

Towards the Fenix Infrastructure

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In the context of the Human Brain Project a set of European supercomputing centres have committed themselves to develop and deploy a set of services that will be federated across the involved sites. This effort currently involves five centres from five different countries, namely BSC (Spain), CEA (France), CINECA (Italy), CSCS (Switzerland) and JSC (Germany). The resulting infrastructure will comprise scalable compute resources, data services as well as interactive compute services. While the infrastructure will be made available to several research communities, the Human Brain Project is currently the prioritised driver for the Fenix infrastructure design and implementation.

In this talk we give an overview on the design principles and discuss selected use cases, which the infrastructure need to support. We will provide an overview on the envisage architecture and the strategies for addressing key architectural and technical challenges.

Presenter: Prof. PLEITER, Dirk