

**WELCOME TO GLIF
Technical Working Group
Summer 2014 meeting**



**Queenstown, 30 September 2014
Hosted by REANNZ**

You Are Here

- Hosted by REANNZ
 - Thanks to REANNZ for hosting us
 - Thanks to all of you for participating
- Meetings (traditionally):
 - End of summer (annual lambda workshop)
 - Winters (Tech only)
- GLIF Tech is about
 - Taskforces – and the GLIF Tech meeting serves as the F2F gathering of task forces
 - Aligning with the community
 - Discussion of new ideas
 - Participation



Admin

- Your co-chairs:
 - Lars Fischer (NORDUnet)
 - Eric Boyd (Internet2)
 - Dale Finkleson (replaces Eric this time)
- Secretarial support:
 - Kevin Meynell (JANET)
- Mailing list:
 - < tech at glif . is >
 - + task force lists

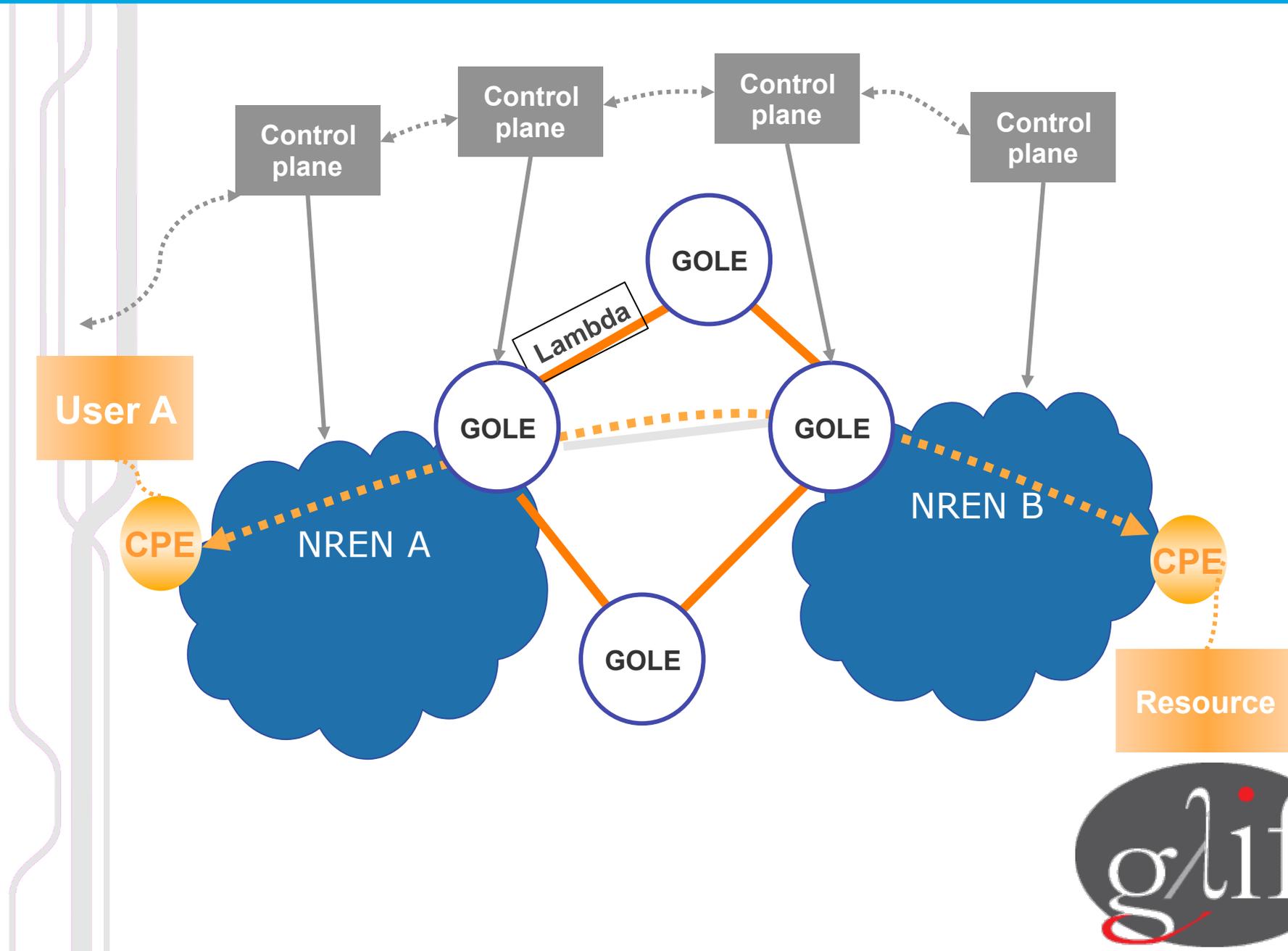


GLIF Tech taskforces

- Dynamic GOLE Services
 - Gerben van Malenstein
- Performance Verification Architectures
 - Steve Wolf, Jerry Sobieski
- Defining GLIF Architecture (Re-charter?)
 - Bill St. Arnaud, Inder Monga, Erik-Jan Bos
- NSI Implementation
 - Inder Monga, John MacAuley
- Inter-Domain SDN
 - Eric Boyd, Steven Wolf
- <http://www.glif.is/working-groups/tech/>



GOLE-centric networking



GLIF Resources

GLIF Infrastructures

- **Lambdas shared by GLIF participants**
- **GOLEs (GLIF Open Lightpath Exchanges)**
- **And of course: Hybrid, lightpath capable networks run by the GLIF Participants**

AMPATH - Miami
CERNLight - Geneva
CzechLight – Prague
GÉANT Open - London
HKOEP - Hong Kong
KRLight - Daejoen
MAN LAN - New York
MoscowLight - Moscow
NetherLight - Amsterdam
NGIX-East - Washington D.C.
NorthernLight - Copenhagen
Pacific Wave - Los Angeles
Pacific Wave - Seattle
Pacific Wave – Sunnyvale
SingLight - Singapore
SouthernLight - São Paulo
StarLight - Chicago
T-LEX - Tokyo
TaiwanLight - Taipei

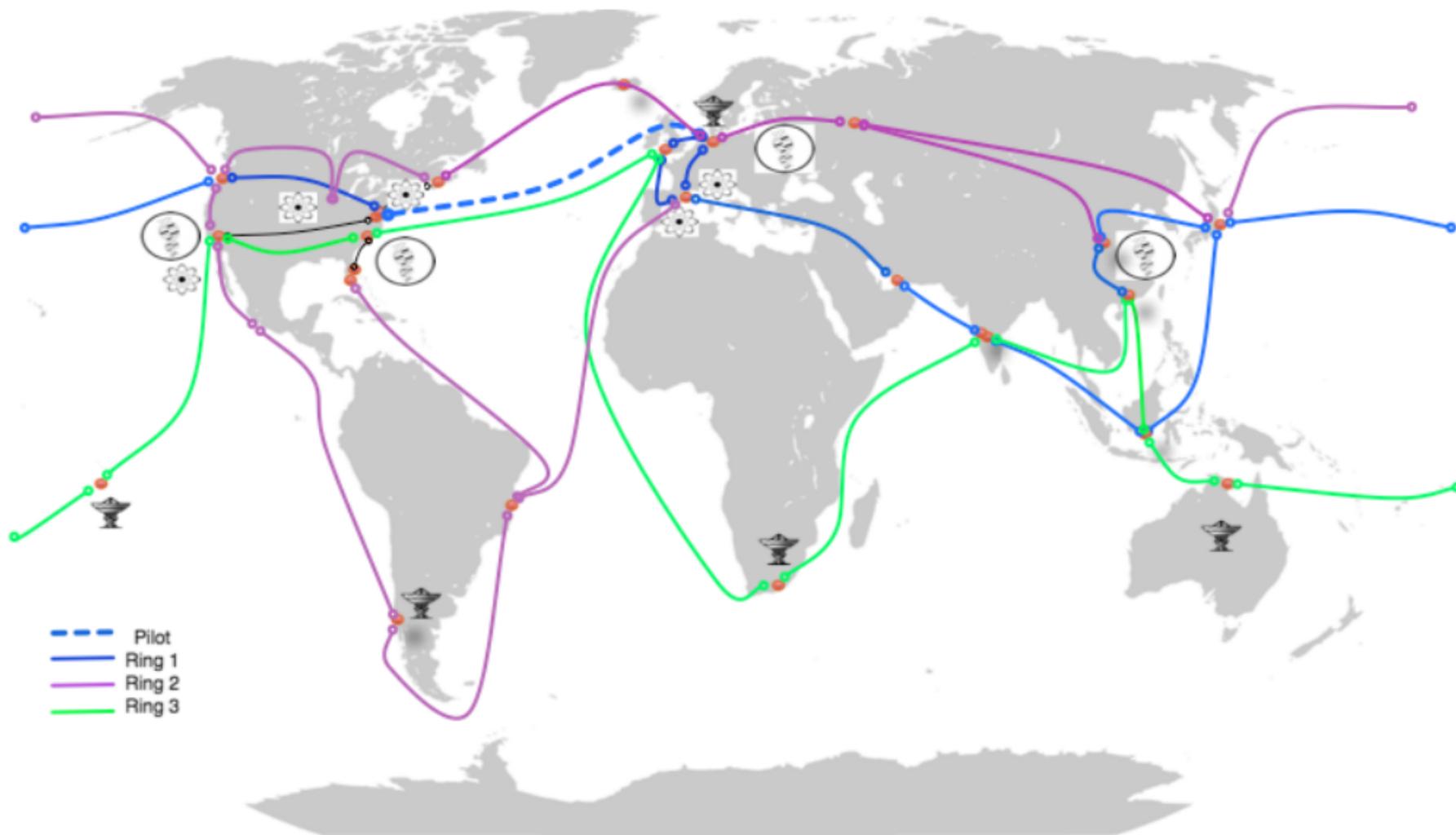


NSI Framework

- OGF NSI working group
- AutoGOLE
- NSI Imp WG
- Going Live



Global Network Architecture



- Pilot
- Ring 1
- Ring 2
- Ring 3



Are we done, yet?

- Consider
 - Transport – circuit capability ✓
 - Cross-connect – circuit capability ✓
 - Authentication ✓
 - Identity Management (✓)
 - Security (✓)
 - Topology Exchange (✓)
 - Link Policy management
 - Performance Verification for end-to-end
 - Service Level management
 - Virtualization
 - GOLE service architecture
 - Programmability (?)
- Much to do!



Agenda Day 1

Time	Subject
13:45 – 14:00	Welcome, admin – Lars Fischer
14.00 – 14.30	GLIF in Eastern Europe – Artur Binczewski, PSNC
14:30 – 15:00	Trans-Atlantic 100G performance results – Joe Mambretti, Northwestern University
15.00 – 15:30	Coffee
15:30 – 16:45	GOLE Updates
16:45 – 17:15	GLIF Future Direction – Lars Fischer et. al.
16:15 – 16:30	Performance Verification Task Force - Jerry Sobieski, NORDUnet



Agenda Day 2

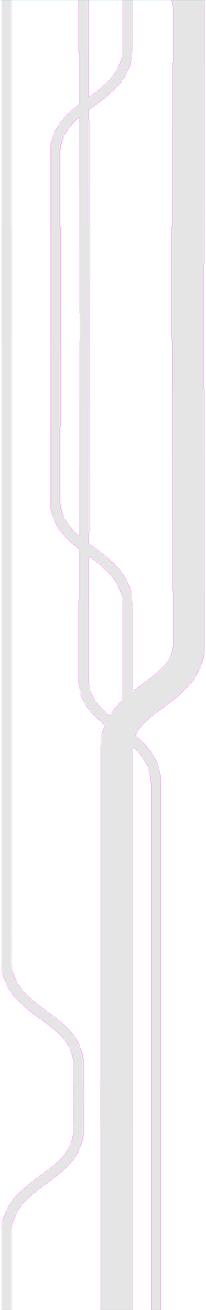
Time	Subject
9:00 – 9:30	AutoGOLE Taskforce - Chin Guok, ESnet
9:30 - 10:00	NSI Implementation Taskforce - Chin Guok, ESnet
10:00 – 10:30	GOLE Operator Requirements – Dale Finkelson, Internet2
10.30 – 11:00	Coffee
11:00 – 11:45	Network Virtualisation - Dale Finkelson, Internet2
11:45 – 12:00	GLIF, HPC and Long Distance Infiniband - Yves Poppe, A*STAR
12:00 – 12:30	Connectivity in the data centre - Kireeti Kompella, Juniper



Next GLIF TECH meetings

- 2015 Winter / Spring GLIF Tech?
 - Week of 23 March
 - Washington D.C., USA
 - Hosted by GENI Engineering Conference
- 15th Global Lambda Grid Workshop
 - (....)





Thank You

Lars Fischer

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<http://www.glif.is>