

Nordic and Baltic countries

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Players

- **Nordic Countries and NDGF**
 - Denmark
 - Finland
 - Norway
 - Sweden
- **Baltic Countries**
 - Estonia
 - Latvia
 - Lithuania

What is NDGF?

- Was created as distributed Tier 1 center for the Nordics
 - Denmark, Finland, Norway, Sweden
- Collaborative effort
 - “The motivation for NDGF is to ensure that researchers in the Nordic countries can create and participate in computational challenges of scope and size unreachable by the national research groups alone.”

During EGEEIII

- NDGF operations covered both T1 and NE ROC (Nordics) operations duties
 - Teams from NDGF and NE ROC (Nordics) shared operational tasks
 - Operations also covered the Baltic II grid project

EGI era

- Nordic Countries are each their own NGI
- Baltic Grid II Project finished
 - Baltic countries are their own NGI
- NDGF-T1 spans 4 NGIs
 - How to distribute resources to each NGI in operations but keep the distributed nature of the T1?
 - How to manage operations from this perspective?
 - How to distribute tasks in EGI
 - Lots of hair pulling involved!

Creation of an NDGF NGI

- T1 center is a central part of the Nordic commitment to LHC
 - It would be a pity to break something that works
- Structure of EGI monitoring tools is incompatible with the Nordic model
 - You can't share a resource across multiple NGIs in e.g. GOCDDB or the Operations Dashboard
- It's a technical entity ... so ...

Structure of NDGF NGI

- Consists of
 - Nordic T1 distributed resources
 - Former EGEE monitored resources from the Nordic countries that the NGI was to have under the NDGF umbrella
 - Former EGEE monitored resources from the Baltic countries
- Does not include National resources in the Nordics

NDGF operations in EGI

- **NDGF == NGI**
 - Technical organisation for ease of use of EGI tools
- **One team – one set of duties**
 - Team comprised of operations support from each Nordic NGI
 - More efficient – and staff are already familiar with the system
 - No distinction between NDGF OoD and ROD duties
 - **Only referred to as OoD**

Why does it work?

DISTRIBUTED == CO-OPERATION

- Group dynamics is good
 - People are friendly, collaborative, supportive
 - Communications involves humour
- Nordic countries are small individually
 - Present a larger user base and resource collectively
- Common cultural background
 - Helps with building a community
 - Eases cross-cultural lines

Nordic NGIs

Each Nordic country still has its own NGI

- Facilitate National resources that currently don't fall under the NDGF-T1 umbrella
- Allows for maximum flexibility
- Buys Nordic countries time to organise their resources
 - **No urgency to create resource face to EGI, and NDGF covers this for now**

NGI interaction

- Each Nordic NGI and NDGF will have
 - NGI manager
 - NGI operations manager
- Close dialogue and interaction between all parties
 - Good collaboration
 - Possibility of regional representation through proxy because of this

Baltic Countries

- Will (eventually) have own NGI structures
 - Fewer resources than the Nordics
 - **Less available staff for separate operations**
 - Currently convenient to keep their operations monitoring under the NDGF umbrella
 - **Only possible by including them in the NDGF NGI**
 - Positive communication channels

Time lines

- **NDGF NGI**
 - In progress – hope to be completed before July
- **Nordic NGIs**
 - Next NGI to be created will be Finland
 - Hope to follow with Sweden, then Norway and Denmark
- **Baltic NGIs**
 - Needs some dialogue before they can be started.

QUESTIONS?