GLIF Universal Service Interface GUSI
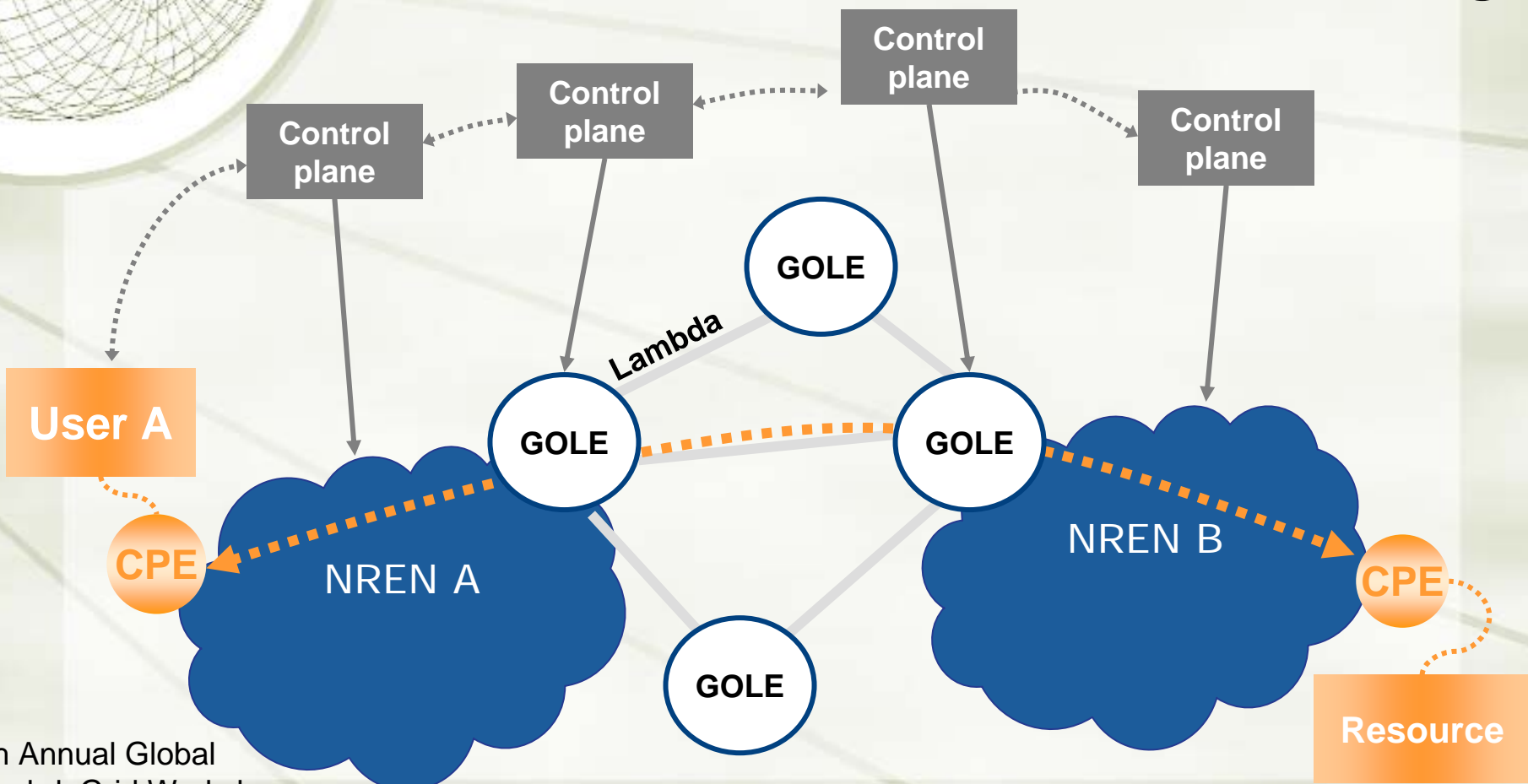## A GLIF Project

Erik-Jan Bos and Gigi Karmous-Edwards

The GLIF approach to lambda networking

From Kees Neggers

New GLIF Open Source Project
GLIF Universal Service Interface GUSI

✦ This is a project that was initiated during the GLIF 2008 Winter meeting by the community based on the following steps:

1. Agreed to a global control architecture - high level
2. Created a GNI task force lead by Evangelos Chaniotakas and new mailing list
3. Collected existing "Network Control" APIs based on existing projects and documented in a GLIF draft
    - ✦ IDC from DICE, Harmony from Phosphorous, GNS-WSI-3 from G-lambda, etc. in a comparative document - had several conference calls
4. Created strawman GNI (Evangelos will discuss further) with initial calls - Baby steps
5. Created an open source software repository (SVN) for initial GUSI software - Mathieu Lemay
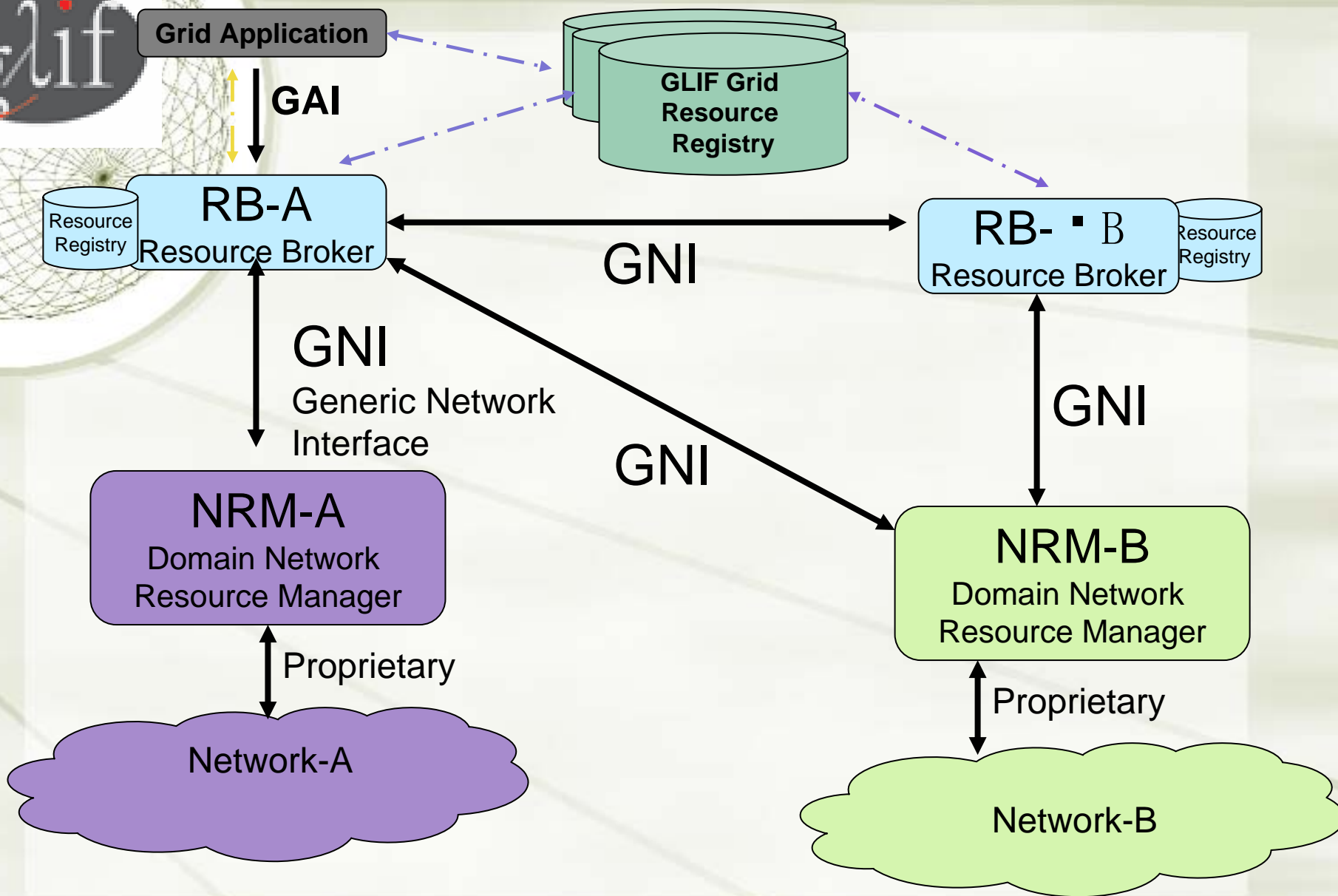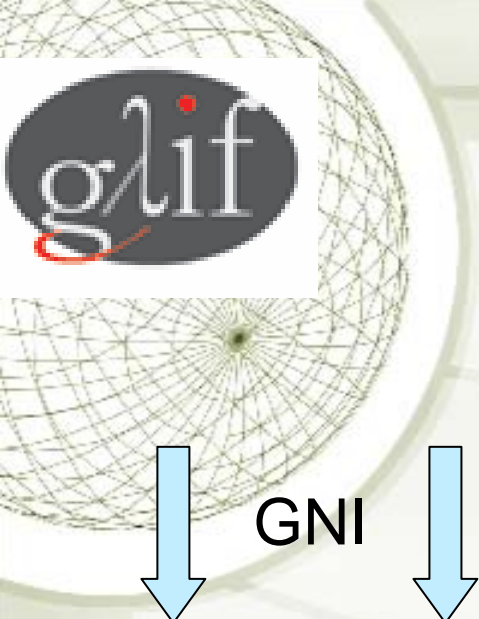
New GLIF Open Source Project
GLIF Universal Service Interface GUSI

- ✦ The community made some progress (thanks to lots of hard work from task team), however, we need to speed it up! - Rely on existing knowledge and experience from this community
  - ✦ Proposal: New GLIF funded open source development project
  - ✦ How to contribute to this effort?
    - ✦ contribute developers with real time commitments to this project - not just as an extra volunteer basis
    - ✦ Contribute funds to pay for time of developers
    - ✦ Contribute to specification and architecture
  - ✦ Proposed Project Coordinators: Erik-Jan And Gigi
  - ✦ Secretariat Support: TERENA
  - ✦ Steering Committee: Representatives of existing NRMs
  - ✦ We will develop a project plan with timelines and milestones, demonstrations, etc

GNI will have both "Tree" and "Chain" Behaviors

Grid Application

GAI

GLIF Grid Resource Registry

Resource Registry

RB-A
Resource Broker

GNI

RB-·β
Resource Broker

Resource Registry

GNI
Generic Network Interface

GNI

GNI

NRM-A
Domain Network Resource Manager

Proprietary

Network-A

NRM-B
Domain Network Resource Manager

Proprietary

Network-B

GLIF Universal Service Interface (GUSI)

GNI

GNI

GNI translation	GNI translation	GNI translation
Native calls	Native calls	Native calls

Open Source GUSI (Translator)

IDC adapter | GNS-WSI-3 | Harmony | DRAC

...

| IDC | GNS-WSI-3 | Harmony | | IDC | GNS-WSI-3 | Harmony | DRAC |