



## Helix Nebula Workshop on Interoperability among Public and Community Clouds

19 September 2012 (11-17:30)  
Room Leo, Clarion Conference Center  
Prague, Czech Republic

**Links:**

EGI.eu: <http://www.egi.eu>

Helix Nebula: <http://www.helix-nebula.eu>

Online agenda: <http://go.egi.eu/hnws1>

# Overview

The EC-funded Helix Nebula project is a step towards a European cloud-based scientific e-Infrastructure composed of resources and services from commercial and publicly owned providers. This workshop is the first of three to bring together the appropriate technology and policy representatives to address the integration and interoperation of their respective infrastructures.

The first session focuses on requirements for **technical interoperability** among publicly owned e-Infrastructures and commercial cloud providers. The session kicks off with two presentations describing the technical architecture of the EGI Federated Cloud and Helix Nebula. An initial list of current and potential use cases for using integrated clouds infrastructures will be highlighted. The expected outcome of this session is an initial list of meaningful use cases, a set of agreed technical requirements and the identification of working groups that should be started in order to analyse them towards the definition of a roadmap for their implementations [<http://go.egi.eu/hnws1-p1>].

The second session dives into the topic of **networking services** covering coordination with GEANT and the NRENs to ensure network connectivity and policy compliance for the data-intensive use cases and presentations on commercial networking solutions from Helix Nebula suppliers. As the evaluation criteria and key performance metrics for the Helix Nebula cloud offering will be defined based on the specific goals of each flagship application, networking performance will also be a key aspect. It will also allow EGI to fine-tune with the agenda of GEANT/NRENs in terms of next steps for activities related to cloud services and to discuss common issues in this area [<http://go.egi.eu/hnws1-p2>].

The final session of the workshop looks at **potential business** for integrated e-infrastructures with commercial clouds and the **legal and policy issues** around scientific data in publicly owned and private infrastructures. In addition, preliminary results from a study on the cost of e-Infrastructures will be presented. The expected outcome of this session includes a preliminary list of usage models for hybrid clouds and a possible identification of cost models as well as of scenarios to operate cloud services in current and changing regulatory environment. The workshop will close with an overall summary including agreements, open issues and actions [<http://go.egi.eu/hnws1-p3>].

# Program

<http://go.egi.eu/hnws1>

## Technical Interoperability (convener: S. Andreozzi)

- 11:00-11:10 Introduction and Goals (S. Andreozzi)
- 11:10-11:30 EGI FedCloud Architecture (M. Turilli)
- 11:30-11:50 The Helix Nebula Technical Architecture (M.E. Begin)
- 11:50-12:10 Use Cases for using integrated clouds infrastructures (S. Andreozzi, S. Holsinger)
- 12:10-12:30 Discussion on the technical interoperability requirements (Moderator: S. Andreozzi)

## Networking Connectivity (convener: C. Asero)

- 14:00-14:05 Introduction and Goals (C. Asero)
- 14:05-14:25 Connecting commercial cloud providers with NRENs/GEANT (N. Hersoug)
- 14:25-14:45 Commercial Networking Solutions - Helix Nebula Supplier (U. Schäfer)
- 14:45-15:05 Network Connectivity - Scientific Clouds (J. de la Mar)
- 15:05-15:30 Discussion (Moderator: C. Asero)

## Business Models and Legal Aspects (convener: S. Andreozzi)

- 16:00-16:05 Introduction and Goals (S. Andreozzi)
- 16:05-16:25 Business models for integrated e-infrastructures with commercial clouds (TBD)
- 16:25-16:45 Scientific data in publicly-owned/private infrastructures: Legal and Policies Issues (P. Balboni)
- 16:45-17:05 Cost of e-Infrastructures (F. Karagiannis)
- 17:05-17:30 Discussion / Workshop Wrap-up / Action Summary (Moderator: S. Andreozzi)