

NetherLight GOLE Update

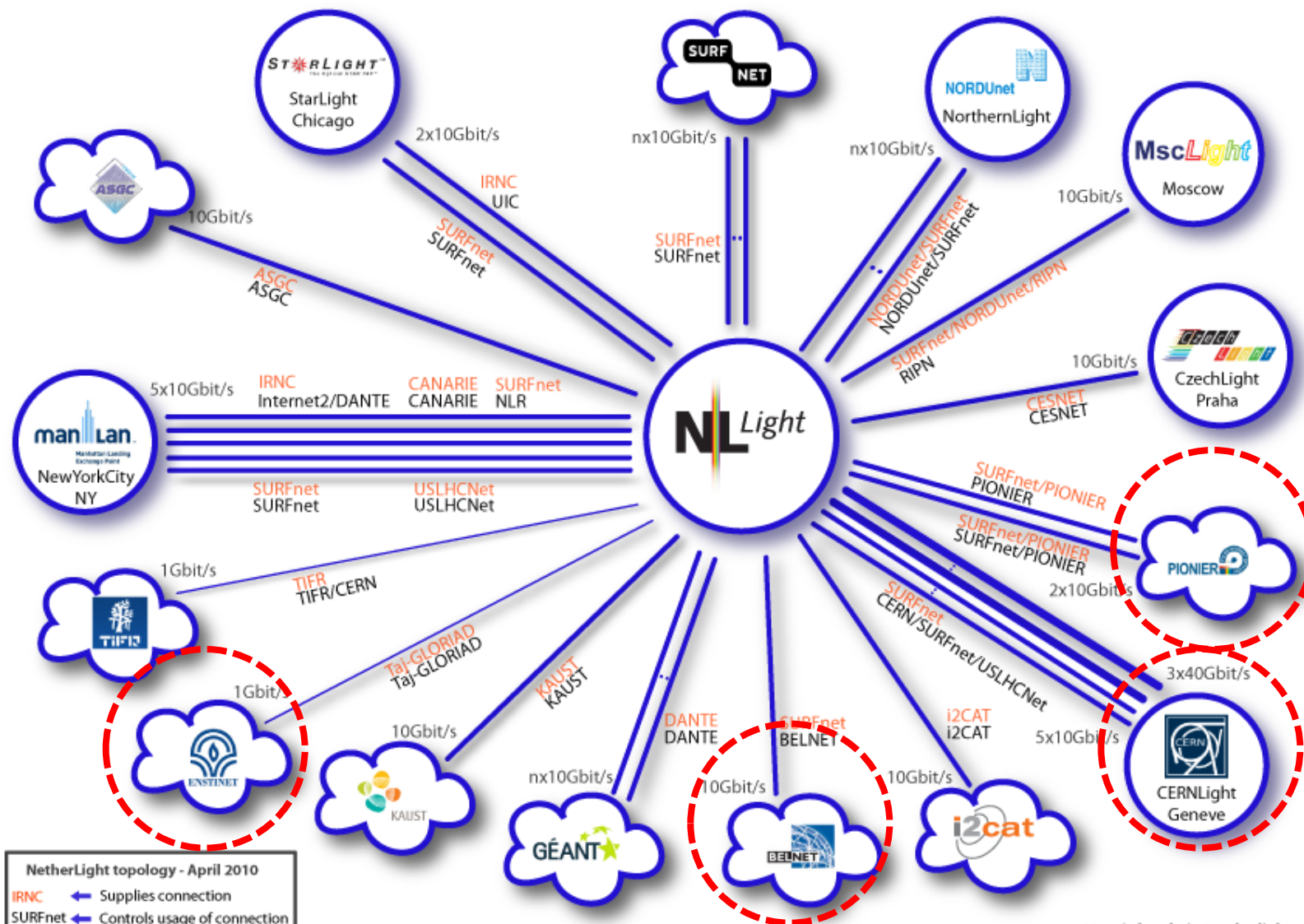
Gerben van Malenstein

CERN – October 13, 2010

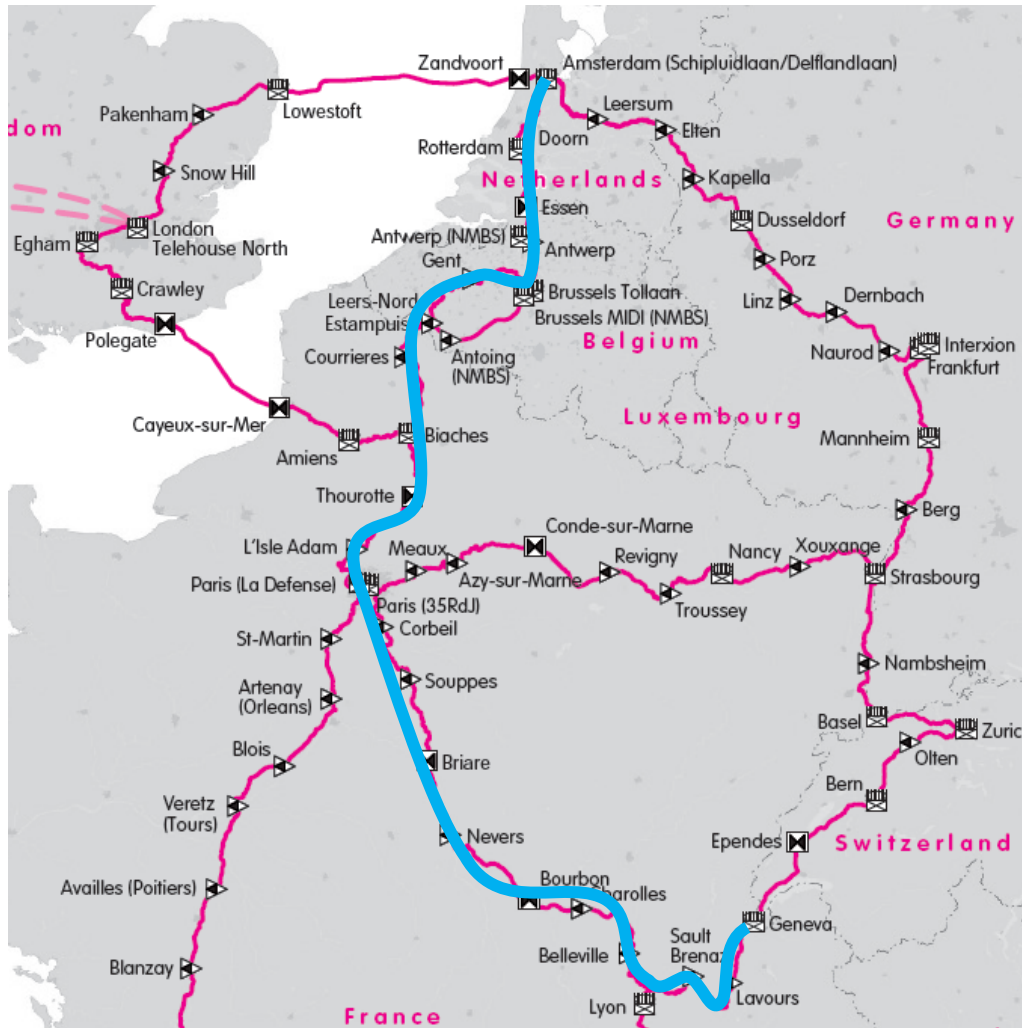
10th Annual Global LambdaGrid Workshop



NetherLight connectivity



Amsterdam - Geneva DWDM system



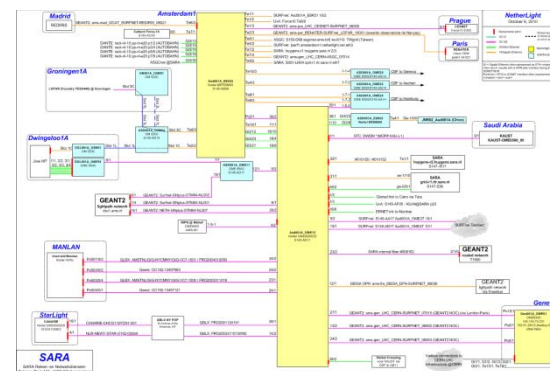
- 1650km DWDM system
 - 22 spans
- Via Bruxelles (Belnet) and Paris
- Currently three 40Gb/s PM-QPSK channels installed
 - **In production!**
- 100G ready
 - OSNR margin was measured and is sufficient to guarantee 100Gb/s single carrier PM-QPSK transmission between Amsterdam and Geneva

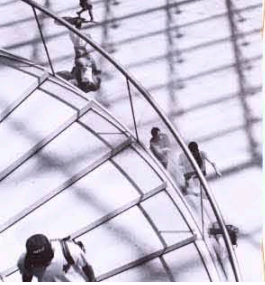
2010



- 40G to CERN into production
- Replacement of Nortel HDXc
Ciena OME6500 Double Decker
- Additional CBF
- GOLE SLS at NetherLight
- Automated GOLE

<http://noc.netherlight.net/netherlight.png>





2011

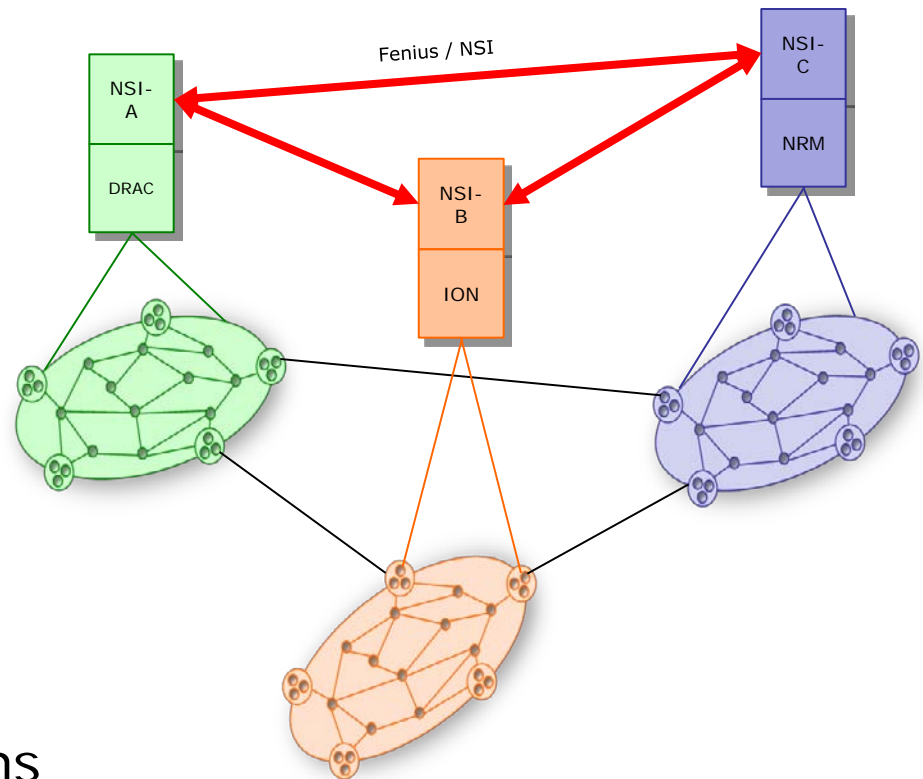


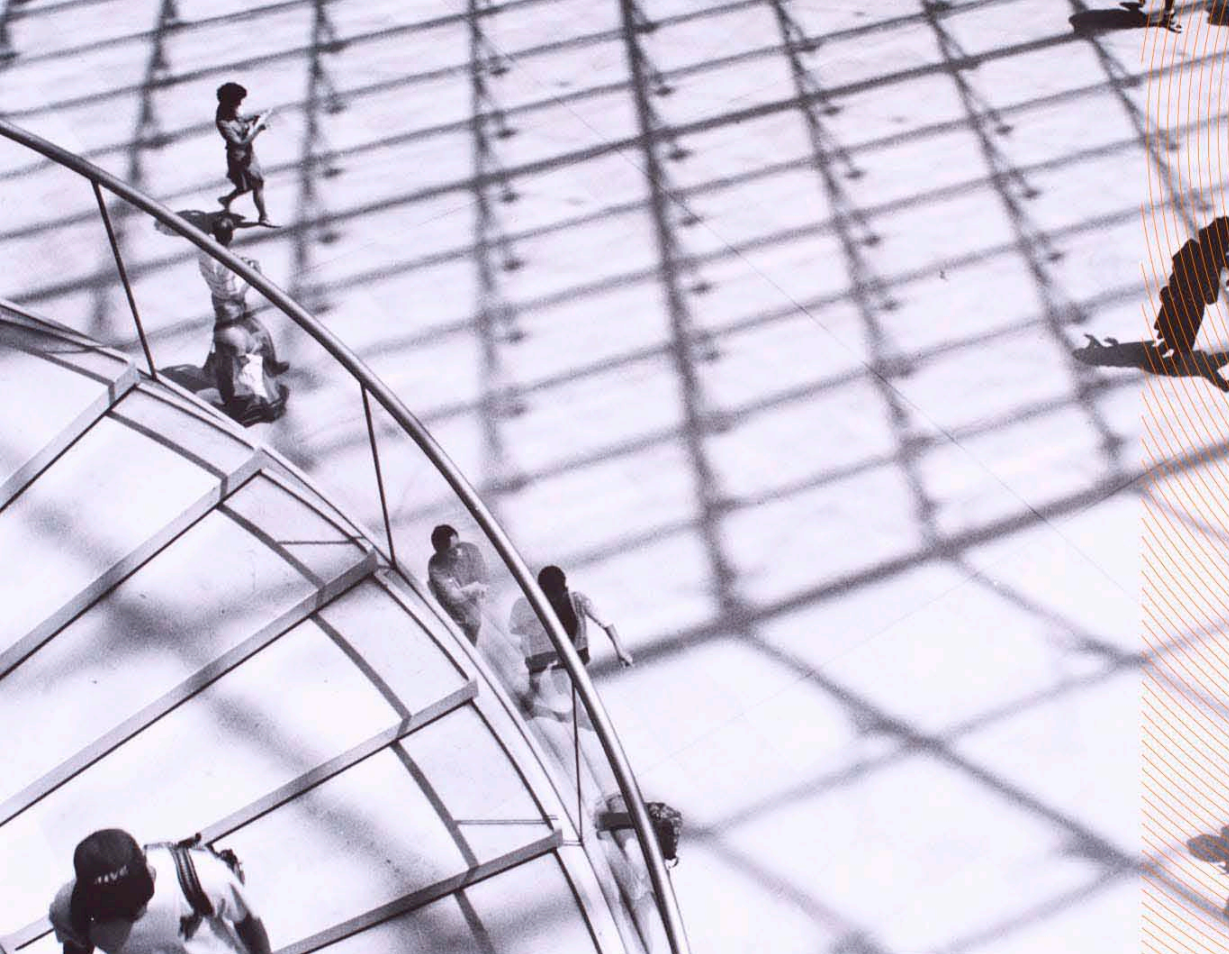
- 40G trans-Atlantic transmission
- 100G clear channel transmission between Amsterdam and Geneva
 - Q3: Pilot
 - Q4: Aiming for production
- Next Generation Ethernet available as pre-production service
- Pre-production Dynamic GOLE
 - Building on 2010 setup

Automated GOLF Pilot



- NetherLight
 - Open DRAC
 - Force10
 - Fenius
 - perfSONAR
- Real-world users/applications





Thank you!

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