

European Grid Initiative Design Study (EGI_DS)

**Slides by Dieter Kranzlmüller at
4th e-Infrastructure Concertation Event
Sophia-Antipolis, 5th-6th December 2007 and
1st EGI Workshop at Budapest EGEE Project Conference**

Minimally adapted by
Laura Perini, Milan

Project objectives

- Conceptual setup and operation of a new organizational model of a sustainable pan-European grid infrastructure
 - Ensure the long-term sustainability of the European e-infrastructure
 - Coordinate the integration and interaction between National Grid Infrastructures
 - Operate the European level of the production Grid infrastructure for a wide range of scientific disciplines to link National Grid Infrastructures

Characteristics of NGIs

Each NGI

- ... should be a recognized national body with a **single point-of-contact**
- ... should mobilise national funding and resources
- ... should operate the national e-Infrastructure
- ... should supports user communities (application independent, and open to new user communities and resource providers)
- ... should contribute and adhere to international standards and policies

Responsibilities between NGIs and EGI are split to be federated and complimentary

EGI Design Study

Goal:

- **Conceptual setup** and operation of a new organizational model of a sustainable pan-European grid infrastructure

Chronology:

- February 26-27: EGI Workshop Munich
- May 2: Proposal submitted to the EC for funding within FP7-INFRA-2007-1, 1.2.1 Design Studies
- September 1: Project start
- September 27: End of negotiations with EC
- December 1^o half : EU signature of EGI_DS contract
- Person months: ~300
- Duration: 1 Sept 2007 – 30 Nov 2009 (27 Months)

Consortium members

- Johannes Kepler Universität Linz (GUP)
- Greek Research and Technology Network S.A. (GRNET)
- Istituto Nazionale di Fisica Nucleare (INFN)
- CSC - Scientific Computing Ltd. (CSC)
- CESNET, z.s.p.o. (CESNET)
- European Organization for Nuclear Research (CERN)
- Verein zur Förderung eines Deutschen Forschungsnetzes - DFN-Verein (DFN)
- Science & Technology Facilities Council (STFC UK)
- Centre National de la Recherche Scientifique (CNRS)

Work packages

- **WP2:** EGI Requirements Consolidation
(Fotis Karayannis, GRNET)
- **WP3:** EGI functionality definition
(Laura Perini, INFN)
- **WP4:** Study of EGI legal and organisational options
(Beatrice Merlin, CNRS)
- **WP5:** Establishment of EGI
(Jürgen Knobloch, CERN)
- **WP6:** EGI Promotion and Links with Other Initiatives
(Per Öster, CSC)

Defining a first function schema

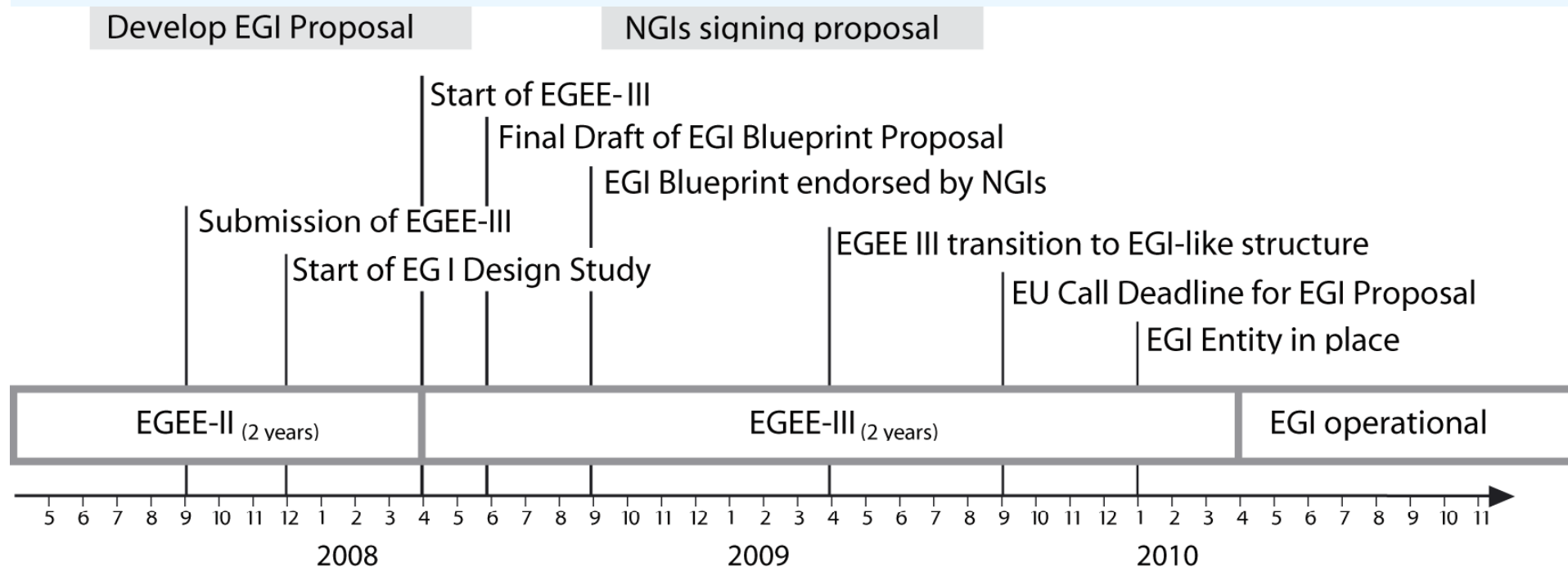


1. Operation of a reliable Grid infrastructure **CERN**
2. Coordination of middleware development and standardization **INFN**
3. Development and operation of build and test systems **CERN**
4. Components selection, validation, integration and deployment **CERN**
5. Mechanisms for resource provisioning to Virtual Organisations **GRNET**
6. Application support **CERN**
7. Training efforts **STFC**
8. Outreach and dissemination **INFN**
9. Industry take-up **INFN**
10. Contribution to the Open Grid Forum (OGF) and other standardisation bodies **INFN**
11. Policy, Strategy, e-IRG **STFC**
12. Representation of European Grid efforts, international cooperation, and ESFRI **GRNET**
13. Security **STFC**
14. Management **DFN**

Upcoming

- **Dec 2007:**
 - D2.1 – EGI consolidated requirements and use cases
- **Feb 2008:**
 - D4.2 – Options analysis of different legal structures
- **Mar 2008:**
 - D5.1 – Draft definition of EGI organization
 - D5.2 – Draft convention of new EGI organization
 - M3.1 – **Next EGI Workshop** –
„List of EGI functions and working model“
- **Apr 2008:**
 - D4.3 – Guidelines for NGIs

A schedule



- **March 2008 (M7) 13-14 in Rome:**
2nd EGI Workshop (Responsible partner: INFN)
- *Before that at CERN*
 - WP5 on Jan.11
 - WP3 on Jan 29-31