



An open science cloud for scientific research

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The Helix Nebula initiative was presented at EGU 2013 (<http://meetingorganizer.copernicus.org/EGU2013/EGU2013-1510-2.pdf>) and has continued to expand with more research organisations, providers and services.

The hybrid cloud model deployed by Helix Nebula has grown to become a viable approach for provisioning ICT services for research communities from both public and commercial service providers (<http://dx.doi.org/10.5281/zenodo.16001>).

The relevance of this approach for all those communities facing societal challenges is explained in a recent EIROforum publication (<http://dx.doi.org/10.5281/zenodo.34264>).

This presentation will describe how this model brings together a range of stakeholders to implement a common platform for data intensive services that builds upon existing public funded e-infrastructures and commercial cloud services to promote open science.

It explores the essential characteristics of a European Open Science Cloud

if it is to address the big data needs of the latest generation of Research Infrastructures. The high-level architecture and key services as well as the role of standards is described. A governance and financial model together with the roles of the stakeholders, including commercial service providers and downstream business sectors, that will ensure a European Open Science Cloud can innovate, grow and be sustained beyond the current project cycles is described.