

EGI model for interaction with other regions

eInfrastructures meeting on EGI
transition

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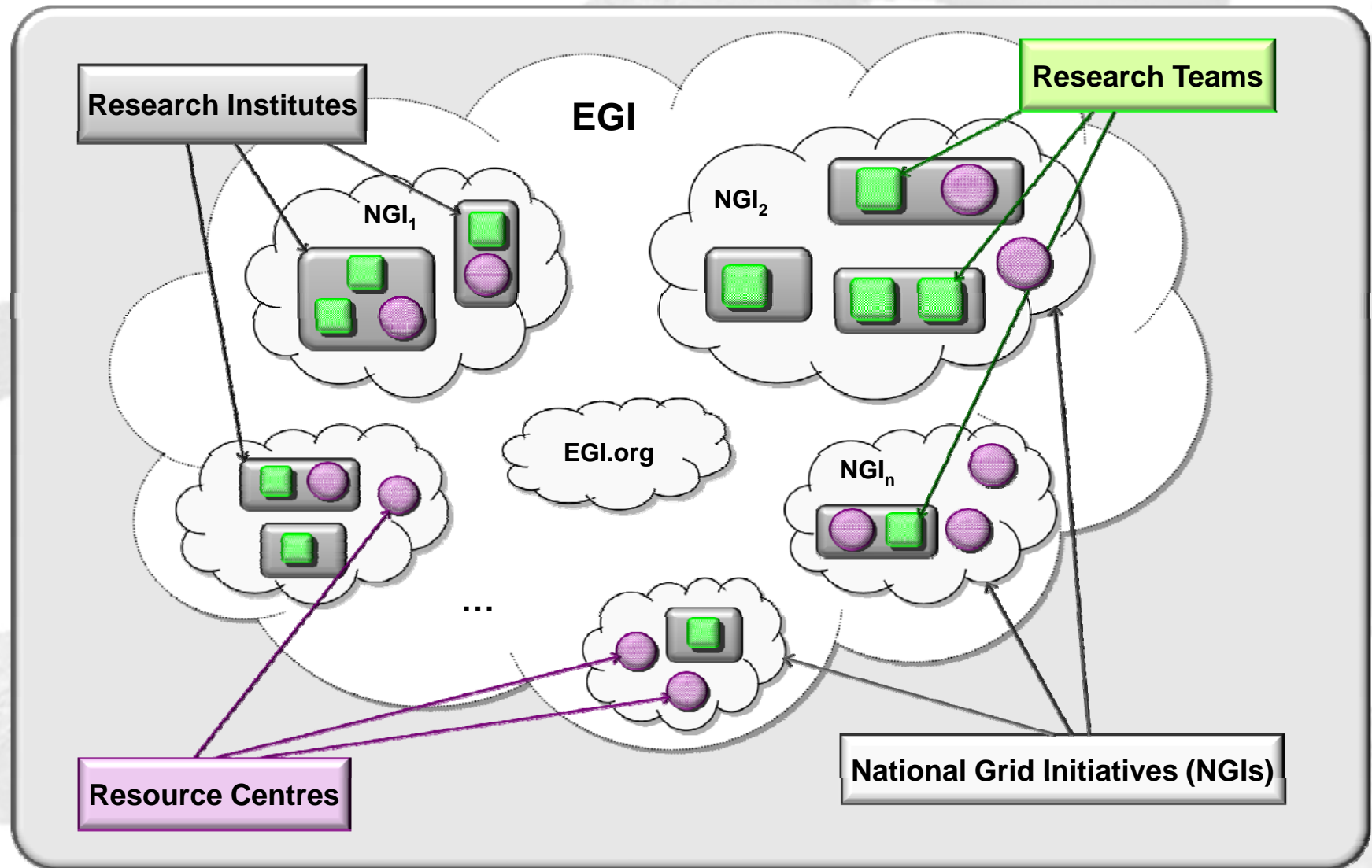
EGI_DS Technical Director

European Grid Initiative - EGI

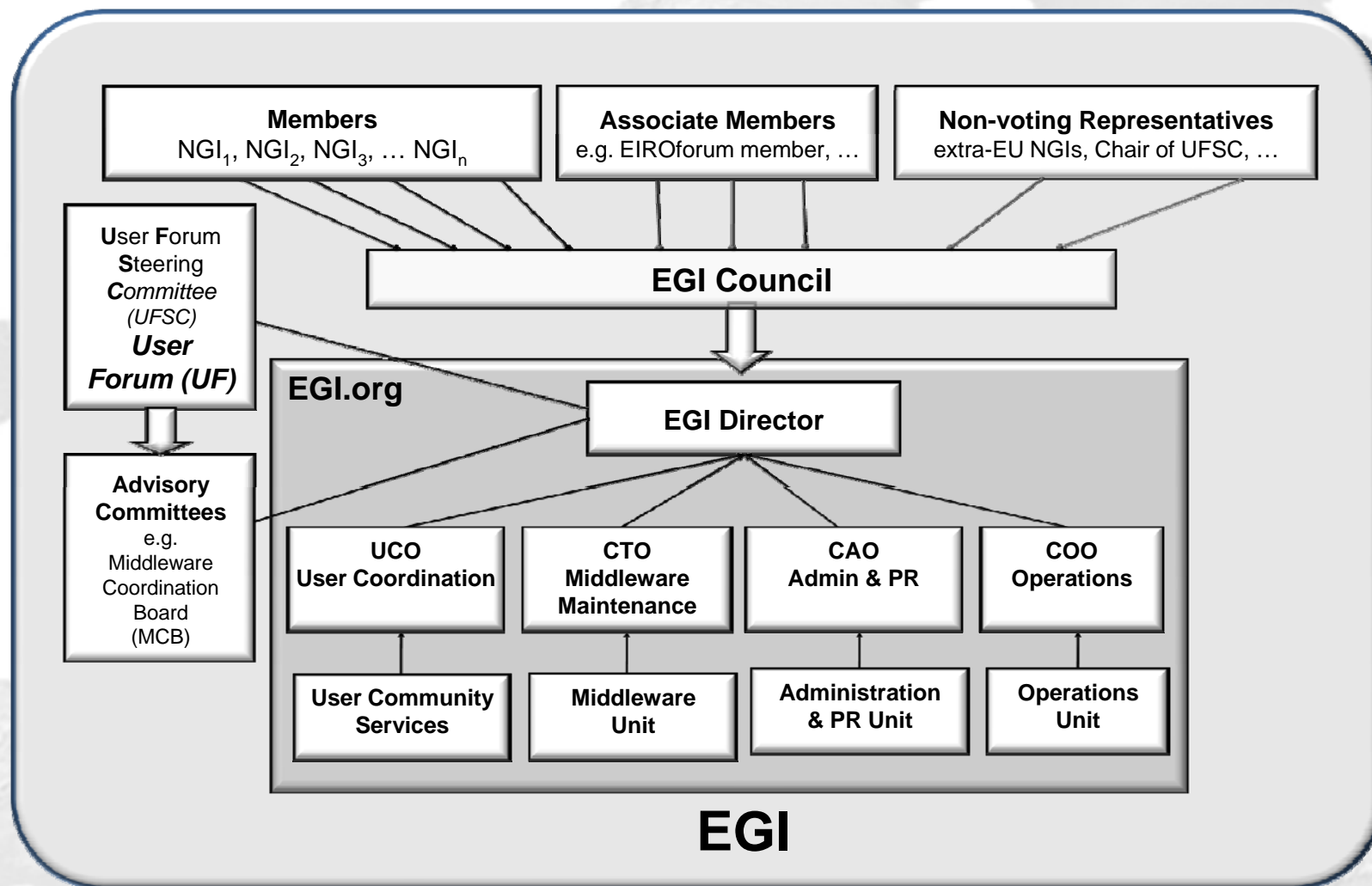
- Partnership between National Grid Initiatives (NGIs) and coordinating body EGI.org
- Main functions:
 - Operations and security
 - Middleware
 - User community services
 - External liaison tasks
- Most activities performed by NGIs

Provision of a large-scale
production Grid
infrastructure
MW: Coordination – no
development

The EGI Actors



EGI Management/Governance



Resources and Funding

- EGEE and similar European Grid infrastructure projects rest on three pillars for financial support:
 1. Co-funding by the EC
 2. Matched national funding
 3. National/institutional funding for computing infrastructures and their operation
- Long-term primary EGI funding is at the national level
- EC funding for
 - Initial funding during startup
 - Coordinating national efforts and activities spanning several countries
 - Supporting innovation

Resources for EGI.org

| Costs for | EGI.org Costs (in FTE/a) |
|--|-------------------------------------|
| Operations | 17 |
| Middleware interfaces and final certification | 8 |
| User Community Services | 11 |
| External Liaison Functions | 4 |
| EGI.org Management and Administration | 11 |
| Total | 51 |

Resources in NGIs

| Task | Small NGI | Medium NGI | Large NGI | “Sum” |
|--|-------------|------------|-----------|---------|
| Operations and Security | 2-4 FTE | 5-10 FTE | 14-22 FTE | 225 FTE |
| International User Community Services | 0.5-1.7 FTE | 1-2.5 FTE | 1.5-4 FTE | 60 FTE |
| Specialised Support Centres | | | | 50 FTE |

Based on current experience

These resources exist in countries with operational grid infrastructure

EGI Financial Reference Model

| | NGI International tasks | | Middleware maintenance | EGI.org | Total |
|--|-------------------------|---------------|------------------------|---------|-------|
| | Operations | User services | | | |
| Costs | | | | | |
| EGI Effort (FTEs) | 225 | 110 | 70 | 51 | |
| EGI costs (M€/year) | 20.25 | 9.90 | 6.30 | 4.59 | 41 |
| Income | | | | | |
| NGI membership fees (M€/year) | | | | 1,0 | 1 |
| EC Contribution (M€/year) | 10.125 | 4.95 | 3.15 | 1.80 | 20 |
| NGI, Middleware consortia and EIRO/ESFRI co-funding Contribution (M€/year) | 10.125 | 4.95 | 3.15 | 1.80 | 20 |

Funding view of NGI



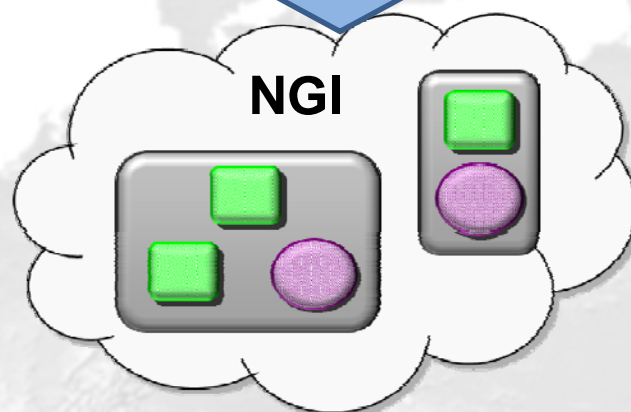
EC Funding

600 k€

600 k€



National
Co-Funding



“Average medium
sized NGI”

Membership
Fees **30 k€**

EGI.org

Steps for Establishing EGI.org

- Selected location – Amsterdam
- Legal structure in place – June 2009 ?
 - Foundation
 - Preparing statutes
 - Preparing MoU and Lol
- EGI.org Director in place - ?
- EGI.org first budget available - ?
- All required personnel in place - ?

Establishing Task Forces

1. Establish legal structure
 - Amsterdam and EGI_DS
2. Define Transition
 - Questionnaire and list of names
 - 31 (out of 42) replied – 21 to Questionnaire
 - Produce transition document – June 2009
3. Write EC proposal(s)
 - Call opening July 30th – closing Nov 10th

For Each Task:

- Describe current status, where it is done, current effort
- Possible evolution to EGI – sharing EGI.org – NGI
- SLA
- Agreement with task owner some kind of “MoU”
- Become part of EC call

March 09

April 09

June 09

July 09

Nov 09

To be nominated by NGI:

- **NGI Operations Manager:** Responsible for the overall effective running of the NGI and its sites.
- **NGI Security Officer:** Responsible for the operational security within the NGI and its sites.
- **NGI Operations Tool Manager:** Person responsible for the operations tools being developed or deployed within the NGI and their interfacing into any central monitoring infrastructure.
- **NGI User Support Manager:** Responsible for running the helpdesk within the NGI and defining and delivering the user support model.
- **NGI First Line Support Manager:** Responsible for delivering the first level operations support in the NGI by ensuring sites resolve problems spotted by the NGI monitoring (currently called R-COD) and defining the operations procedures and best practices in the NGI.
- **Networking Manager:** Liaison to NREN for Grid-specific tasks
- ... and – if available - contact persons for: Certification, Accounting, Middleware Deployment, Documentation & Training, Dissemination, extra EU-Grids

EGI International Relations

- **Blueprint:**
- EGI will liaise on different levels with other grid initiatives worldwide. There are plans to form the equivalent of EGI in Latin America and Asian countries have all expressed their intention to continue the expansion of grid usage in the future and see interoperation with EGI as crucial. The same is true for the Open Science Grid in the US and other grid infrastructures in the world.
- To ensure cooperation at the management level of EGI with equivalent structures around the world, in an initial phase, representatives from other regions will be accepted as non-voting observers in the EGI Council and this invitation could then be reciprocated. In a more long term future, in line with the interest expressed by several extra European grid infrastructures, EGI could foster the set up of an overall world-wide coordination aiming at supporting international interoperability through the adoption of standards and common policies.

Does your organisation have specific contacts/relationships for grid matters with non-European countries (i.e. US, Latin Americas, Asia)?

- 7 out of 21 positive answers
- Spain: PIC has a relationship with the Open Science Grid and TeraGrid in the context of observational cosmology and engineering research projects. EELA2 project partners are actively promoting and enabling the establishment of JRUs and NGIs throughout the countries in Latin América. ...establishment of Grid JRUs in Brazil, Colombia, Panamá, Ecuador, Argentina, México, Venezuela and Perú. ...leading the definition of an LGI (Latin American Grid Initiative) The information and methodologies produced in the frame of the Spanish Network for e-Science have been of high interest in this frame. IFIC(CSIC) is collaborating with the CNRST (Morocco) in the deployment of a GRID Analysis Facility, which will start-up a connection with the Northern Africa area.

Transition towards EGI

- Major concerns for large European Grid infrastructure projects, esp. EGEE
 - Need to keep users “happy”
 - Need to keep resource providers “happy”, too
 - No visible gap in operations
 - Any necessary changes announced in advance and clearly described and explained
- All this implies rather strict constraints

Transition towards EGI II

- Major issues
 - NGIs maturity level
 - The EGEE JRUs not always identical with the proto-NGI
 - NGI not fully affiliated with EGEE (or similar projects)
 - Representing/working with different user communities
 - Different approaches toward national infrastructures
 - EGI.org
 - Key personnel identification

Further steps

- NGI assessment
 - Requirement from the review
 - To identify status of preparedness
 - To confirm
 - Acceptance the EGI framework as described in the Blueprint
 - Commitment to the EGI.org fees
 - Commitment to the NGI international tasks and their co-funding
 - MoU to define the EGI Council membership
 - Preceded by Letter of Intent to speed up the process

Securing EGI funding

- Targeting EC call July-November this year
- A “Transition towards EGI” project
 - To setup all the components
 - To take over EGEE and other Grid infrastructure projects (esp. operations)
 - To initiate and check (by implementing) all the processes described in the Blueprint
- UMD development project(s)
- User communities support

Expected further events/processes

- For EC co-funding, target the EC call this Autumn
- Identification of project partners
 - Loi and MoU, Establish the EGI Council in May
- Confirmation of project editorial board
 - By NGIs who signed the MoU (the EGI Council)
 - In parallel with EGI.org setup and key personnel identification
- Writing the project
 - Since July/August 2009

Transition Milestones

- March 12: Deadline for technical persons from NGIs
 - Will work on transition document (which will also be a core of future project)
 - Early April: MoU and Lol available
 - End April: Lol signed by interested NGIs
 - May 6: (proto)EGI Council established
 - NGIs signing Lol are constituents
 - The EGI Project(s) team confirmed; this includes the project director(s) identification/confirmation (the person who will lead the team(s))
 - June: MoU signed, (full)EGI Council setup
 - The *Transition towards EGI* Deliverable published
 - March—May: EGI.org setup preparation
 - Includes search for EGI.org director and identification of EGI.org key personnel
 - June: EGI.org director appointed/identified
 - September: EGI.org setup at the latest (one month before the call closure)
 - July—December: EGI Project(s) preparation and submission
- The MoU signing will continue after June, but the “latecomers” may not have direct influence on the composition of project preparation team nor on the selection of EGI.org director