Nordic e-Infrastructure Collaboration ...and some opportunities

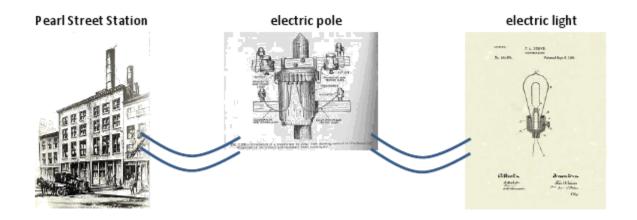
Gudmund Høst, NeIC Director

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NordForsk

Nordic e-Infrastructure Collaboration

Three stages of infrastructure development: 1. Electricity infrastructure: Precursor stage



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Nordic e-Infrastructure Collaboration

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2. Electricity infrastructure: Formation stage



3. Electricity infrastructure: Consolidation stage++





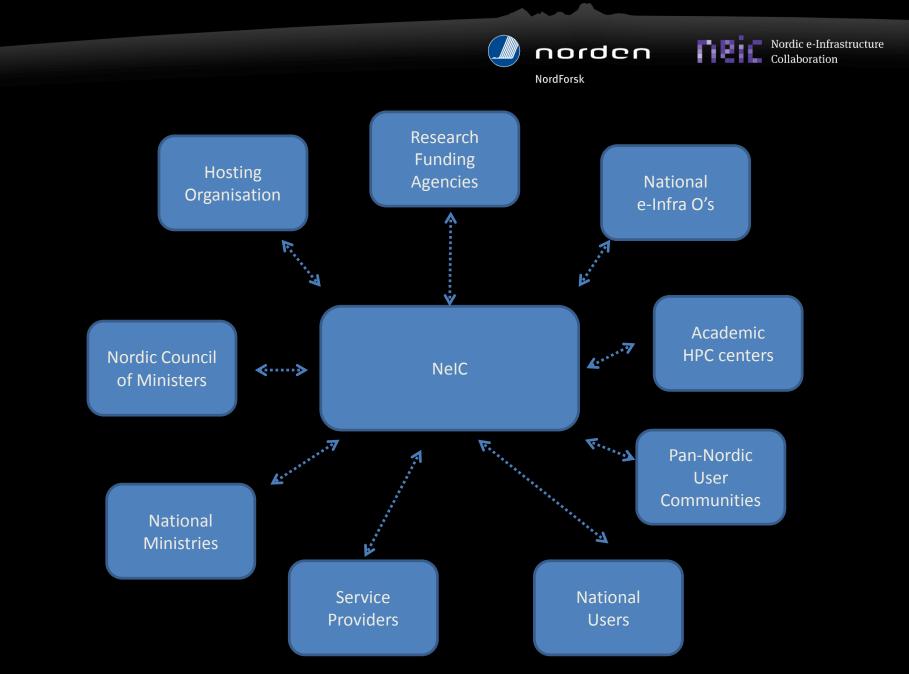
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The Nordics

- Many systems in the Nordics at the Precursor Stage
 - Large technical systems
 - Centrally (nationally) controlled
- NeIC can add value at the Formation Stage
 - Technology transfer between the Nordic countries and disciplines
 - Adaption to national conditions, giving technical variations plus social, cultural, organizational, legal, and financial adjustment
- ...and at the Consolidation Stage
 - Fostering development of generic *gateways* allowing systems to interoperate (resource allocation procedures, standards, ...)







Some Operational Principles

- Open and reliable
 - Activity initiation process
 - Collaboration model
- Priority to stakeholder engagement
 - Stakeholder roles
 - Systematic engagement

Motivated by providing *added value to researchers*, striving for *continuous improvement*

NelC's Collaborators

- National e-Infrastructure providers
- International research infrastructures

 Partners must have national formal role
- Nordic research communities
 - Ex. Nordic Centers of Excellence

Nordic dimension and added value is key

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Some Activities

- 1. Easy sharing of data B2Share Nordic
- 2. Sensitive data Tryggve
- 3. Federated cloud Glenna
- 4. Supporting physics at CERN with data processing services
- 5. Supporting "Nordic" ESFRI projects with e-Infrastructure services
- 6. Policy support for Nordic stakeholders



Two modes of project initiation

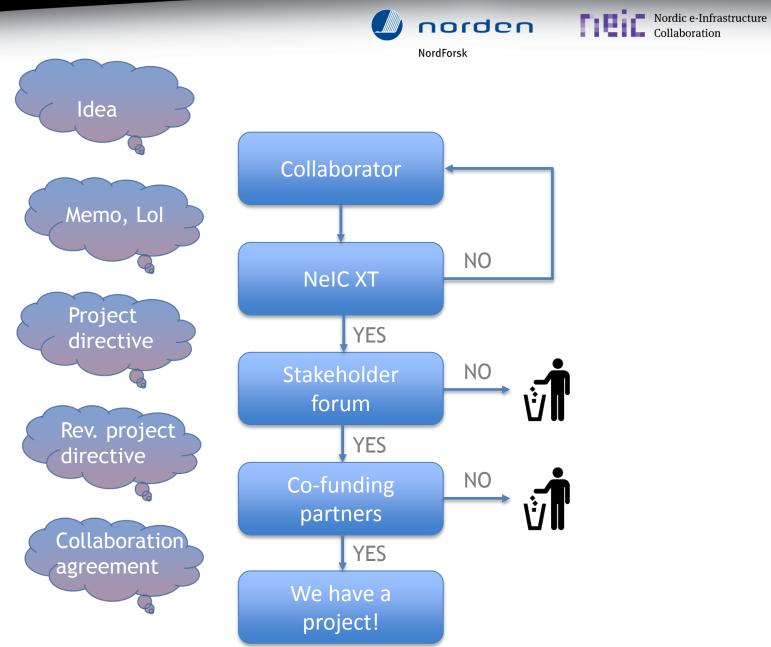
Top-down: — by research councils or e-infra providers

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Bottom-up: by research communities Nordic e-Infrastructure



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Collaboration model

Partner

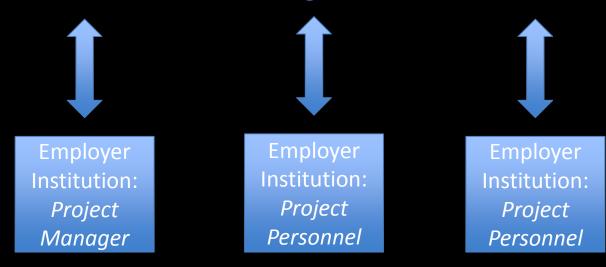


Partner

Partner

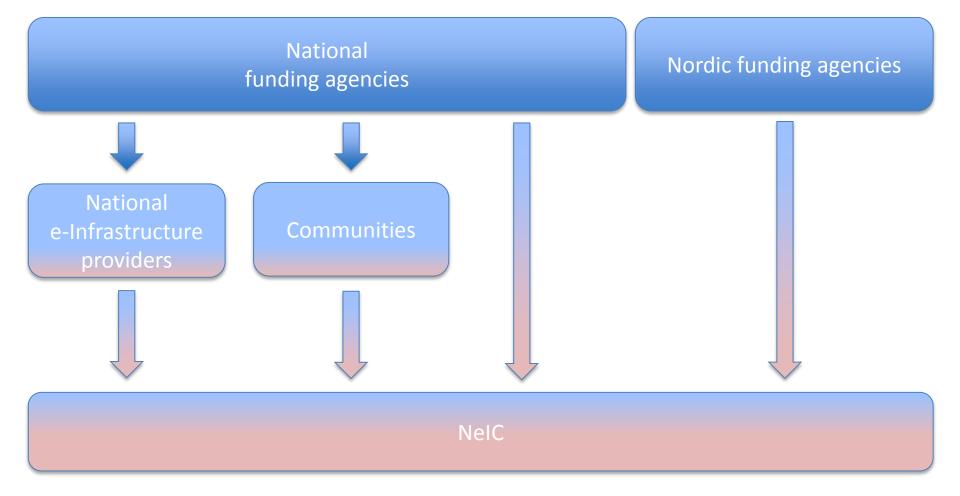
Service Agreements

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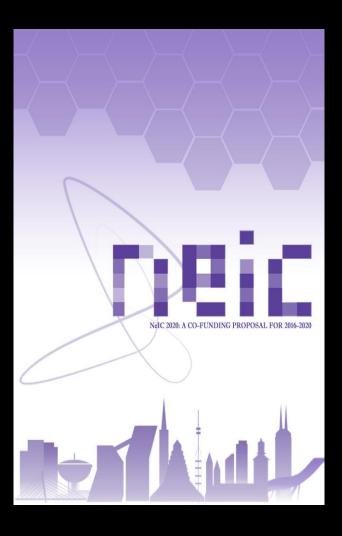
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Funding - Input stream



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NeIC 2016-2020 plan



• On request from funding agencies

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- In collaboration with e-Infra providers
- Input from Nordic communities
- Current and new initiatives

Nordic e-Infrastructure

Collaboration

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NeIC 2020 - Broad themes

1. Generic services

Cloud, Data, HPC, resource sharing

2. Bio-Medical Sciences

Services for sensitive data, ...

3. Nordic Tier-1

Joint operations towards CERN

- 4. Environment and Climate Science Biodiversity, climate modeling,
- 5. Emerging Communities

Computational linguistics (2 FTE/yr), ...

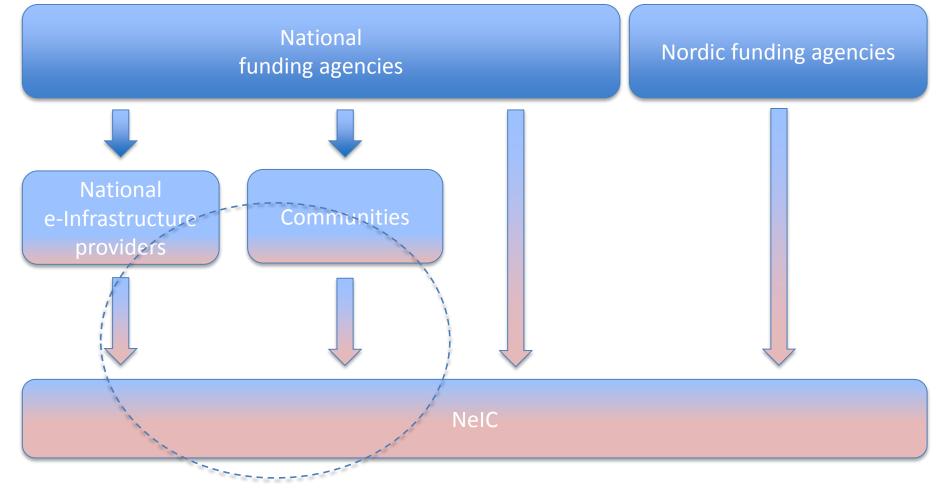
6. Integrating activities

Security, Accounting, Networking (meetings), Training

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Same co-funding model





NeIC All Hands 27-30 Jan. 2015, Skeikampen