

NORDUnet GOLE Update

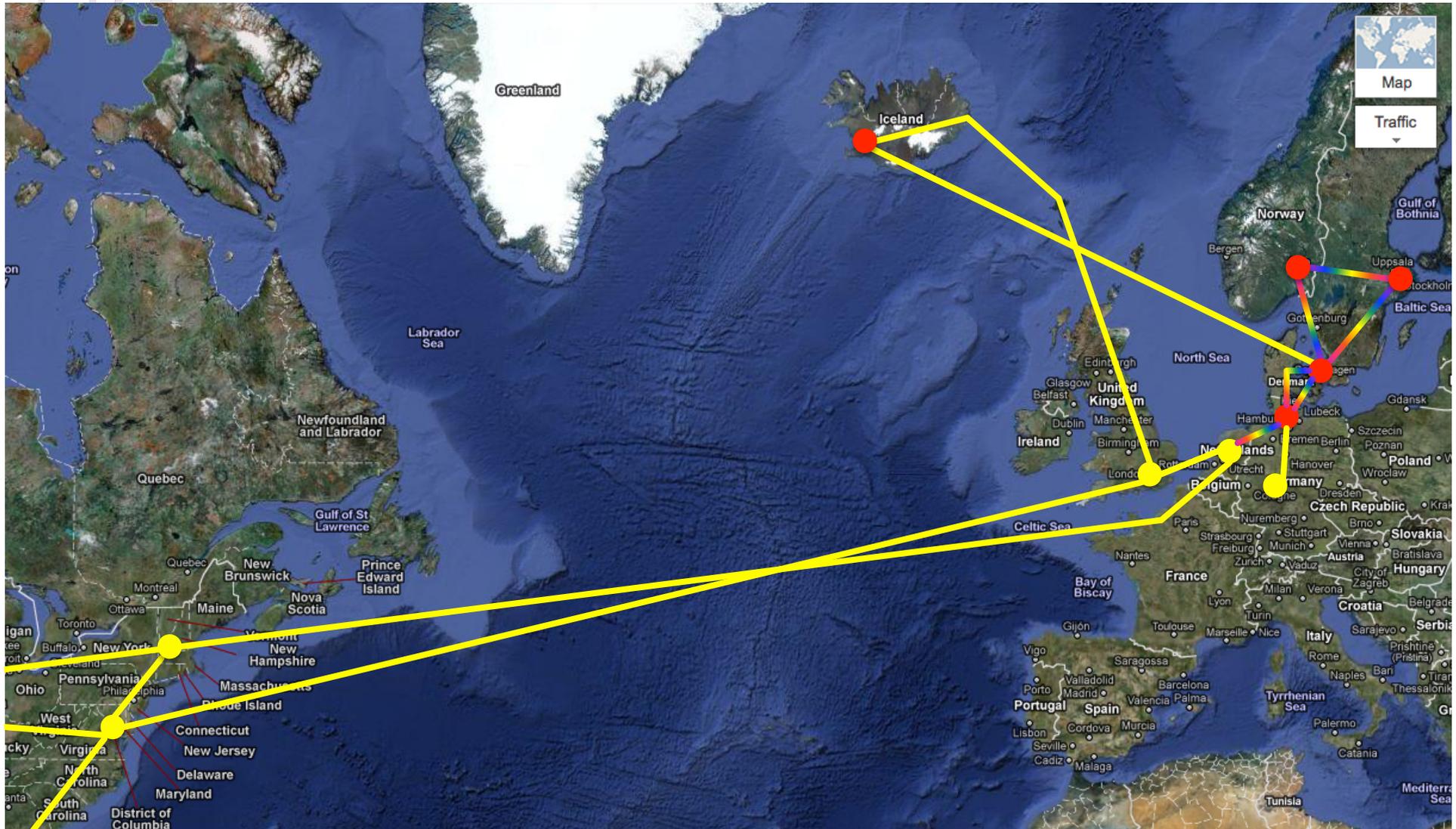
GLIF TECH Meeting,
14th Annual Global LambdaGrid Workshop

Queenstown, NZ, 29 Sep 2014

Lars Fischer





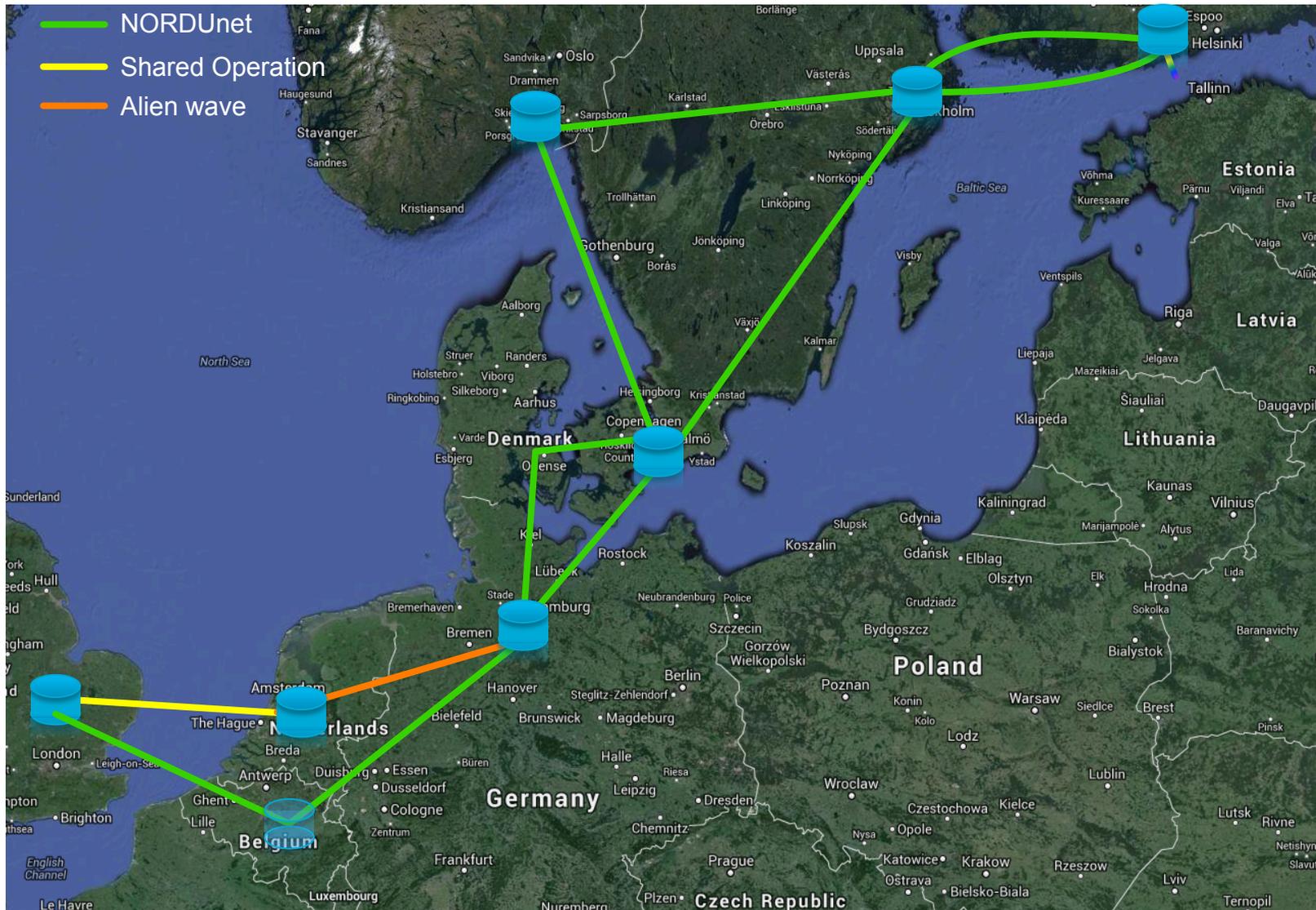


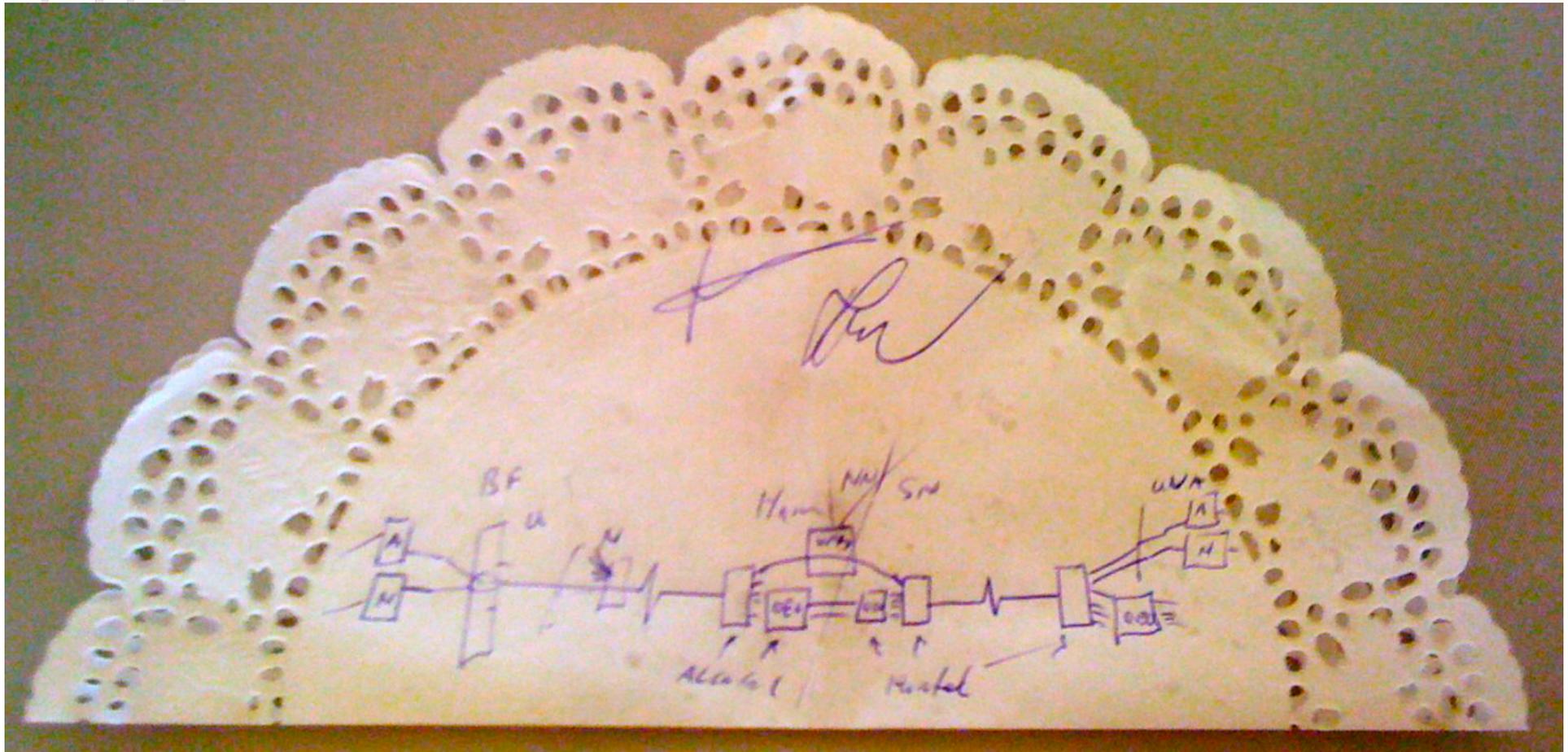
- Peering
 - Frankfurt: ✓ completed 2012
 - US expansion: ✓ completed 2012
- New Fibre tenders
 - CPH-HMB x2: ✓ completed 2013 (L3 / GC)
 - HMB-LDN: ✓ completed 2013 (Interoute)
 - LDN-AMS: ✓ completed 2013 (Interoute)
- New Equipment tenders
 - Transmission Equipment: ✓ completed 2013 (Ciena) framework agreement for NRENs
 - IP Equipment: ✓ completed 2014 (Juniper)

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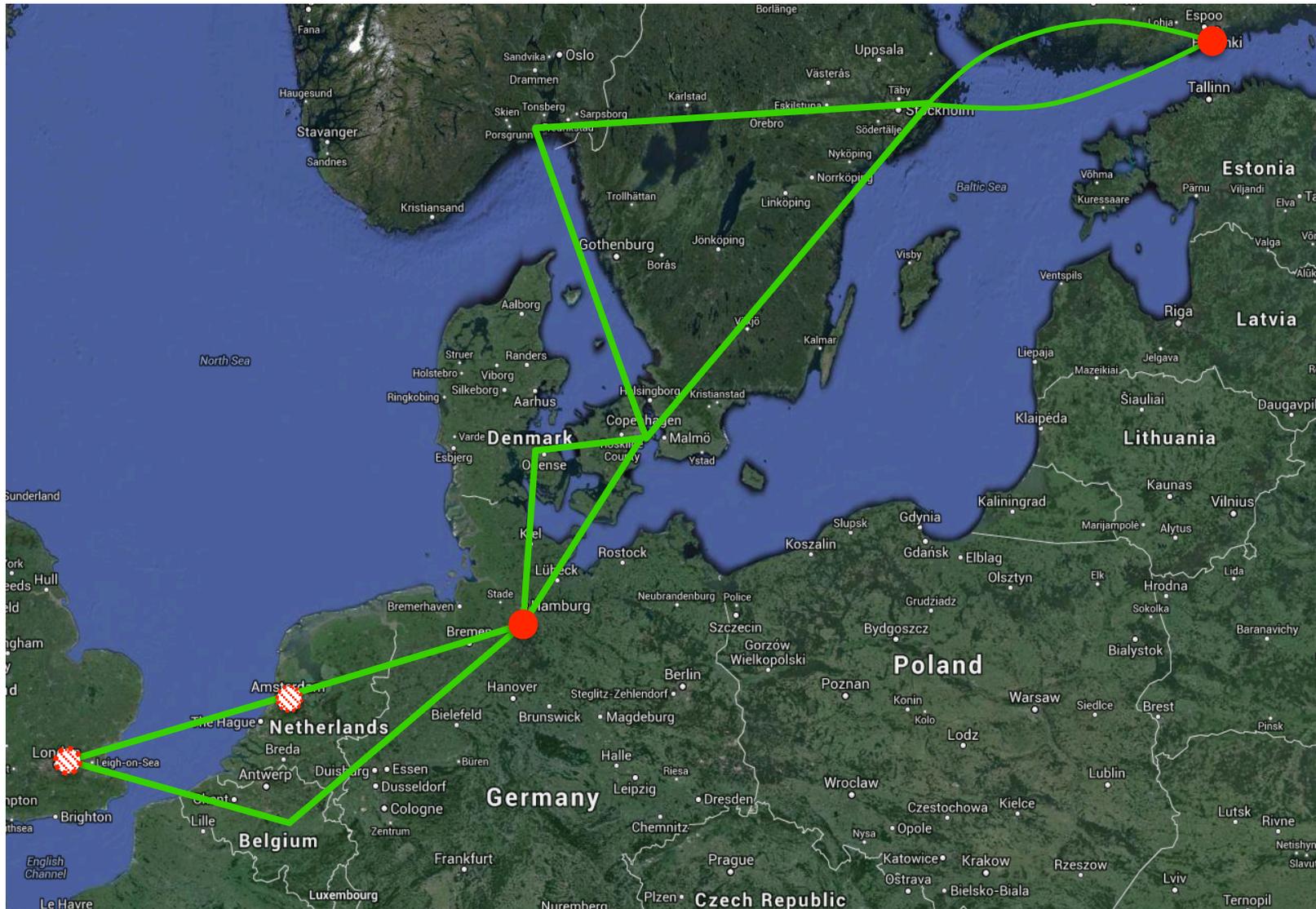
Nordic Infrastructure for Research & Education

NORDUnet Optical Network



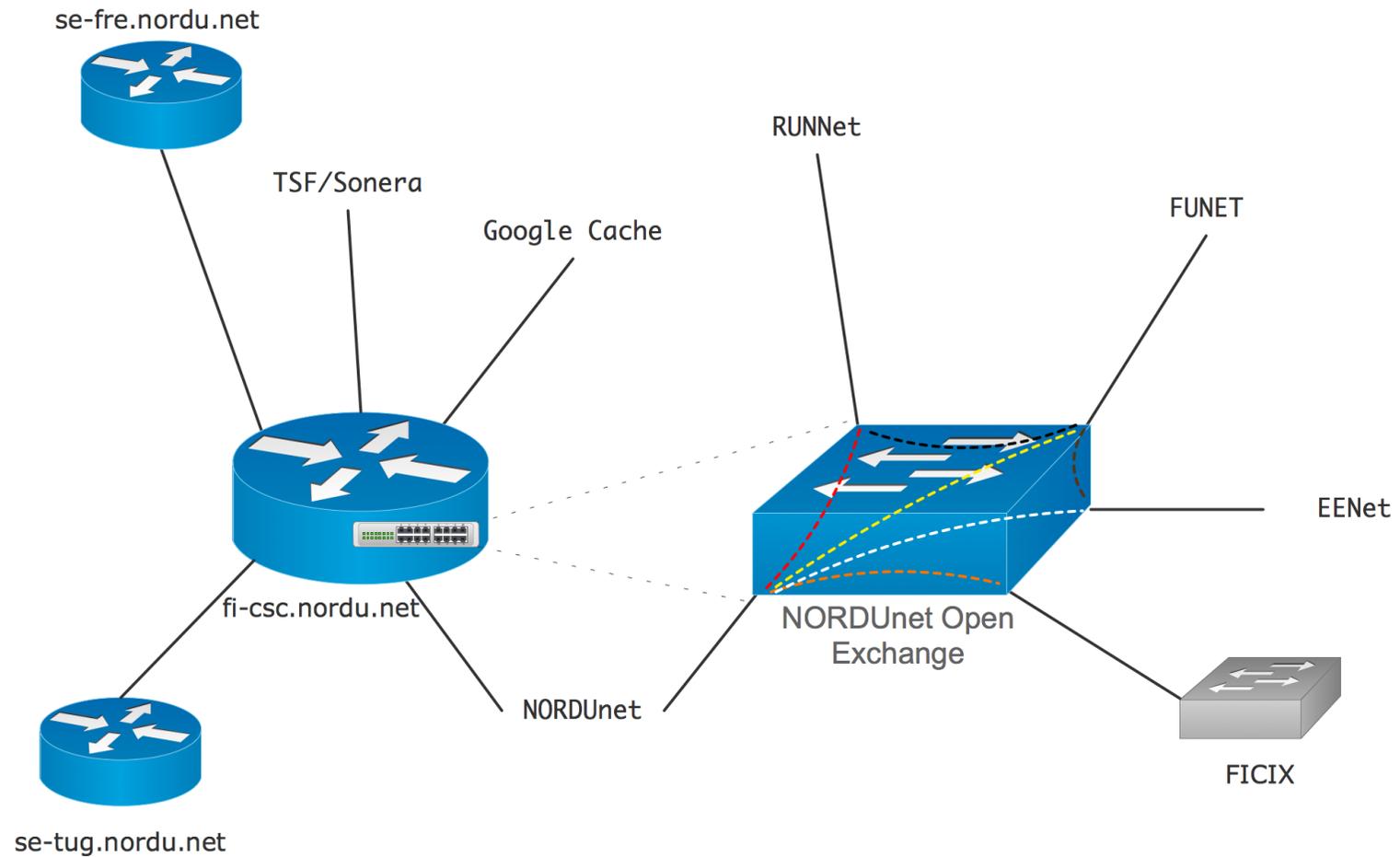


- Alien Wave design, NORDUnet / SURFnet, May 2008
- (photo: Cees de Laat)



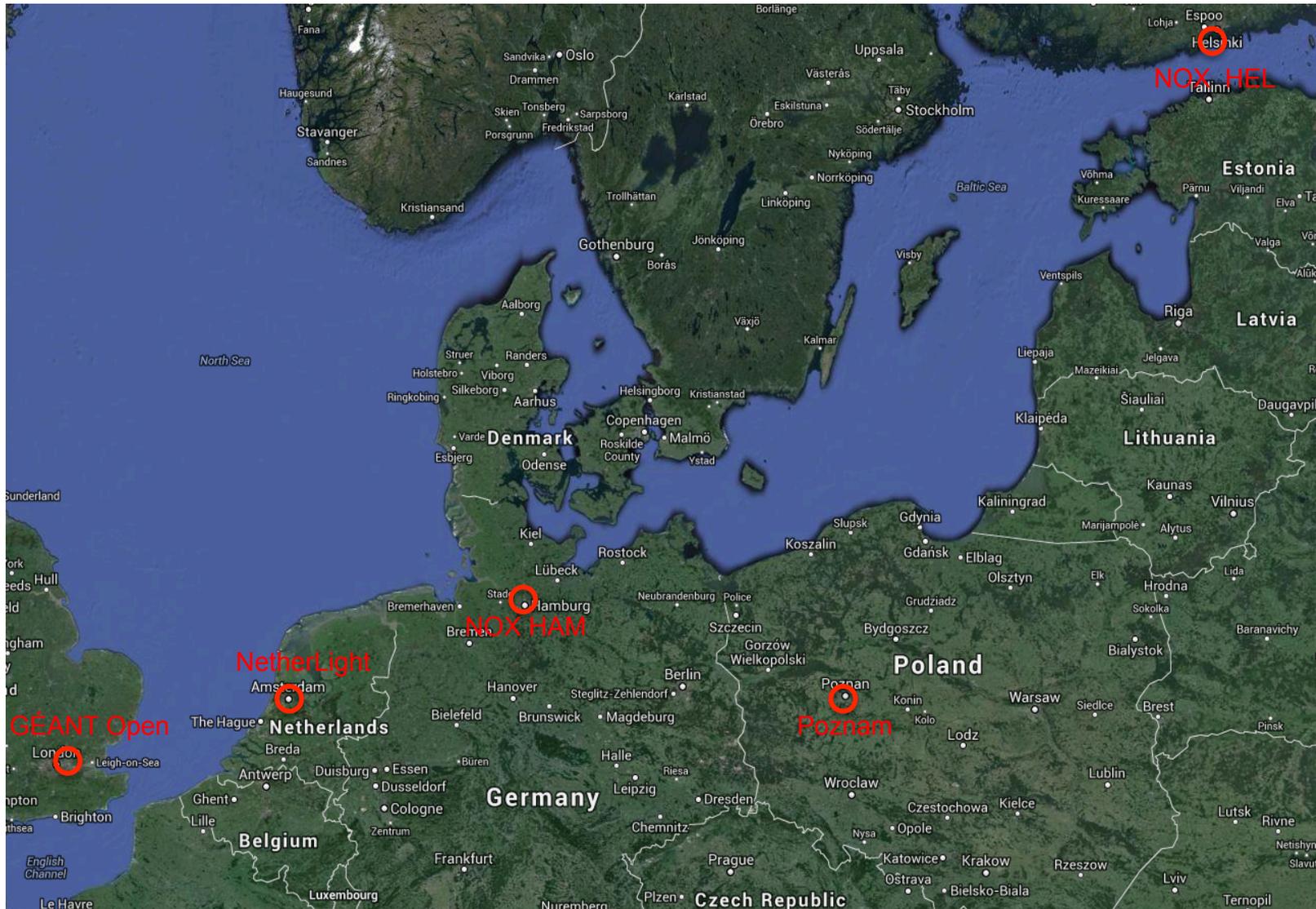
Where NORDUnet fabric meet (several) other networks





Ethernet switching fabric, with (potential) MPLS and OpenFlow capabilities, adjacent to routing capability

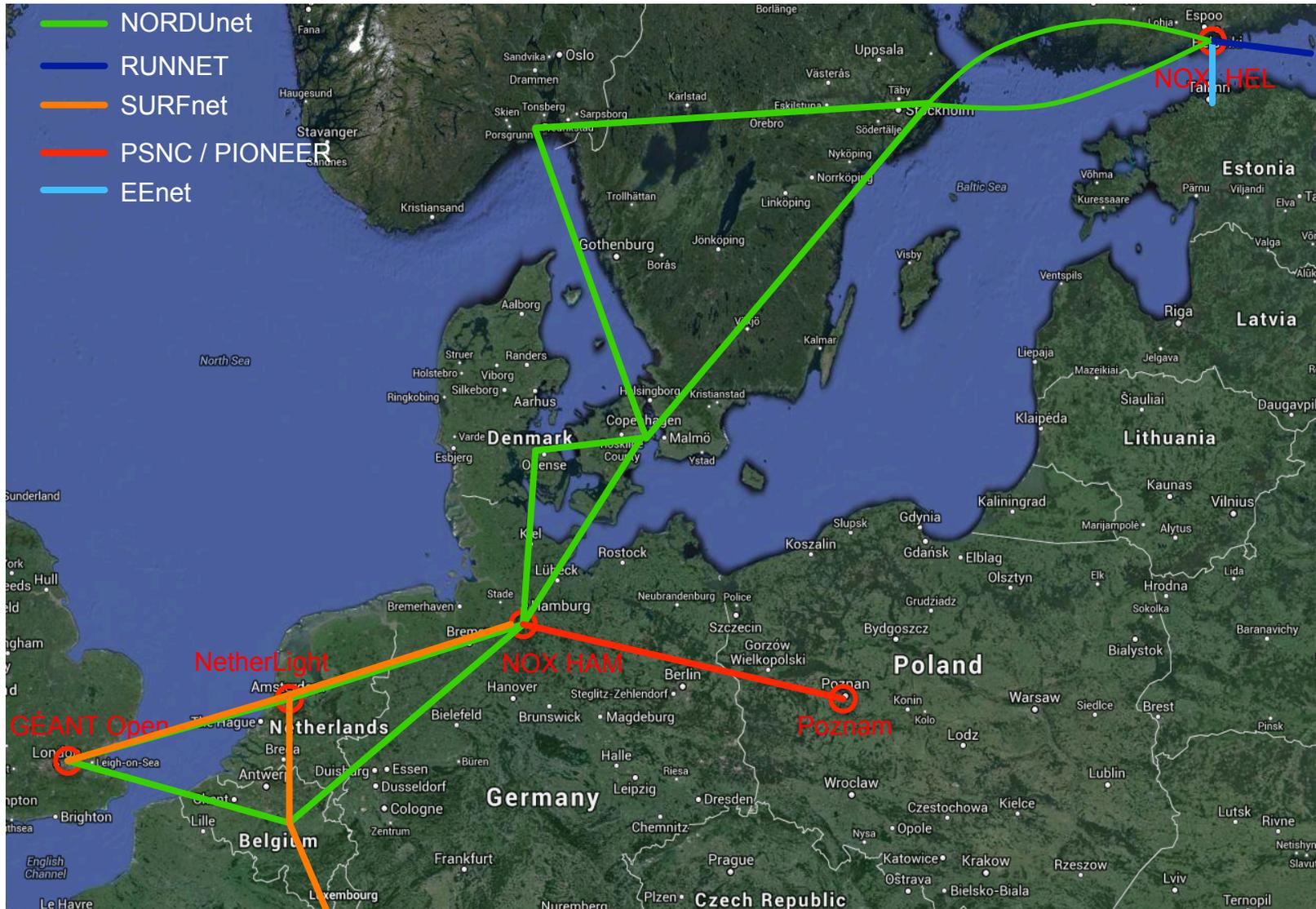




NORDUnet

Nordic Infrastructure for Research & Education

North-West Europe CBF



- Moving towards meeting all NREN partners at Open Exchanges
- Examples
 - SURFnet, GÉANT, ESnet (x3)
 - Internet2 (x2)
 - PIONEER, EEnet, RUNNET (x1)
- GOLE connectivity
 - Own optical infrastructure
 - Cross-Border Fibres
 - Fibre / Spectrum sharing
 - Trans-Atlantic shared infrastructure