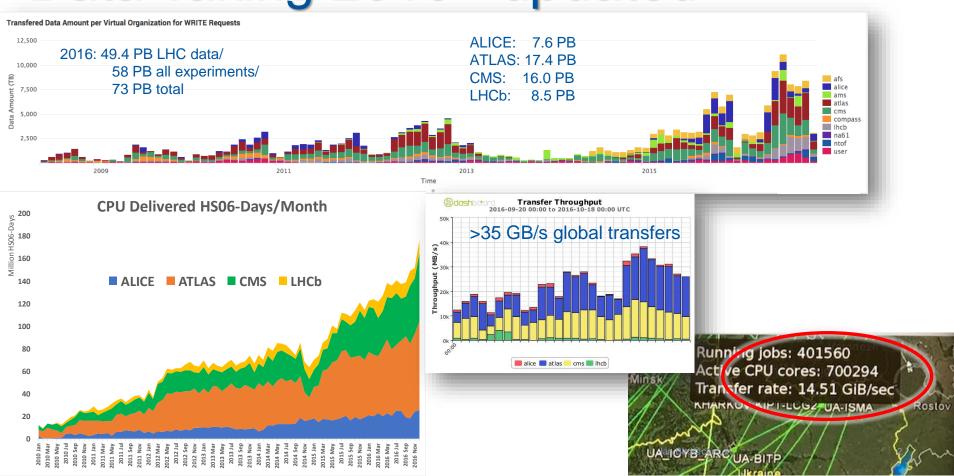
WLCG Status Report

Ian Bird

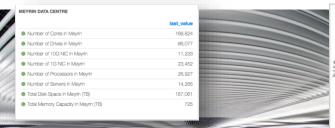
WLCG Referees Meeting

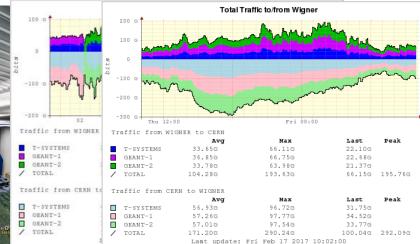
CERN; 21st February 2017

Data Taking 2016 - updated



Tier 0 - 2017





	last_value
Number of Cores in Wigner	56,000
Number of Drives in Wigner	29,694
Number of 10G NIC in Wigner	2,981
Numer of 1G NIC in Wigner	6,579
Number of Processors in Wigner	7,002
Number of Servers in Wigner	3,504
Total Disk Space in Wigner (TB)	97,315
Total Memory Capacity in Wigner (TB)	221

2017:

- 225k cores → 325k
- 150 PB raw → 250 PB 2018:
- ???



2017-18/19

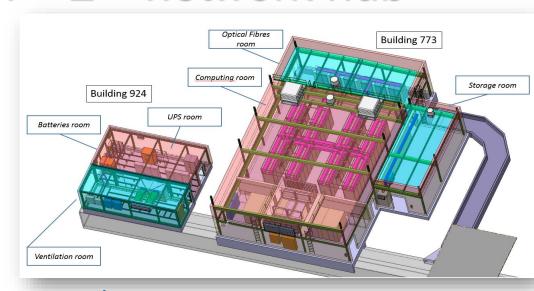
WIGNER DATA CENTRE

- Upgrade internal networking capacity
- Refresh tape infrastructure



Under construction – 2nd network hub

- Provide redundancy to external connectivity (GEANT, LHCOPN, LHCONE, ESNet, etc.)
 - Physically separate from main CC – in Prévessin
- Project started some time ago originally conceived as part of Wigner project to ensure business continuity
 - Delayed by lack of funding
 - Hopefully to be delivered in 2017





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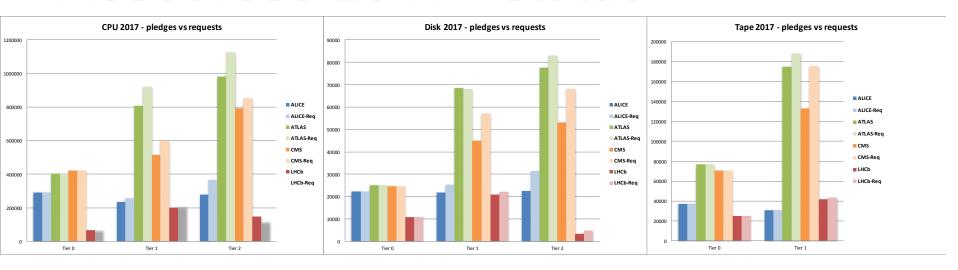
- ☐ Feasibility of a new DC in Prévessin being studied optimise the long term cost of computing at CERN for LHC
 - Based on GSI Green Cube

CERN Directorate:

- Decision made to provisionally go ahead with an open tender for a Turnkey DC, based on a high level Functional Specification, but with strict qualification criteria
 - Final decision expected shortly

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Resources 2017 - status



- CERN pledges updated since last meeting
 - Meets 2017 needs; but 2018 situation is unclear may be no increase (except tape)
- Informal information from Tier 1s
 - Mostly on track to provide agreed pledges by May/June some earlier
 - Expect several countries to provide additional resources to help meet the increased requests
 - But will not be formally pledged



HL-LHC planning

- Major activity has been the HSF/CWP workshop in San Diego in January
 - See later for summary
- □ Should discuss and agree what is needed this year for the "CDR"/vision paper
 - Outline of work needed to arrive at the Computing TDR in 2020
 - Probably needs to include discussion of strategies to explore to constrain costs of computing
 - Need input of the referees



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Something to worry about ???...



