

Networking

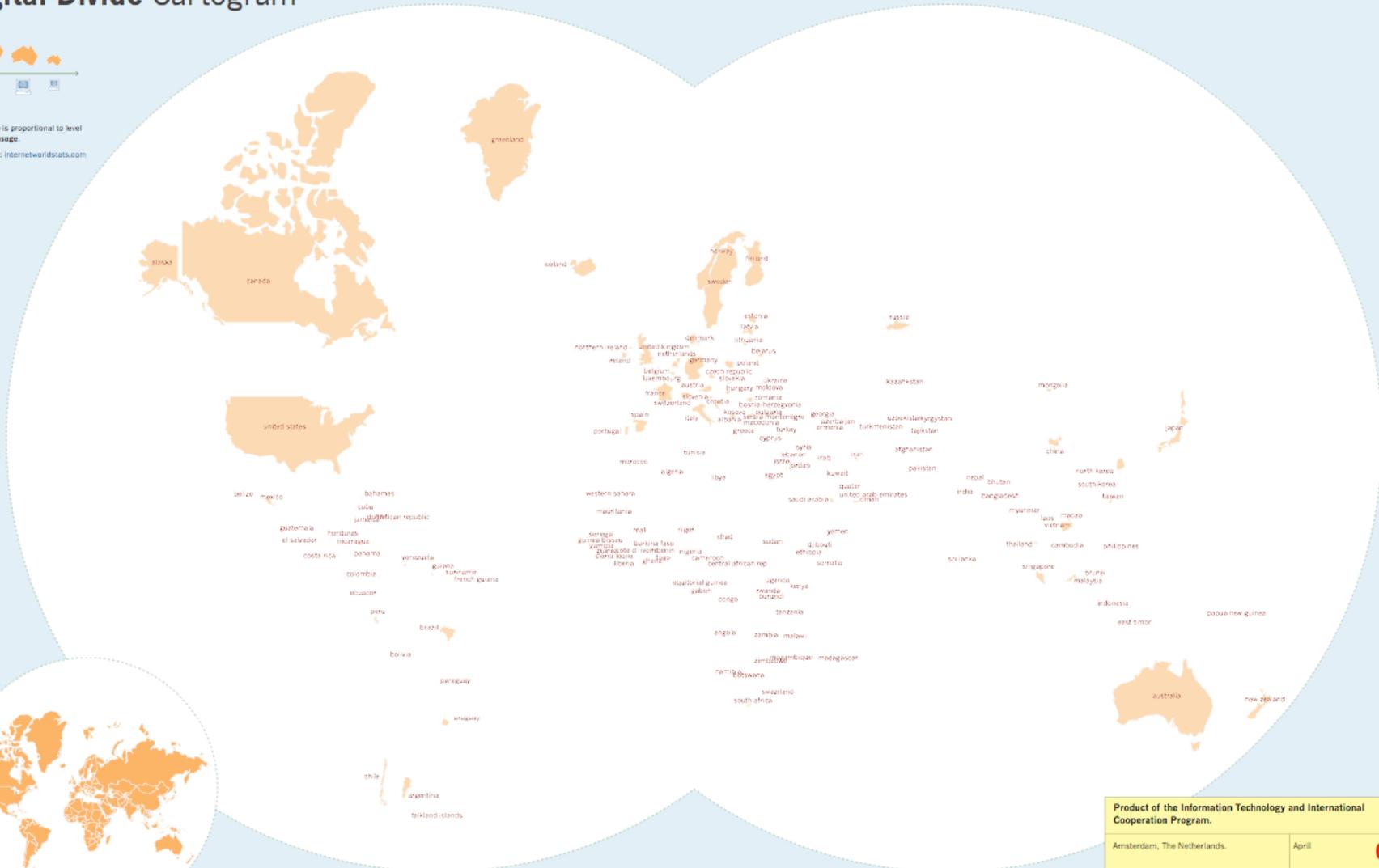
D. Petravick

March 5, 2008

Digital Divide Cartogram



Country size is proportional to level of Internet usage.
 Data source: Internetworldstats.com

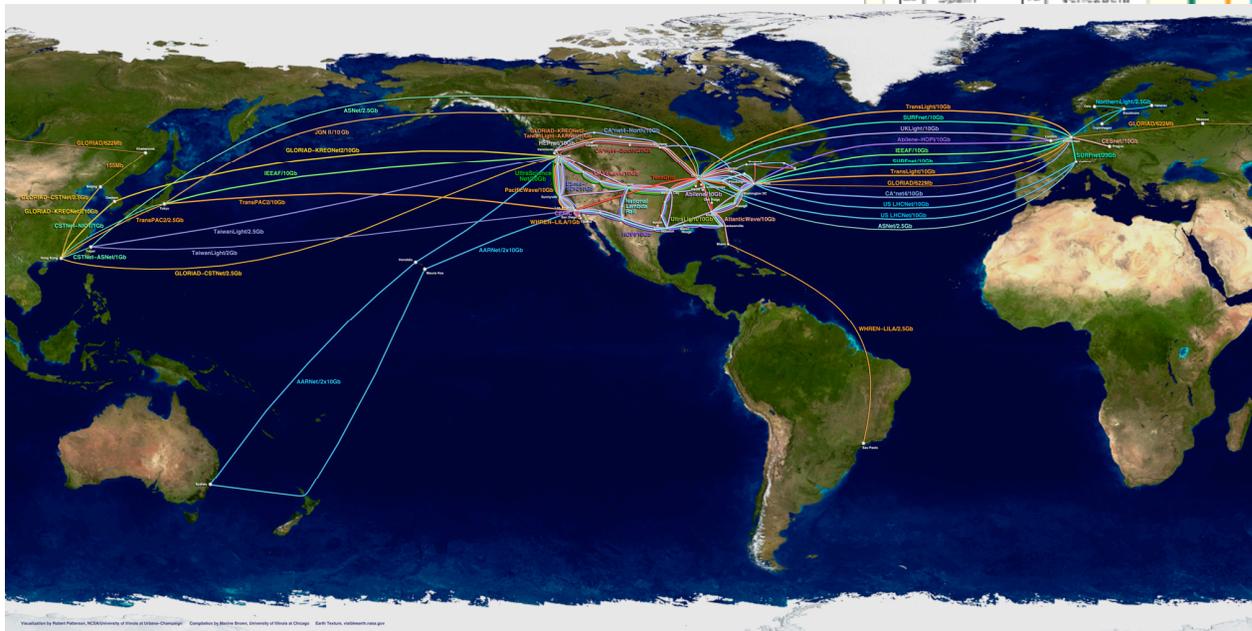
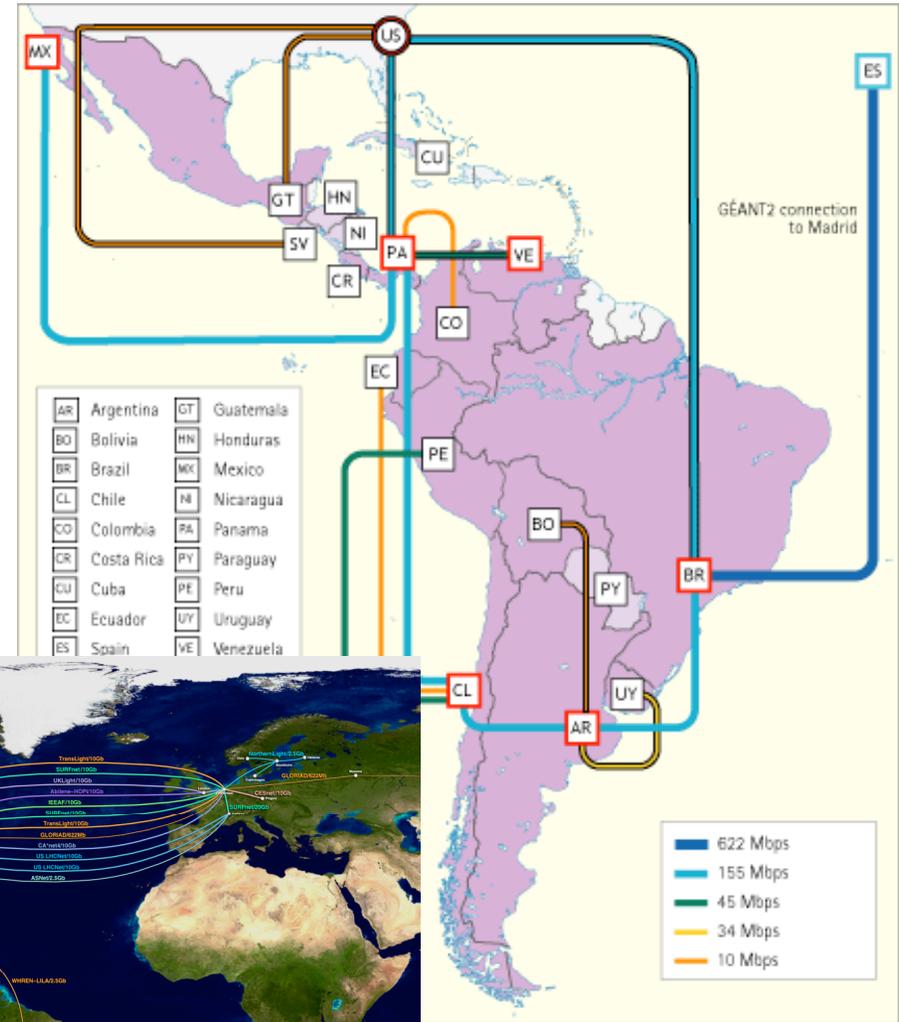


World Map (Mercator) - original view

Product of the Information Technology and International Cooperation Program.

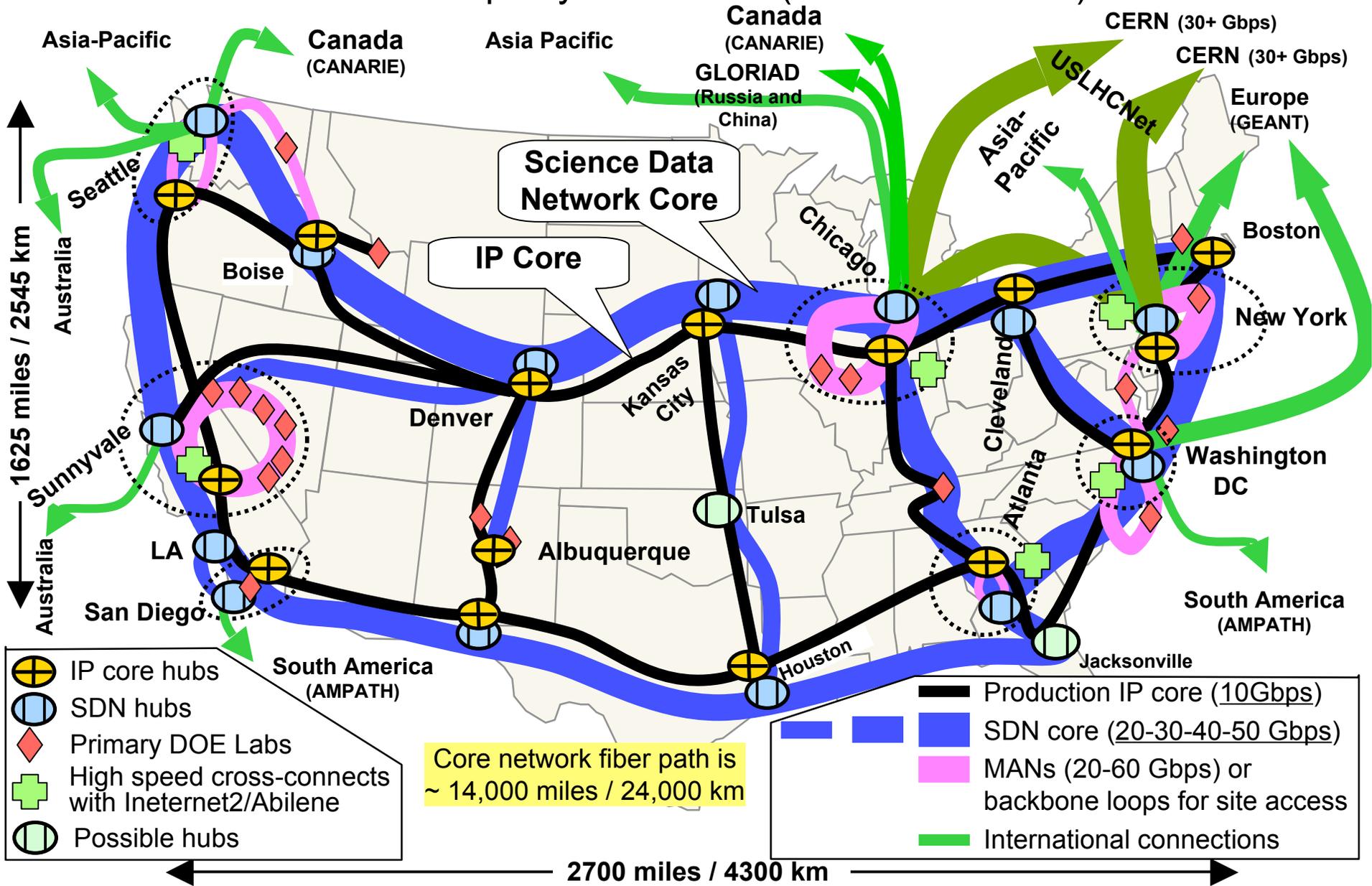
Amsterdam, The Netherlands.	April	05
Analysis: Koen Martens, sonologic.nl. Design: Marika van Dijk, andreamedia.nl.		
© 2005 Govcom.org		

Divide: GLIF, Redclara

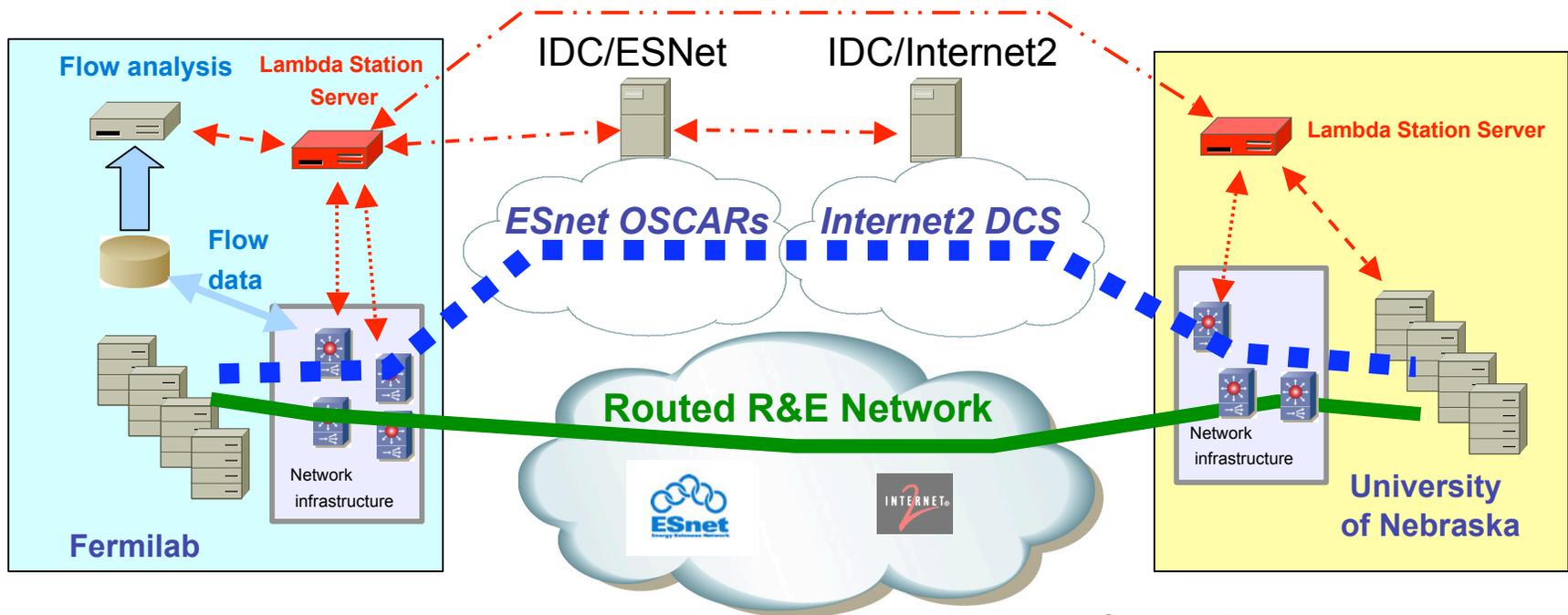


ESnet4

Core networks 50-60 Gbps by 2009-2010 (10Gb/s circuits),
500-600 Gbps by 2011-2012 (100 Gb/s circuits)



Use case 2: Setup alternate traffic path between FNAL and UNL via Dynamic Circuit based on flow analysis.



- Default network path
- ■ ■ ■ ■ A path across DCN

Control plane

- - - - - > Circuit call setup & teardown
- > LAN reconfiguration to use circuit
- . - . - > Inter-Lambda Station coordination
- - - - - > FtWatch request/response

Overall Network Usage Follows the Patterns of the Very Large Users



FNAL Outbound Traffic

