

Analysis Systems: From Future Facilities to Final Plots

WLCG & HSF Workshop



WLCG
Worldwide LHC Computing Grid

2019-11-02

Welcome!

- Thank you all for coming to join us at the workshop today and tomorrow
 - We are very happy that so many people decided to opt for the workshop
- Motivation...
 - We have a situation where event rates are climbing precipitously for LHC experiments
 - This has a direct impact on analysis
 - In a flat budget model we need new ideas!
 - Analysis a rich and layered topic:
 - Data storage and access at sites
 - Analysis model workflows as an integrated part of the production workflow
 - Including *realtime* workflows
 - Good languages and analysis ergonomics are vital to productivity
 - Resource scaling and responsiveness beyond the laptop...
 - Machine learning becomes more and more important
- Let's bring this wide community together!

Format

- This is a workshop, not a mini-CHEP
- We have key presentations today, but ones where not all questions are answered
 - And plenty of time for discussion!
- Tomorrow we try to involve everyone in the discussion
 - Smaller groups taking on three broad challenge areas
 - **Facilities, Machine Learning, Analysis Model**
- You should have read the [Analysis Challenges document](#) we put together
- And the [Interactive Session Description](#) as well
- If you want to choose a particular challenge, fill in the [Doodle](#) by 8pm tonight
 - It's good to move out of your comfort zone!

Practical point: make sure you have paper and a pen for tomorrow morning!

Brainwriting Cheatsheet

BRAINWRITING



- Listen** to the animators introduce each challenge for analysis 9.00-9.20
 - *Then move to find the rest of your group* 9.20-9.25
- Think** of an idea that can help us face the challenge your group is tackling 9.25-...
 - Write your idea concisely on your pad in 2-3'
 - Pass the pad to the person on your left
- Comment** on the paper you just received, on the idea or any existing comments ...-9.50
 - Write your comment underneath
 - Keep passing the pad to the left until you have an idea and 5 or 6 comments (20' in total)
 - Give the pads back to the original author of the idea
- Reflect** on the comments you got for a few minutes 9.50-9.55
 - Identify what was the best comment
- Describe** to the group the idea and the best comment you got 9.50-10.05
- Discuss** in your group the ideas and comments were 10.05-10.25
 - Identify the 3 best ones
 - Go and join all of the groups that are working on the same challenge topic
- Describe** from each group in turn the best ideas that came out 10.25-10.40
- Discuss** with the animator these ideas in your supergroup 10.40-11.00
 - What problems arise with each idea?
 - What could really make a difference to this challenge?
- Take a break! Coffee time.** 11.00-11.45
 - Then back to the main auditorium
- Listen** to the animators summaries of the ideas 11.45-12.15
- Discuss and comment** with the whole workshop 12.15-13.00