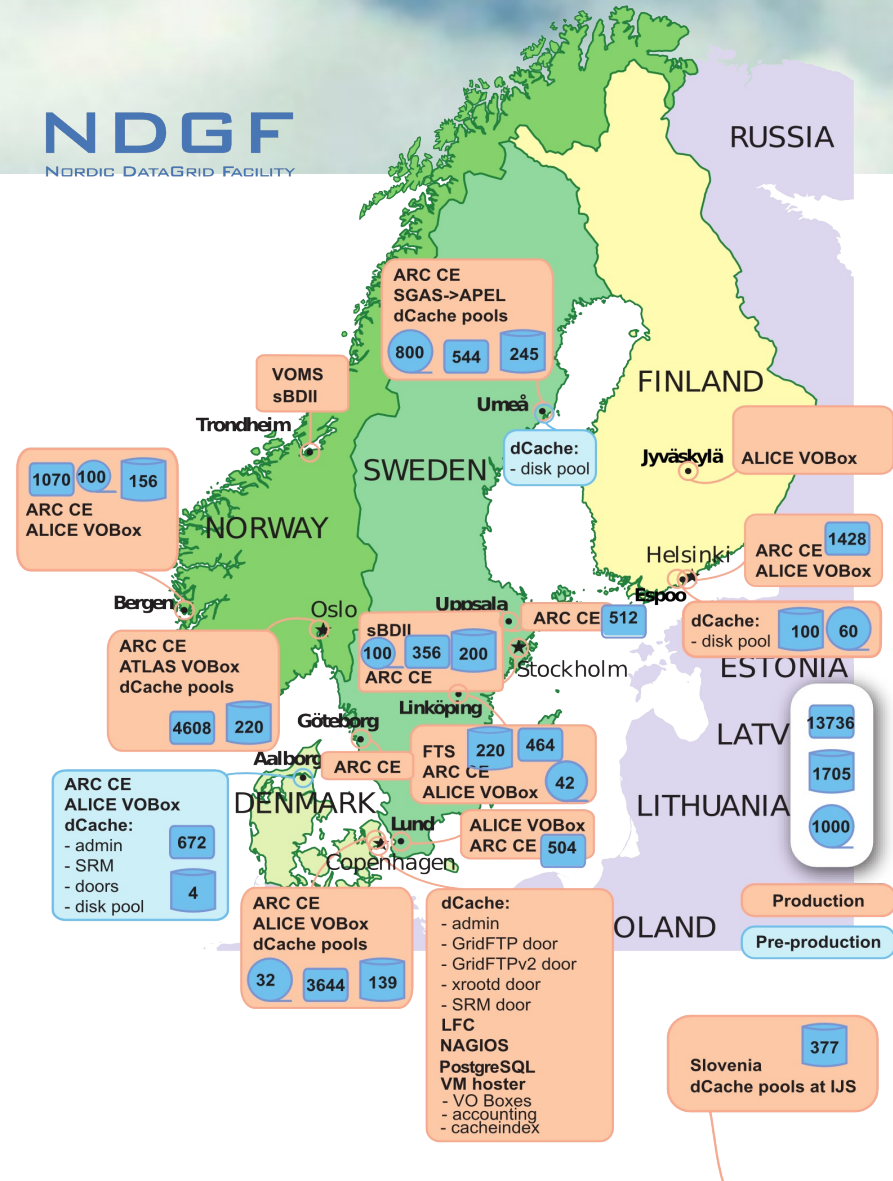




NDGF Site Report

Mattias Wadenstein
Hepix 2012 Spring Meeting
2012-04-22, Prague

- NDGF is a distributed site
- Most of the big HPC centers in Norway, Sweden, Finland and Denmark
- Tier1 storage at 7
 - Plus IJS in Slovenia
- 2010 Numbers
 - CPU is total cpu, not WLCG allocated

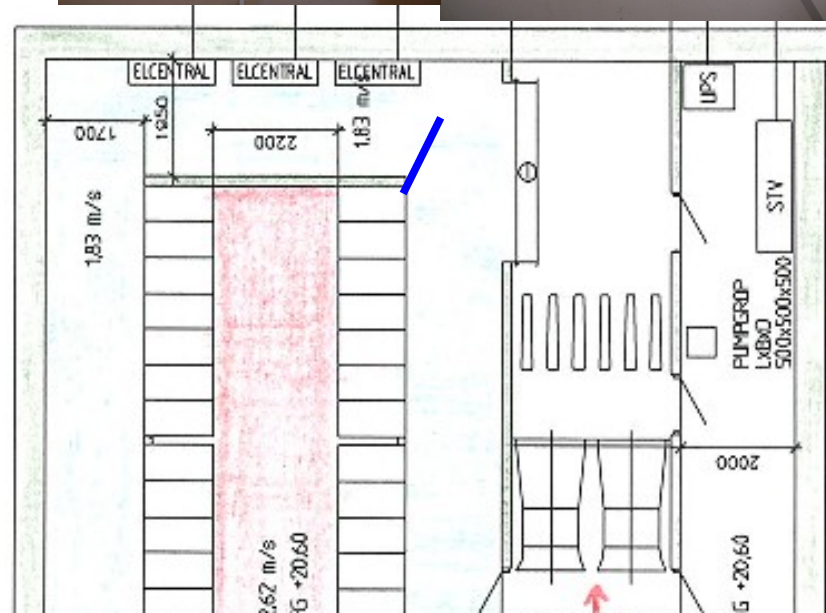


- NDGF is the LHC Tier1 activity at NeIC
 - Nordic e-Infrastructure Collaboration
 - NeIC hosted by Nordforsk
 - NeIC must/should/may have other activities
 - Director of NeIC starting work at August 1st
- Much smaller than previously
 - Some critical operations staff filled
 - Expect to hire as soon as director is in office
 - I'm now Technical Manager of the Tier1

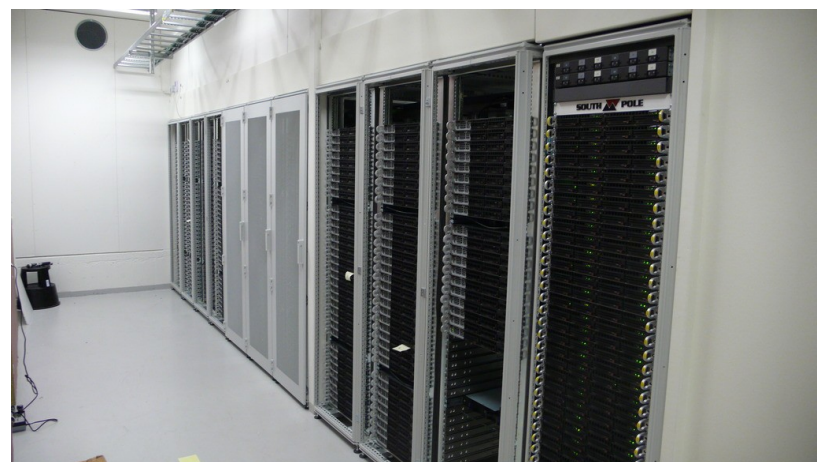
- HPC2N machine room update
- UiO new cluster update
- NSC update

HPC2N new machine room

- “As seen on HEPiX”
- New cluster installed
 - About 25kW per rack
 - Moderate ΔT – 35-40°C in hot isle
- Needed an air flow control module
 - Balance between the two cold isles



HPC2N cluster install



- Ritsem
- From Ubuntu 8.04
 - Torque and Maui
- To Ubuntu 10.04
 - Slurm
 - Memory enforcement on resident by means of cgroups – a small per-job swap and then OoM



OSLO, Norway, March 30 -- The University of Oslo (UiO) and MEGWARE Computer Vertrieb und Service GmbH have signed a contract for a new HPC resource to be installed at the University's central IT department (USIT). The coming system, named Abel after the famous Norwegian mathematician, will have an aggregated theoretical peak performance of nearly 260 TFLOPS, and be geared towards a wide range of research with demanding data handling applications.

- One with 1200 nodes
 - for general academic use
- One with 240 nodes
 - for weather and climate research
- One with 72 nodes
 - for SAAB to calculate how to build aircrafts
- First part of deliveries are currently expected mid-May.
- All are HP SL230s, with 16 cores of Intel Xeon Sandy Bridge.
- Interconnect is Mellanox FDR infiniband.

- NSC is also building a new computer room.
- Originally planned to already be finished, but delayed by over a year.
- Will be finished next year



Questions?