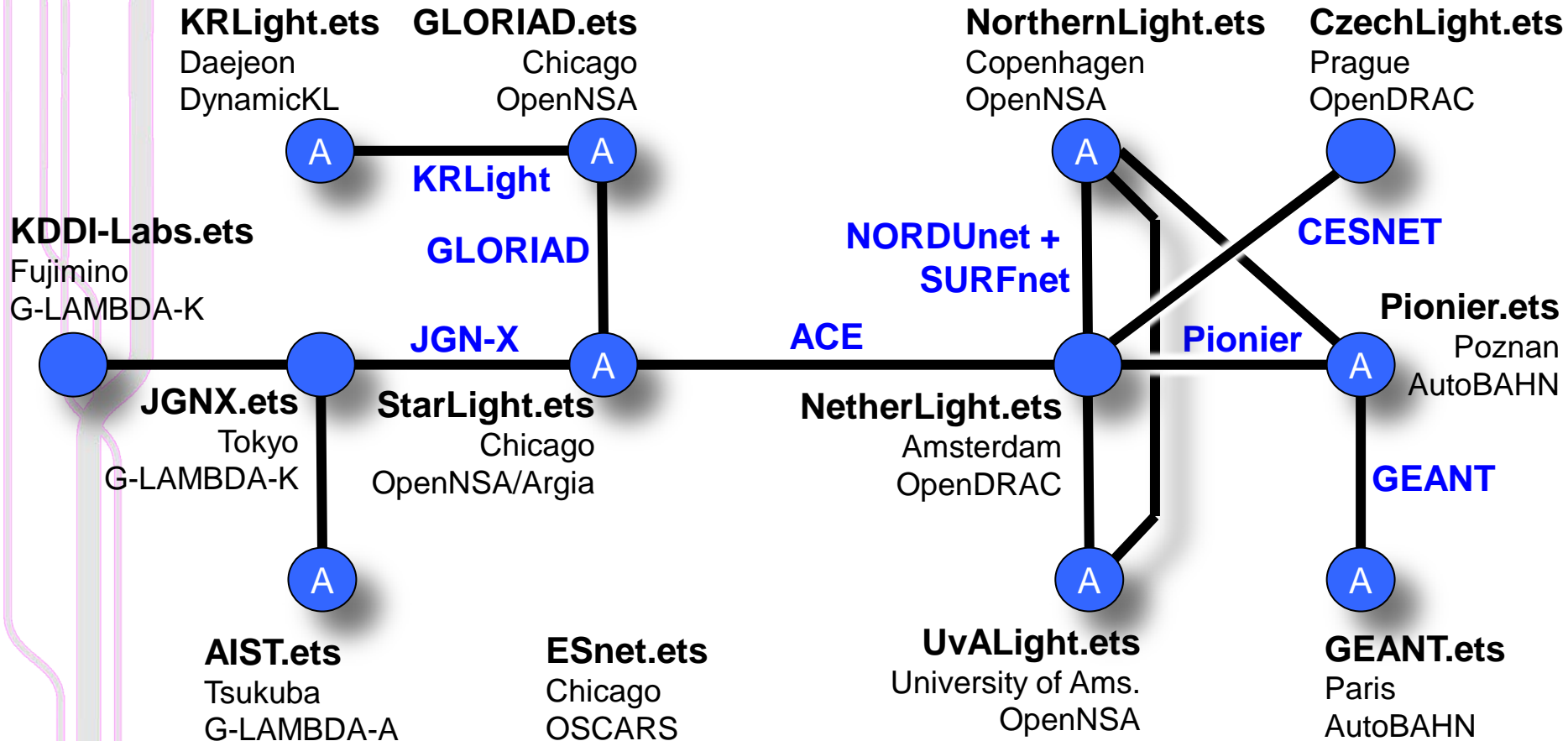


- The GLIF Automated GOLE global fabric

- The GLIF Automated GOLE Pilot was initiated in 2010 to provide a global fabric of Open Lightpath Exchanges for the express purpose of maturing the dynamic provisioning software, demonstrating the value of GOLEs to emerging network service models, and to develop a set of BCP for these services.

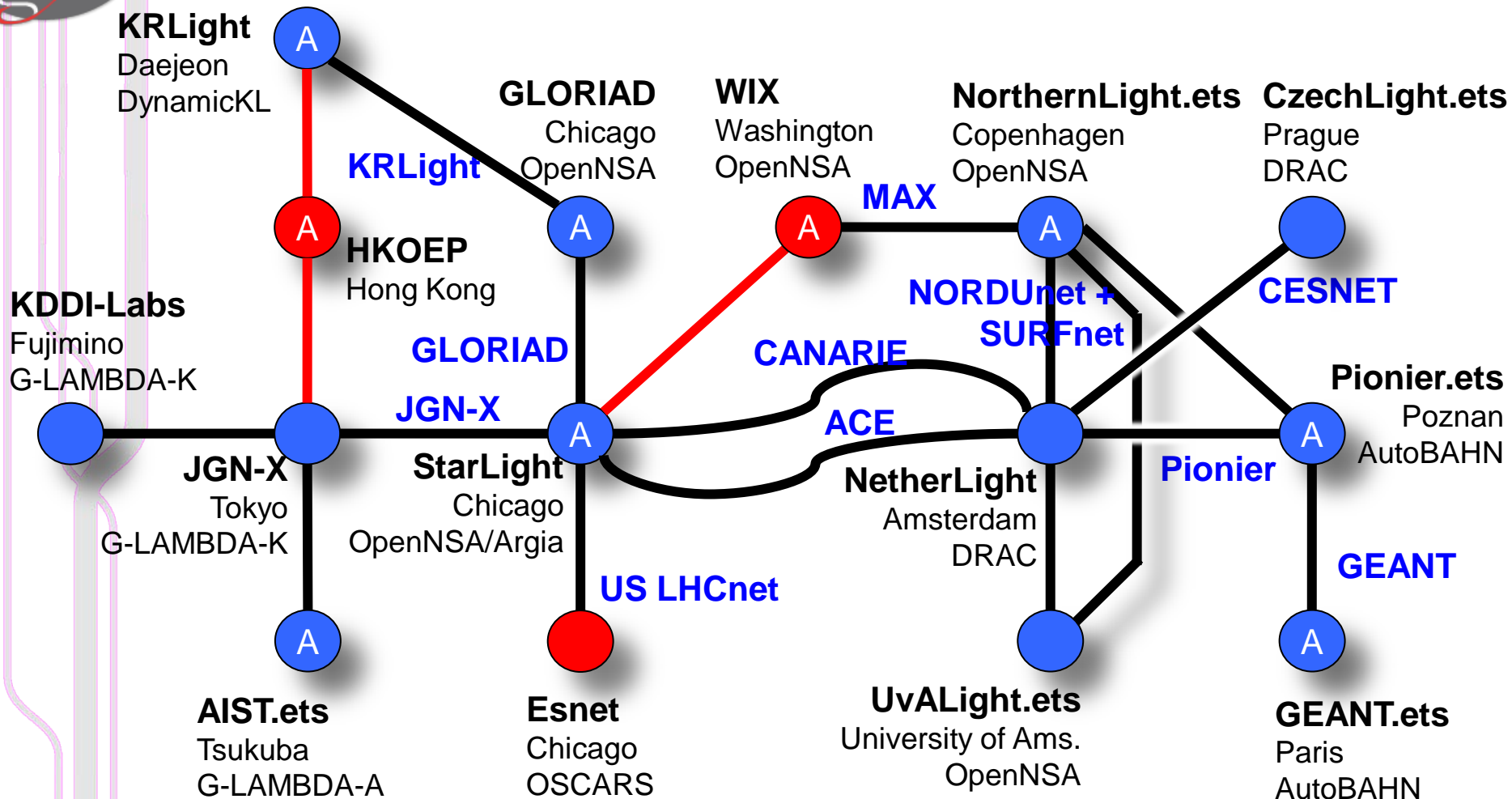




Ethernet Transport Service



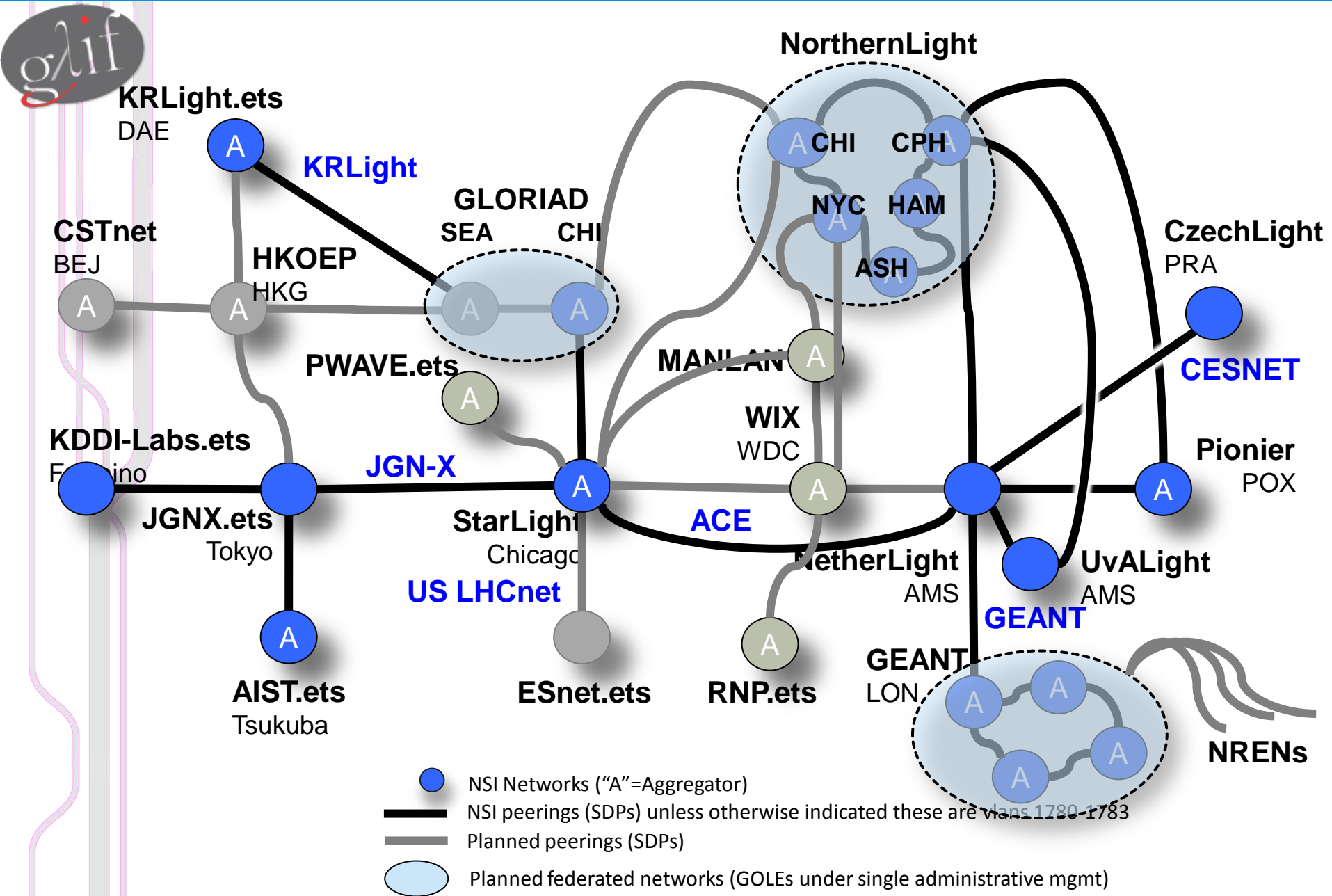
AUTOMATED GOLE + NSI

DEMO NETWORK 2012-10



 NSI Networks ("A"=Aggregator)
 NSI peerings (SDPs) unless otherwise indicated these are vlans 1780-1783

EVOLUTION: AUTOMATED GOLE + NSI 2013





- NSI v1 deployed in 2011
- NSI v2 deploying now
 - Demos at SC 2012 Nov 2012
- NSI v2 Network Engineering Workshop
 - TIP 2013 Jan 2013
- To Date:
 - 250,000 NSI Connections set up in 2012 over the Automated GOLE fabric



- The NSI architecture is proven
- The [v1] Software is reliable
 - 250,000 Circuits (!) (Jeroen vdH)
- v2 is happening...
- The ancillary services such as performance monitoring, topo distribution need definition and community support to bring forward
- **Time for [early] Production deployments**
 - If you are not participating in the trails, it is difficult to influence the evolution of the operational services
 - This is an opportunity for the entire R&E community to migrate in unison to a common globally deployed service
 - NORDUnet, NetherLight, StarLight are diving in...



- We want the AutoGOLE to continue – it's a unique proving ground!
- We want it to grow – to continue to be a rich facility for proving GLIF concepts and recommendations
- I would suggest the GLIF community renew the commitment to the facility:
 - Add additional links to the fabric (mesh path finding, robustness, new multi-path technologies,...)
 - Increase the existing capacity in order to allow experiments to actually gain insights at scale
 - Add additional GOLEs and Networks to the fabric



- Jerry Sobieski will be taking on important roles in GN3+ in 2013...
- Need new Automated GOLE Chair
- If you are interested, and like pain and frustration, but have a penchant for global domination, please let me know
- The silver lining: The best network hardware and software engineers in the world are part of the team you get to hang with...