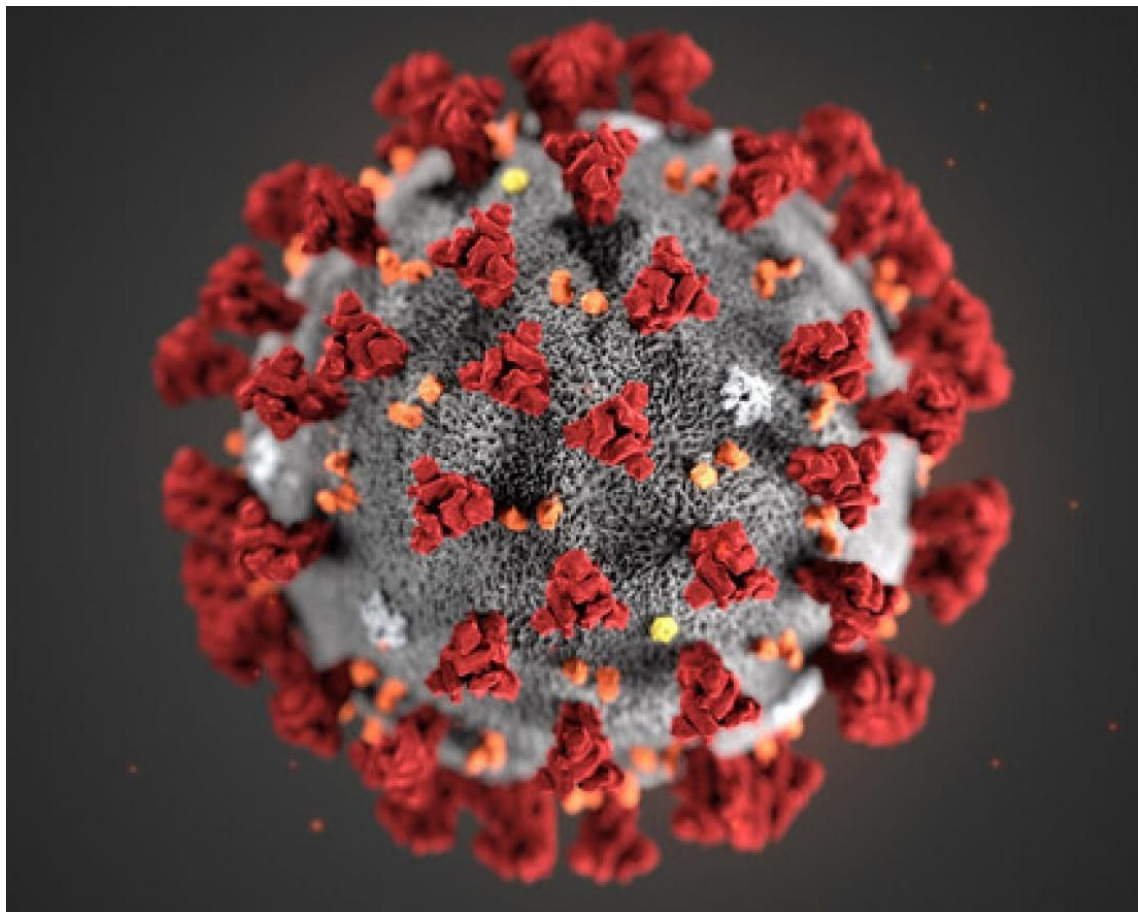


# NDGF All Hands 2020-2

HPC2N Site Report



# New WLCG/NDGF-T1 dCache disk pools

- Chosen solution: Dell R740xd2 (in competition with HPE and Lenovo)
  - 8 servers each with:
  - 25 GigE networking
  - 26 of 16TB SAS 7kRPM HDDs
  - PERC H730P RAID-controller
  - BOSS controller for OS storage (ie mirrored M.2 sticks)
  - 2 of Intel Xeon Silver 4210R 2.4G, 10core
    - Needed to populate 2 sockets due to PCIe slot layout (motherboard is based on R540)
  - 96G RAM
- Buying identical servers for Swestore dCache at the same time
- Delivery mid-november at the latest
  - EOS on existing pools on 2020-12-24, so timely migration necessary

# New WLCG/NDGF-T1 dCache disk pools (2)

- Also: Dell S5248F-ON switch (25G/100G)
  - Will also connect 25G-capable tape pools and LHCOPN interface of TSM server
  - Goal is to get 100G LHCOPN connectivity when UmU/SUNET figures out the specifics
  - Will have 2x40G connectivity to old switch for migration of data

# ARC 6

- Delayed
  - primary person got sick
  - getting a *grid*-certificate from Sectigo is difficult (delivered 28/9)
- Test jobs have run successfully and most nagios probes are green
- Hope to have it in pre-production at end of this week
  - Only two ARC cache machines
- If that goes well in production end of October
  - All ARC cache machines

# Abisko vs Kebnekaise

- Abisko will be kept running as long as ARC is not running on Kebnekaise
- After that it probably be shutdown
  - All cache machines will be on Kebnekaise network
  - $\Rightarrow$  Cache will be too slow for production use for Abisko
  - If there is money for power, we could setup a ARC 6 test cluster
- Kebnekaise will have<sup>(\*)</sup> resources to fill HPC2Ns pledge but not more
  - (\*) To our best estimates of Kebnekaise performance compared to Abisko
  - We expect NSC have a bit of excess to fill out the Swedish pledge

# Future plans

- Before end of 2020 - New dCache disk pools incl network/ethernet switch
- Also before May 2021, new ARC cache machines (SSD?)
- Migration to ARC 6 done and therefore ...
- ARC running on Kebnekaise and then Abisko decommissioned

The End