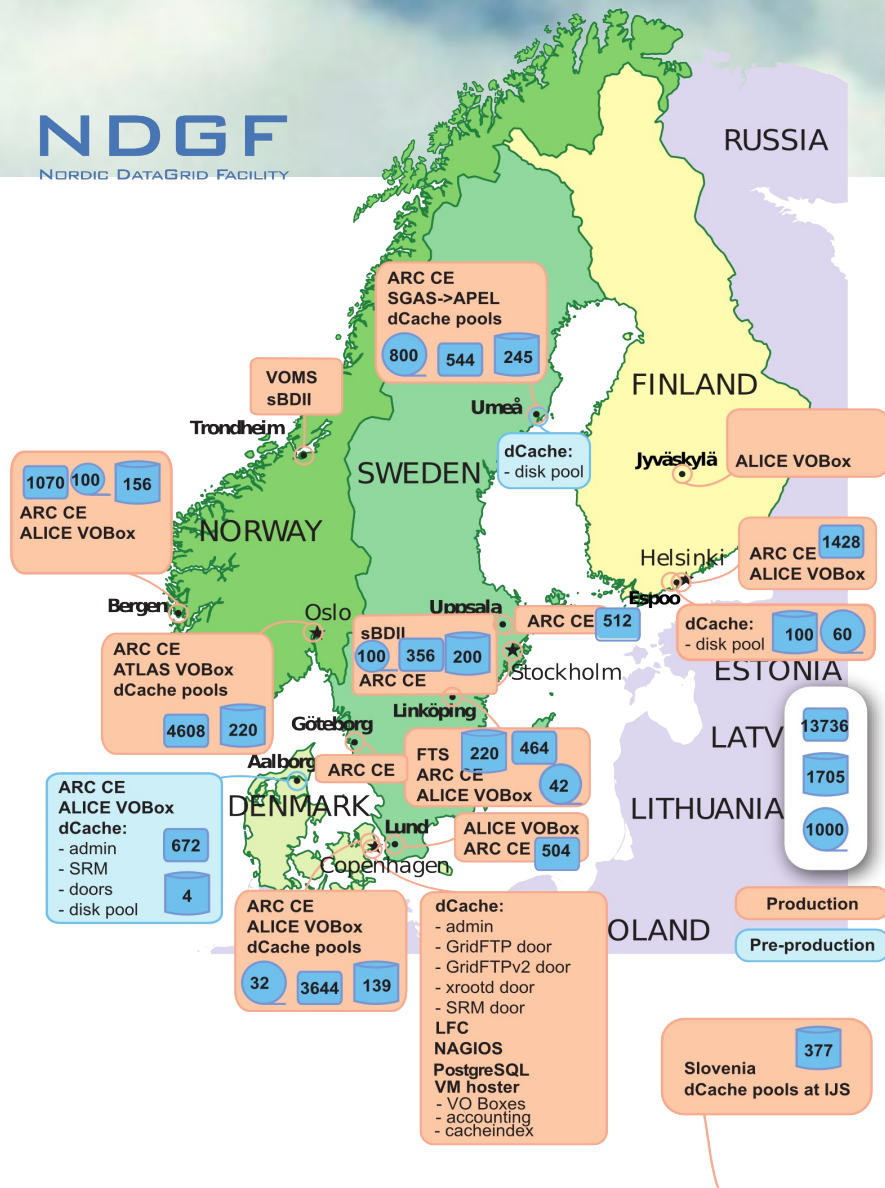


A decorative graphic on the left side of the slide, consisting of several white lines of varying thicknesses that form a vertical, abstract shape resembling a stylized letter 'L' or a series of connected loops.

NDGF Site Report

Mattias Wadenstein
Hepix 2011 Spring Meeting
2011-05-03, Darmstadt

- 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 interim organisation, same as previous years
 - Project hosted by NorduNet A/S
- Should become own legal entity
 - Paperwork, acts of parliament, blahblah, etc
- NDGF now smaller than previously
 - Less development, ARC mostly in EMI
 - Release of ARC 1.0 ~now!
 - Most operations folded into EGI/NGI stuff

ATLAS Grid Monitor

2011-05-02 CEST 11:02:44



Processes: ■ Grid ■ Local

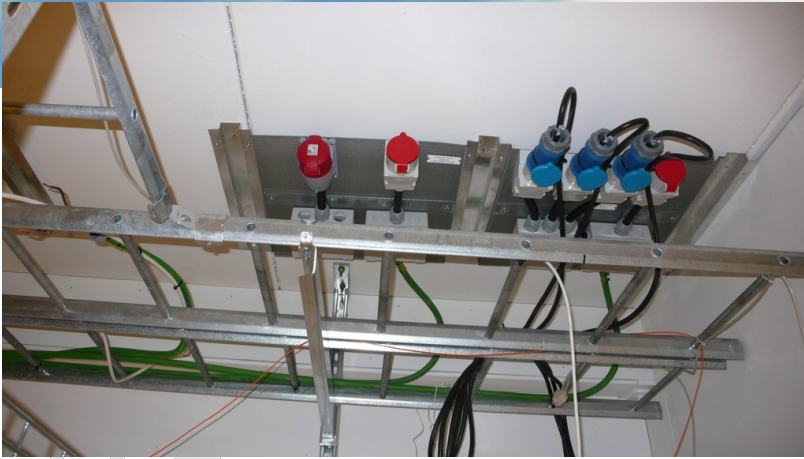
Country	Site	CPUs	Load (processes: Grid+local)	Queueing
Denmark	Steno Tier 1 (DCSC/KU)	3616	■ 524+1969 ■	1104+0
	Tier1 (BCCS/UiB)	364	■ 0+360	0+18
Norway	Titan A (UiO/USIT)	4644	■ 551+2910 ■	143+133
	Titan C (UiO/USIT)	4644	■ 0+3456	0+141
Slovenia	Arnes	288	■ 288+0	141+0
	SiGNET	1114	■ 1104+10	297+0
Sweden	Grad (SweGrid, Uppmax)	512	■ 470+2 ■	385+56
	Ritsem (SweGrid, HPC2>)	0		241+0
	Ruth (SweGrid, PDC)	457	■ 422+0 ■	246+-4
	Siri (SweGrid, Lunarc)	504	■ 13+432 ■	311+39
	Smokerings (NSC)	528	■ 335+176 ■	260+2
	Smokerings TEST (NSC)	528	■ 0+512	0+248
Switzerland	Bern ATLAS T3	516	■ 176+0 ■	159+0
	Geneva ATLAS T3	342	■ 100+0 ■	56+0
	Manno PHOENIX T2	1704	■ 0+9 (queue inactive)	0+0
	Manno PHOENIX T2	1704	■ 0+9 (queue inactive)	0+0
TOTAL	16 sites	21465	3983 + 9845	3343 + 633

- HPC2N machine room update
- NSC new machine room
- HPC2N storage servers update
- NSC storage update

- “As seen on HEPiX”
- Expansion this week
 - Transformer upgrade: 450kVA → 800kVA
 - Cabling, etc
 - From one to two 32A 400V plugs per rack
 - ~40kW/rack available
 - Up to total of ~700kW
 - Tuning of cooling



HPC2N room upgrade



- Progress as of Monday



- During this year, NSC will build a new computer room building
 - Four computer rooms totalling 2800 m²
 - Initially, only two of those will be furnished, while the third and fourth room will only be furnished "on demand" when we expand
 - Possibility for Sanger-style rotating "fallow room" for future refurbishment

- “Old” Sun thor dCache pools repurposed for ARC cache (NFS instead of dCache)
 - Big boost for analysis jobs
- No future for solaris, but no clear path for tape pools
 - TSM lanfree needs Supported tape driver – AIX (\$\$?) or RHEL (kernel updates?)
 - Not a problem for yet another year or so..
- New servers for virtual machines
 - kvm+ganeti+[drdb]

- NSC installed another petabyte of raw disk space for use by the Swedish met office at the beginning of 2011



Questions?