European Grid Initiative

From EGEE to EGI

EGEE '08
Bioscience Community Meeting

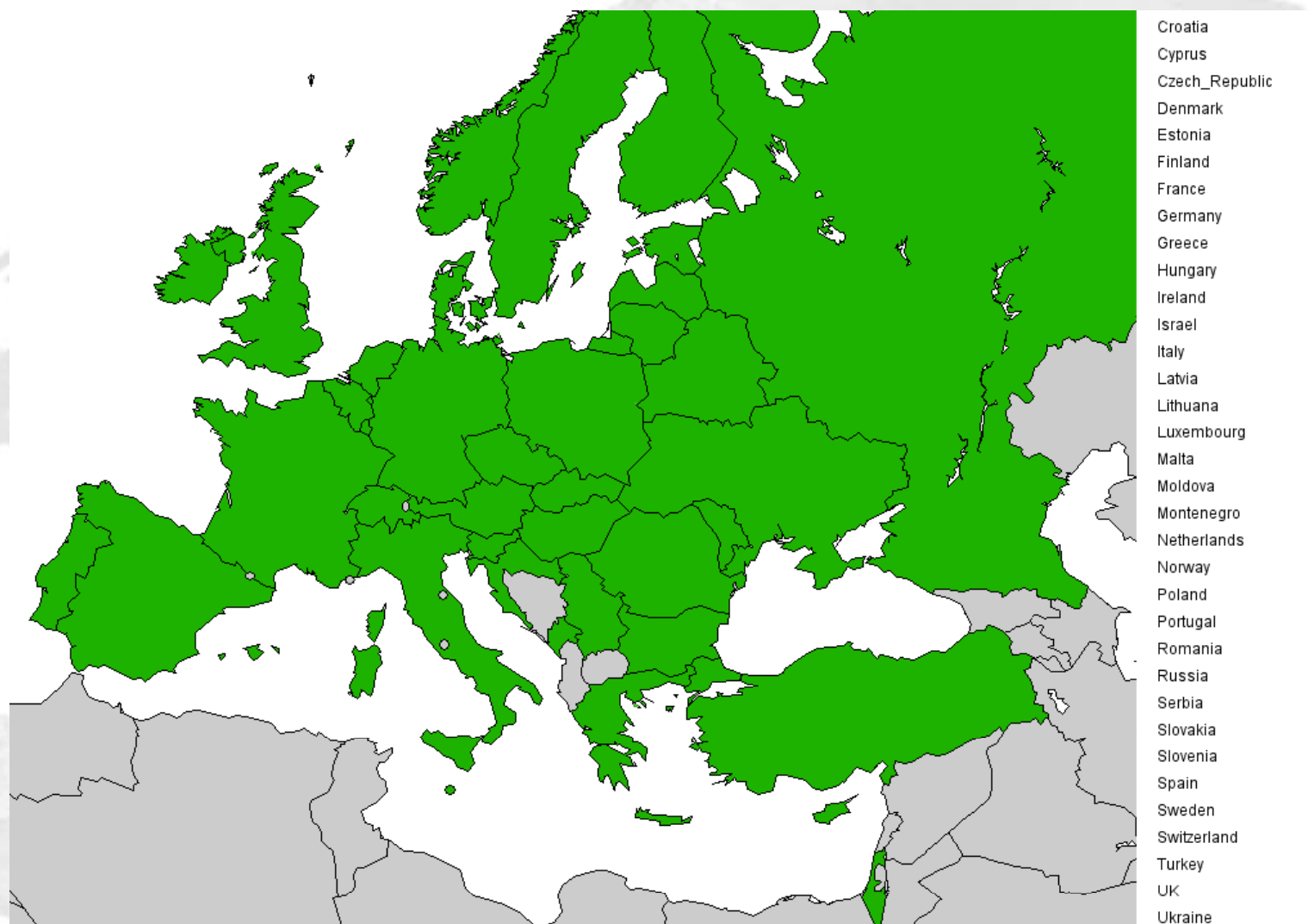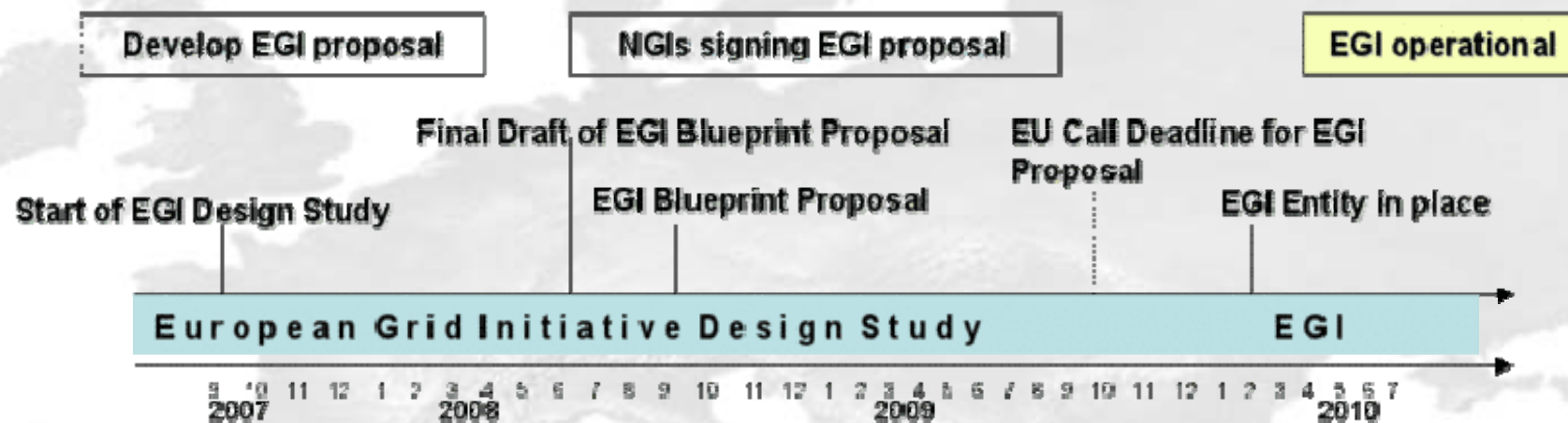Diana Cresti, INFN

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Contents

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- EGI.org

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- (Types of SSC)

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38 National Grid Initiatives

Croatia
Cyprus
Czech_Republic
Denmark
Estonia
Finland
France
Germany
Greece
Hungary
Ireland
Israel
Italy
Latvia
Lithuana
Luxembourg
Malta
Moldova
Montenegro
Netherlands
Norway
Poland
Portugal
Romania
Russia
Serbia
Slovakia
Slovenia
Spain
Sweden
Switzerland
Turkey
UK
Ukraine

EGI Timetable

Develop EGI proposal

NGIs signing EGI proposal

EGI operational

Final Draft of EGI Blueprint Proposal

EU Call Deadline for EGI Proposal

Start of EGI Design Study

EGI Blueprint Proposal

EGI Entity in place

European Grid Initiative Design Study

EGI

9 '10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7
2007   2008   2009   2010

EGI.org cost table

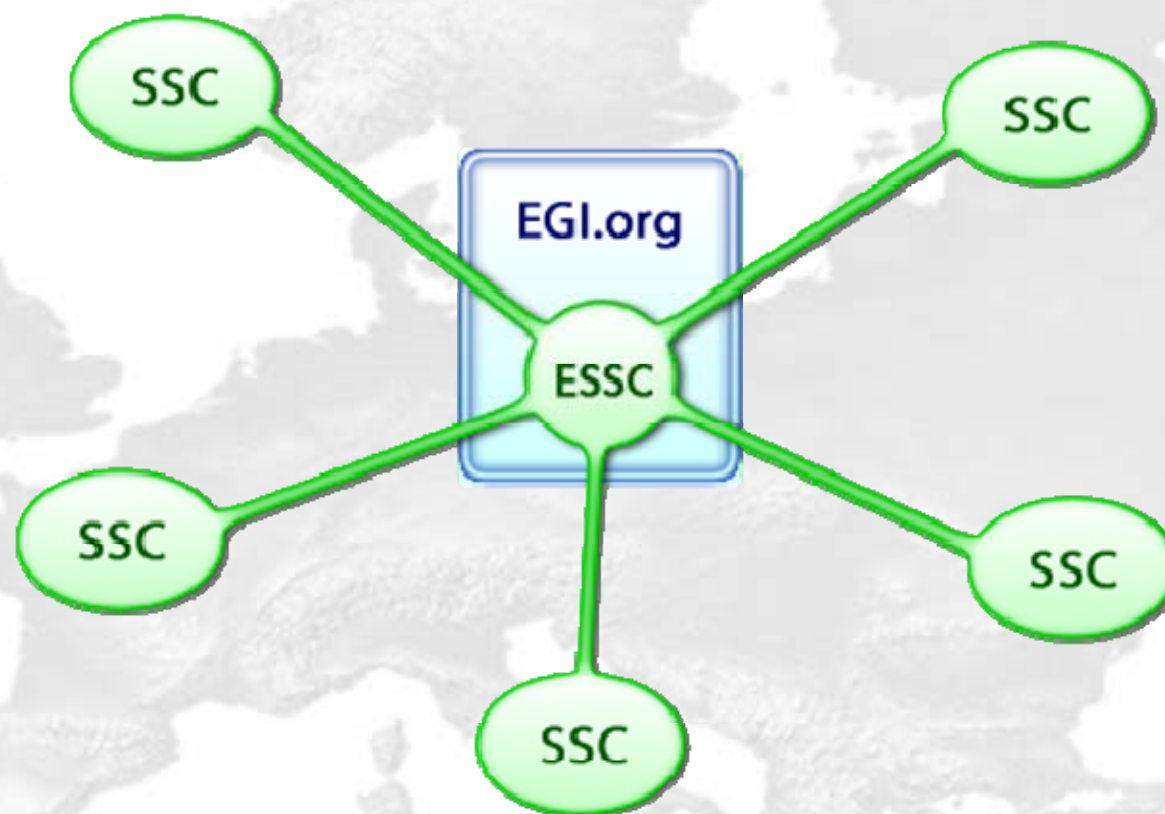| Category	EGI.org cost in FTE/a
Operations	17
Middleware interfaces and final certification	8
Application support and Training	12
EGI.org Management and Administration	10
Total	**47**

EGI.org Application Support

- Mostly coordination and representation:
  - Grid Planning (2 FTE)
  - Services for New Communities (2 FTE)
  - Support to SSC interfacing activities (2 FTE)
  - Event Organisation

- What exactly is being coordinated?
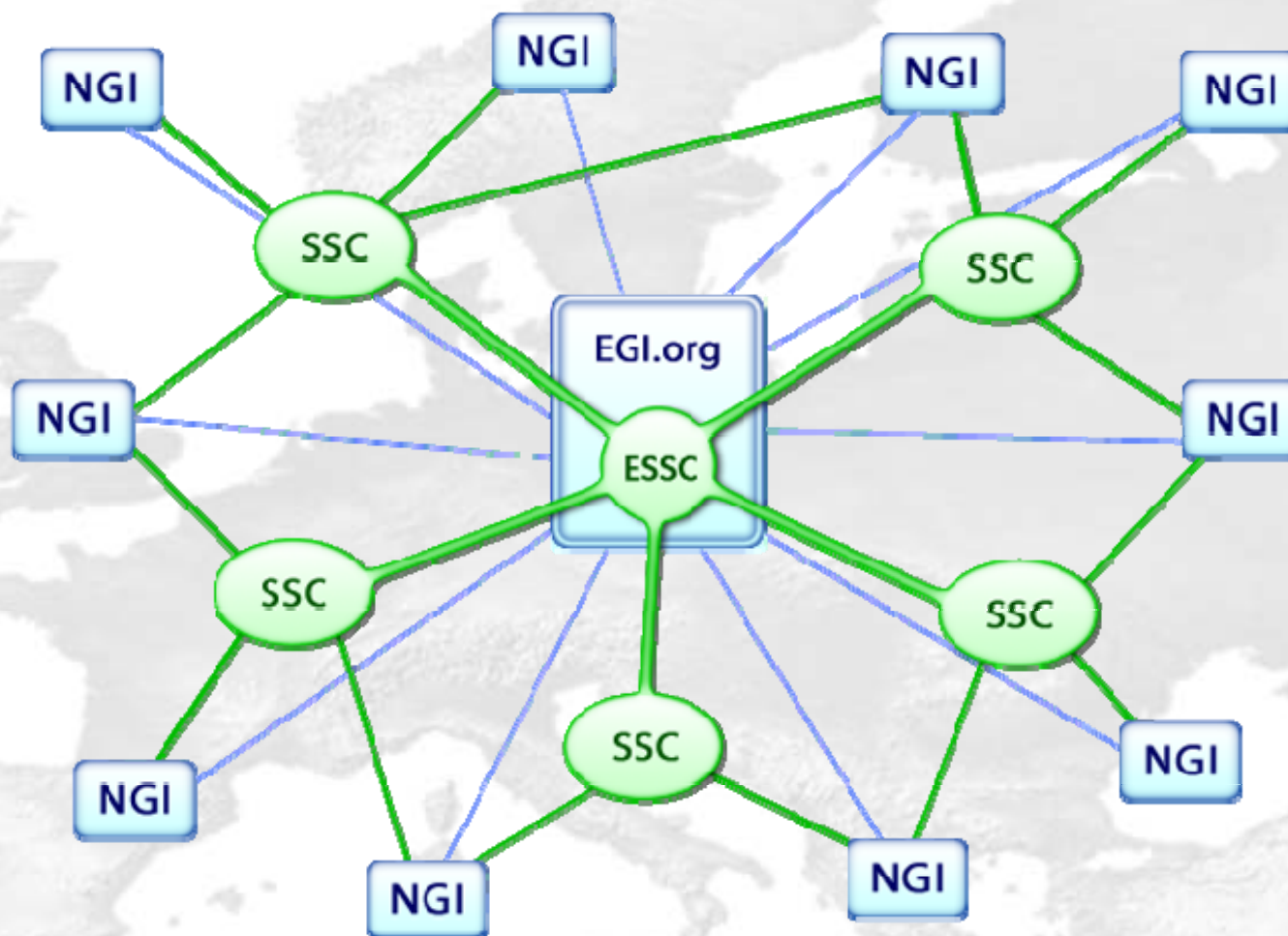- What are these SSCs?

Extended Support Services

- A detailed list of services, thanks to the input of EGEE-III NA4, is given in EGI_DS deliverable D3.1, chapter 8. See draft at [add link]

- The needs of scientific communities cannot be assumed *a priori* to be homogeneous and well known. Each community has its specific applications, its specific training needs, and its specific communication venues. Hence the extended support services must be articulated according to well defined sets of requirements by each scientific community. This leads to the concept of **Specialised Support Centres** (SSCs).

- The Extended Support Services are constituted by the SSCs + central coordination by EGI.org.

Specialised Support Centres (SSCs)

SSCs and NGIs

SSCs and NGIs - guidelines

➢ The articulation in SSCs will provide flexibility to the EGI ecosystem, minimising the load on the central EGI.org (hence the NGIs' "membership fee"), and allowing the NGIs to support the parts of the system that are closest to their interests and would benefit most from federation of resources.

➢ An SSC can be hosted by an NGI that has (or can host) the appropriate resources and European-level commitment, under a specific agreement with the other member NGIs and EGI.org.

➢ There is no obligation for an NGI to be part of any SSC. An SSC can (and should) have a mechanism to allow new members to join at a later date, or – if appropriate – to allow a community within an NGI to make "partial" use of its services, which would be properly acknowledged by the relevant NGI.

➢ The formation of SSCs will be carried out under assessment by the EGI governing bodies of proposals submitted by federations of NGIs and the relevant VOs. These plans should include timetables for the evolution of the SSC and resource estimates, for which we give some guidelines below.

➢ An SSC can be formed for a particular scientific area (Biomed, Astro, Archaeology, …) but it may also be formed for specific user needs. Examples of SSCs can be drawn from the characteristics of the projects in section 1.1 – e.g. there could be a Training SSC or an SSC for interoperation with massively parallel applications (in collaboration with DEISA/PRACE), etc.

The practical job of an SSC:
some examples

- Build and maintain a European-level scientific portal and provide varying levels of interfacing with national gateways that share the same purpose.

- Front desk services for new communities.

- VO services: representation, creation counseling, support and development of specialised tools, site testing support, SAM test repository; general VO management and interaction (if required) with national VO managers.

- Application porting support; application porting case studies; "help desk" for application developers.

- Direct user services: creation and maintenance of FAQs, use cases, how-tos, specific documentation and mini-tutorials; free demonstrations for new communities; identification of common problems affecting users, notification of relevant people, and following the problem to resolution.

- Central "interdisciplinary" services:
  - Coordination of the interactions between users and middleware developers. Coordination of the interaction between users and operations.
  - Application database. To allow applications to be "registered", permitting people to search for similar applications and contact the authors for guidance.
  - Selection of software that can help application developers use the grid infrastructure, but are not (at a given time) part of the core Middleware – e.g. RESPECT.

SSC Evolution

Specialised Support Ctr (SSC)	2009		2010				2011				2012				2013				2014				2015		
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3

Bio SSC
- BioProject.1
- BioProject.1.1
- BioProject.2
- BioProject.3
- Stable services BioProjects 1 + 2
- BioProj.3.1
- Stable services for communities fr BioProjects 1 + 2 + 3

Data SSC
- DataProject.2
- DataProject.1
- DataProject.1.1
- DataProject.3
- Stable services ...aProjects 2 + 3
- Stable services for communities from DataProjects 1 + 2 + 3

ES SSC
- ESProject.3
- ESProject.2
- ESProject.1
- ESProject.1.1
- Stable services for communities from ESProjects 1 + 2 + 3

Science Gateways

SSCs and Large Scientific Infrastructures

- The prototypical case is the ESFRI projects.

- The relevant SSC should take the leadership in setting up a dialogue with the relevant ESFRI counterpart to model the expected integration between EGI and the ESFRI project and provide a liaison with EGI grid planning and management.

- More…

Summary