



Addendum to:

The Importance of Research-Industry Collaborations on Emerging Technologies towards Exascale Computing

A contribution from CERN openlab to the European Strategy for Particle Physics

Interested community:

High-Energy Physics at large in all its components (Accelerators, Experiments instruments and detectors, computing infrastructure)

However, the proposed approach would be highly beneficial to any other community facing the same computing and data challenges. Furthermore, the collaboration across communities is an important principle of the proposal itself

Timeline:

CERN openlab is active today. The timelines to integrate the proposed models across different activities of the HEP community can be very short and build upon the existing collaboration networks and channels.

Construction and operating costs:

The proposed model is based on sharing the costs of the R&D activities between the hosting institute (CERN in the case of CERN openlab) and industrial partners. The model is largely self-sufficient today. No special construction is required.



Computing requirements

The proposal doesn't have computing requirements per se. On the contrary it is a mechanism to address the challenges of computing requirements in the future. All hardware and software used in the collaborative R&D projects today are provided by the industrial partners as part of the evaluation and R&D activities. Standard access to the network infrastructure is required.