

DEISA on Funet & NORDUnet

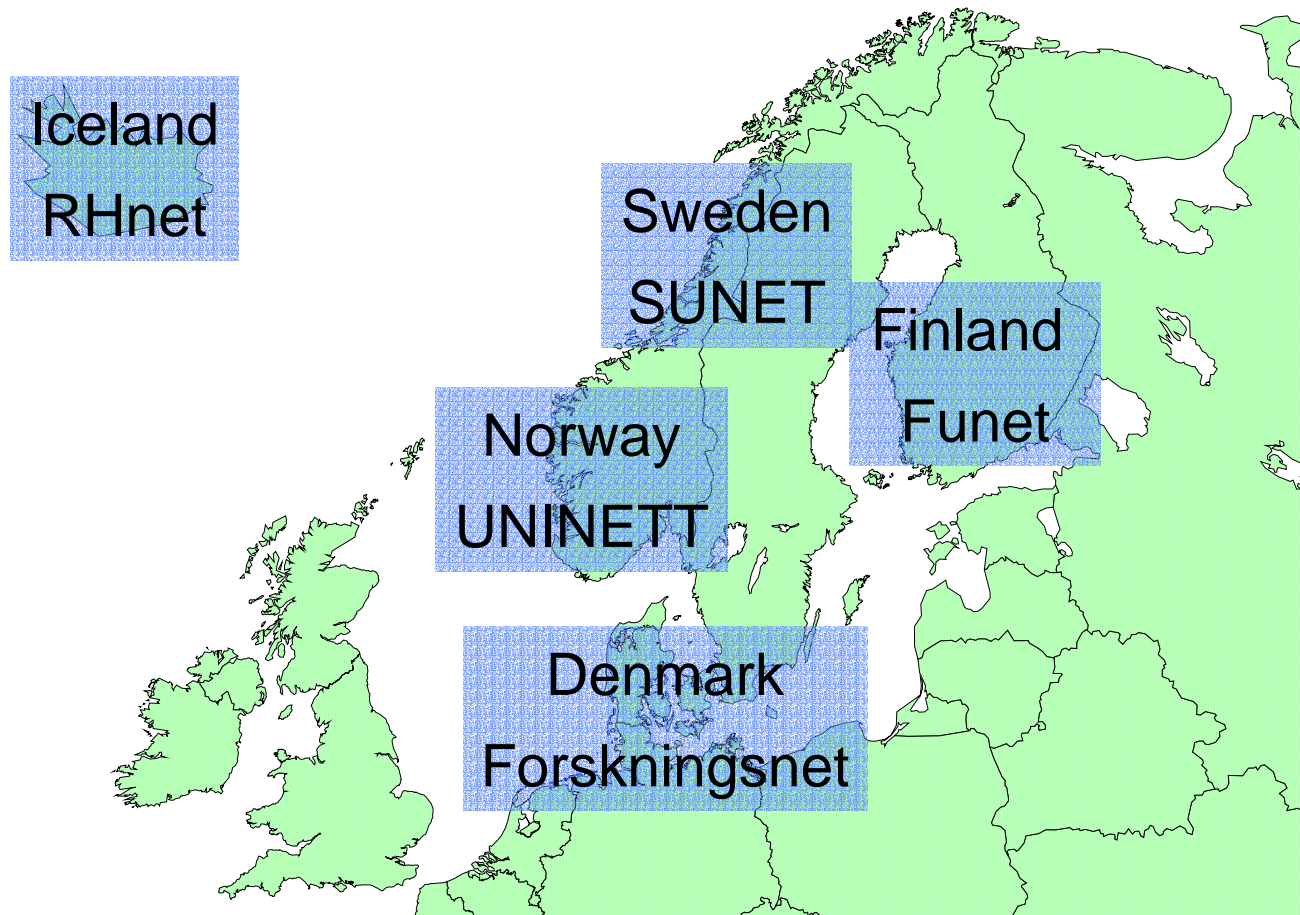
Lars Fischer, NORDUnet

Juha Oinonen, CSC

GEANT2 / DEISA coordination workshop

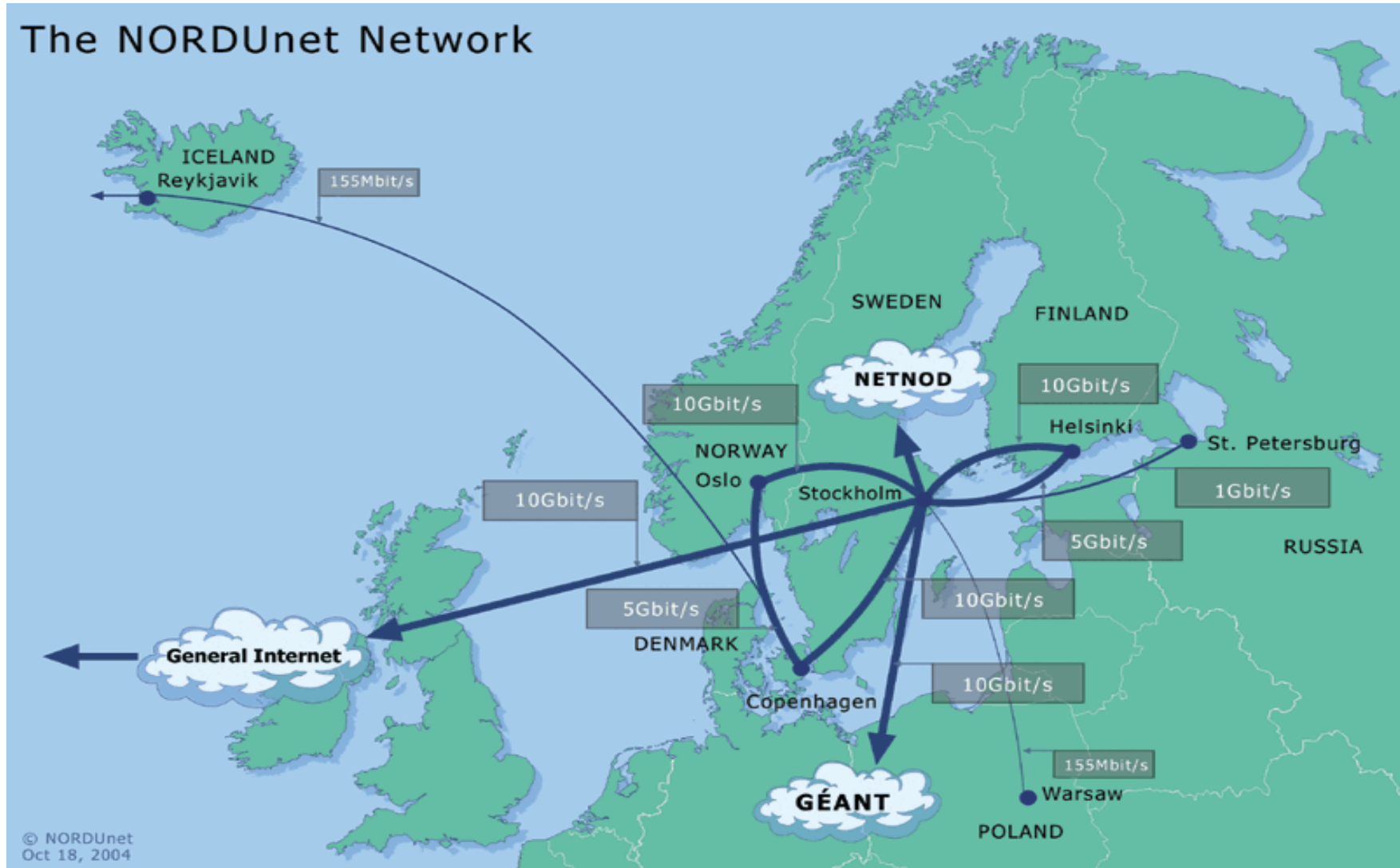
4 July 2005

NORDUnet



NORDUnet IP network

The NORDUnet Network



NorthernLight

- Currently provides GbE links to Nordic Capitals and Amsterdam
- Connects to GLIF community via NetherLight exchange in Amsterdam
- Will Connect to GEANT2 lambda service in Copenhagen from December 2005
- Helsinki PoP in same building as CSC DEISA site
- NorthernLight will be upgraded to a 10 GbE service on NORDUnet-owned DWDM equipment; Expected Launch 1. July 2006.



Current Network for DEISA at CSC

- Currently connected to FUNET shared IP
- Agreed to use Premium IP service through Funet, NORDUnet and GEANT shared IP networks. P-IP tagging done at Funet ingress point.
- Interfaces and capacity:
 - DEISA has a dedicated, non-resilient 1 Gbps link to Funet
 - Funet connects to NORDUnet at 10 Gbps
 - NORDUnet connects to GEANT (currently in Stockholm, from December 2005 in Copenhagen) at 10 Gbps
 - All networks resilient, expect for single GEANT PoP in Stockholm / Copenhagen

(Future) Network Options

- Options now (summer 2005)
 - NorthernLight GbE from CSC (DEISA site) to, say, DEISA site at SARA.
 - NorthernLight not resilient, only one path available.
 - Limited number of circuits available
- Options Q1 06
 - NorthernLight GbE from CSC (DEISA site) to GEANT2 PoP in Copenhagen, GEANT2 GbE from there to ?
 - NorthernLight not resilient, only one path available.
 - Limited number of circuits (Copenhagen-Helsinki) available
- Options Q3 06
 - NorthernLight GbE or 10 GbE from CSC to GEANT2 PoP in Copenhagen, GEANT2 GbE or 10 GbE from there to ?
 - More circuits possible
 - NorthernLight resilient