Input to WLCG ws:
"Experiment workflows & data management tools and infrastructure"

CMS

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Experiment workflows & data management tools and infrastructure

Regardless of what happened in last 10 years, we have 10 years in front of us

✦ many driving factors will change a lot (and not so predictably), including the funding landscape, the available manpower, the role of other e-Sciences -

WM: Pursuing common resource provisioning and scheduling tools?

✦ e.g. in the past ATLAS/CMS did not manage to converge. Should we try again in the long term?

DM: {static, dynamic} data placement, {local, remote} data access

✦ An underlying point-to-point transfer service layer: will its need persist?

✦ A tool for experimental datasets replication at the application layer: differences prevailed over commonalities in Run-{1,2}. What in Run-{3,4}?

✦ Data locality: a stone before, sand now..

Experiment workflows & data management tools and infrastructure

Network evolutions

- ✦ Networking was a key for Run-1 success. Its high-performance and robustness are part of the enabling technologies for future evolution, flexibility and efficiency of our workflows. Awareness campaign by WLCG to FAs?

- ✦ Role of other e-Sciences?

- ✦ Network-awareness in the LHC applications? Or application-level tools and namespace moving into the network stack? CDN? NDN? …

- ✦ Role of WLCG with network fabric experts

Is the divide increasing?

- ✦ what if sites are not in LHCONE and inclusion does not happen because it is not perceived as a priority since nobody state it is?

- ✦ Constant forum to (re-)assess what "good WAN" means and make it become part of resource provisioning negotiations would be a value?