OSG-LHC

5.5 FTE across 12 people

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Operations = UNL = 1FTE
Security = Indiana University = 0.8FTE
Software = U. Wisconsin – Madison = 3FTE
Networking = U. Michigan = 0.4FTE
OSG-LHC went through a rough transition that required a good deal of conservative planning to guarantee continued operational stability of the infrastructure.

Nevertheless, we did several fundamentally new things:

- Planned, and started executing on the Globus retirement from the global infrastructure.
  - This is a transition that may take until the end of IRIS-HEP
    - US planned end date January 2022
    - Likely that it takes longer elsewhere in the world
    - Possible that HPC centers take longer even in the USA
- Started transition to new security model
  - From personal credentials to capability credentials
- Started transition to containerized services
  - New software stack “packaging” & “deployment”
  - Support for new operations paradigm
- Helped lead the creation of a WLCG vision for the future
  - 2 of the 3 DOMA sub-groups represented at the LHCC review have IRISHEP co-leads
  - DOMA Data LakeS Model
Big Picture Trajectory

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Need to finish what we started!

And consider adding a few new things
Continue

- Maintaining the OSG software stack: releases & support for them
- Provide operational security
- Provide Accounting and CVMFS support
- Provide network performance measurements based on perfSonar
- Coordination of Xcache R&D for ATLAS, CMS, and OSG
  - *Weekly meeting where issues are raised, and priorities are set with developers.*
Complete what we started

- Globus retirement
- Transition from personal credentials to capability credentials
- Containerized services
- Caching as part of the Data LakeS model
Options for new things

- Add Data Access monitoring to network monitoring and accounting as a supported performance oriented part of the stack.
  - *Started this with Xrootd monitoring assessment.*
  - *Next step is redesign of deployment and ops to improve reliability.*

- Allow US LHC Ops program to report use of non-traditional resources as part of their pledge.
  - *HPC*
  - *Tier-3*
  - *Cloud*

- Expand networking activities in the context of the IRISHEP challenges
  - *100Gbps perfSonar mesh*
  - *Traffic Marking, Shaping/Pacing, orchestration*
    - What if any of the above should OSG-LHC contribute to? And how?

- Expand/change role of operational security in light of change in ops model.
  - *People and services are more important now than software. How do we respond to this change?*

- Coordination role for the IRISHEP Challenge(s)
Goals for this week

■ Assess the level of interest in the “options for new things”
■ Understand the structure of milestones and deliverables for PEP
  - How many milestones/deliverables should OSG-LHC have in the PEP given its size within IRISHEP?
  - Do we need milestones/deliverables for the ‘continue” part of the program? Or are metrics sufficient for that part of the program?
■ Arrive at some draft milestones/deliverables for PEP.
  - Just asking for a good start, not yet completeness.
■ Understand role of OSG-LHC within the IRISHEP challenges.
  - Does it have any role to play at all? If yes then what?