

# GLIF, the Global Lambda Integrated Facility



## GLIF Overview

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Seattle, 1 October 2007



## What is GLIF?

- GLIF is an international virtual organisation that promotes the paradigm of lambda networking
- The activities of GLIF are two-fold:
  - GLIF participants jointly make lambdas available as an integrated global facility for use in data-intensive research
  - GLIF brings together leading networking engineers worldwide, who collaborate to bring the technology forward and pioneer new applications



## GLIF participants

- GLIF is open to any organisation that shares the GLIF vision and is willing and able to make resources (e.g., equipment and lambdas) available on an agreed basis when they are not required for its own needs.
- GLIF is also open to organisations whose experts contribute actively to the technical work in the GLIF working groups.



# Currently almost 50 GLIF participants

- AARNet
- AMPATH
- ANL/MCS
- Calit2
- CANARIE
- CENIC
- CERN
- CERNET
- CESNET
- CPqD
- DFN
- FAST
- Fermilab
- GLORIAD
- HEAnet
- i2CAT
- iCAIR
- IEEAF
- Indiana Univ.
- Internet2
- JGN-II
- JANET(UK)
- KRLight
- MIT
- MCNC
- MAX
- NLR
- Northwestern
- NSF
- NetherLight
- NORDUnet
- Nortel
- PNWGP
- RNP
- SARA
- StarLight
- SURA
- TeraGrid
- TERENA
- TransLight
- TWAREN
- Univ. Amsterdam
- UCL
- UIC
- WIDE
- Univ. Maryland
- Univ. Washington
- UltraLight



## New participant?

- Send us your logo



# GLIF sponsors

- GLIF secretariat is provided by TERENA and funded by voluntary contributions from GLIF sponsors





# Thank you!





# GLIF resources

## GLIF infrastructure:

- lamdas shared by GLIF participants
- GOLEs (GLIF Open Lightpath Exchanges)

## Current GOLEs:

- AMPATH
- CERN
- CzechLight
- HKOEP
- KRLight
- MAN LAN
- MoscowLight
- NetherLight
- Pacific Wave
- SouthernLight
- StarLight
- T-LEX
- TaiwanLight
- UKLight



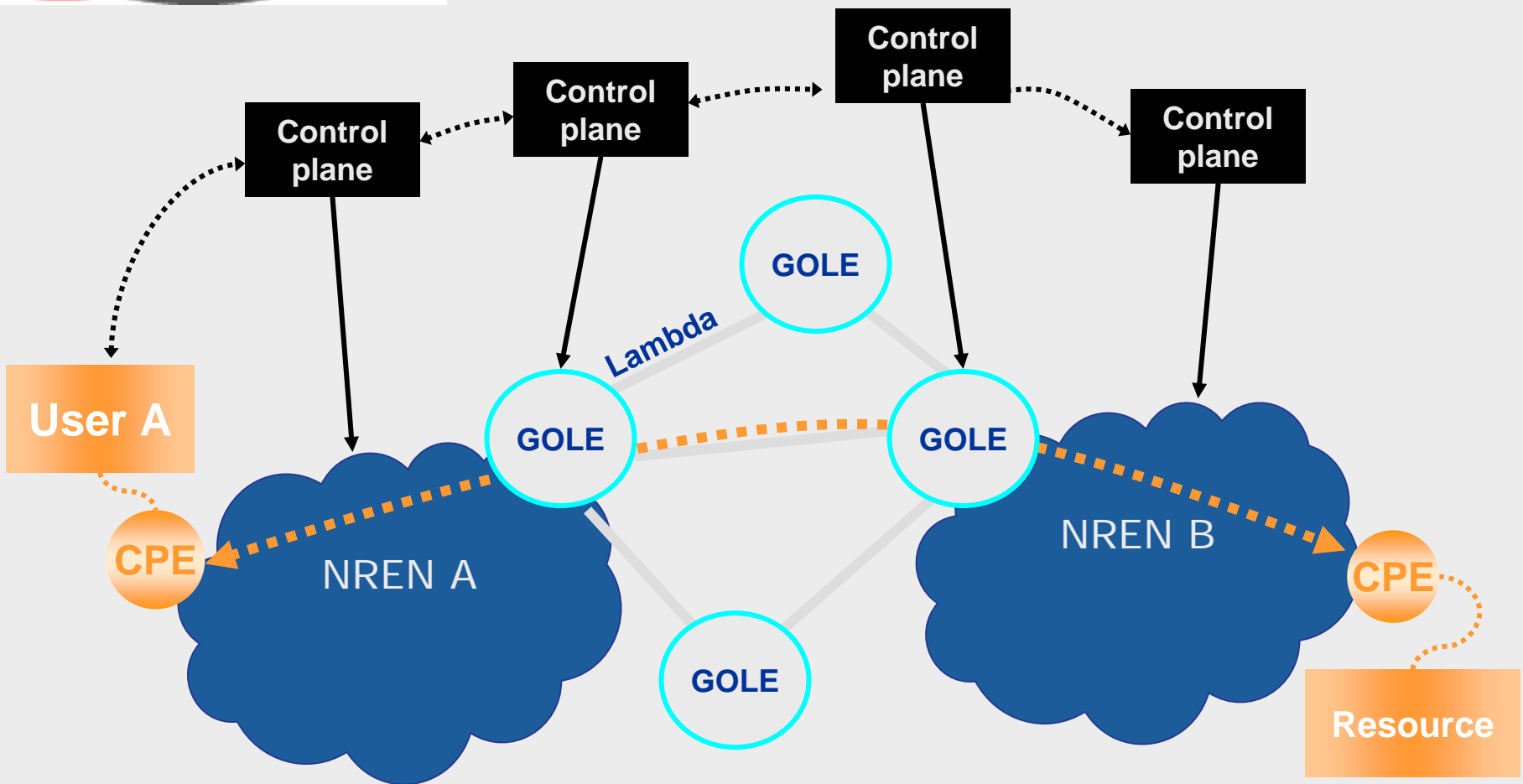


# GLIF working groups

- **WG Tech and Control**  
Erik-Jan Bos and Gigi Karmous-Edwards
  - GNI Specifications Task Force
  - SLA Task Force
  - Global Identifier Task Force
- **WG Research & Applications**  
Maxine Brown and Larry Smarr
- **WG Governance**  
Kees Neggers

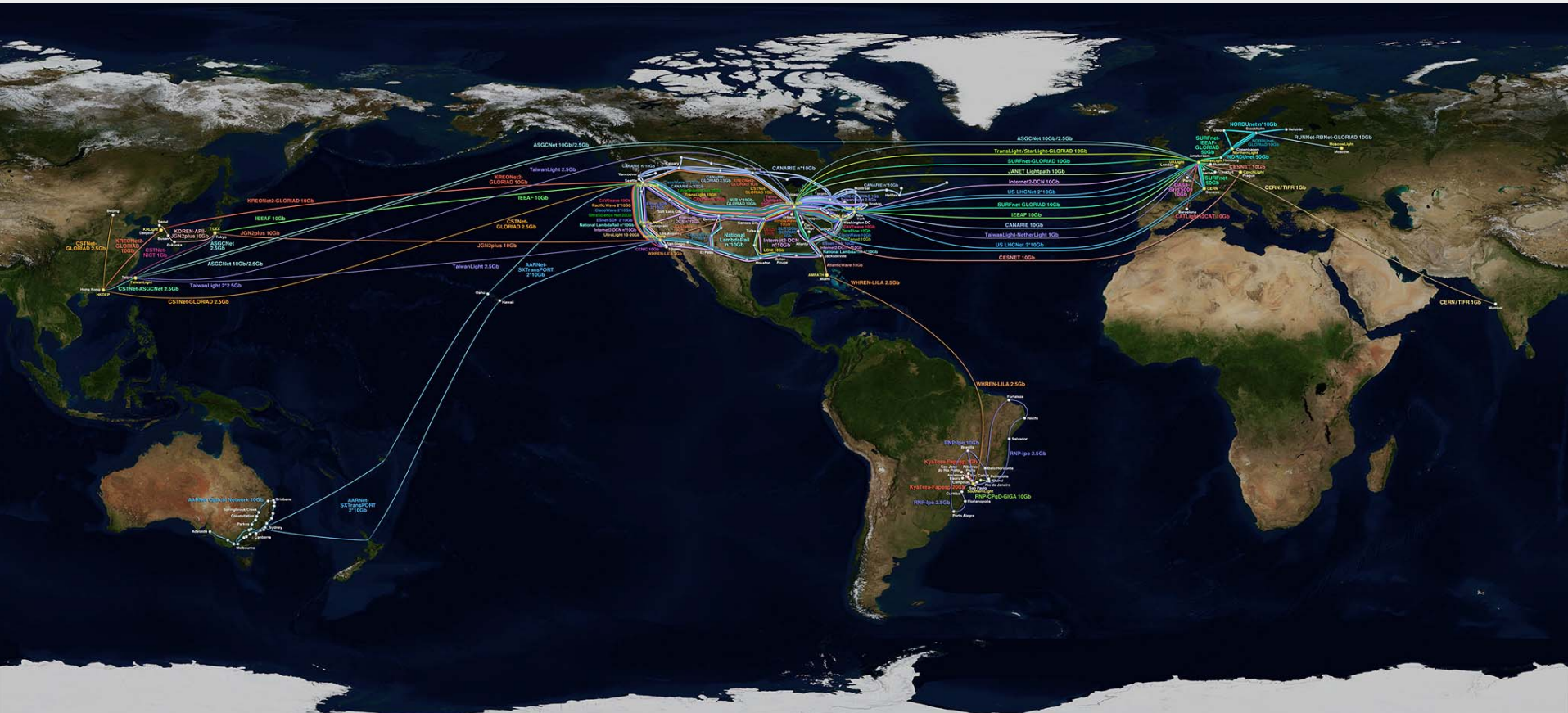


# The GLIF approach to lambda networking





# GLIF Map



GLIF Map 2008: Global Lambda Integrated Facility Visualization by Robert Patterson, NCSA, University of Illinois at Urbana-Champaign Data Compilation by Maxine D. Brown, University of Illinois at Chicago Earth Texture, visibleearth.nasa.gov





**Enjoy the meeting!**