

# NT1 Central Services

NeIC NT1 Manager  
Mattias Wadenstein  
<maswan@ndgf.org>

2025-05-12  
NT1 AHM  
Bergen, Norway



# Overview

- New stuff
- Changes
- Issues
- Future





# New stuff

- Time to buy new headnodes, more of the same
- Our new dCache developer is the other half of Darren
- New bulk request tape REST API brings new issues
  - Not HA, so we had to rework a lot of ansible
  - Needed a new FQDN so that FTS could have a different queue
  - New set of max requests etc to hit limits in while confused



# Changes

- Grafana instead of Ganglia draws ever closer
  - But not quite yet, still missing a little bit
- We're no longer in NeIC, despite what the slide template implies
- The new setup with NordForsk is still in negotiations between NordForsk and the funding agencies
- The ARC 7 era is here



# Issues

- There is something wrong with the tape restore plugin
  - It sometimes forgets requests and just stalls them forever
  - Restarting the pool makes everything good again
- ARC data staging seems to be suboptimal
  - Dips in Running jobs with plenty of Preparing
  - But we'd need lots more monitoring to really see stuff
    - Should we collect metrics for all the data staging hosts?
  - HPC2N got better after ARC 7 upgrade, but is it optimal?



# Future

- New headnodes
- Tokens instead of x509 proxy certificates
- Getting into a higher pace of ENDIT and dCache development
- Trying to get some project funding for ARC devel
- Planning networking and resources for HL-LHC
  - 10-12 times the data rate
  - Our current situation where 40G is too small and 100G is reasonable
  - This should mean that 400G will be too small and 1T is reasonable







# Questions?