



CERN openlab in a nutshell

- A science industry partnership to drive R&D and innovation with over a decade of success
- Evaluate state-of-the-art technologies in a challenging environment and improve them
- Test in a research environment today what will be used in many business sectors tomorrow
 - Train next generation of engineers/employees
 - Disseminate results and outreach to new audiences











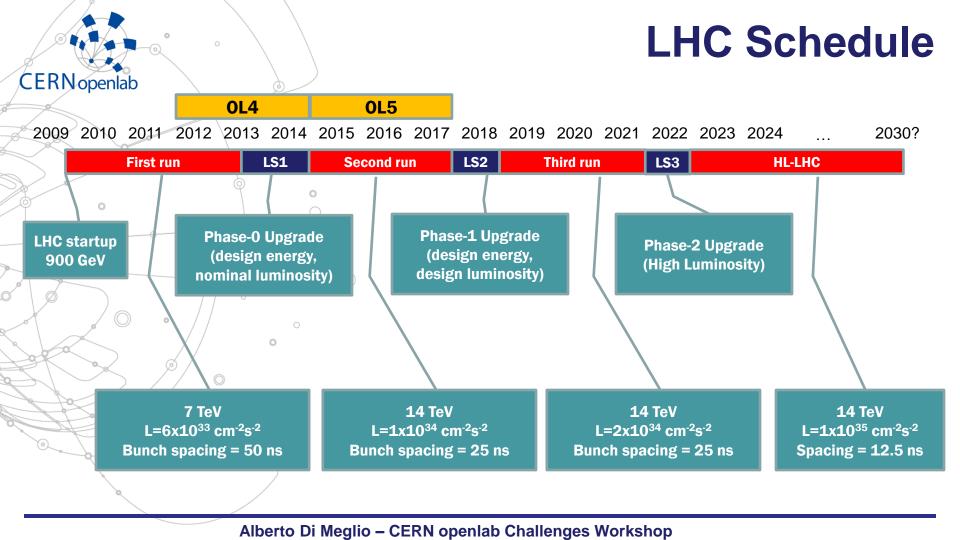


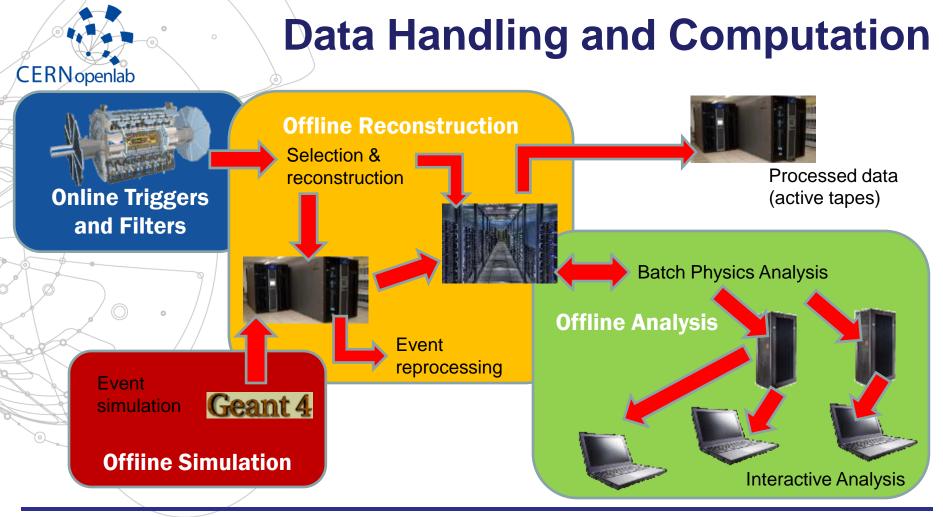




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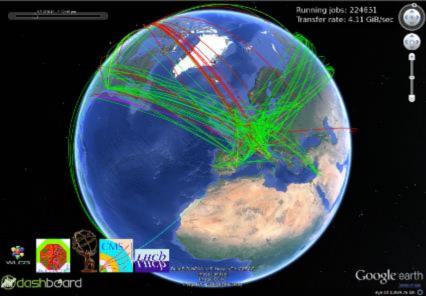






ICT Infrastructure







Technical Challenges and Use Cases

- A set of ambitious challenges with a 5-year time scope
- A practical set of use cases for each challenge
- Based on LHC and experiment requirements, but open to general needs of other research organizations in terms of large-scale computing and data services



Challenges



Online triggers and DAQ



Offline simulation and processing



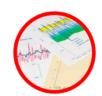
Data storage architectures



Resource management and provisioning



Networks and connectivity



Data analytics



Who we are involving





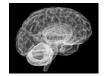
SIEMENS







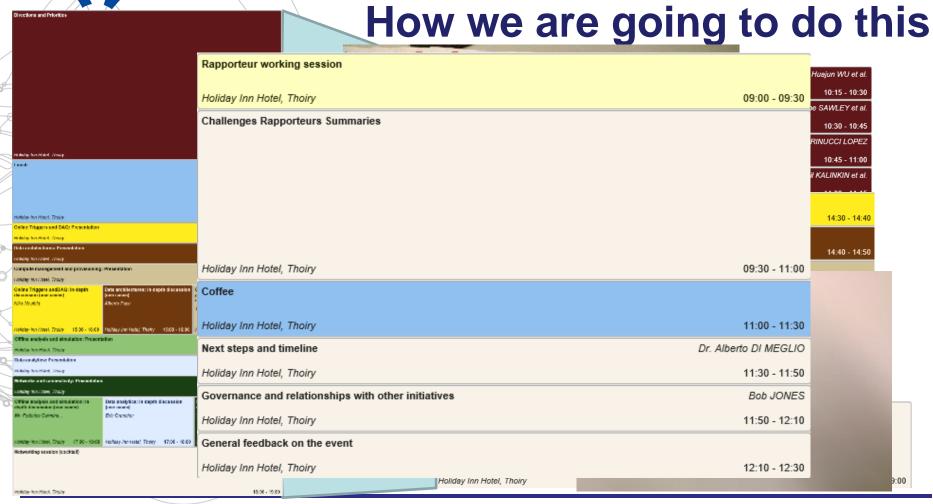










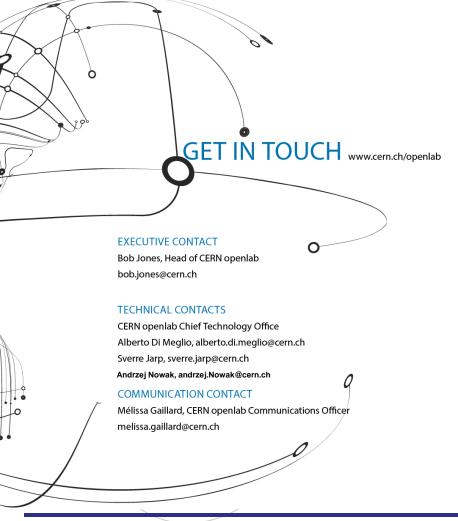


Alberto Di Meglio – CERN openlab Challenges Workshop



Logistics and organization

- Three rooms
 - Alpes (Plenaries, Data Architectures, Data Analytics)
 - Leman-Geneve (Compute Provisioning and Management, Networks and Connectivity, Cocktail)
 - Rhone (Online, Offline)
- Let us know if you need to print boarding passes, need taxis, additional stickers, etc.
 - For any additional information or logistics support ask:
 - o Me (Alberto Di Meglio)
 - Kristina Gunne



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