

POLAR-CONNECT

Nordic NREN
“Vision 2030”

DeiC conference
2022-10-26

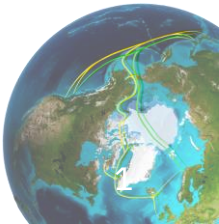
Valter Nordh

NORDUnet
Nordic Gateway for Research & Education





ABOUT NORDUNET





TOPICS

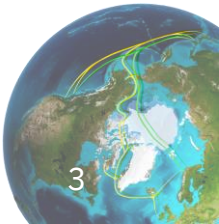
- Improved Connectivity
- Green Datacenters
- Climate and SMART cables

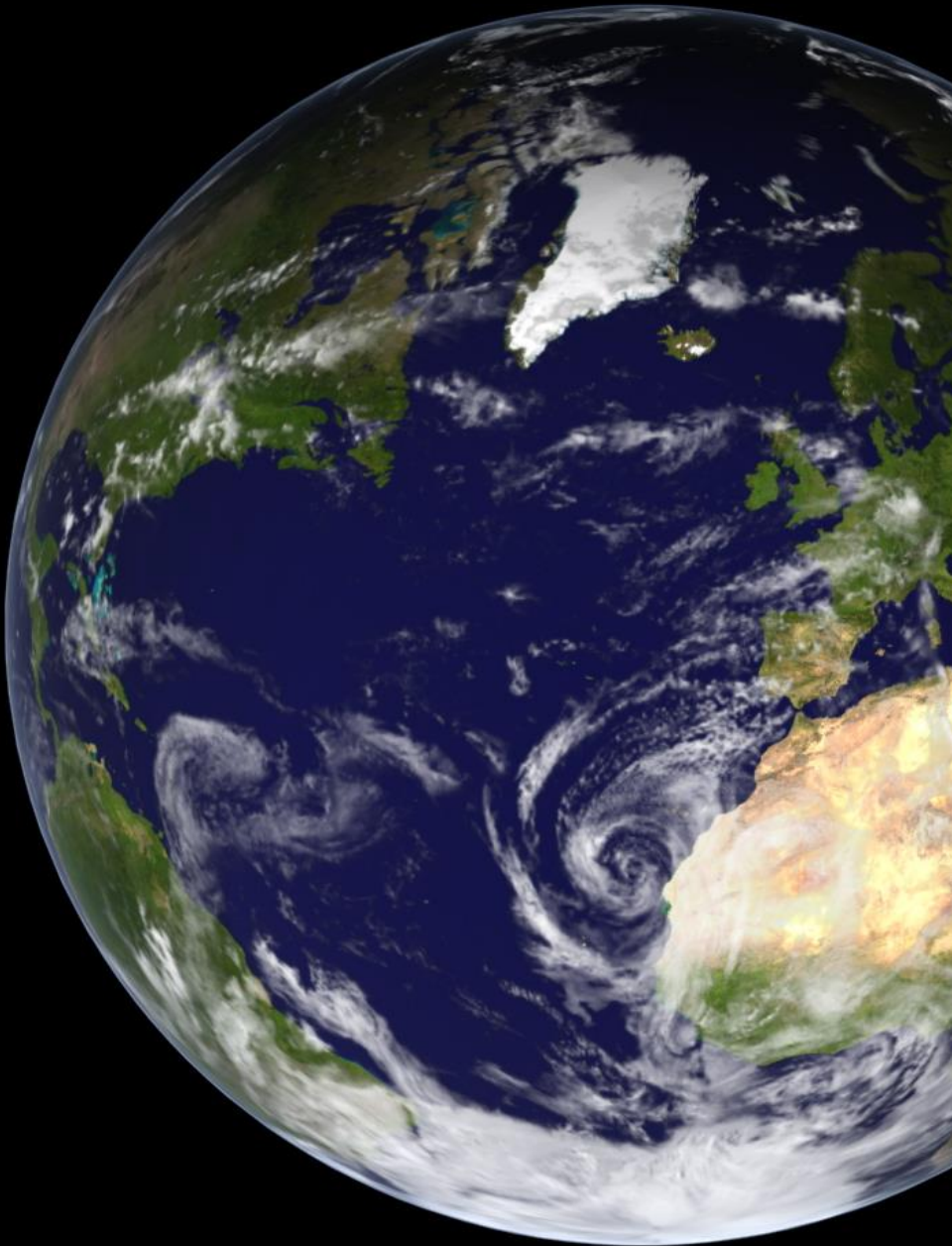




CONNECTIVITY

Increasing international collaboration and globalization drives an increasing demand on stable **and redundant** connectivity.





CONNECTIVITY

What is a subsea cable?





CONNECTIVITY

Multiple connections (cables) give redundancy and resilience.

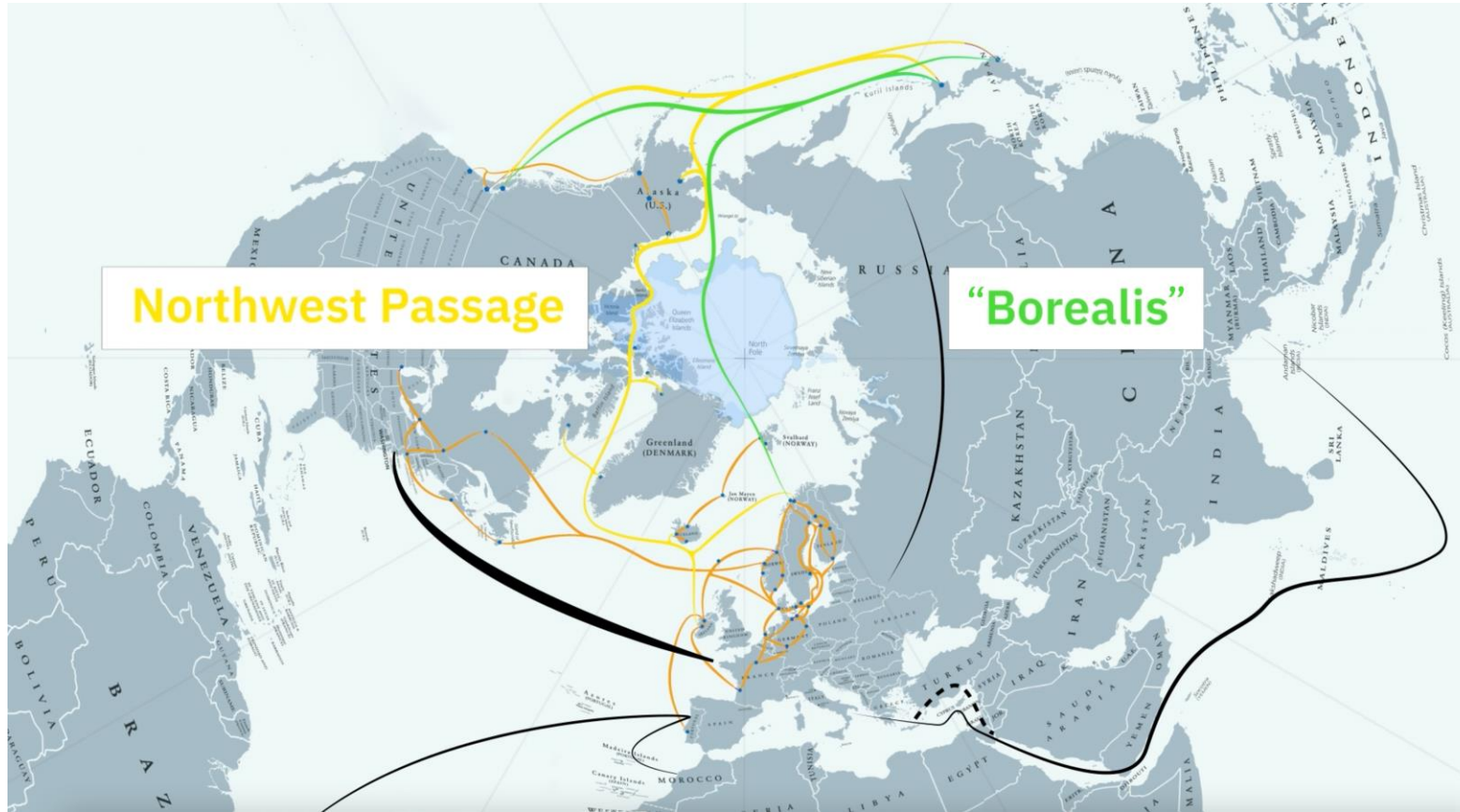


CONNECTIVITY



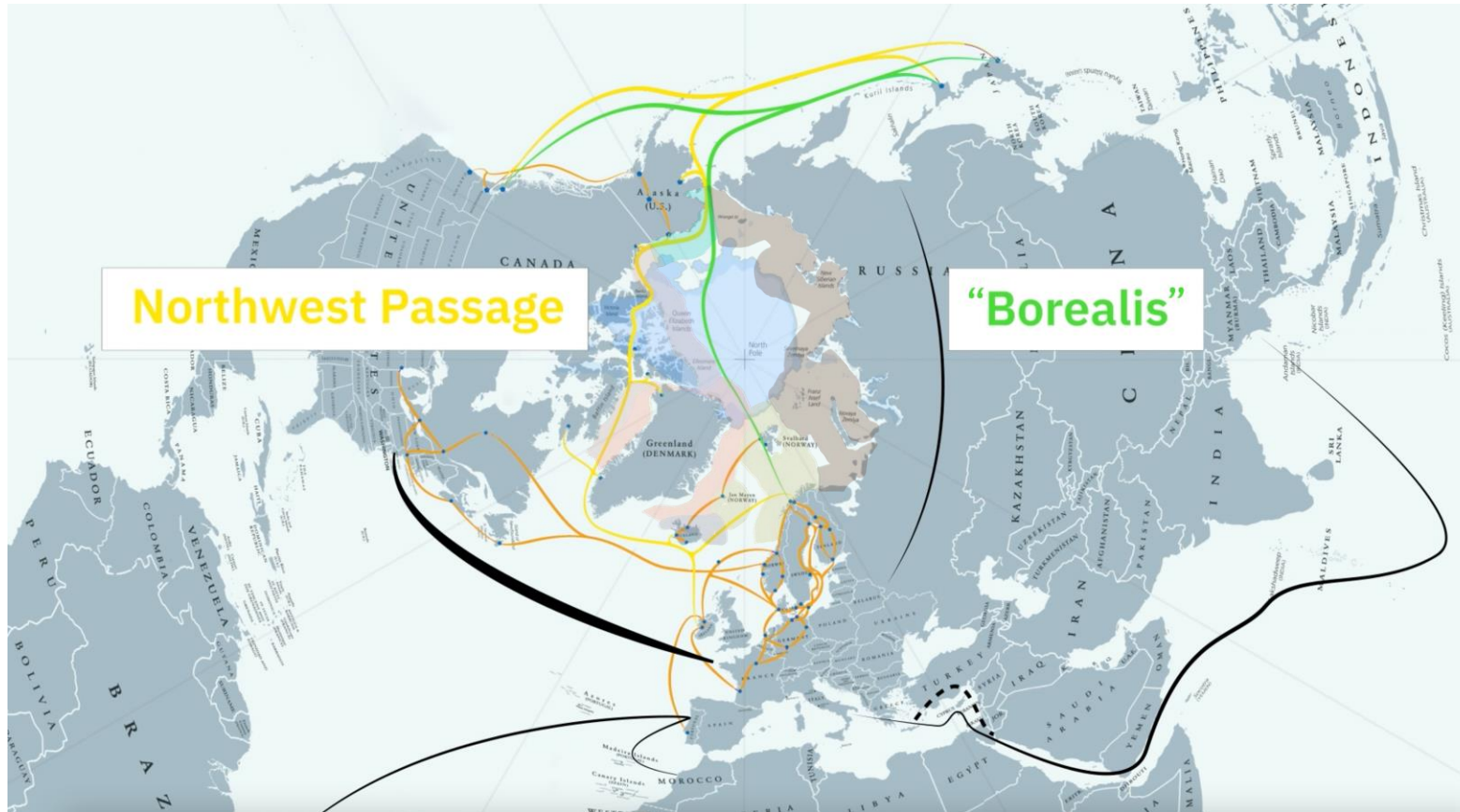
- **Complementary to existing Suez Area connections**
- Northern European fast track to Asia
- Strengthens and supports EU digital sovereignty
- Part of EU Global Data Gateways concept
- Geopolitical considerations

CONNECTIVITY



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CONNECTIVITY



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- **Geopolitical considerations**



GREEN DATACENTERS IN THE FAR NORTH



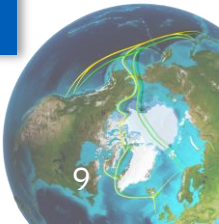
**LOCAL EXCESS ENERGY –
DUE TO LACK OF POWER
INFRASTRUCTURE**



**MORE EFFICIENT AND
CHEAPER TO MOVE
DATA THAN ENERGY**



**FREE COOLING AND
REUSE OF EXCESSIVE
HEAT**





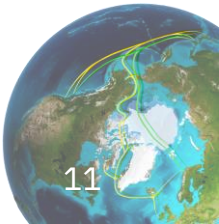
CLIMATE AND SMART CABLES

- Global warming
- Sea level change
- Ocean heat, circulation
- SMARTcables Technologies
 - Repeater + sensors
- Protecting/monitoring the cables themselves
- Supporting arctic and climate research



SUMMARY AND NEXT STEPS

- Looking for Improved Connectivity to Asia
- Long term, timeframe for sea-cable system years -> Vision 2030.
- Increased redundancy
- Cheaper to move data then electric power
- Awaiting results from CEF call



Thank you for your attention!

For more information: qvist@nordu.net

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