

# **Integrated and Ubiquitous e-Infrastructures with Open Exchanges**

**Lars Fischer**

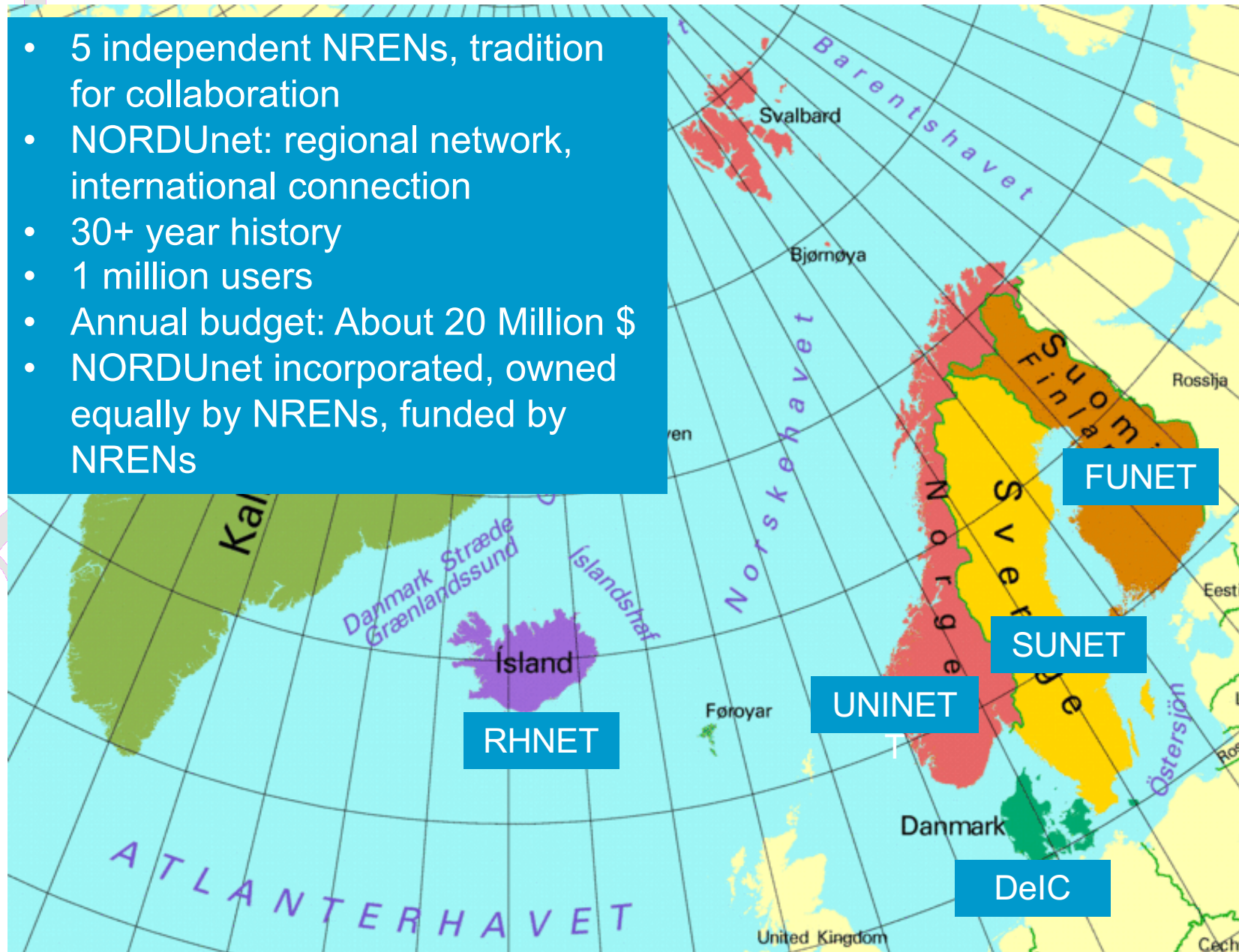
**e-Age 2016**

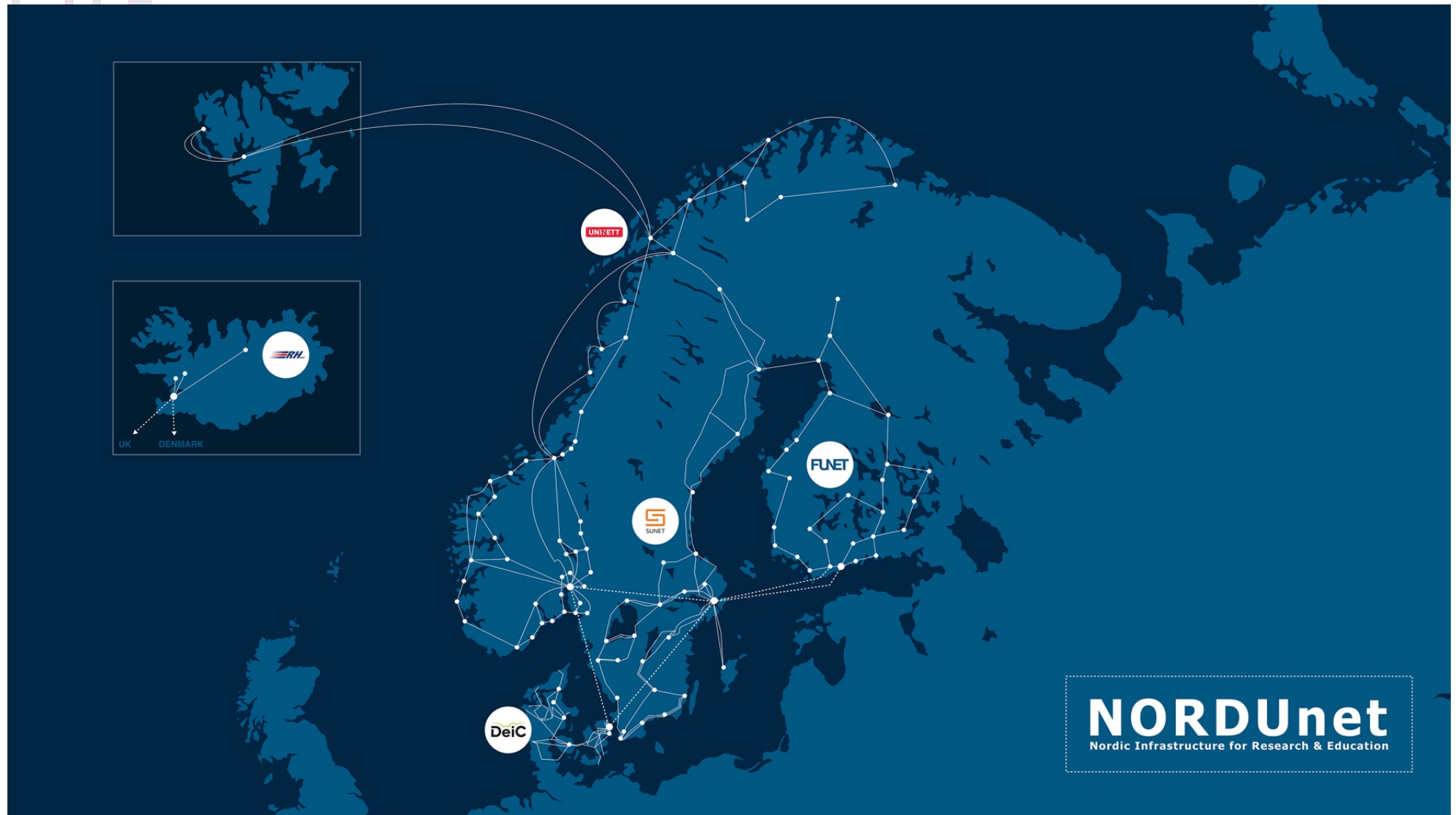
**Beirut, Lebanon, 2 December 2016**





- 5 independent NRENs, tradition for collaboration
- NORDUnet: regional network, international connection
- 30+ year history
- 1 million users
- Annual budget: About 20 Million \$
- NORDUnet incorporated, owned equally by NRENs, funded by NRENs





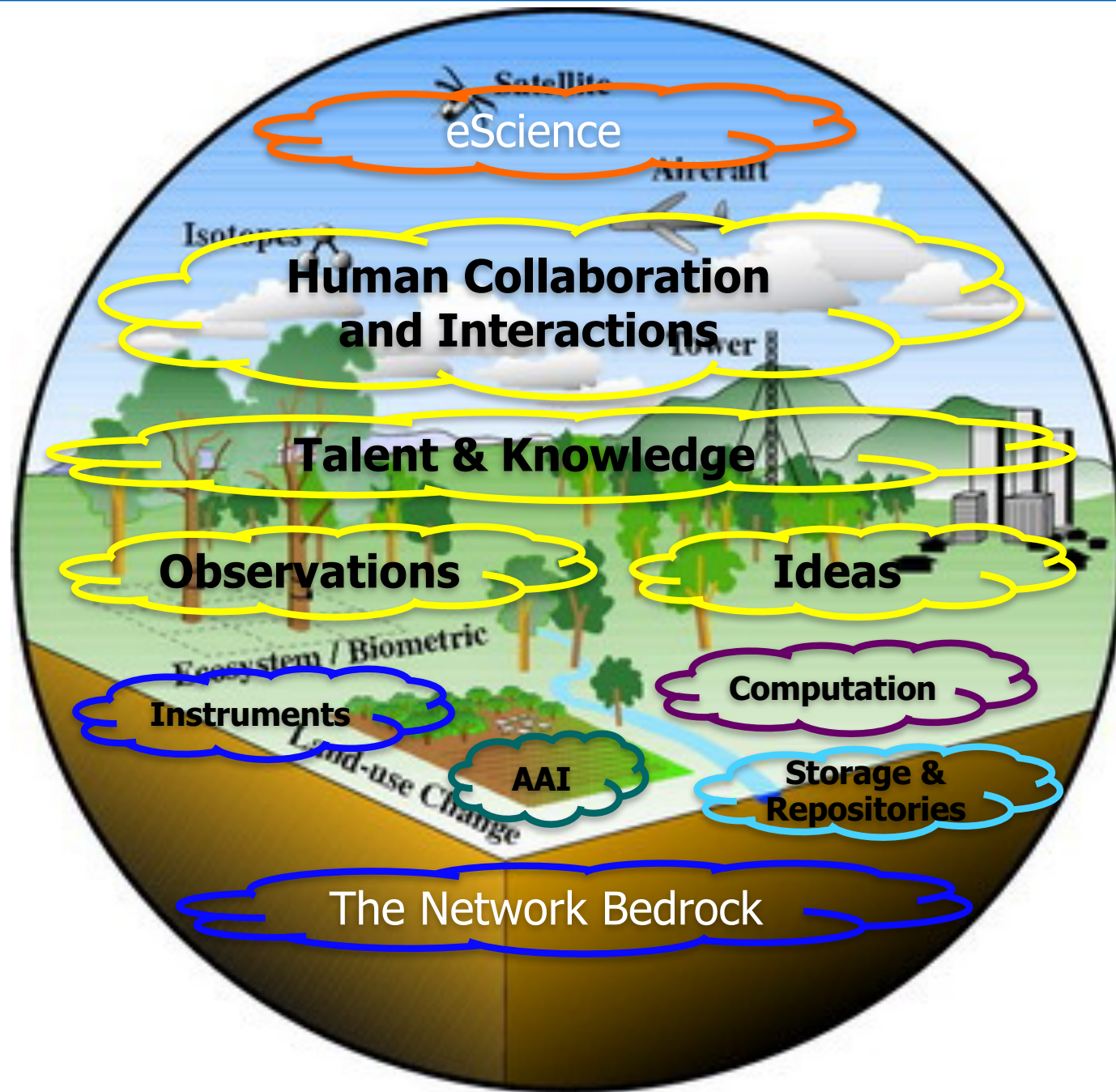




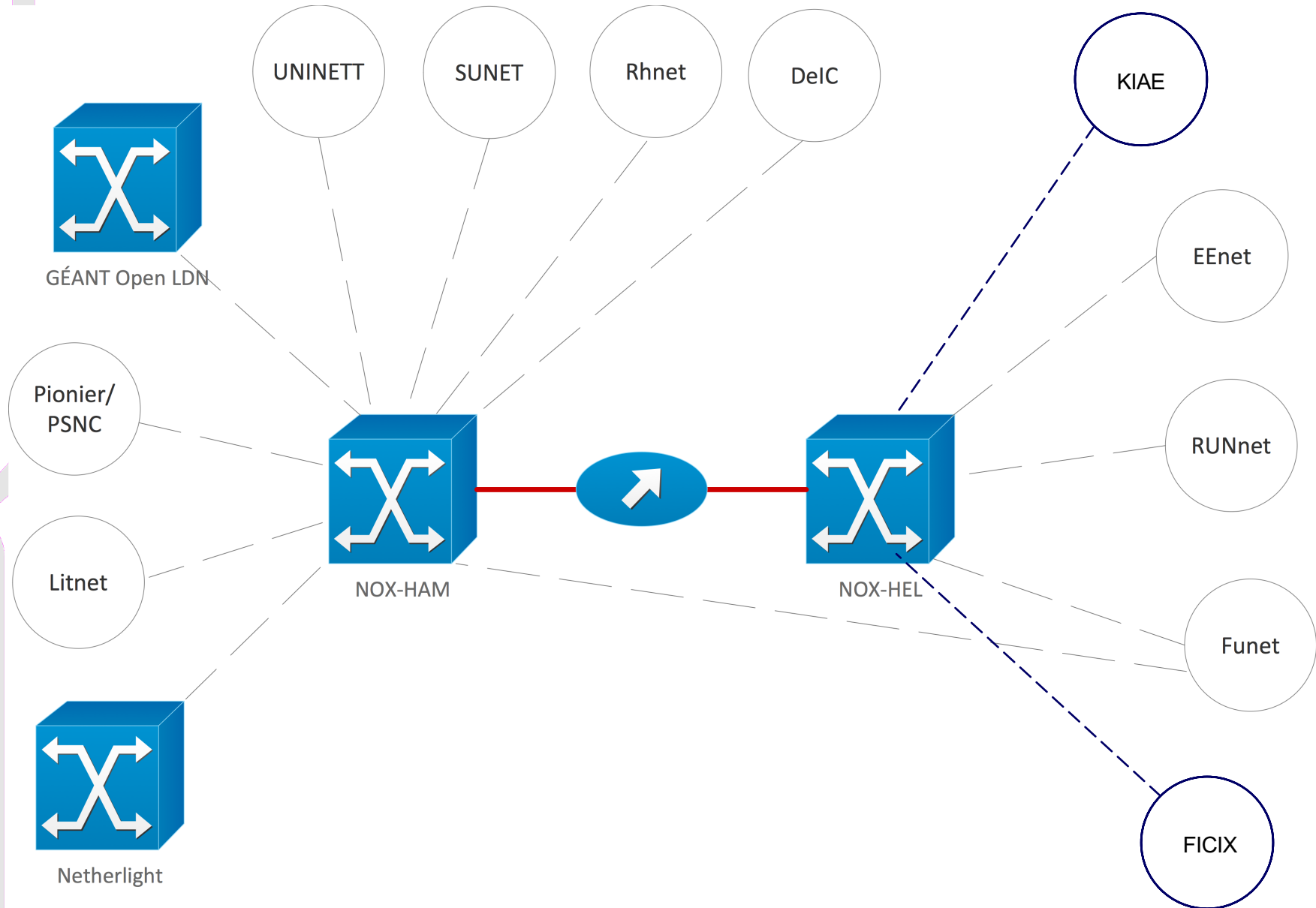


Anyone  
Anywhere  
Any time



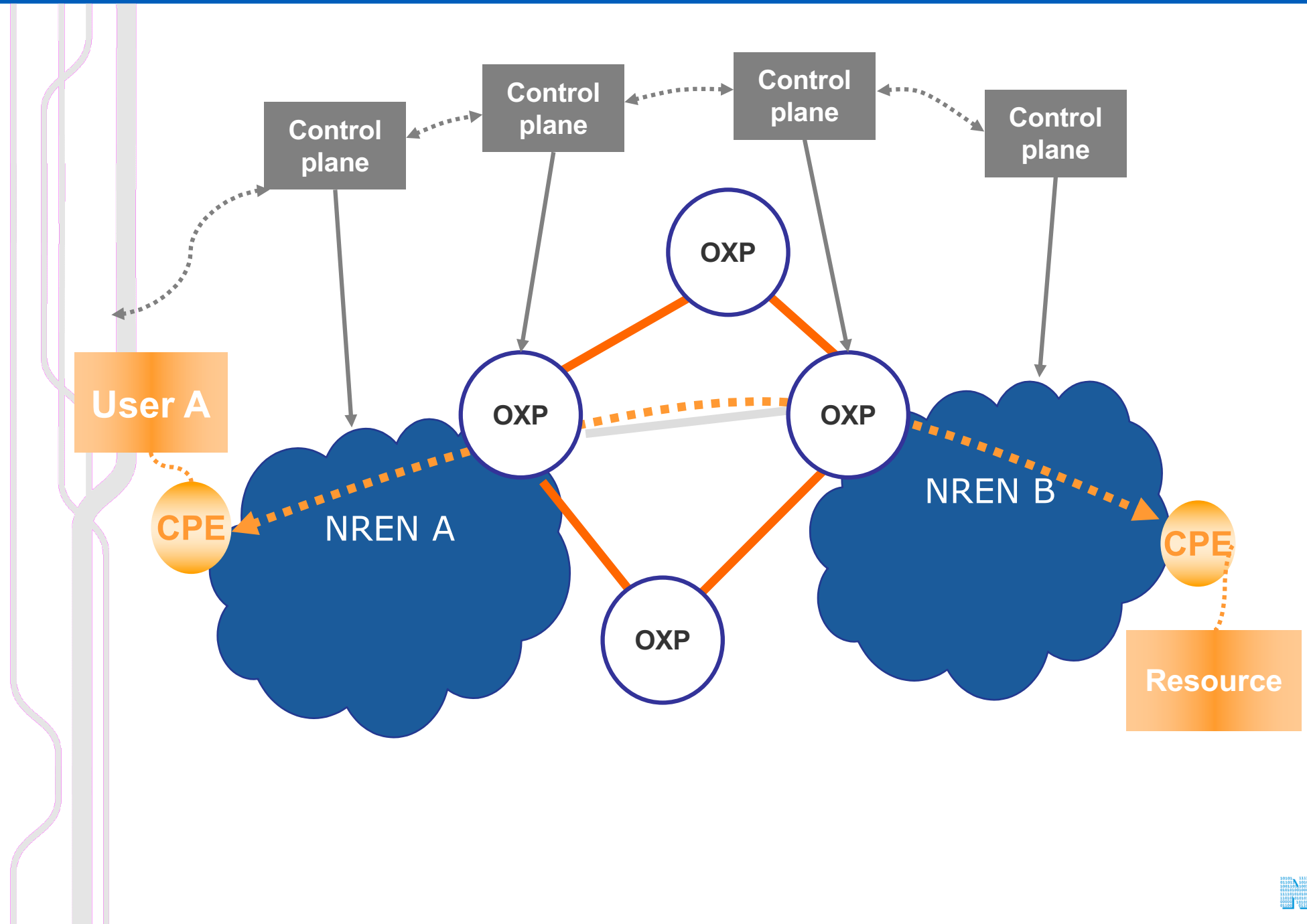




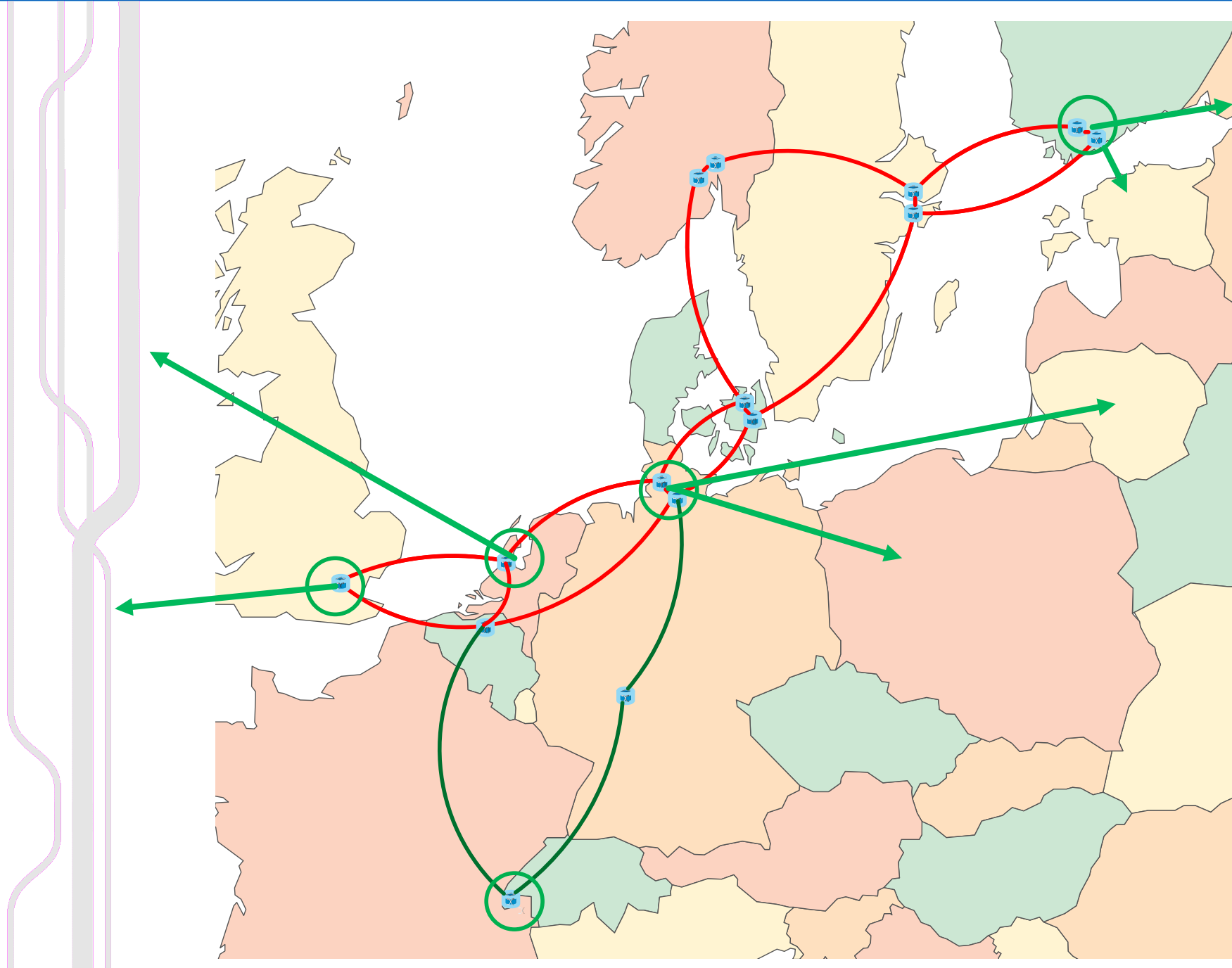


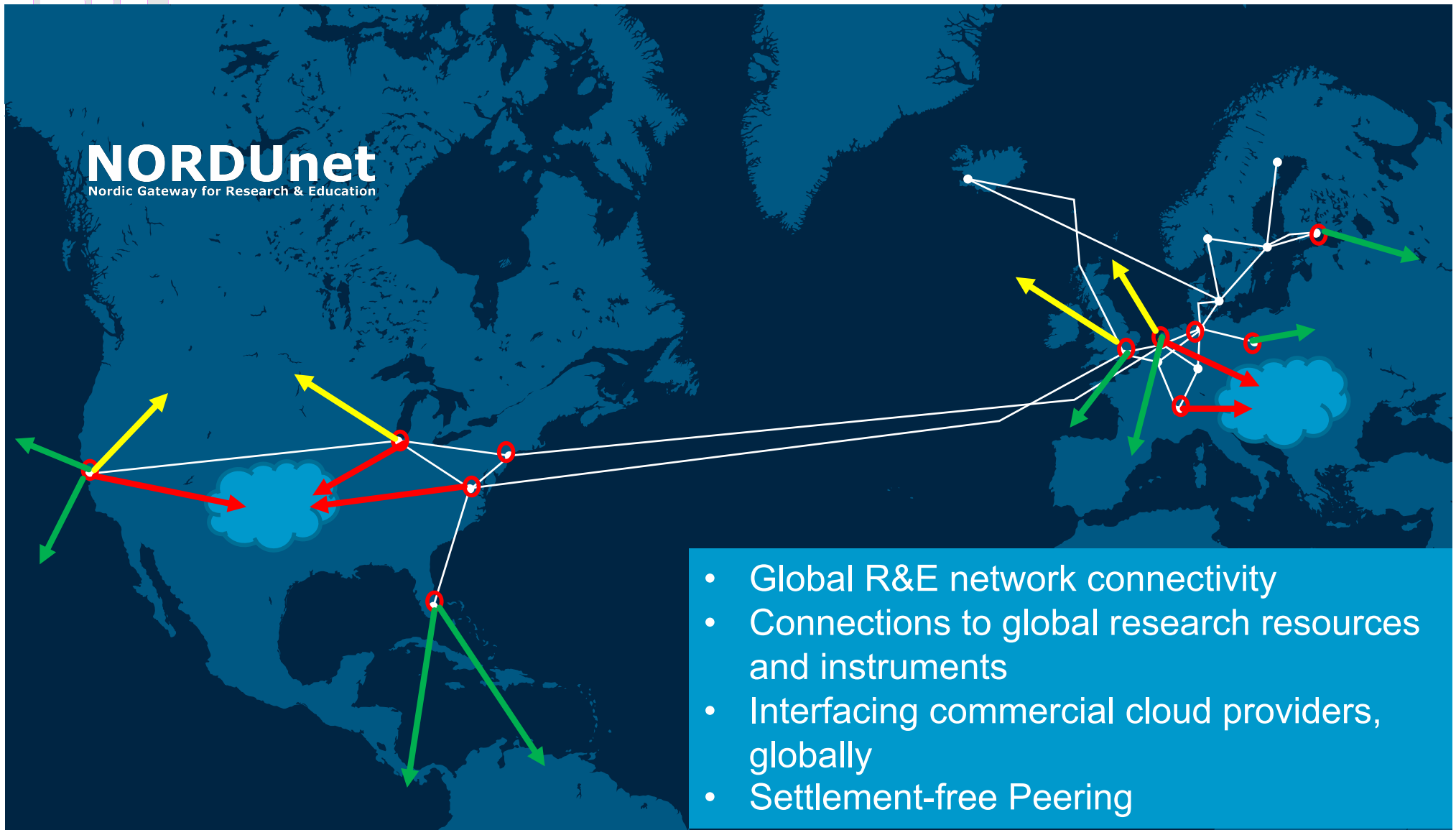


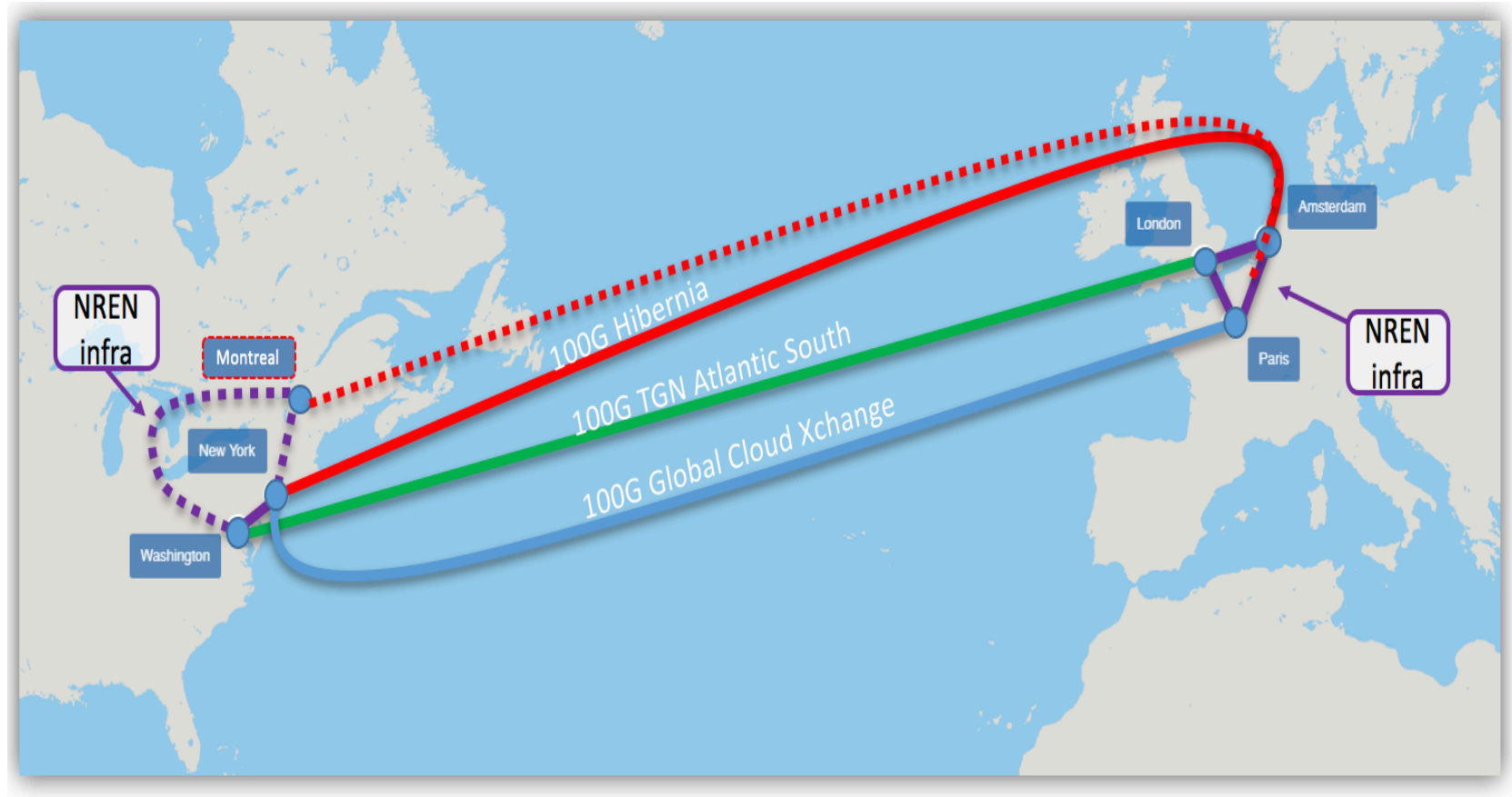
**AutoGOLE**



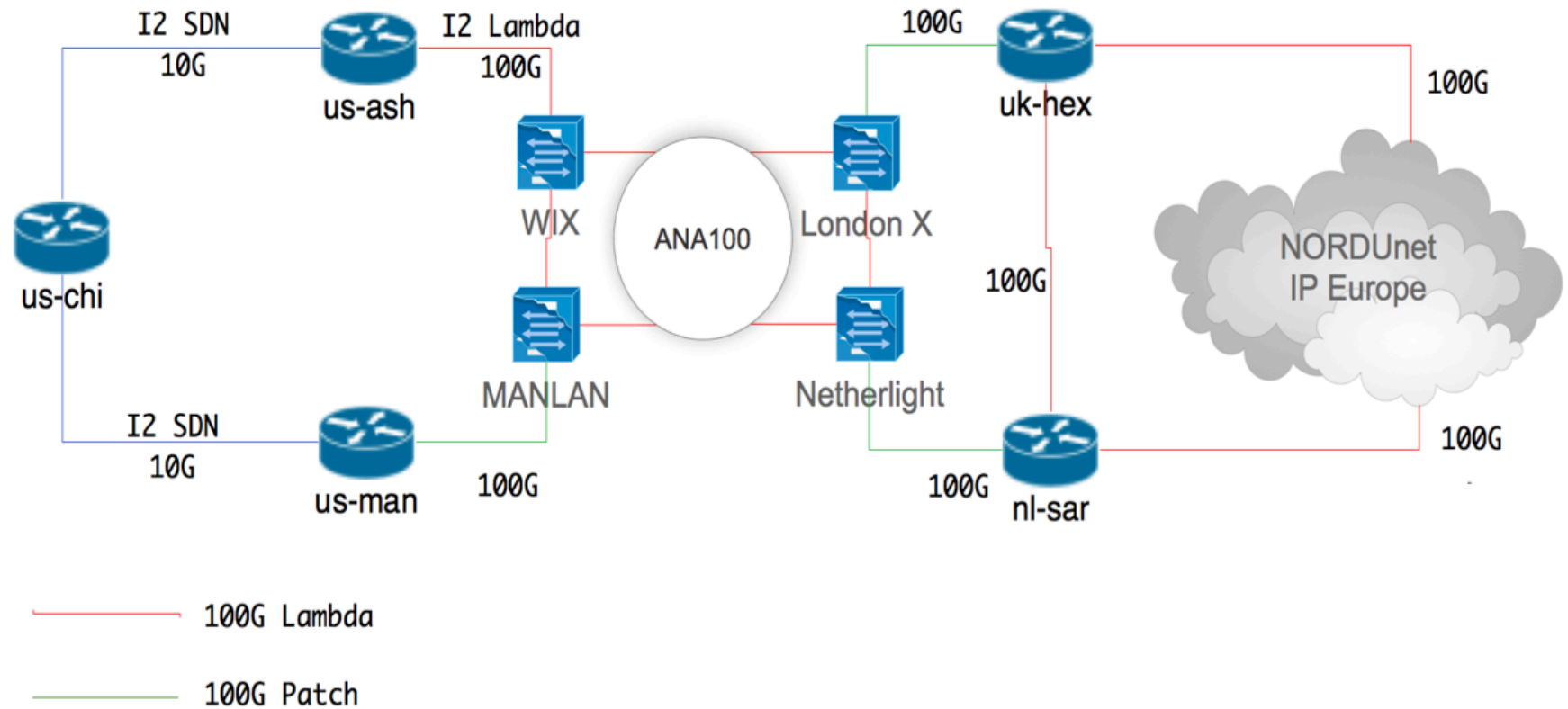




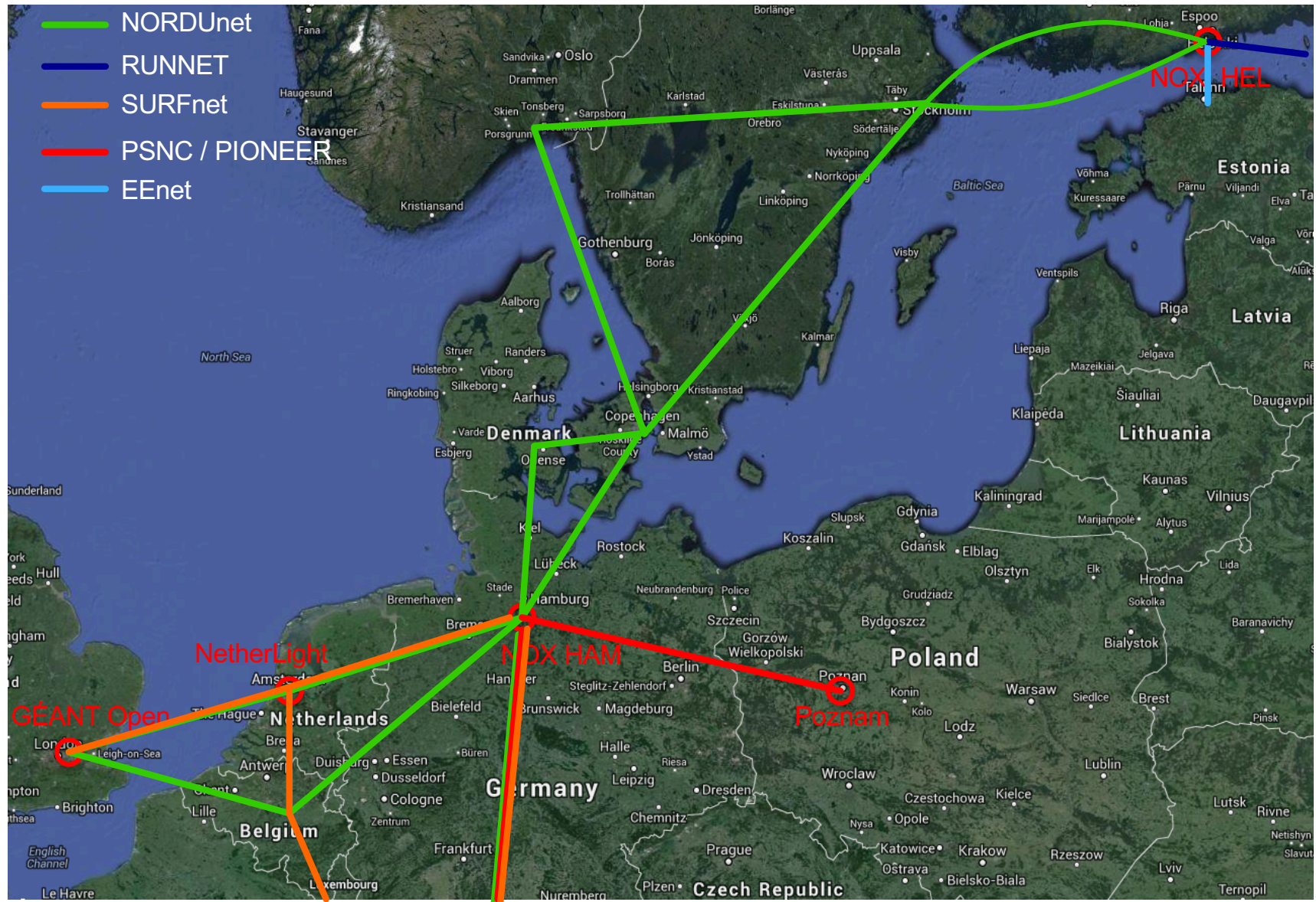






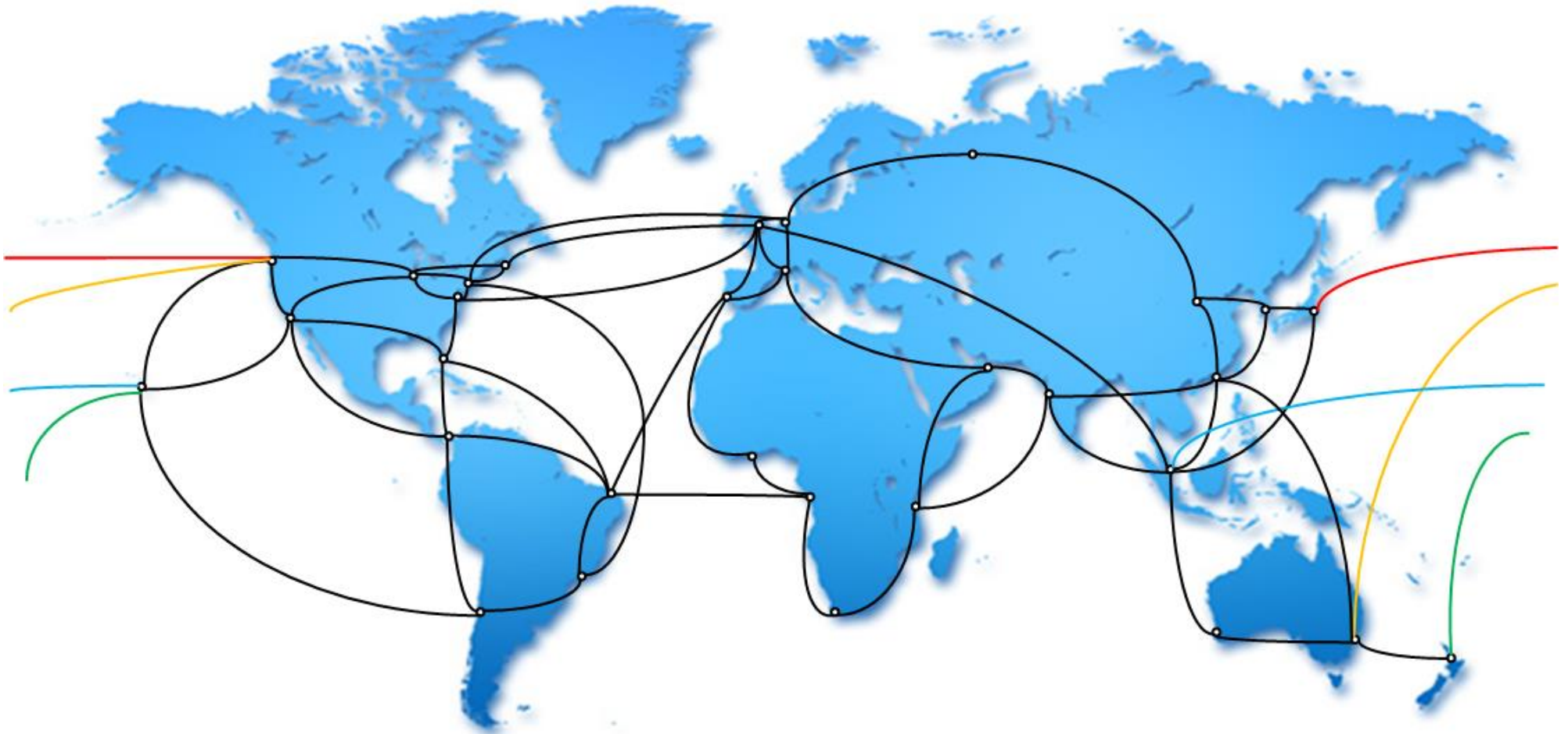


- Federated network centred on OXPs
- Federated Operations - dependable, trustworthy, safe - centred on OXPs



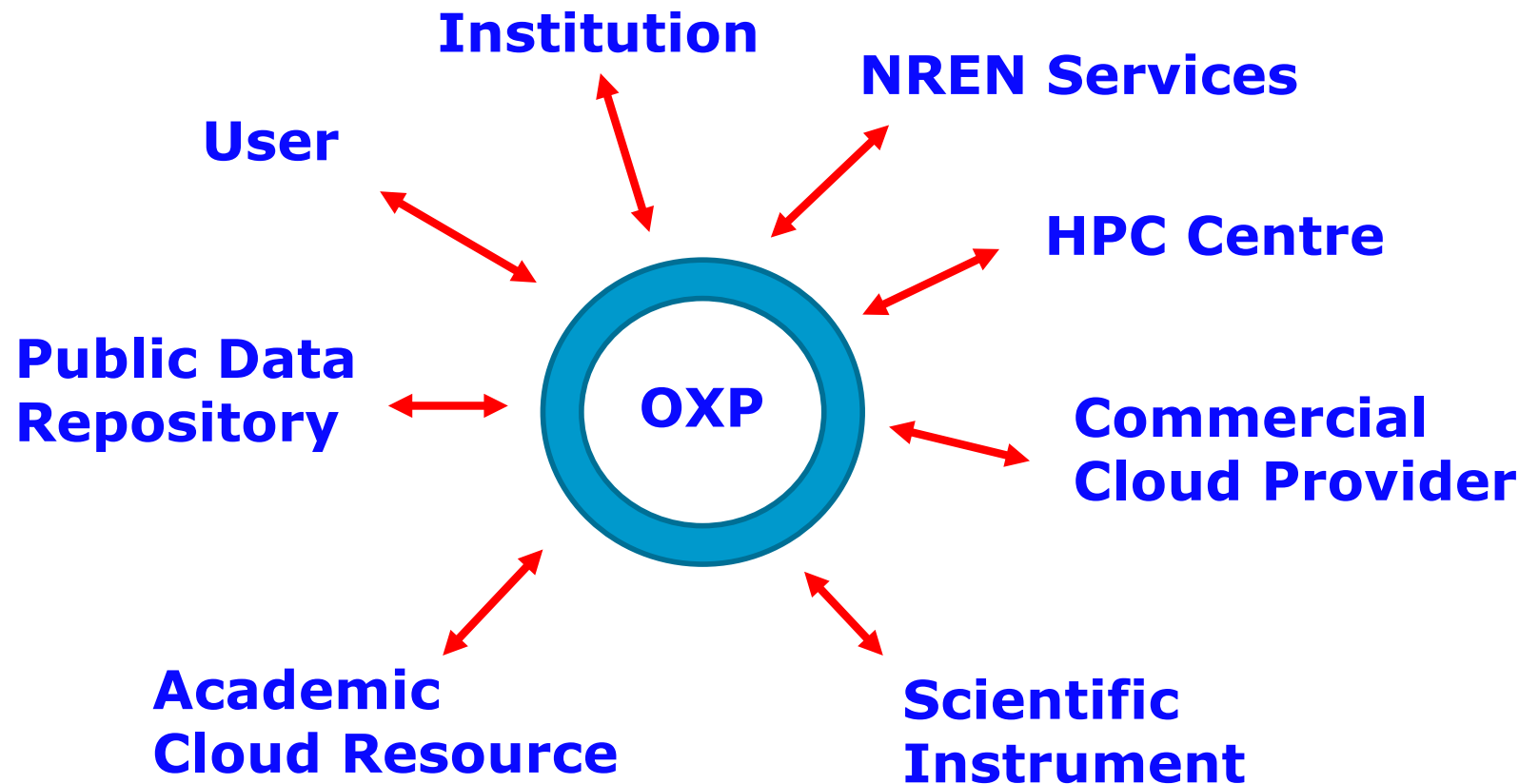


## **Effort of Global R&E Network Community**

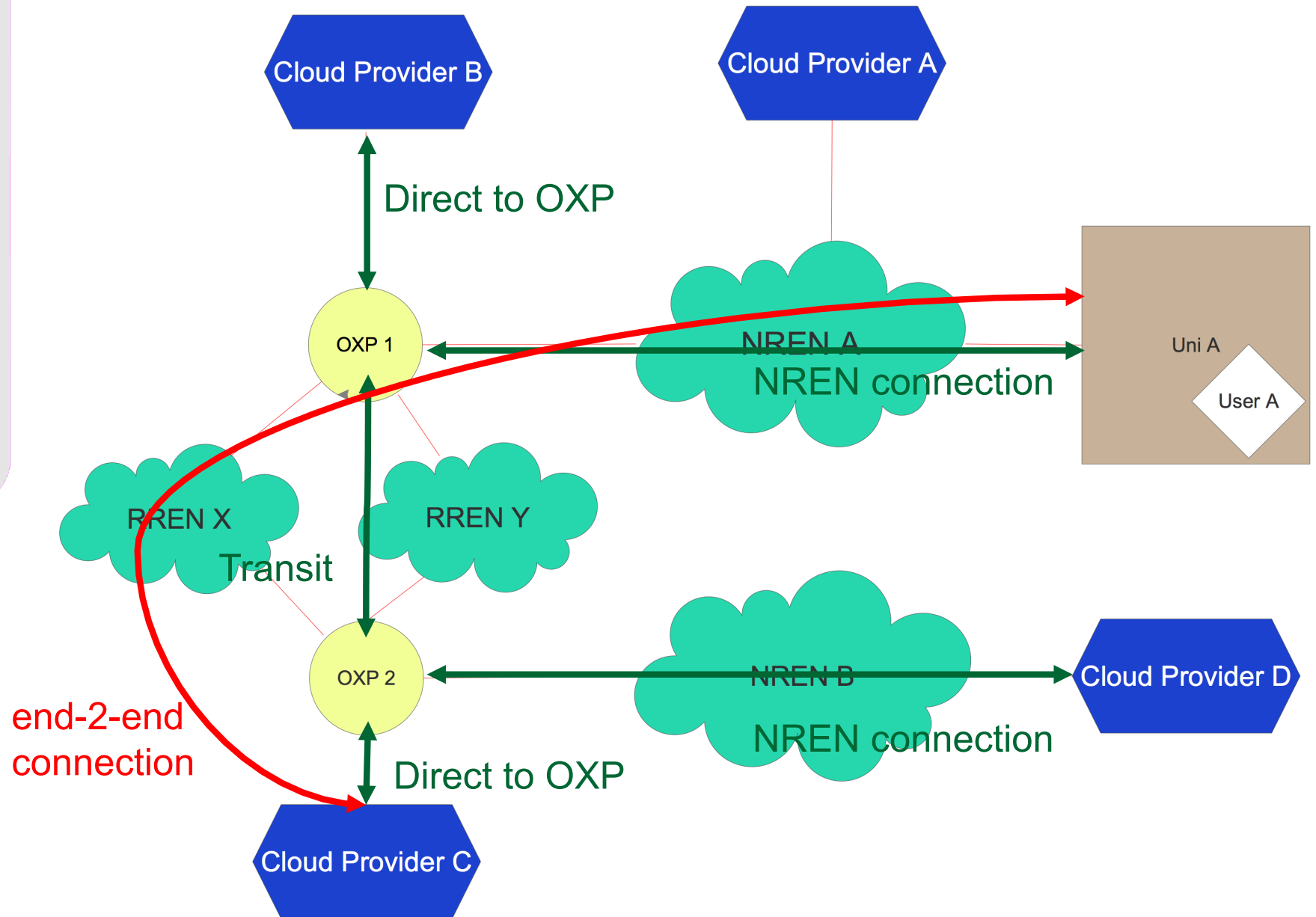


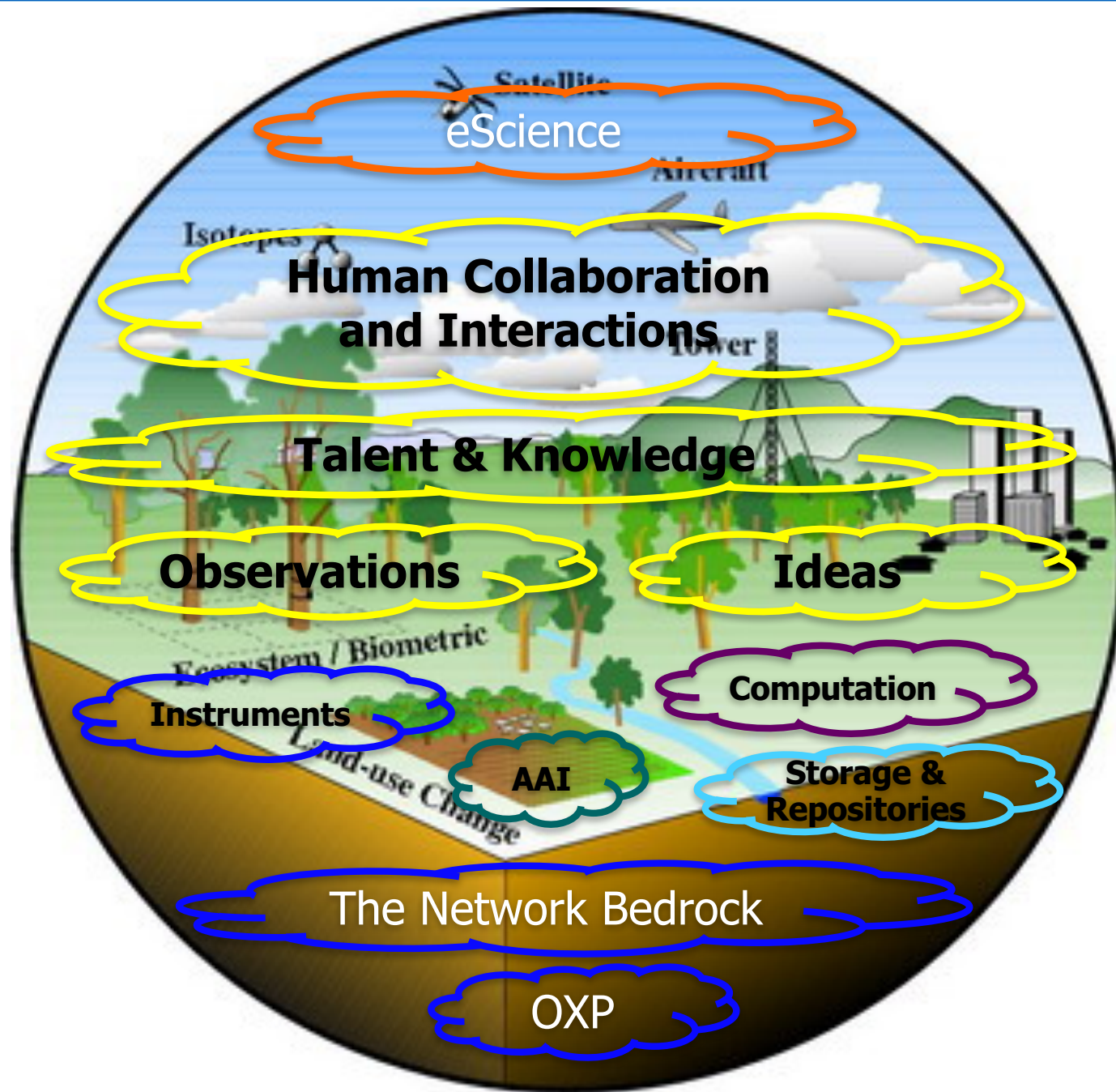
**Open Exchanges a Key Building Block**

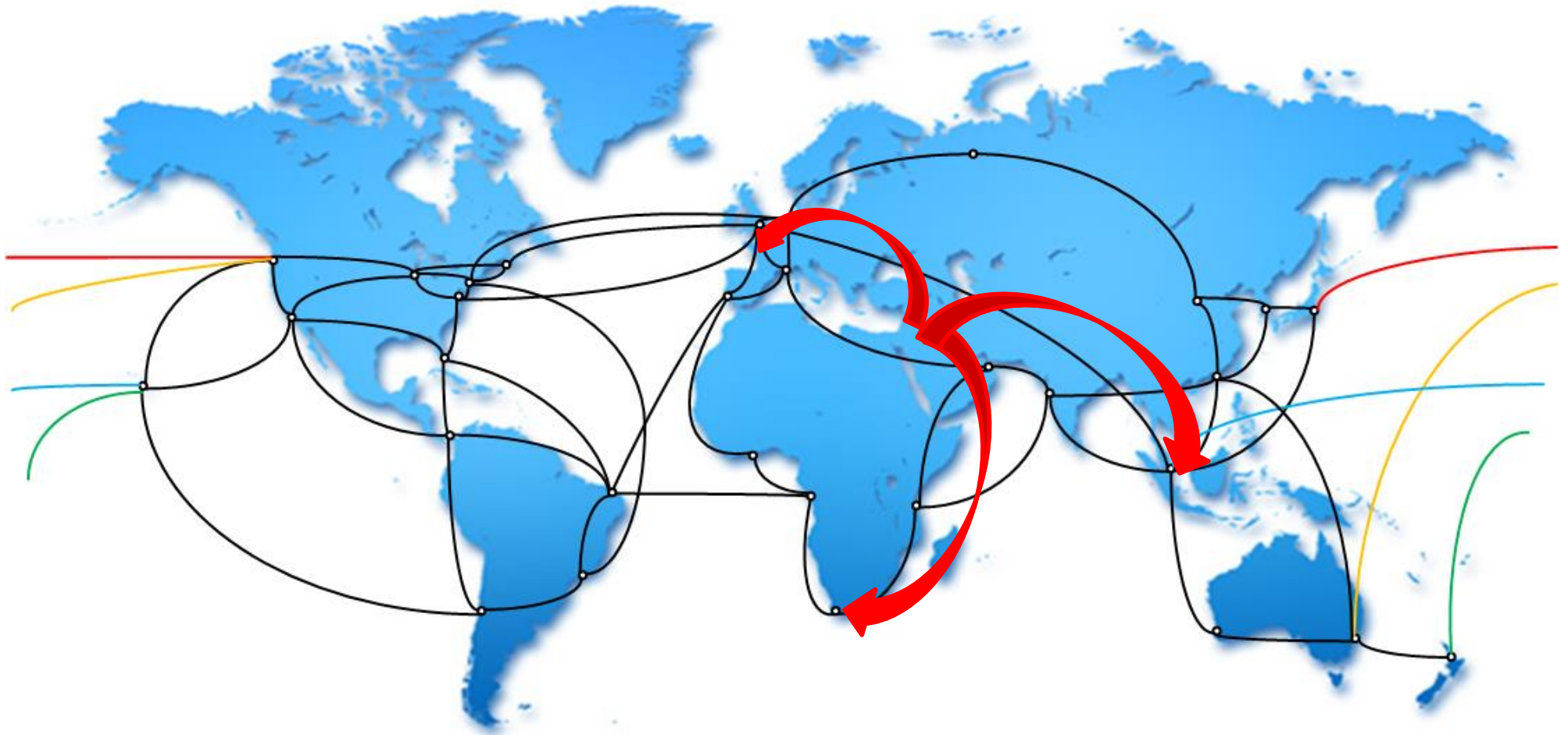




**Making it Ubiquitous**  
**Anyone – Anywhere – Any Time**







**Connecting the Region - Connecting the World**



**Thank You!**

The Nordic Gateway for  
Research & Education

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