

Networking

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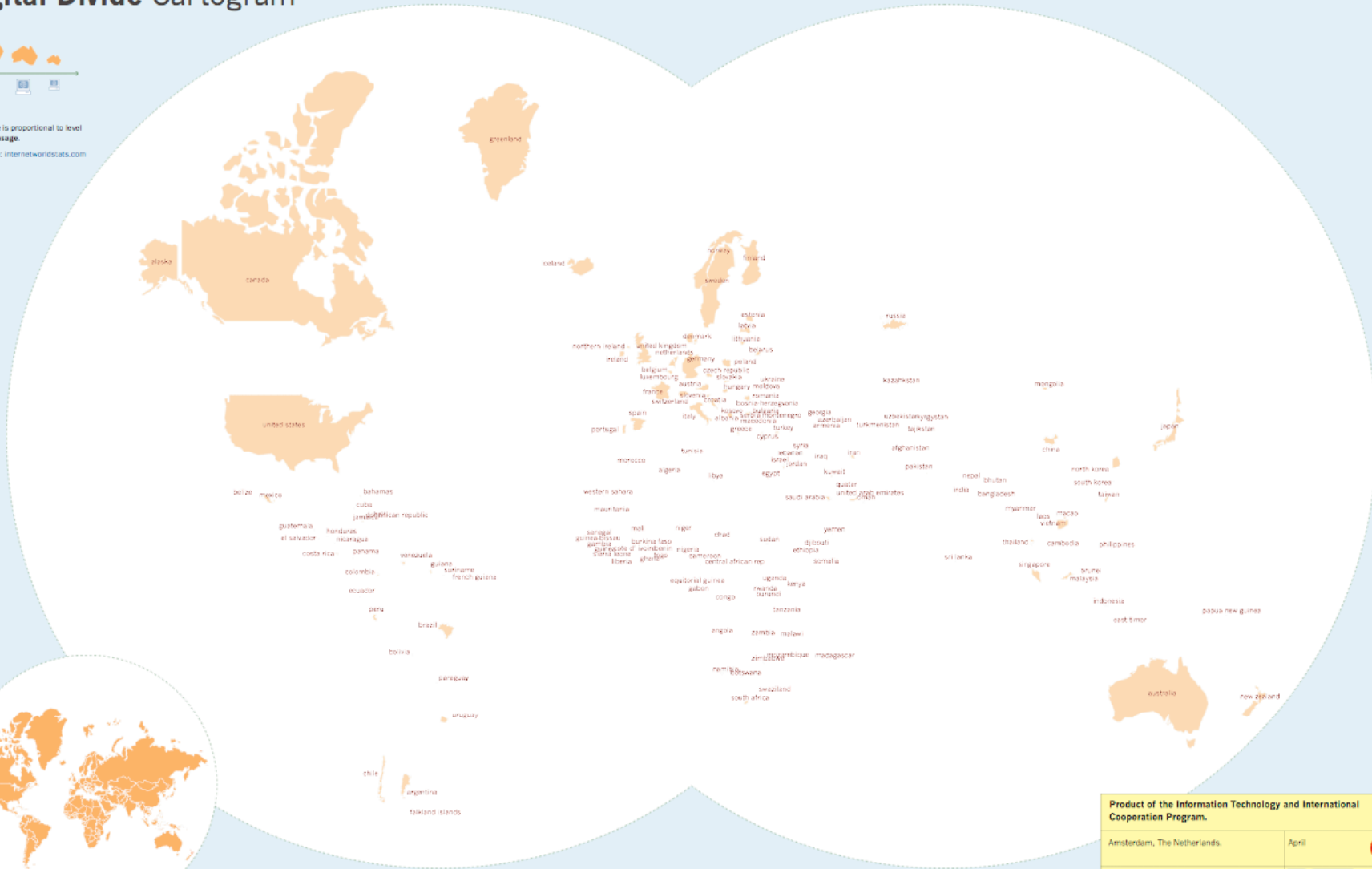
Digital Divide Cartogram



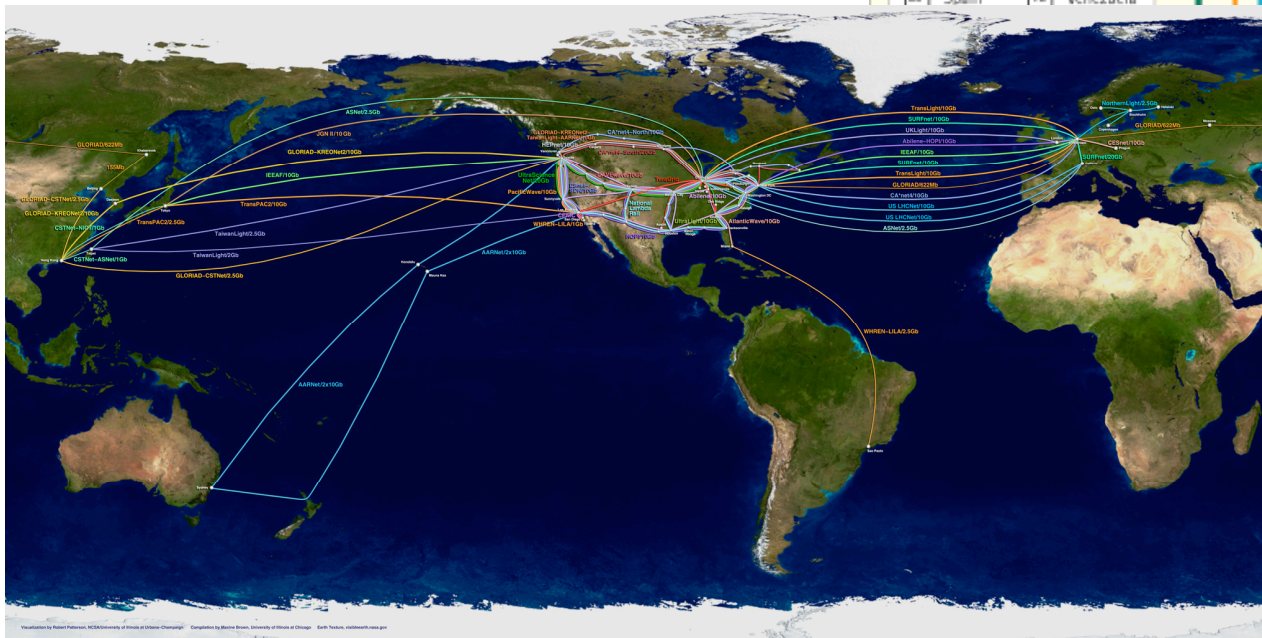
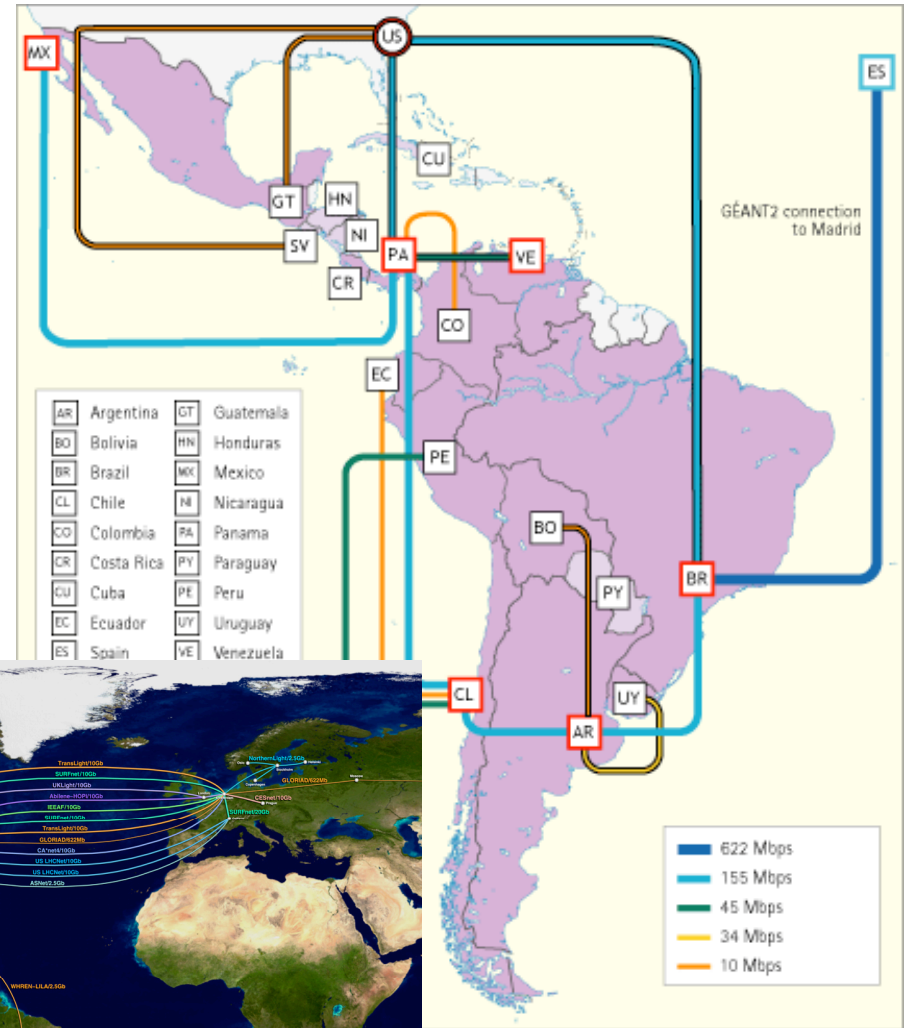
Country size is proportional to level of Internet usage.
Data source: internetworldstats.com



World Map (Mercator) - original view

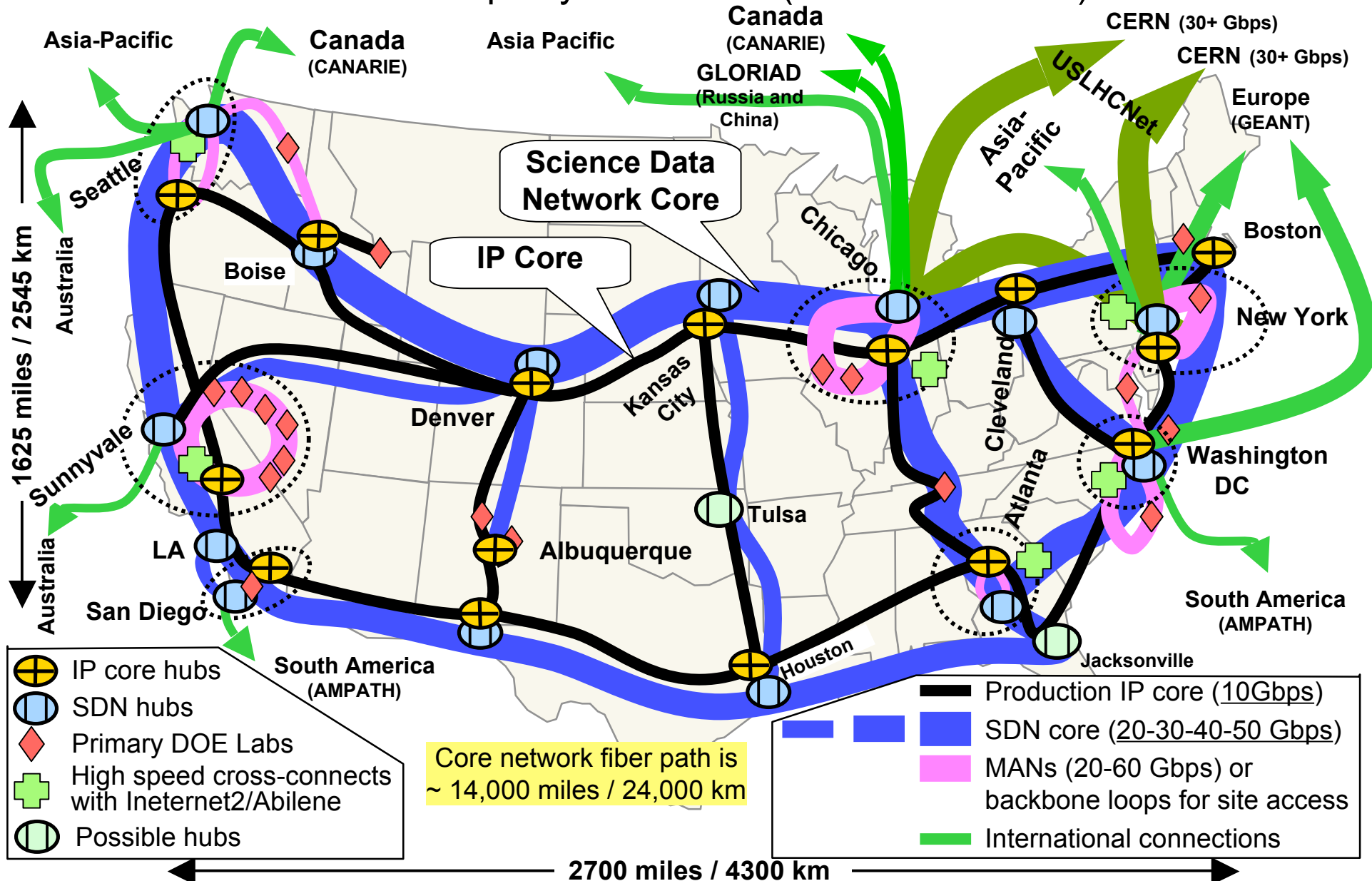


Divide:
GLIF,
Redclara

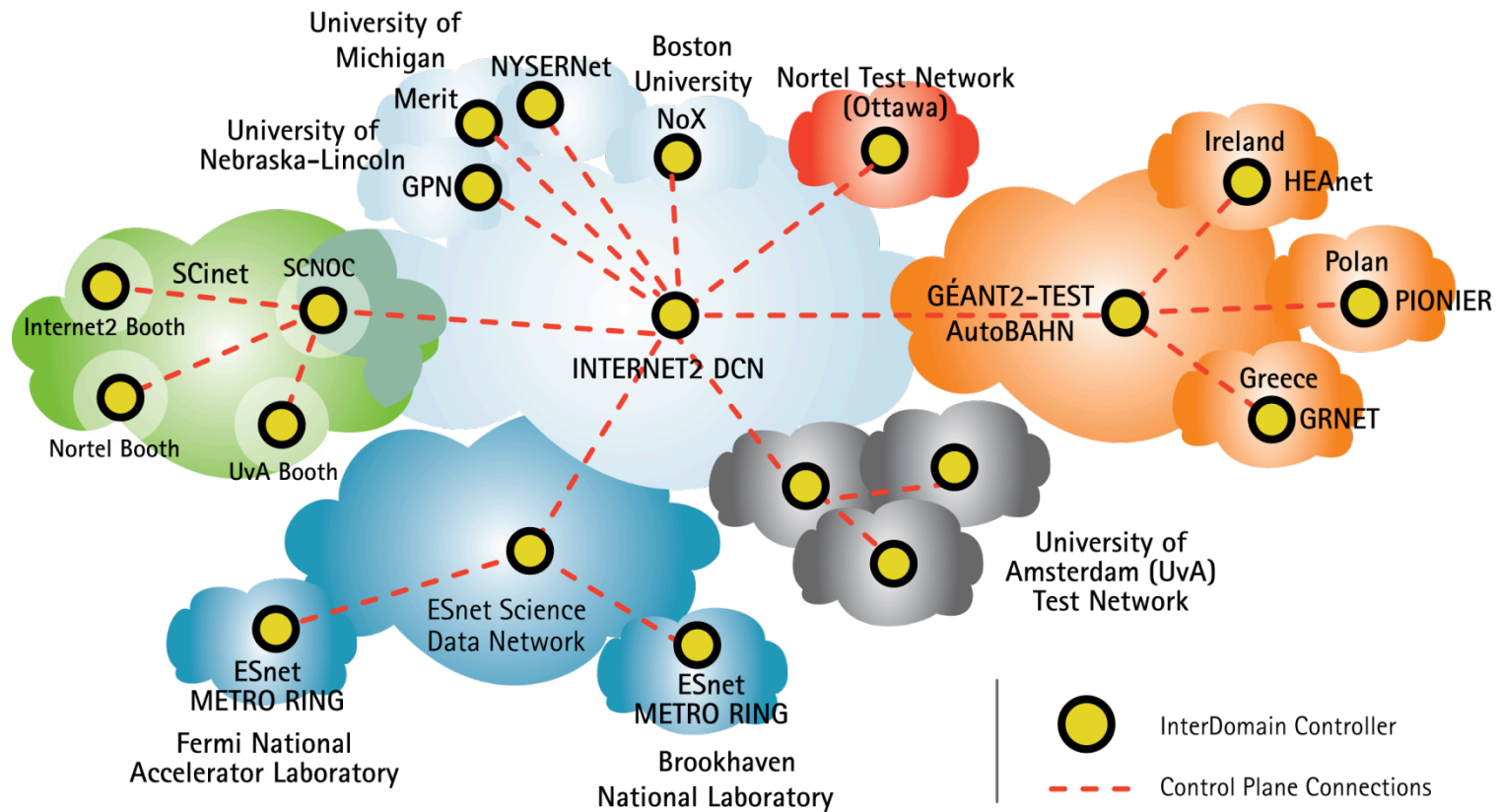


ESnet4

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

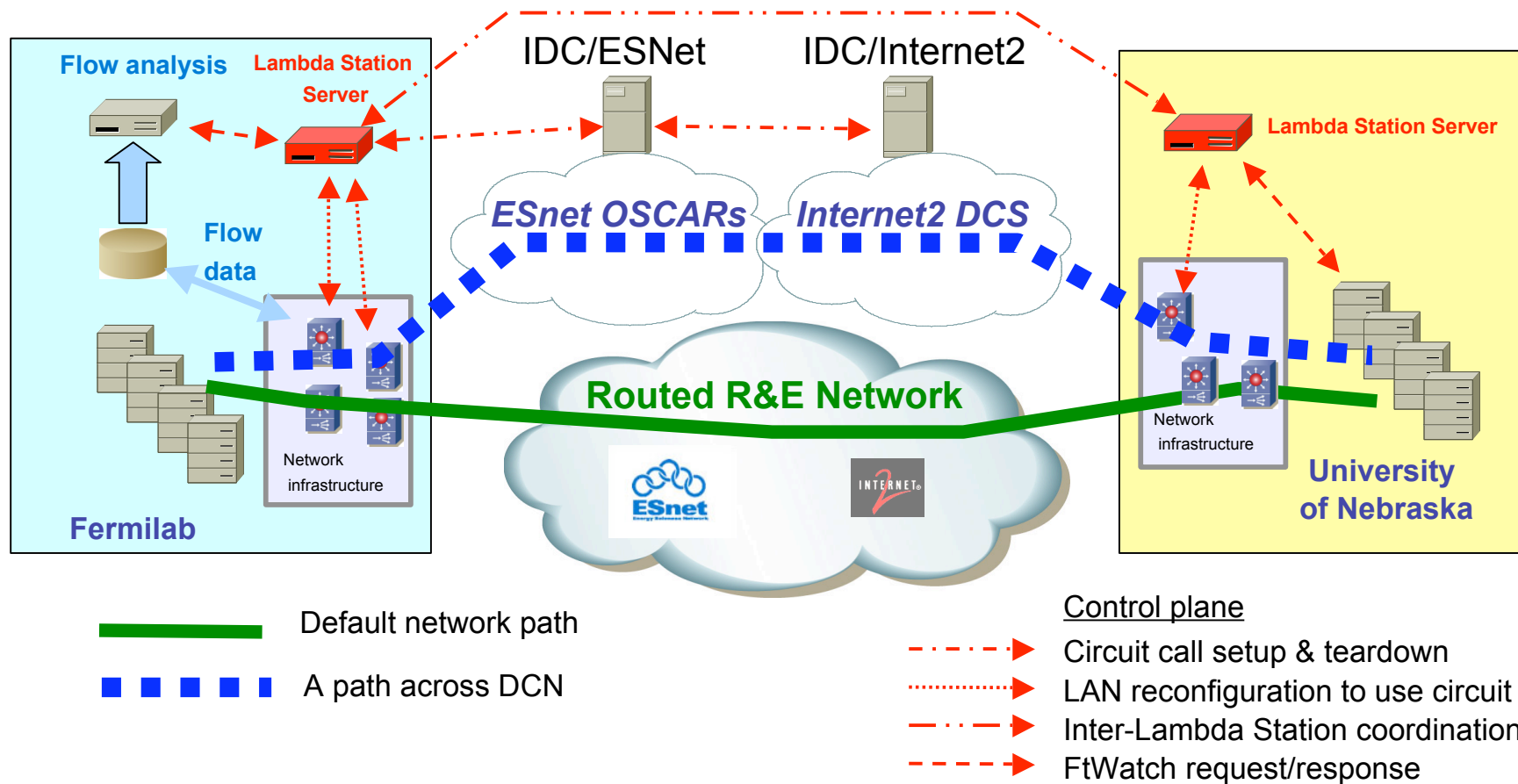


Interdomain Dynamic Circuits



WeatherMap -- <http://packrat.internet2.edu/~zurawski/SC2007/DCN/UNL.html>

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



Overall Network Usage Follows the Patterns of the Very Large Users



FNAL Outbound Traffic

