



CERN openlab Phase V Preparation

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CERN openlab CTO office



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

PARTNERS



ORACLE

SIEMENS

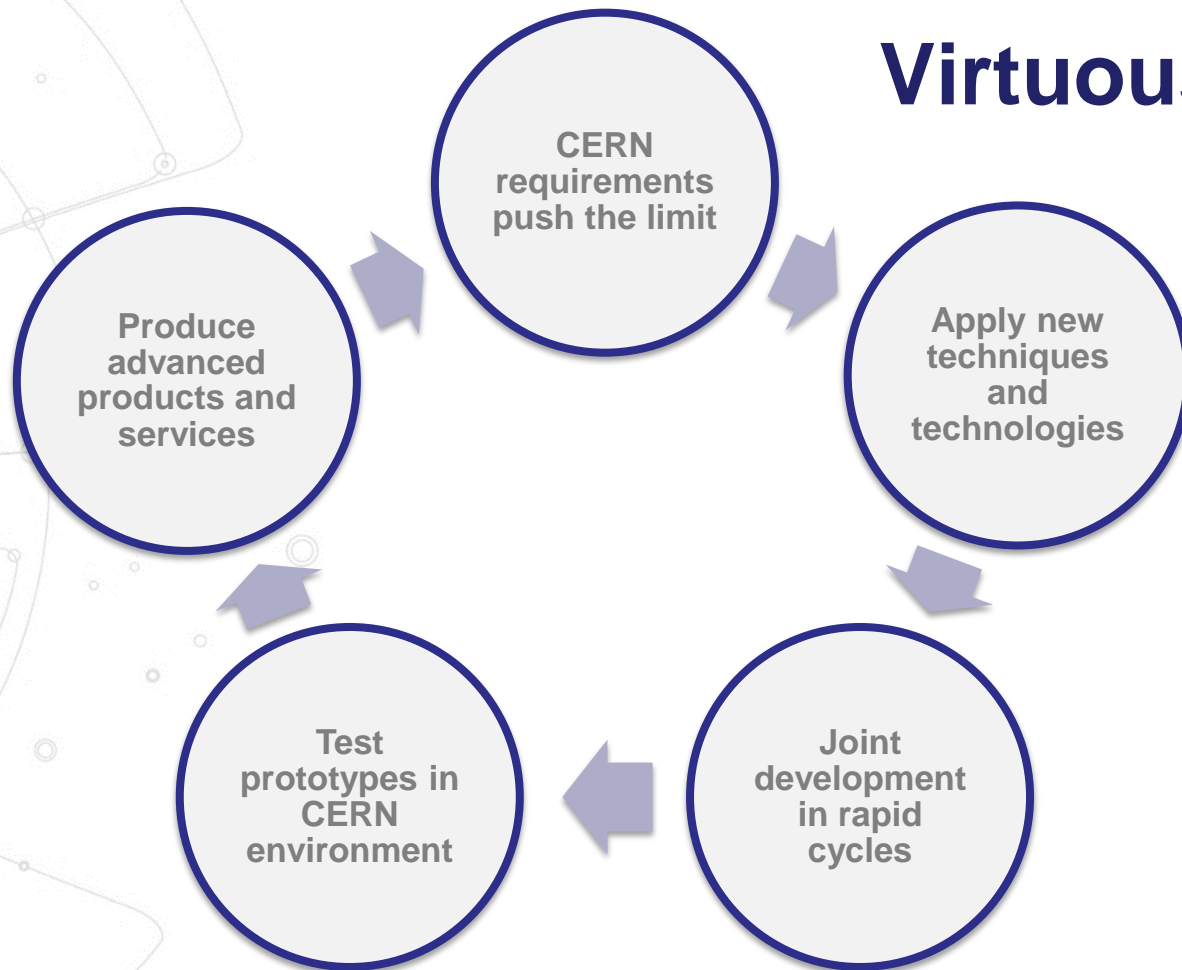
CONTRIBUTOR



ASSOCIATE

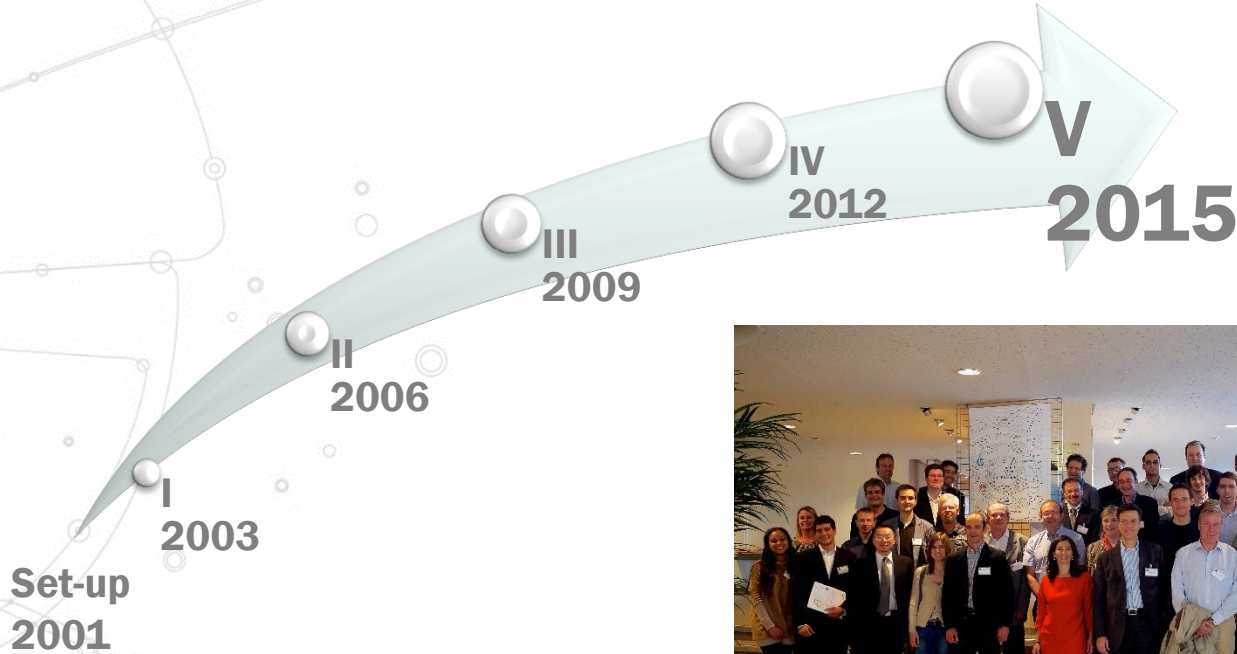
Yandex

Virtuous Cycle



A public-private partnership between the research community and industry

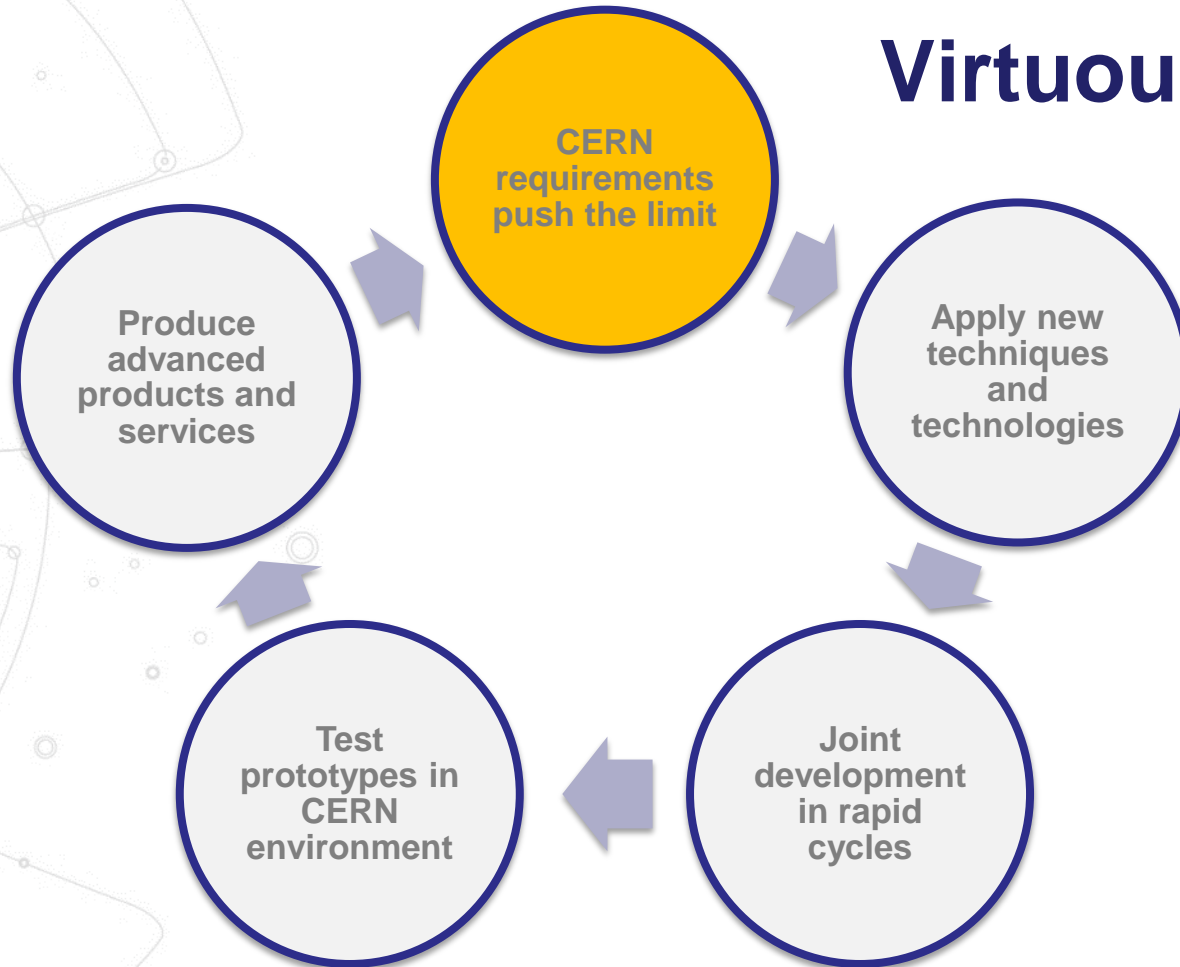
The history of openlab



CERN openlab Board of Sponsor 2013



Virtuous Cycle



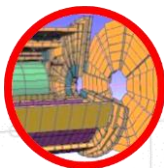
A public-private partnership between the research community and industry

Challenges

CERNopenlab



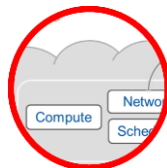
Online triggers and DAQ



Offline simulation and processing



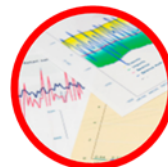
Data storage architectures



Resource management and provisioning



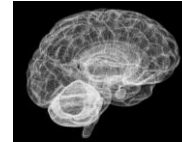
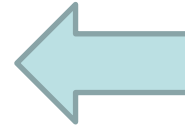
Networks and connectivity



Data analytics

Who is involved

New members



Future IT Challenges Whitepaper

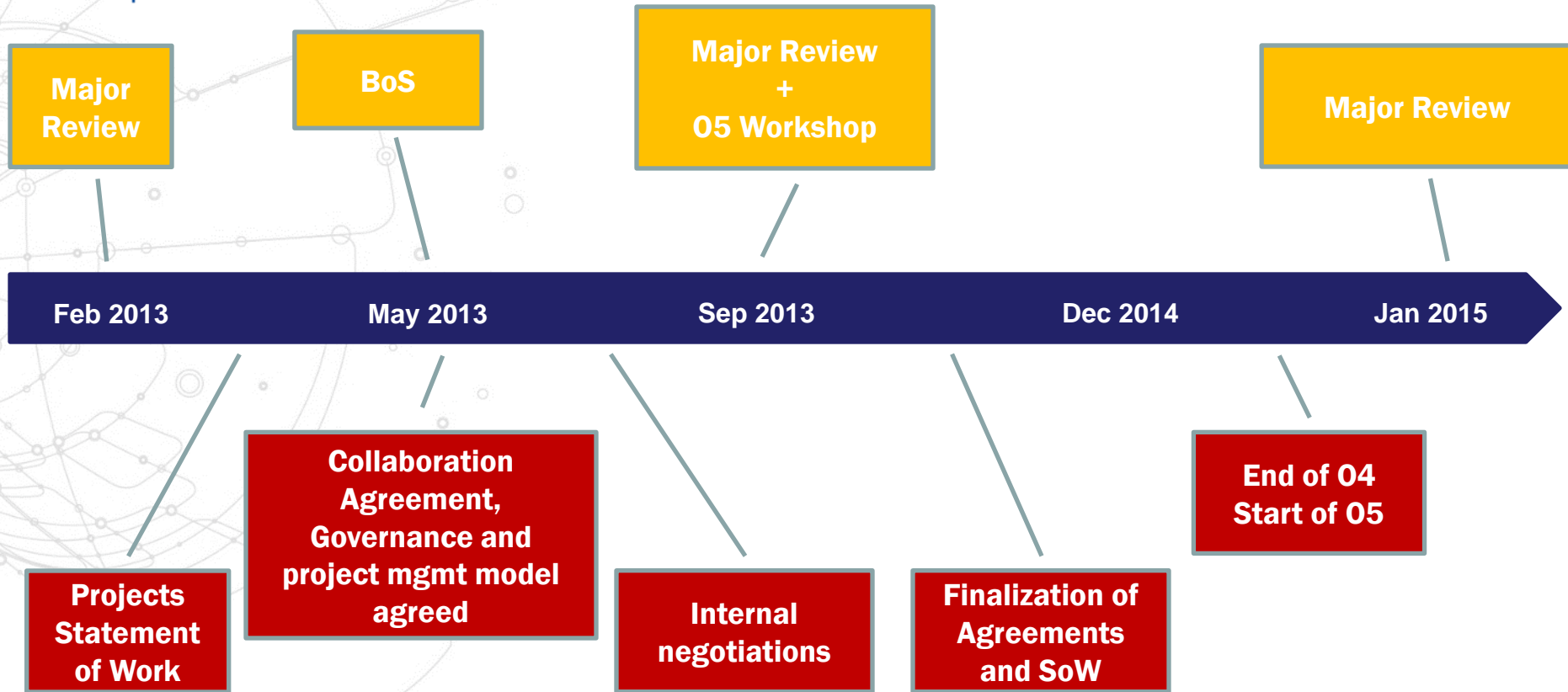
- Internal release first “work in progress” draft
- Sent to all December workshop participants
- Collecting feedback and more contributions
 - Still too CERN-centric, need input from other labs
- Next internal release: February 28th
- Final release date: March 28th

- 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: 6
 - **Data analytics: 9**

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 V duration
- Goal to have an initial set of project definitions (Statements of Work) by May 2014 (Board of Sponsors)

Process and Timeline





GET IN TOUCH www.cern.ch/openlab

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