

NORDUnet IceLink

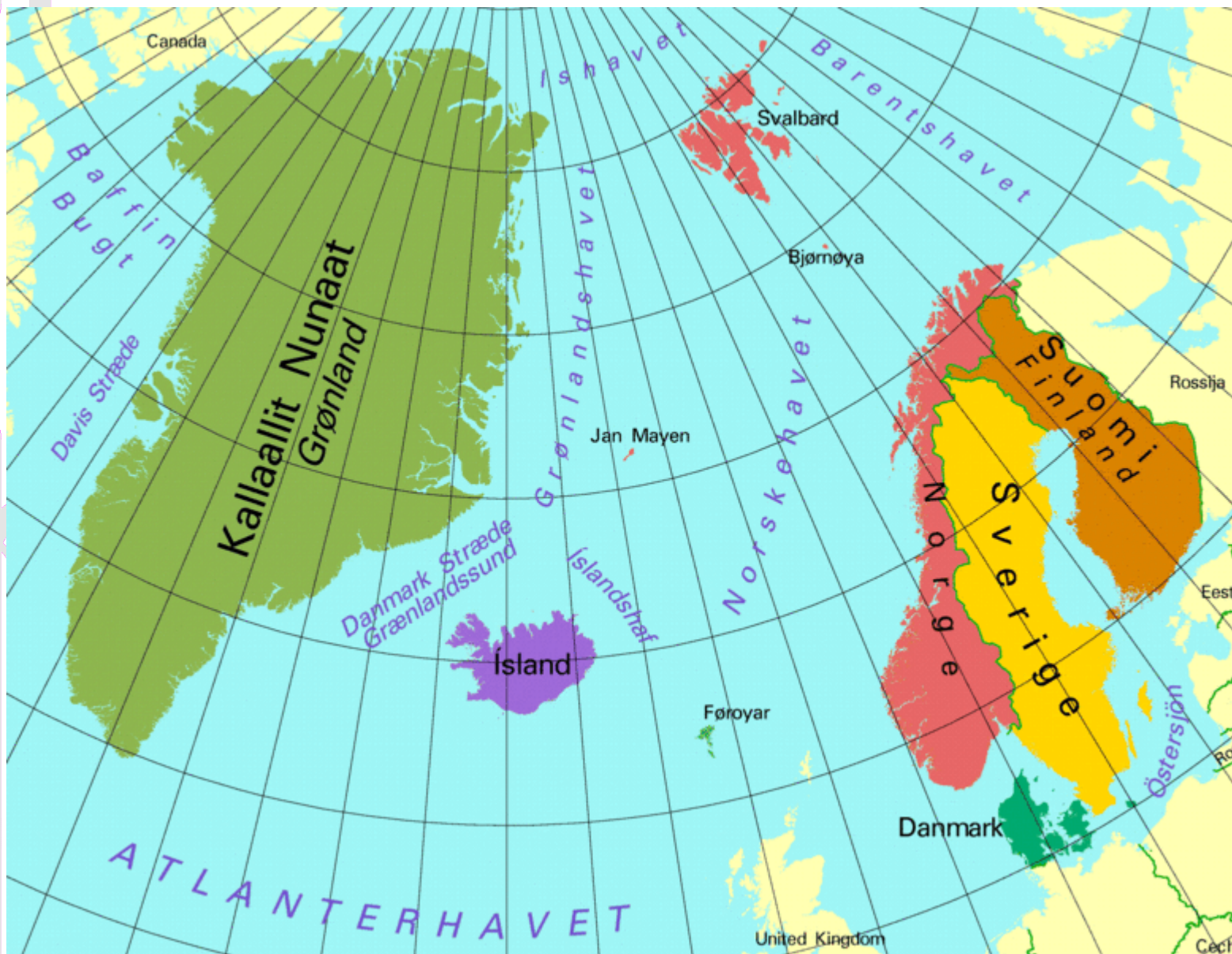
Lars Fischer

CTO, NORDUnet

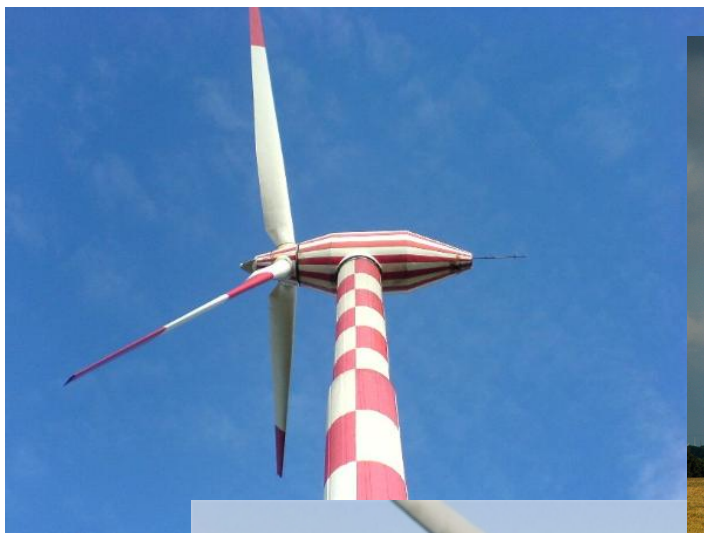
ONVECTOR Photonics Workshop

San Diego, 8 February 2010





- Regional Network for Nordic countries
 - Denmark, Sweden, Iceland, Norway, Finland (Forskningsnet, SUNET, RHnet, UNINETT, FUNET)
- Services
 - Network Interconnect
 - International Connectivity
 - Coordination, forum for collaboration
 - International projects and relations
- Organization
 - Jointly owned by Nordic NRENs
 - Funded according to GNP





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Page last updated at 15:31 GMT, Friday, 9 October 2009 16:31 UK

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Iceland looks to serve the world



The natural climate of Iceland could be used to reduce carbon emissions

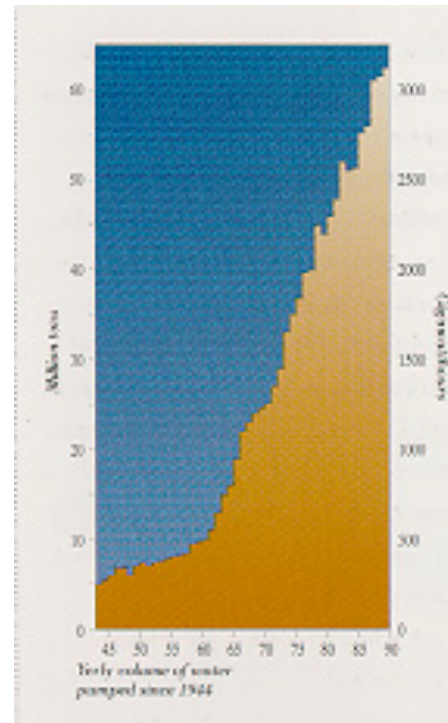
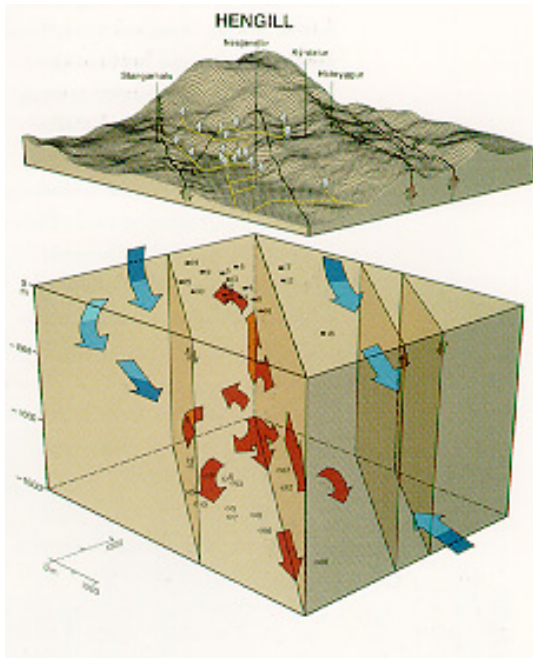
By Simon Hancock
BBC Click

Since the financial crisis, Iceland has been forced to retreat back from high octane bubble living to nature.

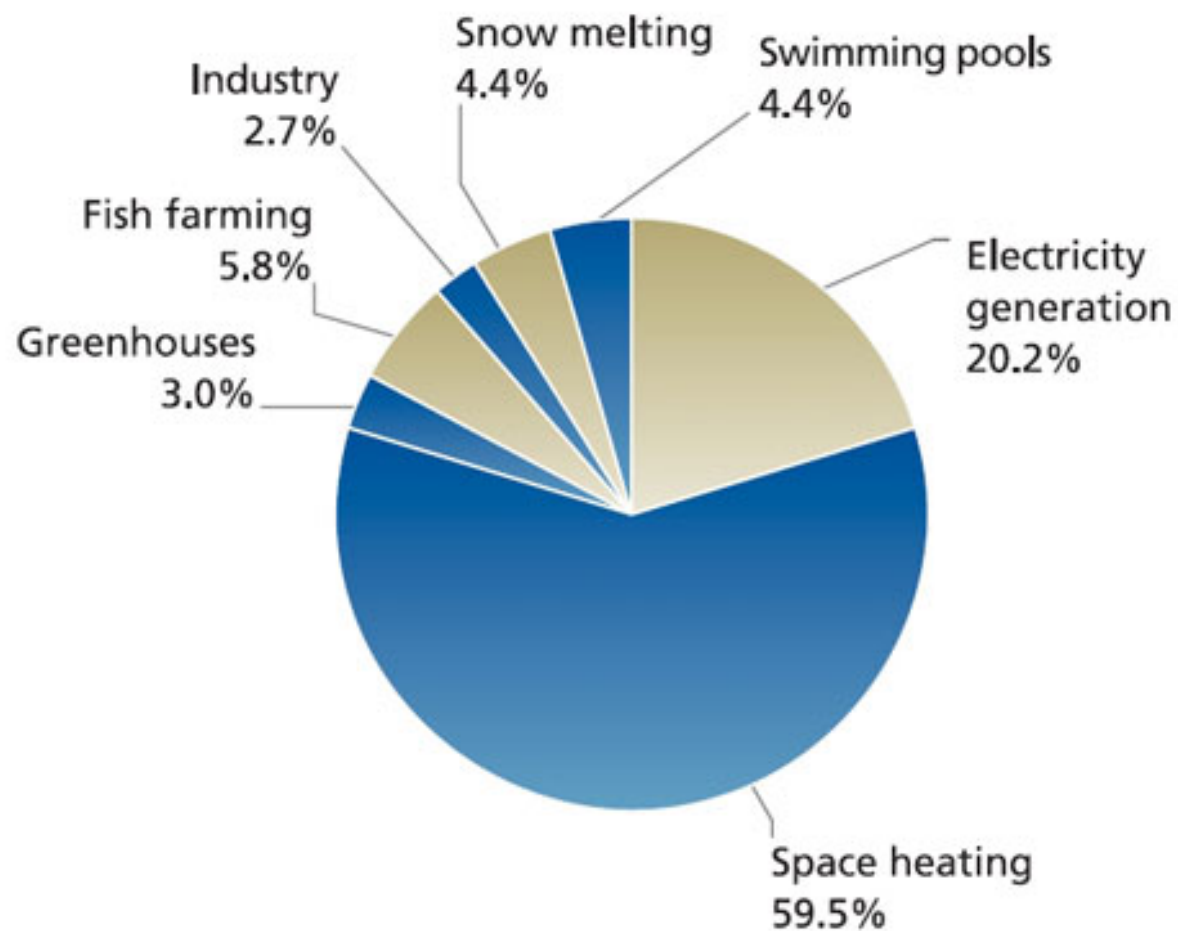
Fortunately, there is a lot of that nature to retreat to.

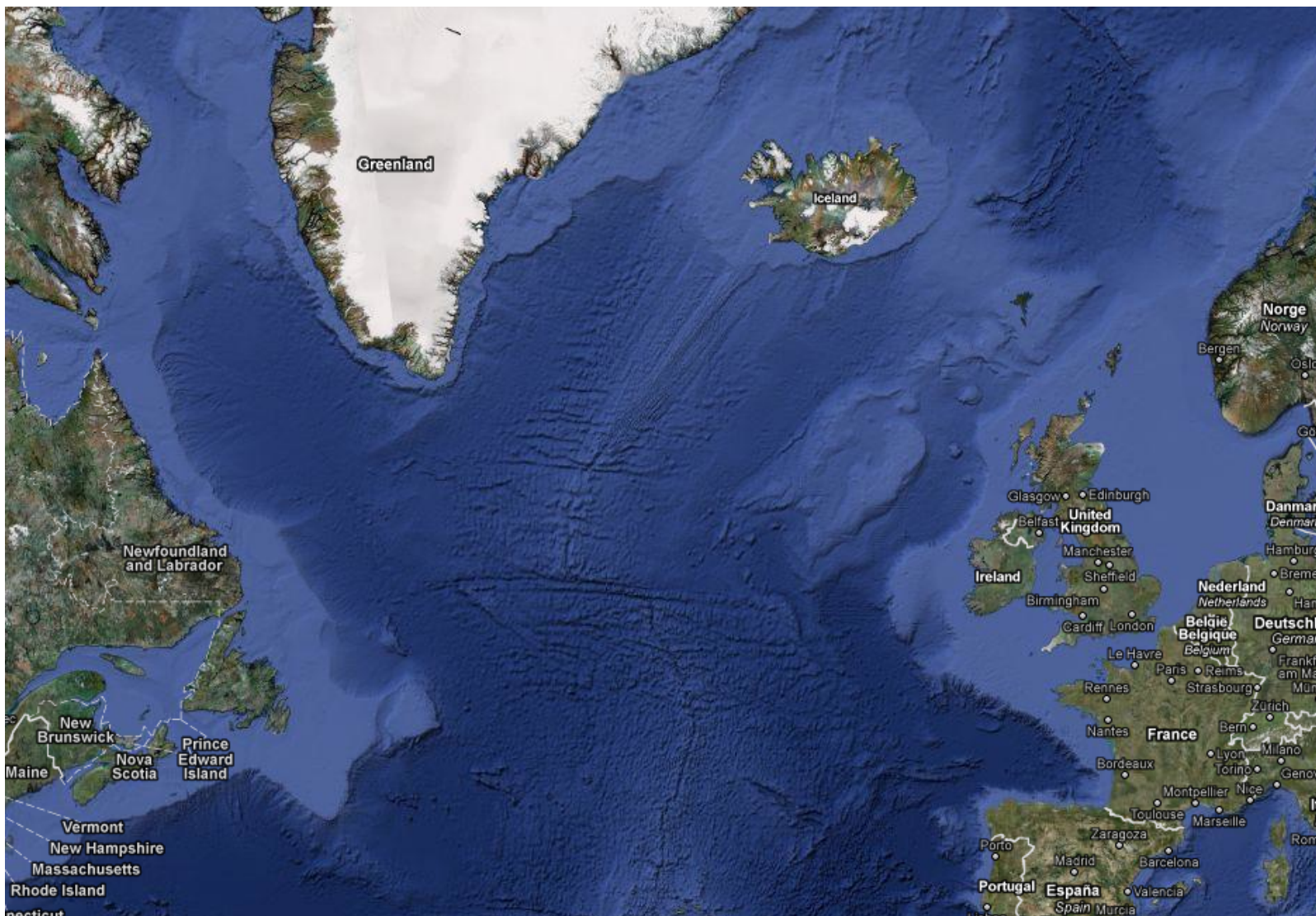
It is a breathtaking world of volcanoes, endless prairies and ethereal

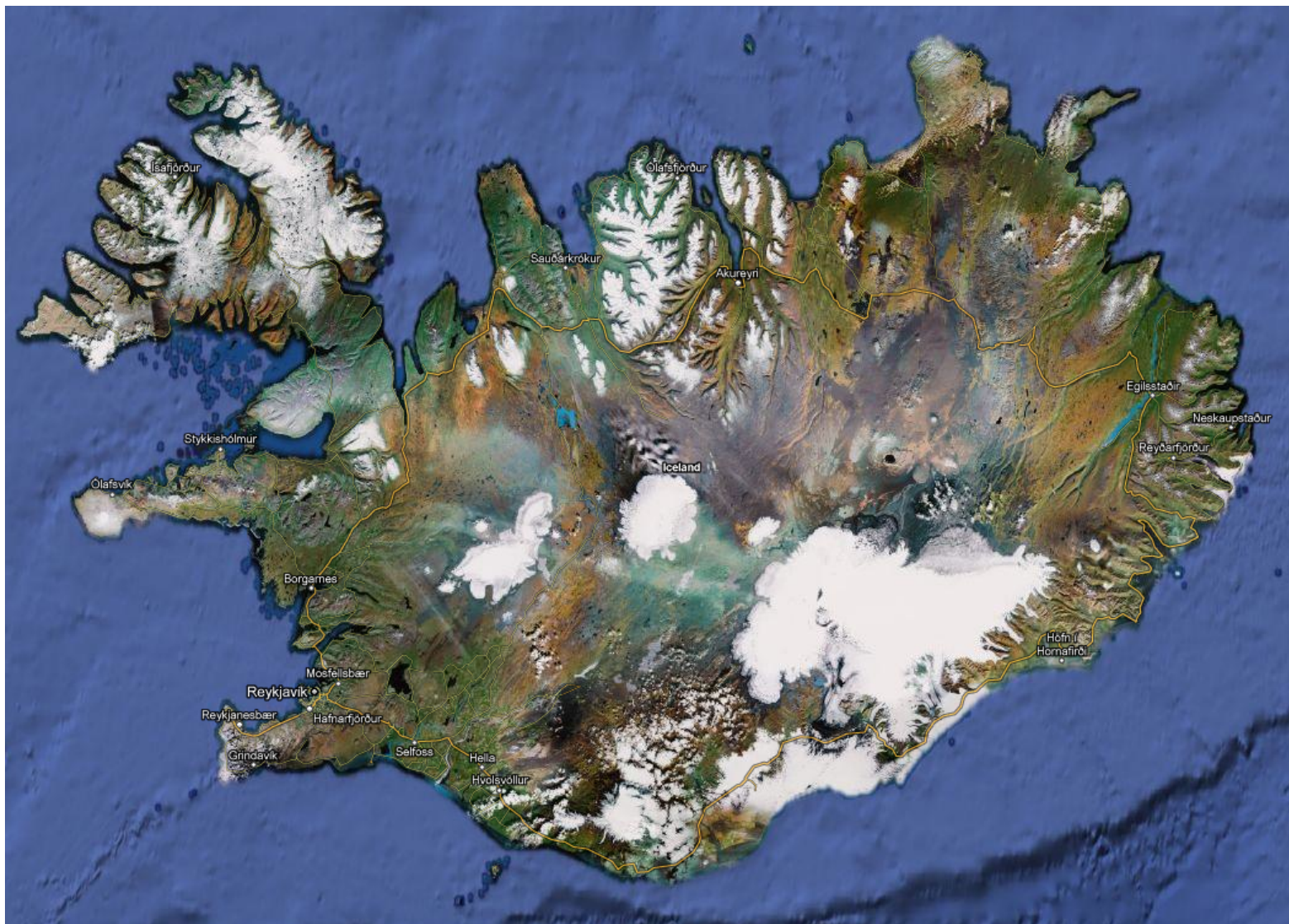




Utilization of geothermal energy 2005









- Link North Atlantic Region
 - Scandinavia, Russia, Canada, & Alaska
- Adequate & sustainable access to Iceland
 - Enable e-Science projects
 - Enable hosting, storage, and HPC projects
- Option for future expansion
 - Into Greenland
 - Into Faroe Islands (Føroyar)

Project Partners:

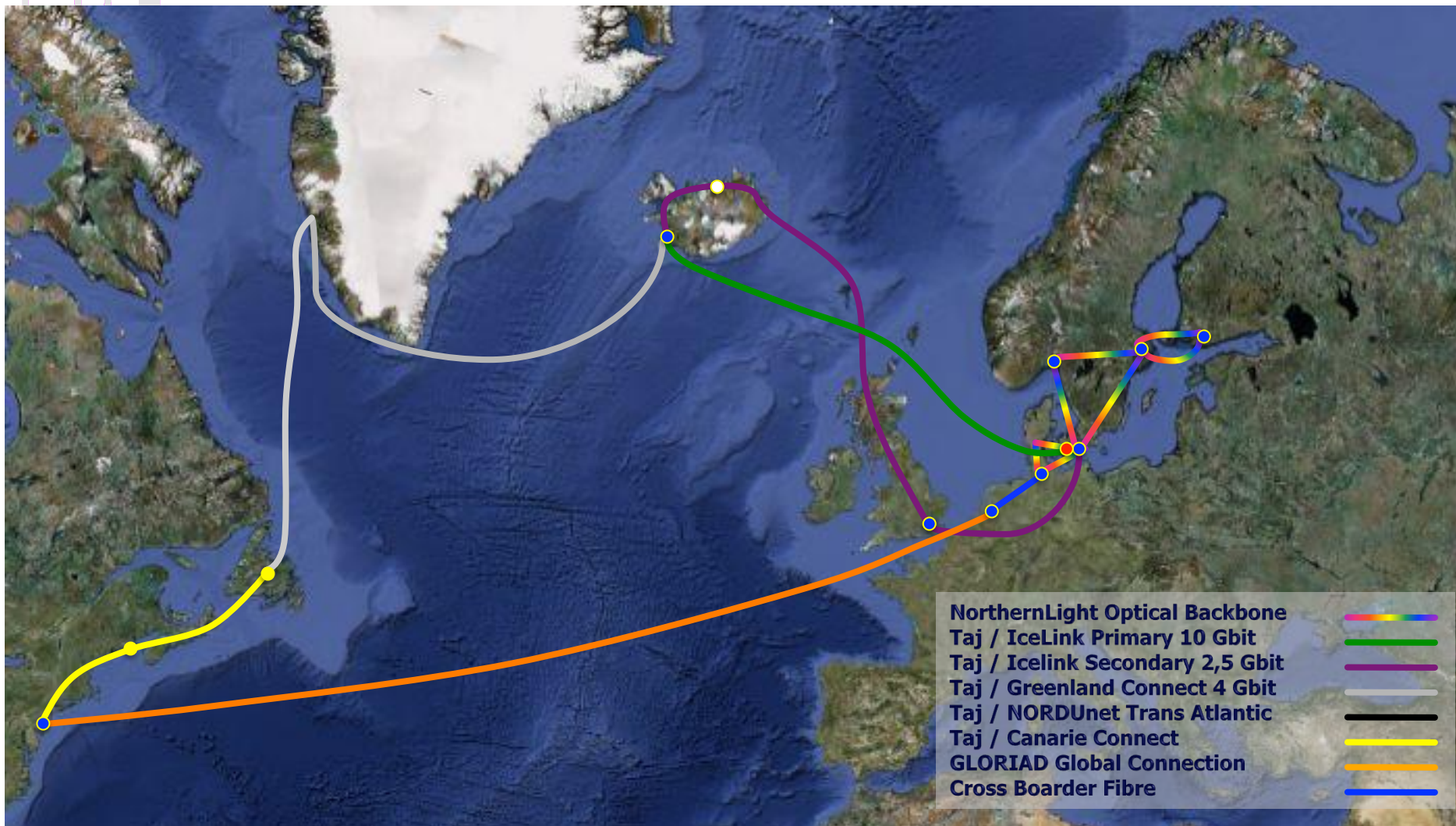
- NORDUnet – Nordic countries
- National Science Foundation – USA
- CANARIE – Canada

Project Cost:

- Total: 1.070.000,- € / Year:
 - NORDUnet 650K €
 - NSF 220K €
 - Canarie 200K €

Contributes to GLORIAD / TAJ





- **General Overall Strategy**
 - Community requirements
 - Federation of resources
- **Iceland:**
 - National infrastructure – in progress
- **Greenland:**
 - Break-out extremely expensive – local politic need to be addressed
 - Local infrastructure
- **Faroe Islands (Føroyar):**
 - Break Out in Negotiation
- **Northern Scandinavia, Russia**
 - Extensive Nordic national fiber & network builds
 - Northern interconnects in preparation

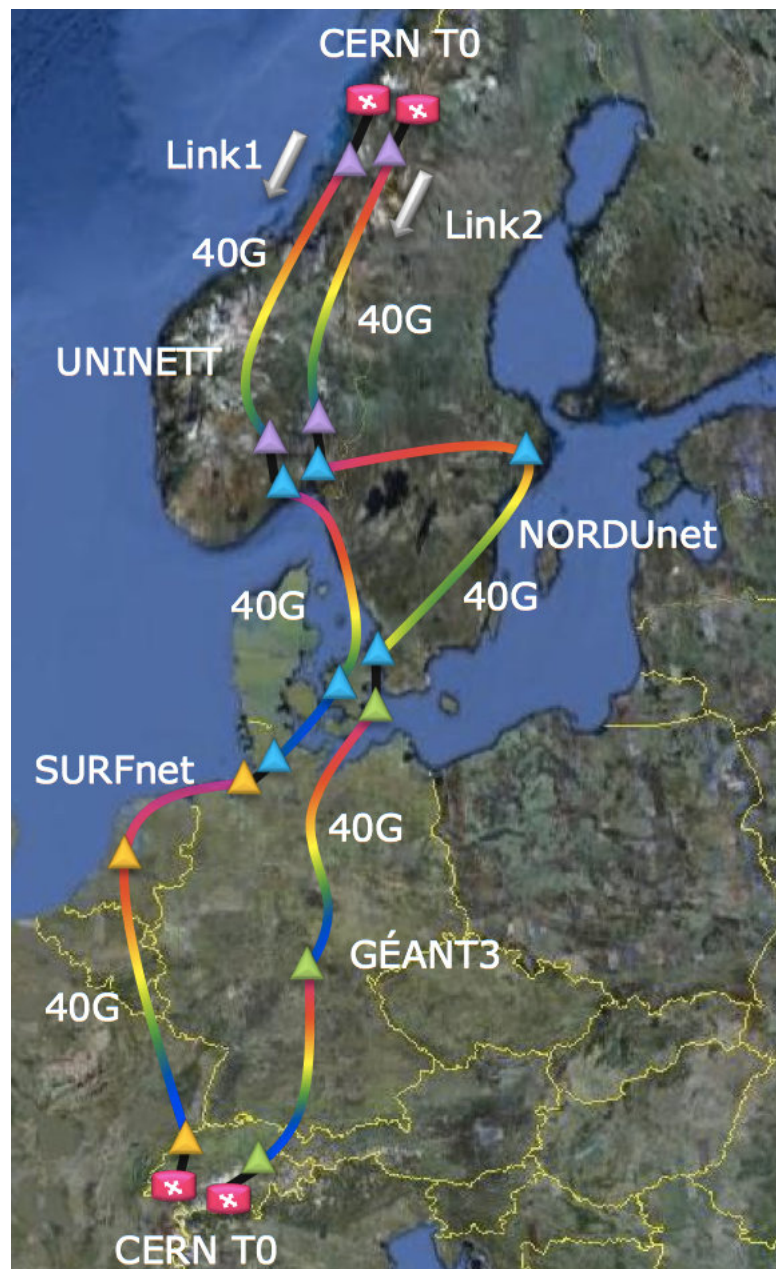


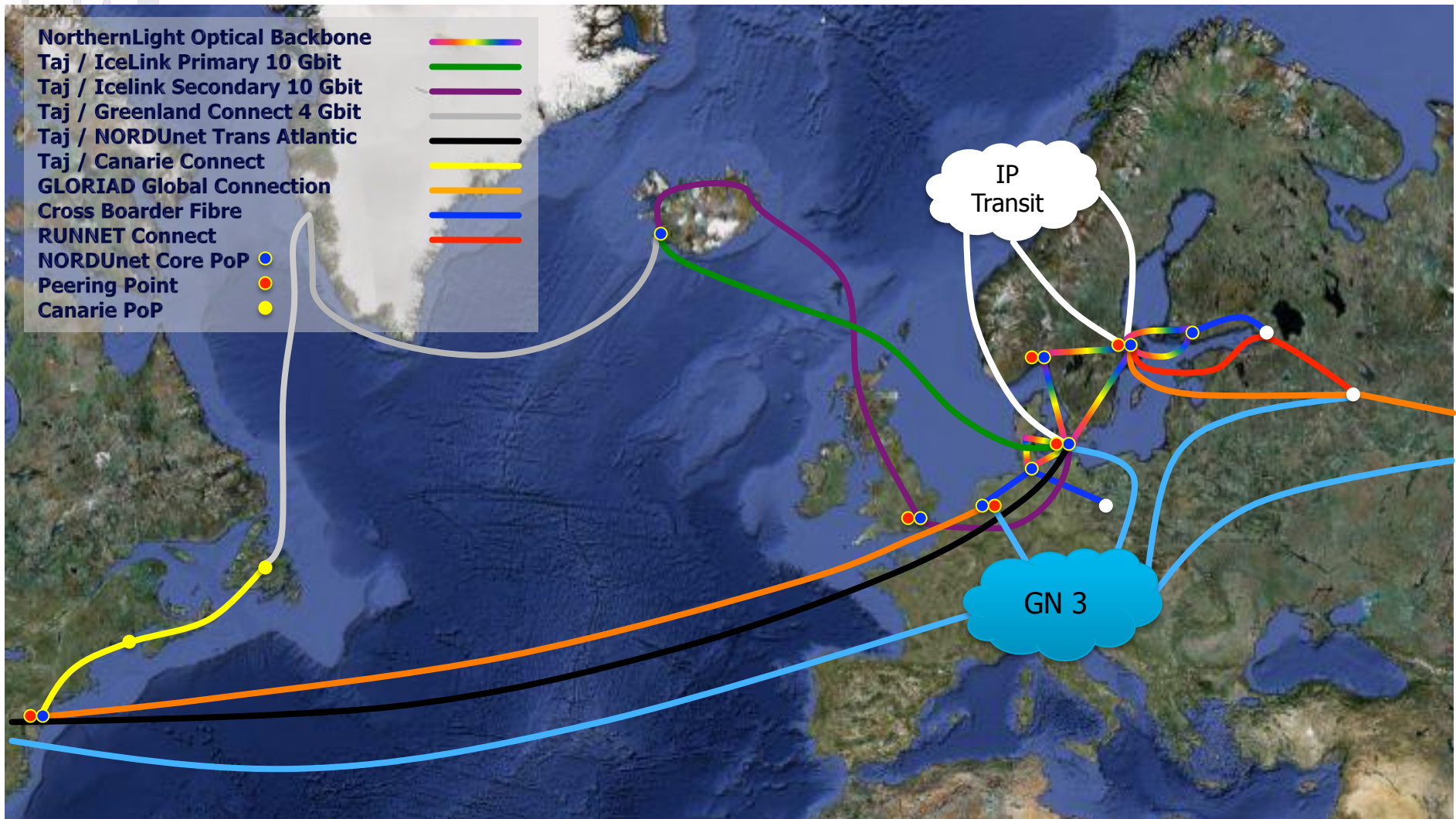


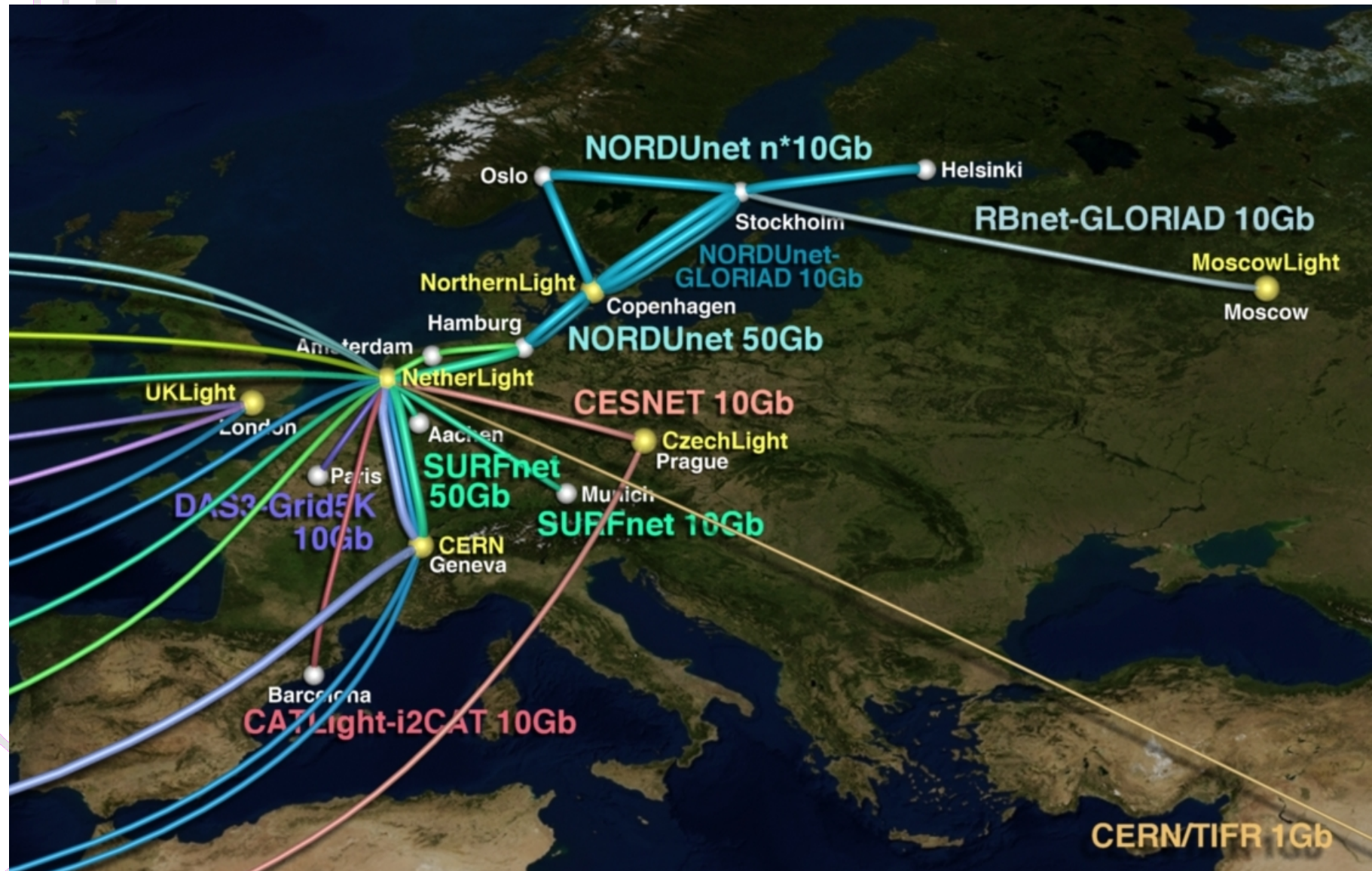
HEAnet, NIIF, PSNC,
UNI-C, NORDUnet

- Baseline audits
 - GÉANT and NRENs
 - ISO 14064
- Best current practice
 - And practical policies
- Liaison with NRENs and efforts such as the Canarie Green IT pilot
- Deliver recommendations

- Awareness as trigger for individual action







NORDUnet Strategy:

René Buch CEO, NORDUnet

http://nordunet.tv/0012530027211864/nordunet_the_new_strategy

The Challenges of Broadband Networks in the Arctic,

Steve Smith, University of Alaska:

http://www.nordu.net/conference/ndn2009web/steve_smith.html



26th NORDUnet Conference Reykjavik, June 7-9 2011

NORDUnet

Nordic Infrastructure for Research & Education

