



European Grid Initiative



EGI Design Study

Requirements Consolidation and Use Case Definition

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CESNET, GRNET

- Statistics of obtained use cases
- Detailed analysis of the content
- Definition of next steps

- Use cases letter

EGI - European Grid Initiative
Towards a sustainable production grid infrastructure
www.eu-egi.org

23.08.2007

Dear Colleague,

Let me inform you, as one of key players in the area of Grid computing, supercomputing, and distributed computing, about the latest developments of the **European Grid Initiative (EGI)**.

The EGI Design Project (EGI_DS)¹ represents an effort to establish a sustainable Grid infrastructure in Europe, which requires a new model for the collaboration between the **National Grid Initiatives (NGIs)** and the future **EGI organisation**. Driven by the needs of the research community, EGI will enable the next leap in research infrastructures, thereby supporting collaborative scientific discoveries in the European Research Area (ERA).

As a first step towards this goal, we need to **identify the potential actors in this new Grid environment, and collect their requirements in the form of use cases of Grid deployment and usage**. This includes typical practices, daily experiences, common situations encountered when using Grids, as well as wishes and expectations of the role, functions and properties of the future Grid infrastructure.

We ask you to send us one or more use cases that you believe are relevant to this goal. In the following pages, we provide a template and some guidelines which may help you in constructing your use cases, assuming you don't have any already prepared. The template can be used as an illustration of the information that we are looking for, however, it is not mandatory if its structure does not match your view on the topic. Free-form use case descriptions are welcome.

Please send us your input via email to usecase@eu-egi.org by **Friday, 21 September 2007**, so we can present a comprehensive set of use cases during the upcoming EGI Workshop on Tuesday, 02 October 2007.

If you have any other questions or remarks on the above, please do not hesitate to contact us at the same address, or for any other generic question at contact@eu-egi.org

Yours sincerely,


Dieter Kranzlmüller
EGI_DS Coordinator
(on behalf of EGI_DS)


Stelios Karayannis
Requirements Capture and Analysis
Work Package Leader

- **Expected recipients**

	no. of recipients
– primary audience	
– NGI representatives	37
– secondary audience	
– EGEE application domain representatives	8
– EGEE related project leaders	40 (appr.)
– EGEE ROC managers	11

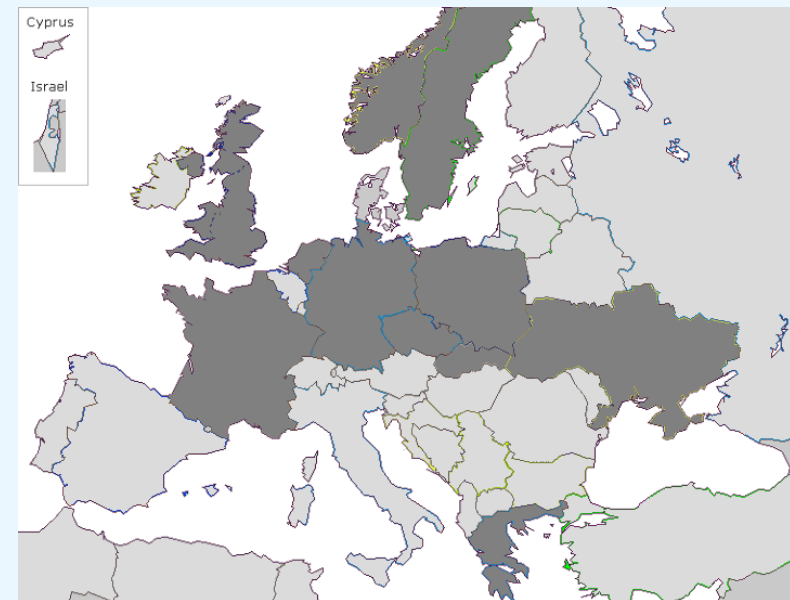
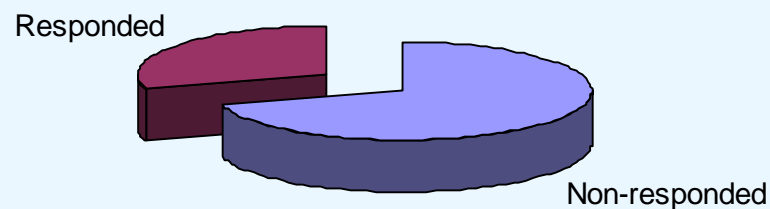
- **Expected recipients**
 - **tertiary audience**
 - EGEE VOs managers
 - contacted by CIC portal broadcast tool
 - positive feedback from VOs managers leader

- **Primary audience**

- **11 respondents**

- Czech Republic, France, Germany, Greece, Netherlands
Norway, Poland, Slovakia, Sweden, UK, Ukraine

Primary audience response



Secondary audience response

- **Secondary audience**

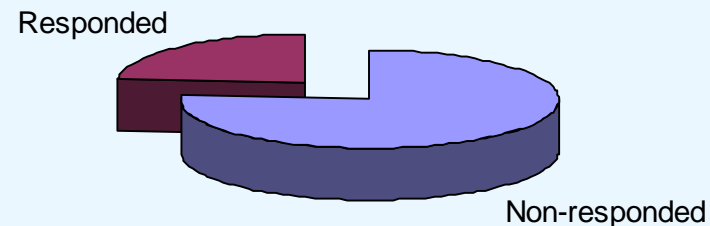
- **14 respondents**

- AccessGrid, BioInfoGrid, CERN, CSC

- DEGREE, EELA, EUChinaGrid, EUMEDGrid, Grid Observatory

- Institute of Physics Cantabria, Interactive European Grid

- KnowARC, NorduGrid, Universidad Politecnica Valencia

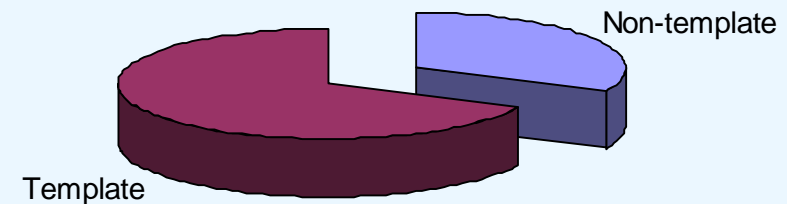


- **Tertiary audience**
 - **1 respondent**
 - VO IDLG
 - still at the beginning of collection
 - promise to be coordinated by VOs managers leader

- **Template utilization**

- majority of use cases in the form of distributed template or template-like form
 - **infrastructure-oriented**
 - **application-oriented**
 - **end user-oriented**
- those in non-template form easily transformable

Template utilization



- **Use cases content analysis / patterns**
 - individual contributions contain from one up to nine cases
 - mechanism for detailed analysis
 - highlights of **specific use cases patterns**
 - distribution of patterns into specific categories
 - definition of key topics / issues
 - **assignment** of respondents **into categories**

- **Access to the infrastructure**

- Projects

- CERN

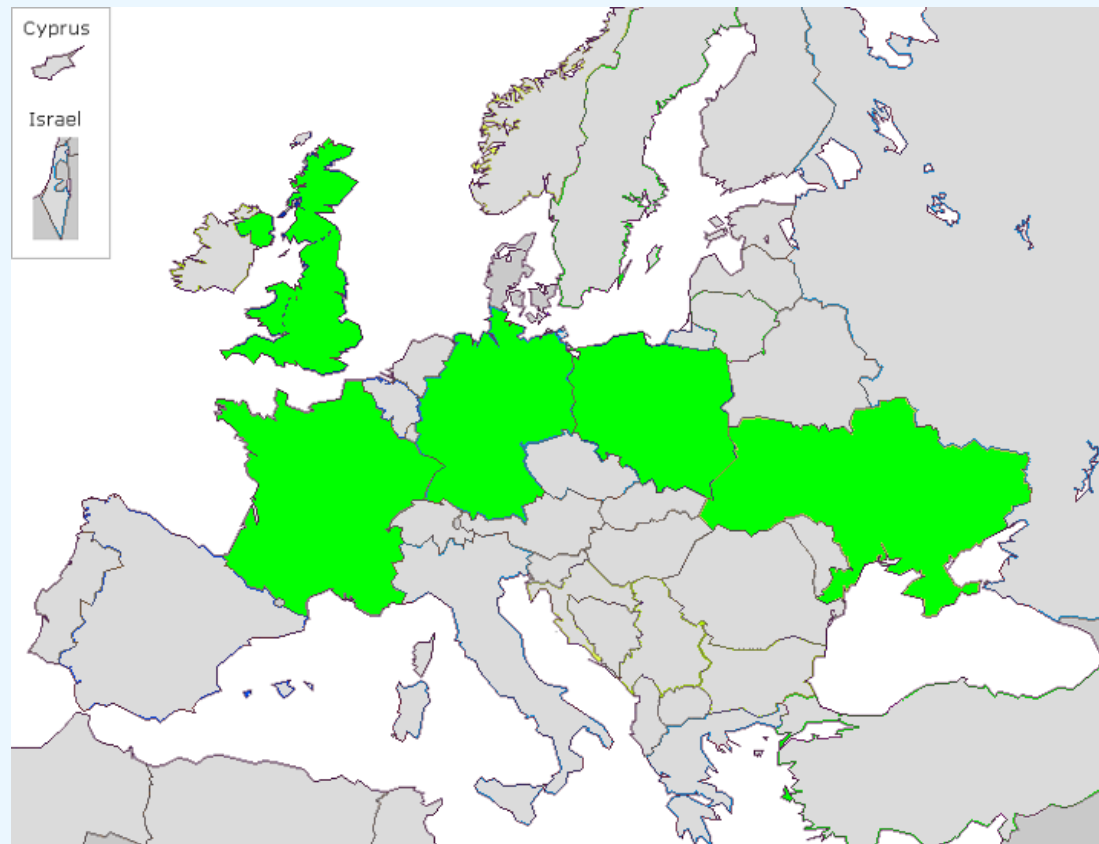
- EUChinaGrid

- EUMEDGrid

- Inst. of Physics
Cantabria

- NorduGrid

NGIs



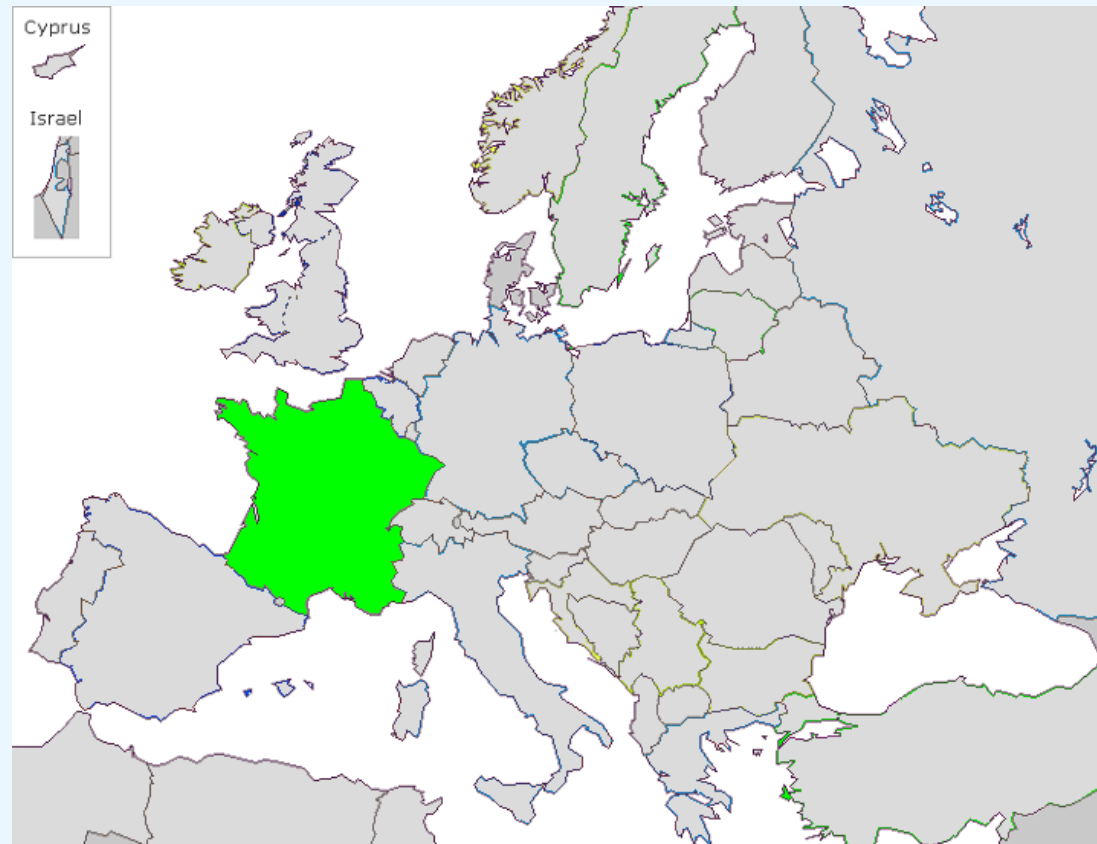
- **Resources monitoring / evaluation**

- Projects

NGIs

- AccessGrid

- CERN



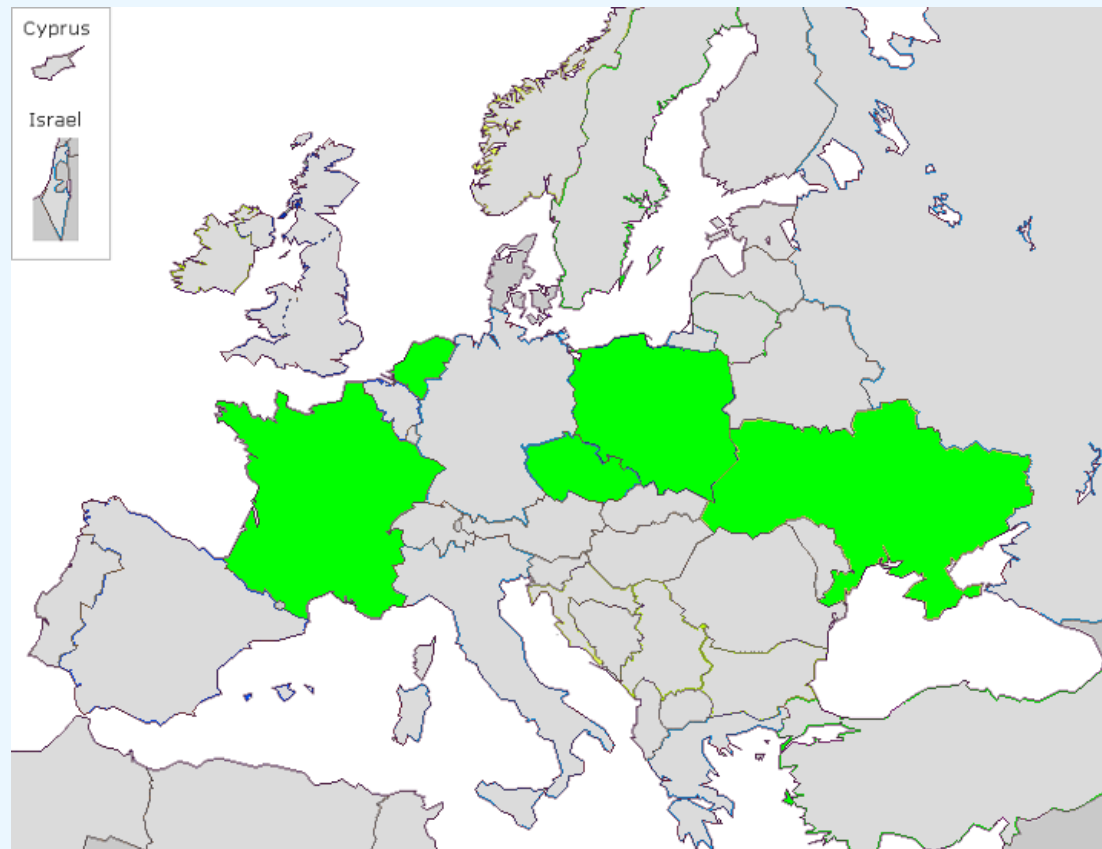
- **Support for small communities / private sector**

- Projects

NGIs

- CSC

- Inst. of Physics
Cantabria



- **Middleware enhancements / deployment / development**

- Projects

- CERN

- DEGREE

- Int. Eur. Grid

- Inst. of Physics

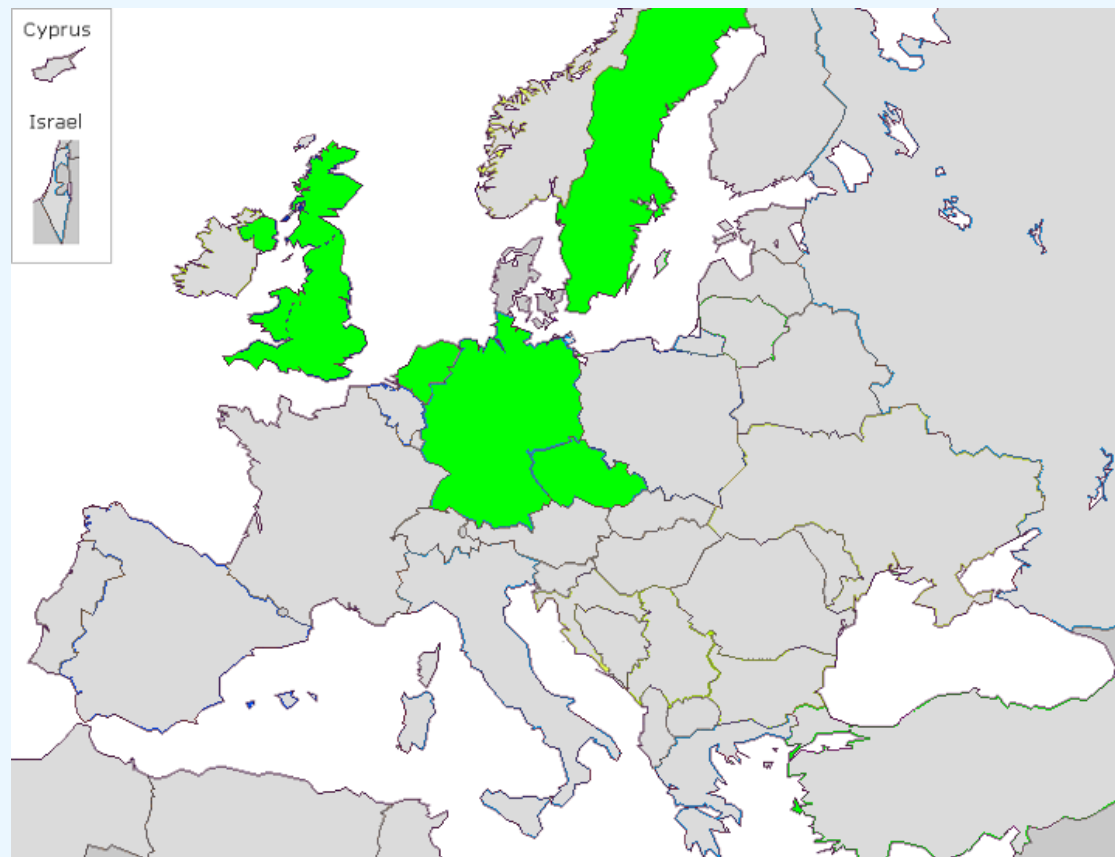
Cantabria

- KnowARC

- Un. Pol.

Valencia

NGIs

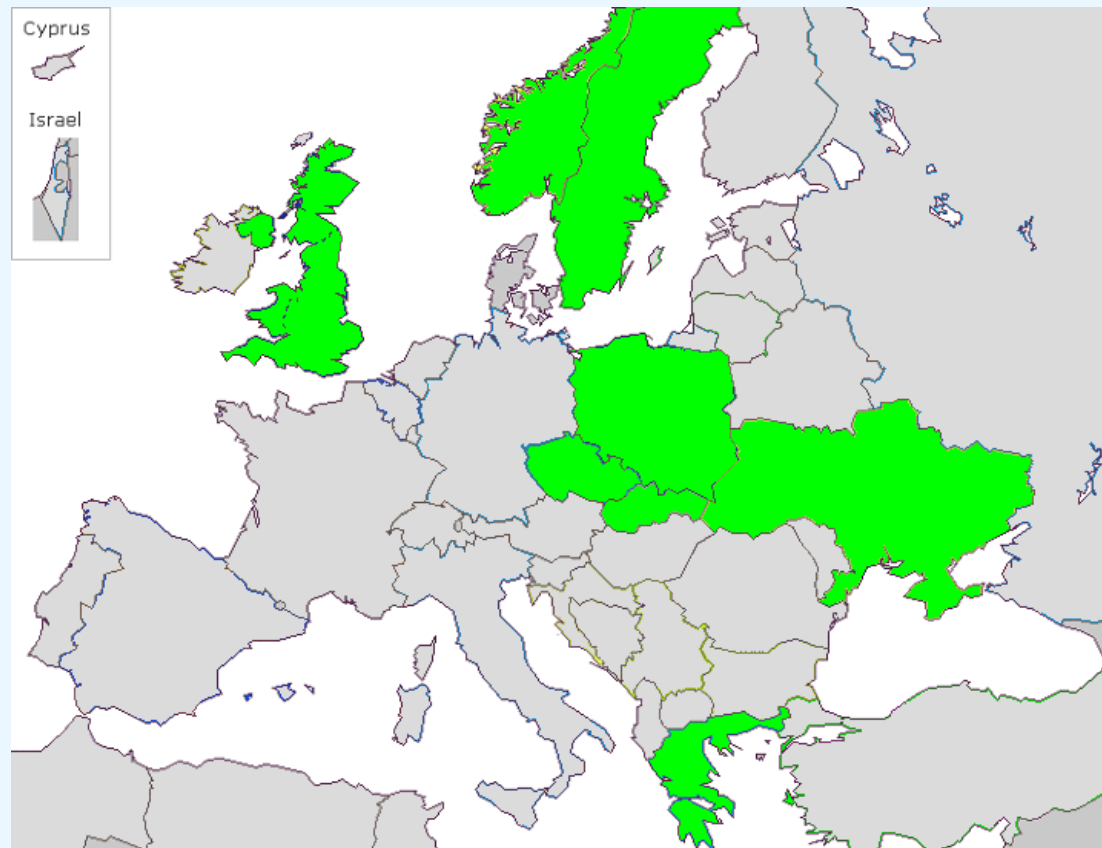


- **Application scenarios (licensing, workflows, examples)**

- Projects

- BioInfoGrid
- DEGREE
- EELA
- EUChinaGrid
- EUMEDGrid
- Grid Observatory
- Int. Eur. Grid
Cantabria
- Un. Pol.
Valencia

NGIs



- **Highly expected aspects**
 - interactions with the infrastructure
 - definition of procedures / policies / SLAs
 - middleware development and maintenance
 - application licensing issues
 - intensive support for parallel run of jobs

- **Non-expected feedback**
 - closed community (private companies)
 - even single user
 - resource brokerage

- **Definition of next steps**
 - **on-going work**
 - **NGI** provide further feedback
no deadline
 - **EGI** perform detailed analysis to get insight
results available before October 28

- **Mechanism for deeper analysis**
 - prepare a list of **individual requirements**
 - map the requirements to WP3 defined list of functions and create appropriate matrix
 - allow multiple **tentative fields associations**

- **Next phase (“starting” October 28)**
 - feedback on the collected and processed use cases
 - requests for specific comments and new use cases
 - modified list of respondents
 - this phase ends in November