

The infrastructures developed in particular in WP9 of this proposal will result in a complex and sophisticated experimental infrastructure mainly at DESY and at CERN. The infrastructures will bring together several detector components, built by different groups from Europe with participation from groups outside of Europe. The design and integration of these infrastructures is a complex task in itself. We propose to support the advancement of these infrastructures with dedicated manpower at the two main laboratories, DESY and CERN. These people will contribute centrally to the design of the infrastructures, and put into place a number of central facilities needed to improve and operate them. The main goal of this task is to provide in the end a coherently integrated infrastructure, with well-defined interfaces between the different components, and to the common DAQ developed in WP9.

The main objectives of this task are:

- Central contribution to the planning and simulation of the infrastructures.
- Access and support for general information and documentation systems using a Electronic Document Management System (EDMS);
- Standardization and access to engineering tools, as well as putting in place mechanisms to exchange information between different tools;
- Definition of standards in the interface specifications, change and configuration control.

The design of the facilities will require extensive simulation and engineering support. Both DESY and CERN will provide access to resources, which will be extended by dedicated physicists manpower through this project.

The management of information for a distributed project like the ones proposed in WP9 is essential. A centrally operated EDMS system will be fed from a number of different data sources, among them design systems (CAD), project management tools, and different drawing packages. A major goal of this task will be to provide transparent and easy access to the EDMS for the experimental community, while faced with a very heterogeneous environment at the different partner laboratories.

In addition to providing the underlying data management tools, the task will propose and eventually provide different tools needed to efficiently advance the projects. Among them will be general project management tools, planning tools, and tools to follow and control costs. The selection of the tools will be done in close collaboration with the users. Given the international scope of these projects, discussions will not be restricted to the members of AIDA, but involve the international community as well. Particular emphasis will be placed on the early application of these tools to concrete projects, among the first being combined testbeam facilities.

This task will require one full time staff member at DESY and at CERN, respectively. In addition 0.5 FTE will be needed at DESY to support the central information facilities.