



# EGI\_DS or “can WLCG operate after EGEE?”

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**BACKGROUND....**

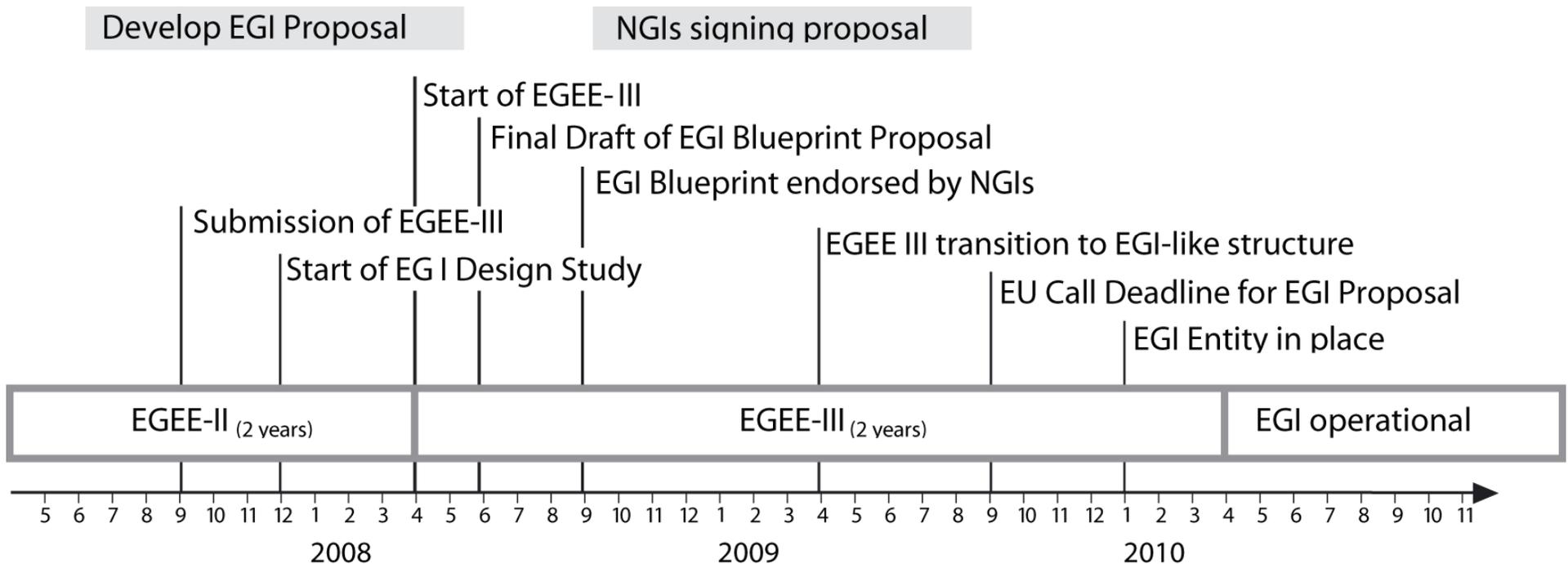
# Timeline

- In 2010, the LHC will reach design luminosity
- In 2010, EGEE III will terminate
- **It is inconceivable that we:**
  - a. Don't run the LHC machine
  - b. Run the LHC machine without a computing infrastructure
  - c. Run the computing infrastructure without Grid operations
- This is required for other mission critical applications that are dependant on this infrastructure
- ↳ **The transition to the new scenario must be**
  - a. On time
  - b. Non-disruptive
- This is a fundamental requirement – it is not an issue for discussion

# From the EGI\_DS DoW...

↳ The establishment of EGI is guided by two basic principles:

1. Build on the experience and successful operation of EGEE and related projects
2. Make EGI operational before EGEE III ends



# Key Assumptions

- Timeline:
  - There are **many** applications using Grid resources in a **production** fashion today
  - **Continuity** must be provided to these communities – in other words the move to an “EGI world” must be **non-disruptive** and **on time**
- Functionality:
  - Similarly, the key functionality provided in terms of operations must be maintained both **during** and **after** the transition phase

# What is EGI Operations?

- To answer this question, we need a much better idea of what “the EGI Grid” will be...

## Is it:

- ¿ A large-scale, production Grid infrastructure – build on National Grids that interoperate seamlessly at many levels, offering reliable and predictable services to a wide range of applications, ranging from “mission critical” to prototyping and research?
- ¿ A loosely coupled federation of NGIs with little or no cross-grid activity, heterogeneous and sometimes incompatible middleware stacks, no cross-grid accounting, no need for coordinated operations or management

# What is EGI Operations?

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## Focus on:

➤ **A large-scale, production Grid infrastructure – build on National Grids that interoperate seamlessly at many levels, offering reliable and predictable services to a wide range of applications, ranging from “mission critical” to prototyping and research**

¿ **A loosely coupled federation of NGIs with little or no cross-grid activity, heterogeneous and sometimes incompatible middleware stacks, no cross-grid accounting, no need for coordinated operations or management**

On the Transition to EGI...

# **CURRENT STATUS**

1. The conclusions of the EGI\_DS WP3 workshop in Rome, March 2008, included a statement that the goal is to provide: ***"A large-scale, production Grid infrastructure – built on National Grids that interoperate seamlessly at many levels, offering reliable and predictable services to a wide range of applications, ranging from "mission critical" to prototyping and research."***
2. In addition, the EGEE III work-plan includes the goal of ***"migration to the EGI structures..."***
3. Furthermore, the EGI\_DS DoW includes the following goals:
  - a) **Build on the experience and successful operation of EGEE and related projects**
  - b) **Make EGI operational before EGEE III ends.**

4. These needs are clearly essential for a number of large-scale application communities that not only use Grid resources in production on a daily basis, but were also instrumental in arriving at today's level of production Grid infrastructure.
5. It is important to note that such communities have implemented large Operations and Application Support infrastructures that build on those provided by the underlying Grids to meet the specific needs of the communities that they serve. Such infrastructures will not only be needed in the future, but must also adapt to whatever changes occur in the underlying Grids. Again, such changes must be non-disruptive and timely.
6. A further outcome of the Rome workshop is the proposal by the EGI\_DS MB to produce a ***"portfolio of operations services that NGLs may decide to buy into"***.

7. Given the above and the fact that – by construction – EGI\_DS does not provide Grid services today, the only feasible solution is for EGI\_DS to engage immediately and enthusiastically with not only production Grid service providers but also their (key?) user communities. [ comment – as many as possible ]
8. As such, the "*portfolio of services*" must be based on those of existing operational Grids, building on existing knowledge, experience and directions, such as the EGEE Operations Cookbook and equivalent documents from other production Grids.
9. If it is to have a chance of succeeding on time, this work must commence immediately and must be reflected in – i.e. an important element of – the June EGI\_DS workshop. The work-plan for migration to the EGI environment must be well advanced by the time of the EGEE'08 conference. It must be followed proactively by all parties involved through-out the definition and execution of the work-plan, with joint responsibility from all stake-holders.
10. For WLCG, the environment that will be used for 2010 data taking and processing must be in place no later than Q3 2009 – this has clear implications on the above. Furthermore, stability during the 2009 data taking and reprocessing period is required.

**WHAT SHALL (CAN) WE DO?**

# Proposals - Introduction

- We clearly needed to be actively involved in defining WLCG operations post-EGEE III
- There is much(?) to benefit for all parties if this is a common – and not divided – effort
- **But this has been going on for a long time and if it is converging, the process is far too slow for our needs**
- We need to get actively involved **NOW**
- **We are already actively involved in EGEE III and also other Grid projects on which WLCG relies**
- **The “missing link” is bridging the gap with the NGIs**

# Proposals

1. From today, get actively involved in the process of defining EGI operations and the transition from the current status – through EGEE III into EGI and beyond
  2. There is an EGI\_DS meeting tomorrow in MUC in which to carry this forward
  3. And the OGF in Barcelona, which already includes from EGI\_DS events
  4. We must be pro-actively involved in defining the agenda of – and preparation for – the EGI\_DS workshop at CERN June 30
  5. This must continue thru EGEE '08 in Istanbul and beyond
- **At any point along this path we might decide to go a separate route – we must be clear about this and also the goals of targeting as broad a spectrum of application communities as possible.**

## Yes, but...

- The seems to be very little (pronounced “no”) sense of urgency regarding the deadlines that have been (re-)discussed and (re-)agreed
  - **💣 We keep falling back to “clean sheet” and post-transition discussions**
  - IMHO, WLCG has no option but to forge ahead with a plan consistent with the timelines dictated by the LHC
  - If – now or more likely later – we can somehow re-synchronize with EGI\_DS so much the better
  - Adopting a “waiting game” at this stage does not seem to be a useful approach...
- ¿ *See you in Barcelona?*