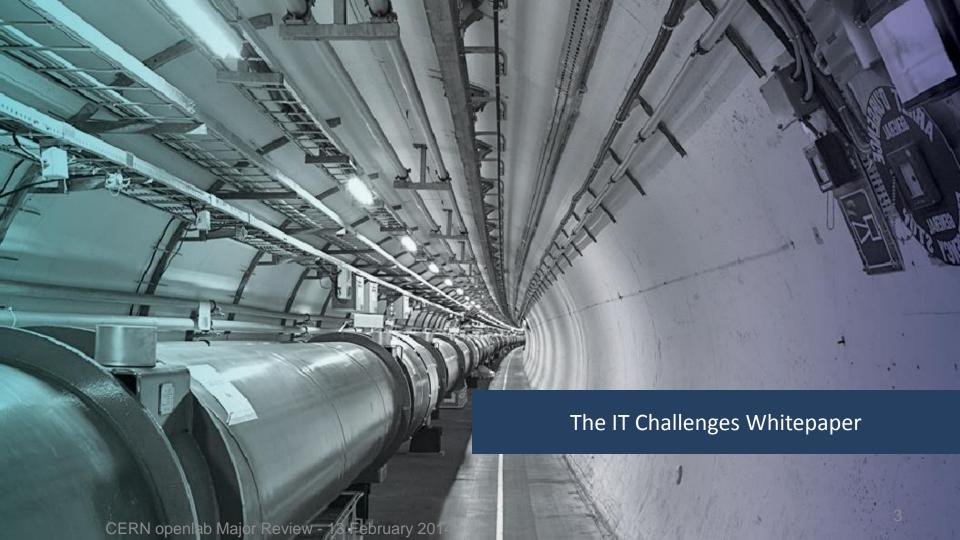




Outline

- The IT Challenges Whitepaper
- From Use Cases to openlab Projects
- Process and Timeline





What we expect to get out of it

- A comprehensive description of the major areas of investigation over the next few years
- A means to disseminate the activities and get feedback from scientific communities at large
- A base for agreement on the CERN openlab 5 directions and plans



Whitepaper status

- Internal release first "work in progress" draft
- Sent to all December workshop participants
- Collecting feedback and more contributions
 - Still too CERN-centric, need input from other labs
- Need to revise for consistency, overall look and feel, etc.
- Next internal release: February 28th
- Final release date: March 28th



Challenges



Online triggers and DAQ



Offline simulation and processing



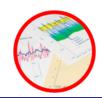
Data storage architectures



Resource management and provisioning



Networks and connectivity



Data analytics



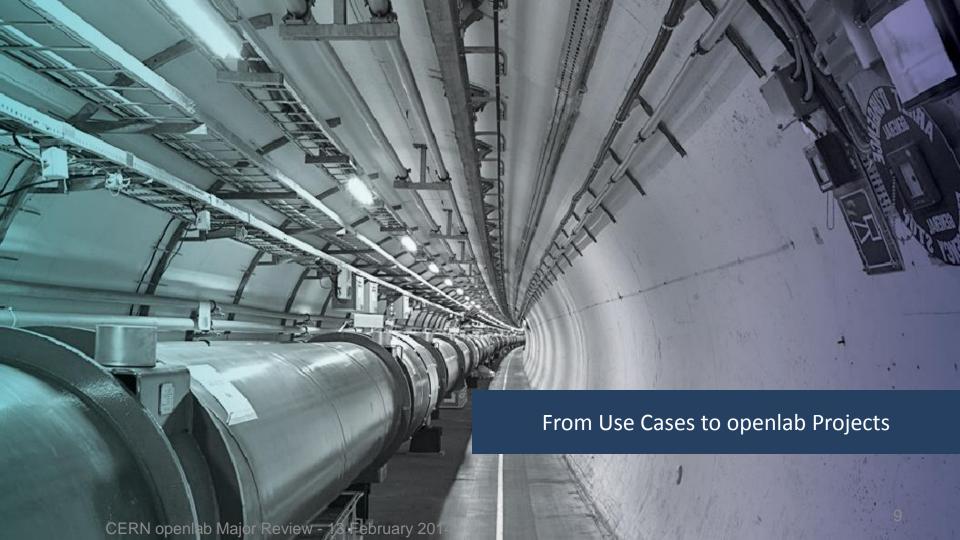
Use cases

- 28 use cases
 - Online triggers and DAQ: 3
 - Offline analysis and simulation: 3
 - Data storage architectures: 4
 - Compute management and provisioning: 4
 - Networks and connectivity: 5
 - Data analytics: 9



Practical matters

- So, openlab sponsors want to be mentioned?
 - How?
 - > As a generic "contributor" to the WP
 - > In specific use cases?
- Distribution channels
 - Openlab standard
 - Other labs channels
- Copyright: CERN (as for the annual reports)
- Licence: CC Attribution-NonCommercial-ShareAlike 4.0 International License.





CERN openlab projects

- The use cases represents high-level requirements or areas of investigation
- Next step is to define concrete projects out of most use cases
 - Possibly with priority levels over the openlab 5 duration
- Goal to have an initial set of project definitions (Statements of Work) by May 2014 (Board of Sponsors)



Representation and coordination

- The projects are the main units of technical activity within the broader challenge areas
 - As broad or as specific as the project participants require as long as cost, effort, contributions are clear
- Clear CERN groups and openlab sponsors
 representation still needed across all projects
 - The CERN groups will host the projects
 - Needed for coordination, monitoring, review, etc.
- Each project can be reviewed independently to be able to preserve confidentiality as necessary



Statements of Work

- Each project SoW should contain something like
 - Project title, overall description (state of the art, benefits for the participants, expected outcome, etc.)
 - Duration (from 1 to 3 years)
 - List of participants (openlab members)
 - List of activities and milestones
 - Estimated cost and effort and who contributes what
 - Any specific IPR provision beyond what stated in the general Collaboration Agreement
 - Description of previous work or background for IPR purposes (as required by the members)

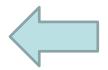


Who is involved













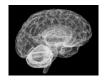
















CMS/

























Templates, supporting activities, logistics

- CERN openlab will provide a standard template for the SoW
 - Template to be available by the end of February
- Will provide support for the organization of meetings, discussions, etc.
- In close collaboration with use cases proposers and prospective members
- Will take most of March and April to complete



Training and education

- Some of the projects may not be R&D-focused
 - Training or educational activities
- Leverage existing training activities or facilities across openlab sponsors and research labs
- Relationship with
 - the Summer Student programme
 - Wider education/training activities (similar to the current ICE-DIP project)



Projects starting date

- Formally, January 1st, 2015
- New projects can be defined during P5
 - if activities do not fit in current projects
 - when new openlab members join
- Projects can start earlier than January 2015
 - openlab 5 Collaboration Agreement in place
 - project Statement of Work defined



