

High Performance Digital Media Network (HPDMnet):  
**Dynamically Provisioned** Inter-Domain International  
Service for **High Performance Digital Media and**  
**Other Data Intensive Applications**

**Joe Mambretti**  
**and the HPDMnet Consortium**  
**12<sup>th</sup> Annual Lambda Grid Workshop**  
**Chicago, Illinois**  
**October 11-12, 2012**



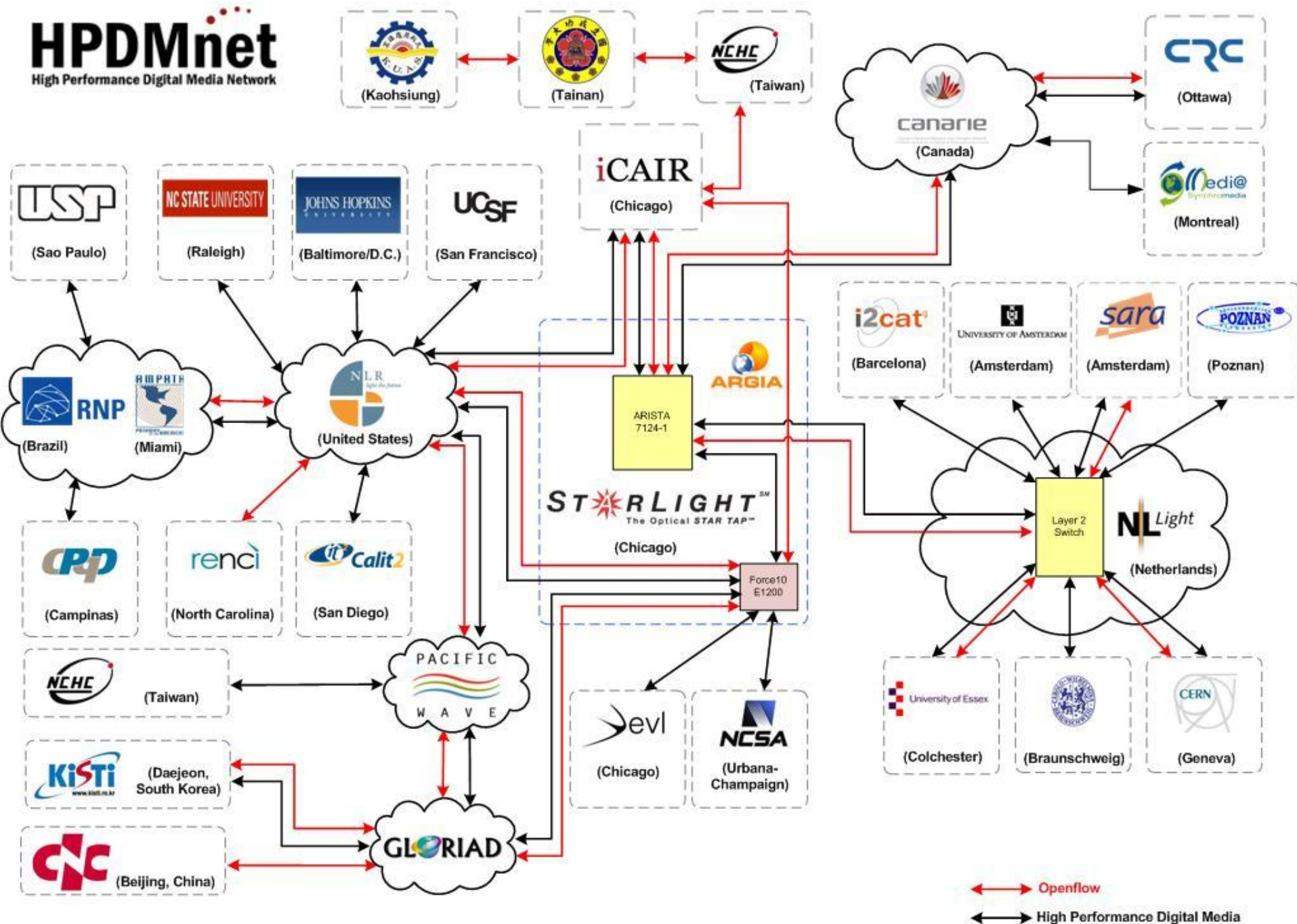
- **Several Years Ago, An International Consortium of Research Centers Established a Cooperative Partnership To Address Key Challenges and Opportunities Related to Using Dynamically Provisioned Lightpaths for High Performance Digital Media (HPDM) and Other Data Intensive Applications**
- **Multiple Sites Require Controlled, Deterministic High Performance/High Volume/High Definition Digital Media Streaming Simultaneously Among All Locations (Point-To-Multipoint, Multipoint-To-Point, Multi-Point to Multi-Point)**
- **HPDMnet Is:**
  - A Persistence Network Research Testbed**
  - A Set of Prototype Services**
  - Capability for Experimental Digital Media Content**

## **HPDMnet Consist 5 Working Groups Today:**

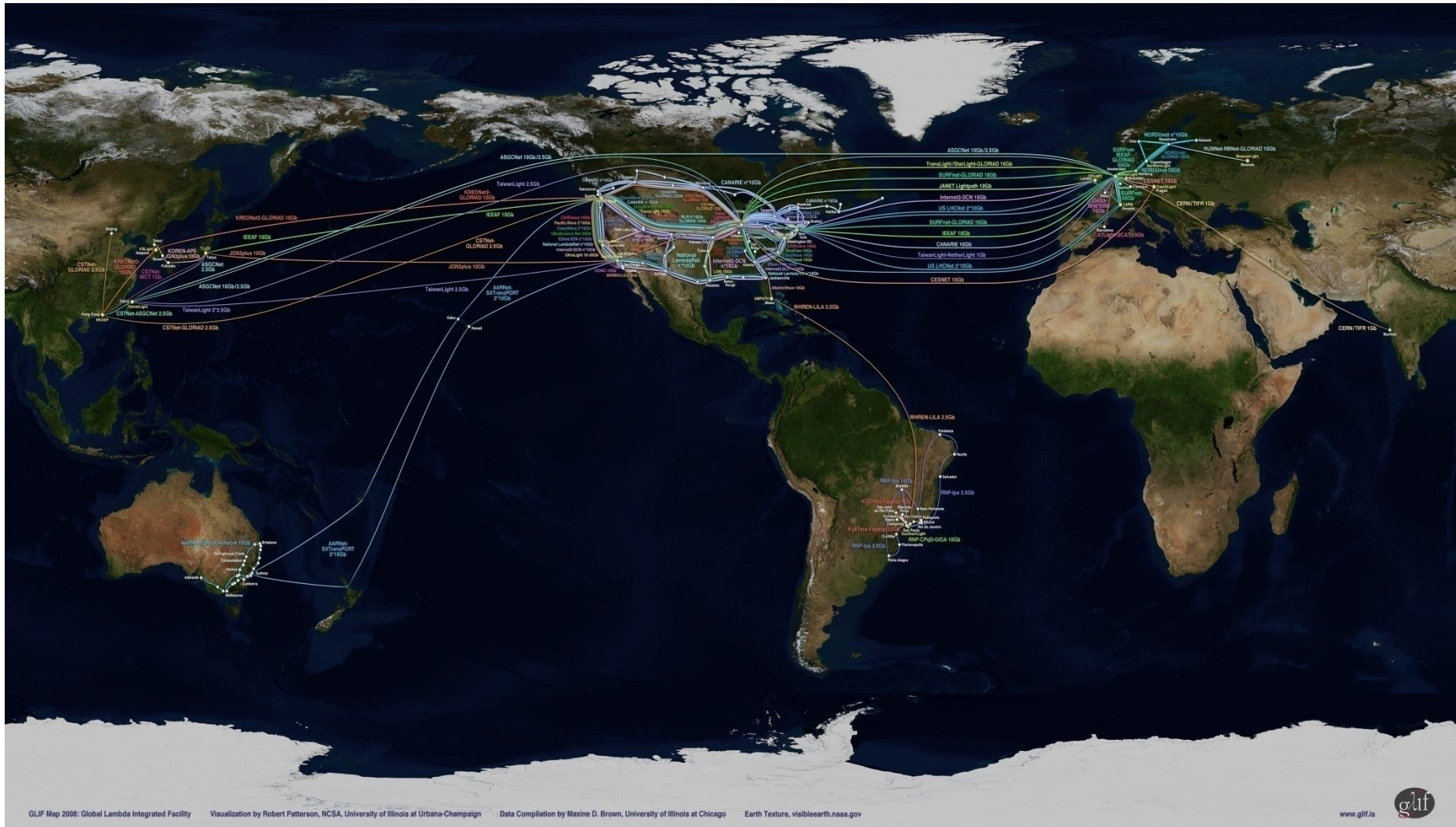
- **Infrastructure Working Group**  
Design and Implement HPDMnet Persistence Network Research Infrastructure and Network Connectivity
- **Programmable Network Working Group**  
Plan and Design HPDMnet Programmable Network Capabilities
- **Openflow Experiment Working Group**  
Design and Implement Collaborative Openflow Research and Development Experiments(i.e: GLIF 2012 NE02, US07)
- **High Definition Digital Media Experiment Working Group**  
Design and Support 4K/8K Digital Media Collaborative Experiments( i.e: Participates GLIF 2012 CZ02)
- **Demonstration And Out Reach Working Group**  
Responsible for Demonstrations and New Member Out Reach

# HPDMnet

High Performance Digital Media Network







## GLIF World-Scale Lambda-based Laboratory for Application and Middleware Development