



Contribution ID: 494

Type: **not specified**

Horizon 2020: an EU perspective on data and computing infrastructures for research

Monday, October 14, 2013 11:45 AM (30 minutes)

Through joint efforts between the HEP community in the early days of the EU DataGrid project, through EGEE, and via EGI-InSPIRE today, the European Commission has had a profound impact in the way computing and data management for high energy physics is done.

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As identified e.g. by the High Level Expert Group in their “Riding the Wave” report (October 2010), the emergence of “big data” in research triggered by ever more powerful instruments (in HEP, bioinformatics, astronomy, etc.) demands advanced computing resources and software to increase the available capacity to manage, store and analyse extremely large, heterogeneous and complex datasets. We should support integrated, secure, permanent, on-demand service-driven and sustainable e-infrastructure to tackle this challenge.

Our vision is a pan-European e-infrastructure that will cover the whole lifecycle of scientific data and provide the necessary computing resources needed by researchers to process information. All components of the e-infrastructure should expose standard interfaces to enable interoperation with other relevant e-infrastructure.

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Session Classification: Plenaries