HSF: Analysis Facilities
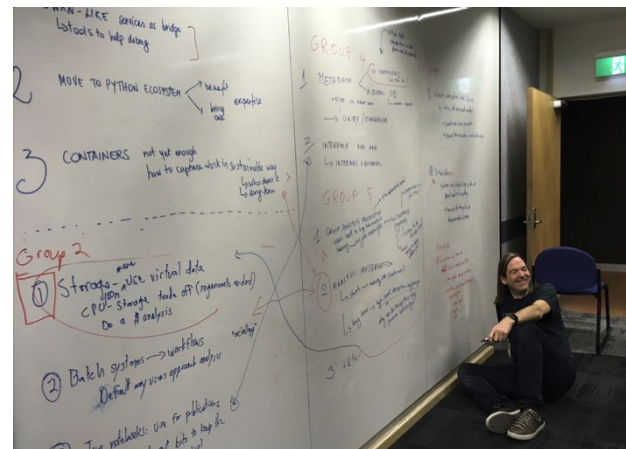
Graeme Stewart, for the HSF

HSF Activity on Analysis Facilities

PreCHEP Workshop: Brainwriting!

- HSF does not conduct frontline activity on AF setup and testing
  - What we do if provide a space for different results and approaches to be discussed and, hopefully, that helps guide future work in a more useful direction
- As analysis facilities has a strong point of contact between infrastructure and users/developers, we often looked at this with WLCG colleagues
  - Pre-CHEP November 2019 Workshop *Analysis Systems: From Future Facilities to Final Plots*
  - Analysis Ecosystem Workshop II, May 2022
    - Workshop report had a significant chapter on Analysis Facilities

Analysis Ecosystem II Workshop

Analysis Facilities Forum

- As it became clear that there was continuing interest in this topic, the <u>Analysis Facilities Forum</u> was set up
  - Kick-off in March 2022
  - Organised a significant series of meetings where experts in various topics presented status and plans in many different areas
    - k8s, Xcache, SWAN, Coffea Casa, CVMFS, INFN Multi-site AF, NAF, AGC, EOS, CERNbox
  - This gathered a significant amount of information, covering many topics
- <u>Pre CHEP May 2023 workshop</u> then also had Analysis Facilities as one of its major topics with 150+ attendees
  - Summarised status for facilities, monitoring, data delivery, portability and AAI
- <u>LHCC focus session</u> summary of ongoing R&D was very positive about the activity

HSF Analysis Facilities Whitepaper

- The AFF conveners synthesised their findings into the Draft [HSF AF Whitepaper](#)
  - *This is a significant piece of work and generated lots of positive feedback for framing the problem and describing possible solutions*
  - Circulated to the community for comments in advance of the Pre CHEP workshop
  - This generated significant discussion
    - Some points were perceived to be extremely controversial and/or opinionated
    - A lot of work was put in to resolve these comments
- After CHEP work on the white paper slowed down
  - Conveners are volunteers - other responsibilities had to be fulfilled
  - Achieving a text with which everyone is happy is really not easy
    - This is a topic which generates strong opinions, and these do not align
    - We try to be fair to each (reasonable) point of view
  - We have recently restarted work to try and now converge to a final version

What's Next?

- We are in the process of planning HSF activities for 2024
- A clear target is to finish the Whitepaper
  - This will provide a good summary of the work done so far and the problems that remain to be tackled
- This also finishes the mandate of the current AFF
- The HSF is a good place to bring together different experiments and communities, e.g.,
  - Status and ideas can be exchanged
  - Avoid repetition
  - Agree on common metrics
- What specific activities we engage in...
  - Depends on finding motivated conveners from the experiments, projects and communities who can volunteer their time
  - What the experiments and community would see as being useful activities to host in HSF
    - A session at the DESY HSF/WLCG workshop would probably make sense