WELCOME TO GLIF
Technical Working Group
Winter 2015 meeting

Washington, D.C., 27-28 March 2015

You Are Here

- Hosted at GEC 22
  - Thanks to GENI and the GENI Engineering Conference
  - Back-to-back with OGF 43 / OGF NSI WG meeting
  - Thanks to all of you for participating

- Meetings (traditionally):
  - Fall (lambda workshop)
  - Spring (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)

- Secretarial support:
  - GLIF Secretariat by GÉANT Association
  - GLIF Tech secretary:Kevin Meynell

- Mailing list:
  - < tech at glif . is >
  - + task force lists

GLIF Tech taskforces

- Dynamic GOLE Services
  - Gerben van Malenstein
- NSI Implementation
  - John MacAuley
- GOLE Operations
  - Dale Finkelson, Gerben van Malenstein
- Inter-Domain SDN
  - Eric Boyd, Steven Wolf
- Performance Verification Architectures
  - Steve Wolf, Jerry Sobieski
- Defining GLIF Architecture (Re-charter?)
  - Bill St. Arnaud, Inder Monga, Erik-Jan Bos

- www.glif.is/working-groups/tech/
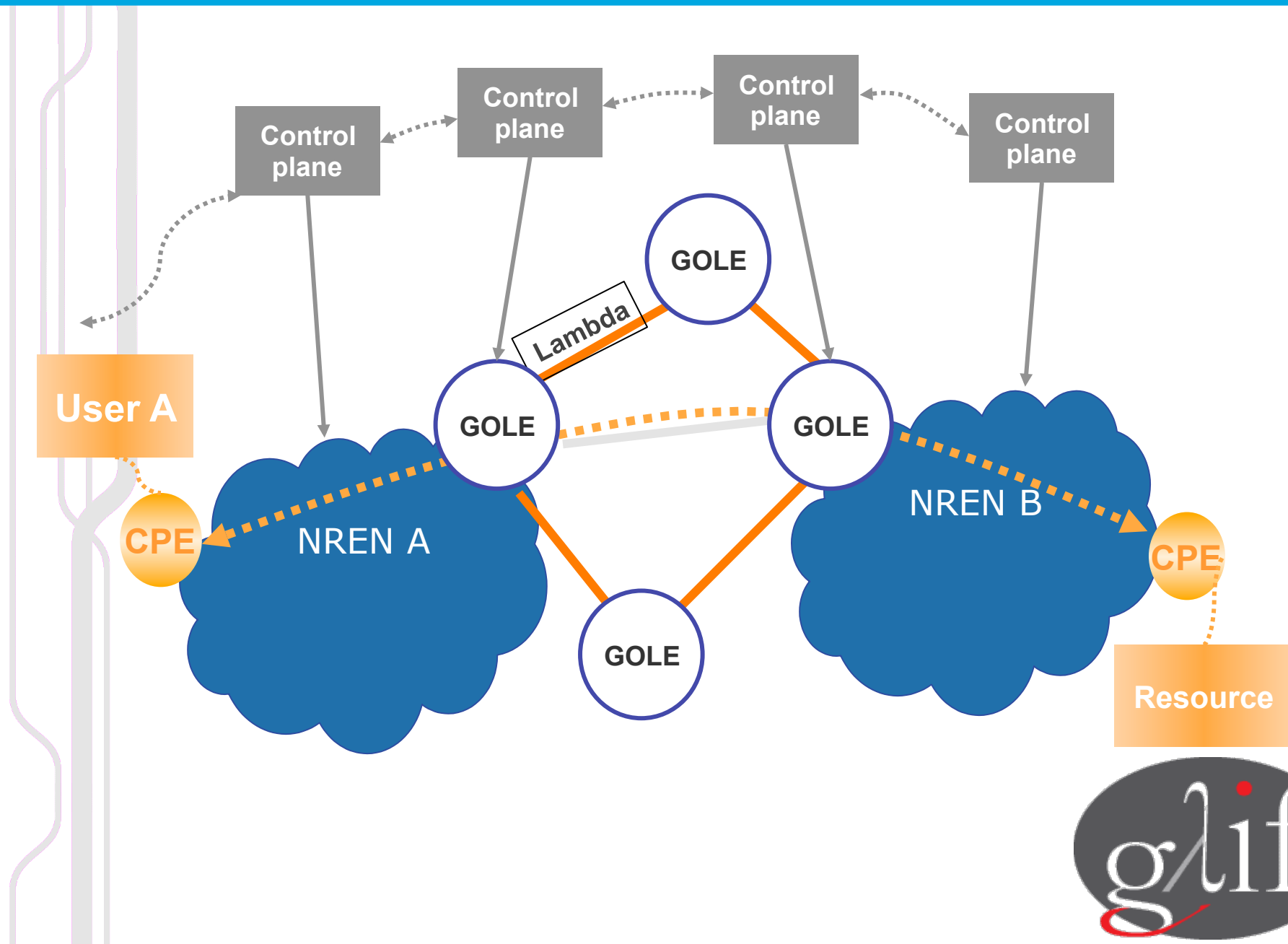
GLIF Resources

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
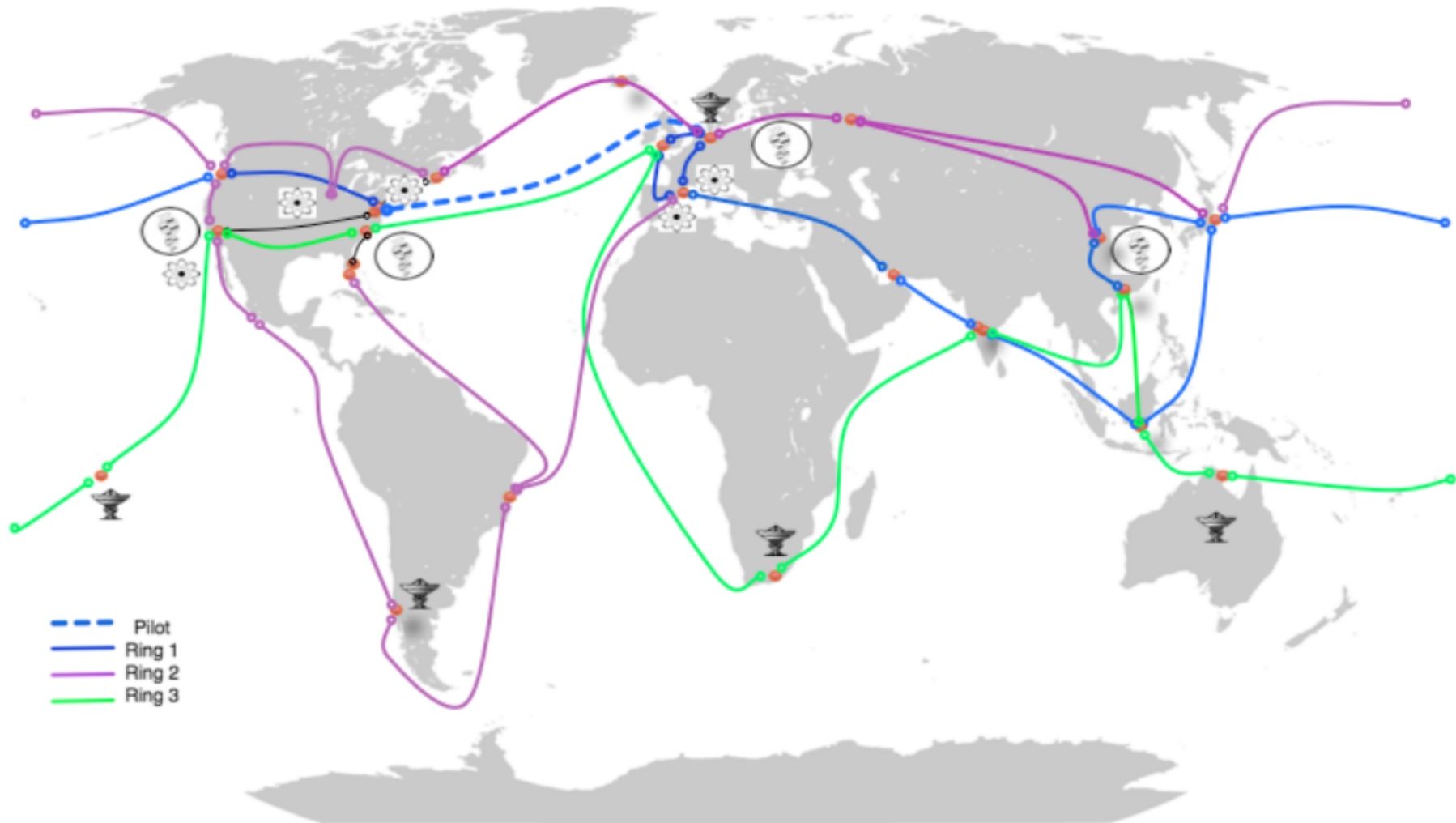**TaiwanLight - Taipei**

GOLE-centric networking

Control plane ⟷ Control plane ⟷ Control plane ⟷ Control plane

GOLE

Lambda

GOLE ⟷ GOLE

User A

CPE

NREN A

NREN B

CPE

GOLE

Resource

glif

NSI Framework

- OGF NSI working group
- AutoGOLE TF
- NSI Imp TF

Global Network Architecture

Pilot
Ring 1
Ring 2
Ring 3

We have work to do!

- Consider
  - Transport ✔
  - Cross-connect ✔
  - Topology Exchange (✔)
  - Performance Verification for end-to-end
  - Service Level management
  - Link Policy management
  - Identity Management
  - Virtualization
  - GOLE service architecture
  - Security

Plenty of fun still to be had

Agenda Day 1

Time	Subject
13:30 – 13:45	Welcome, admin – *Lars Fischer & Eric Boyd*
13.45 – 14.15	GENI SDN Exchanges - *Heidi Picher Dempsey, BBN Technologies*
14:30 – 15:00	NSI extensions to NML - *John MacAuley, ESnet*
15.00 – 15:30	**Coffee**
15:30 – 17:00	GOLE Operators taskforce update & Open Exchanges discussion - *Dale Finkelson, Internet2*

Agenda Day 2

Time	Subject
9:00 – 10:00	Inter-domain SDN - *Eric Boyd, Internet2*
10:00 – 10:15	StarLight SDX - Joe Mambretti
10:15 – 10:30	SDX Taskforce discussion / creation –, Ronald van der Pol
10.30 – 11:00	**Coffee**
11:00 – 12:00	AutoGOLE Task Force update - *Gerben van Malenstein, SURFnet*
12:00 – 12:30	Future of Performance Verification taskforce *Jerry Sobieski, NORDUnet*
12:30 – 13:00	Wrap-up, next steps – Eric Boyd, Lars Fischer
13.00 – 13:30	**Lunch**

Next GLIF TECH meetings

- 15th Global Lambda Grid Workshop
  - Prague, Czech Republic
  - 28-30 September 2015
  - Full GLIF meeting, incl. TECH WG sessions
  - Possible OGF NSI WG attached

- 2016 Spring GLIF Tech?
  - Timing?
  - Where?

Thank You

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http://www.glif.is