

## South-Eastern European GRid-enabled eInfrastructure Development 2

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## SEEGRID NGIs



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# SEEGRID NGIs initiation



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- Albania: - planned for the end of 2007
- Moldova: MDGRID (05/2007)
- Bosnia-Herzegovina: NGI-BA (03/2006)
- Montenegro: MGI (11/2006)
  
- FYR Macedonia: MARGI (04/2005)
- Serbia: AEGIS (04/2005)
  
- Croatia: CRO GRID (01/2004)
- Bulgaria: BGGC (01/2003)
- Hungary: MGKK (2003)
- Turkey: TR-Grid (09/2003)
- Greece: Hellas Grid (01/2003)
- Romania: RoGrid (05/2002)

SEE-GRID2

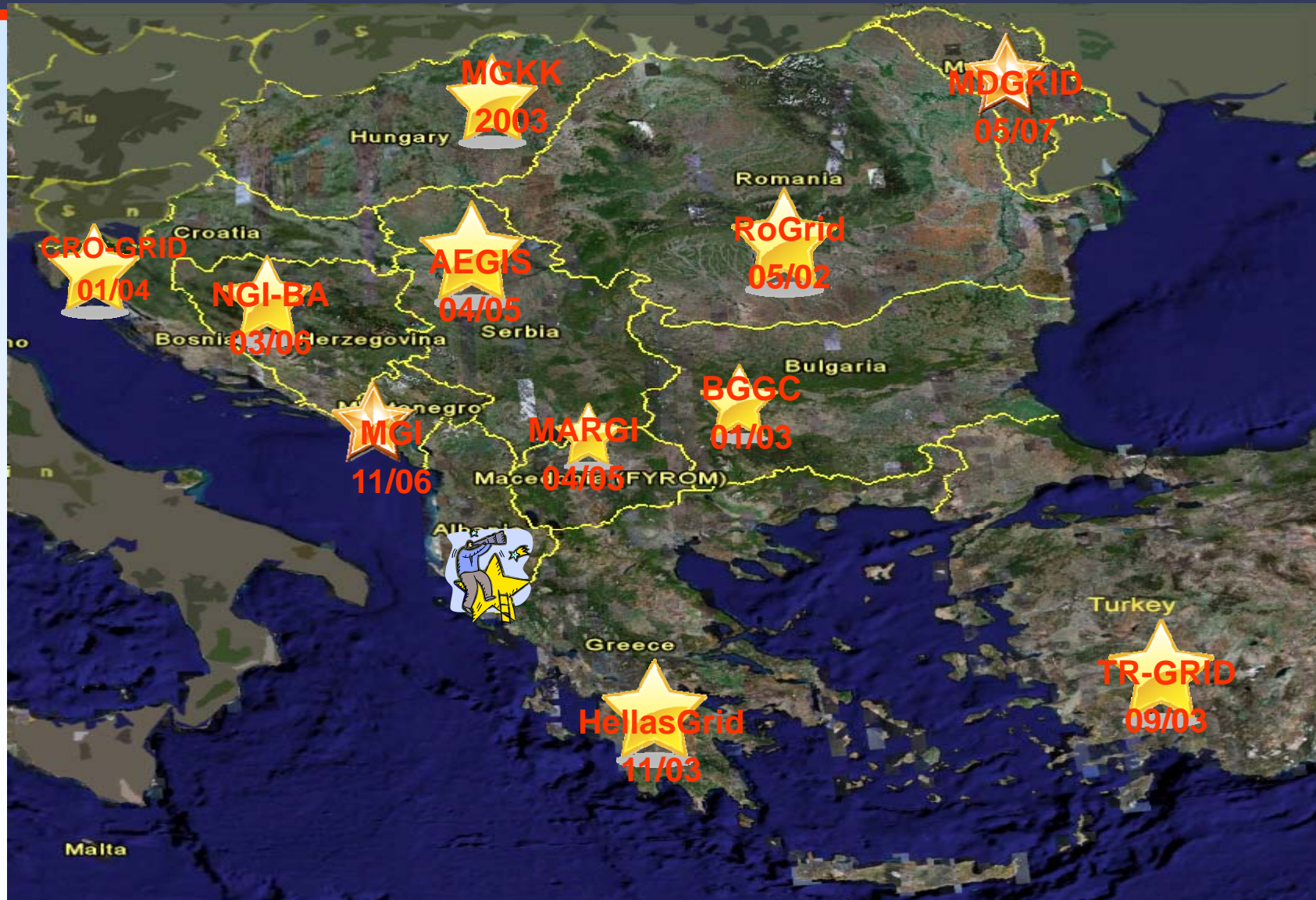
SEE-GRID1

# SEEGRID NGIs distribution



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Before  
SEE-GRID-2



During  
SEE-GRID-2



Planned

# SEE-GRID Policy workshop



- The Policy workshop "*A roadmap for establishing National Grid Initiatives*" was organized by SEE-GRID project during the EGEE'02 conference (24.11.2004)
- Main result: a set of recommendations for NGI development in the SEE region stressing on the importance of :
  - Physical (NREN) and Policy based connectivity between resource centers
  - National programme aiming to integrate the available e-Infrastructure resources
  - Experience accumulated in already Grid established regions and countries

# SEEGRID NGIs Profile



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- Most of them are recognized as initiatives at the national level
- Consortium agreements based organization, no juridical status
- NREN support played an important role in NGI kick-off
- Main funding sources: national and EC projects, national research budgets; short term time frame for current funding
- Both top-down and bottom up enlargement approaches
- NGI Membership is dominated by academia and research A National eInfrastructure Strategy was adopted in few countries
- Adoption of policy documents is unbalanced between countries
- Uneven distribution of efforts in deploying Grid infrastructure core services and operational tools
- In few cases national VOs have been established

[SEE-GRID2: D2.1, December 2006]

# SEE-GRID2 definition of NGI (1/2)



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*"NGI is an open consortium of legal entities or a legal entity acting on their behalf that, for the benefit of research and education community, coordinates, promotes and implements Grid activities at the National level, focusing on Grid deployment and operations, according to a National strategy / research and deployment programme for this field."*

# SEE-GRID2 definition of NGI (2/2)



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## ■ Other requirements:

- To be officially recognized at the national level as responsible for the eInfrastructure
- To be unique in this position according to a national strategy
- To be representative for the research community in the country
- Both top-down and bottom-up approaches should be considered for the consortium enlargement
- Closely cooperate with NREN
- Sustainability as an essential medium-long term objective
- Contribute and adhere to international standards and policies

[SEE-GRID2: D2.2, March 2007]



# NGI creation problems



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- Identifying a critical mass of interested research and academic organization
- Maturity level of local NREN, its involvement and cooperation
- Awareness of relevant Governmental bodies
- National recognition, adoption of a national eInfrastructure strategy
- Medium term stable national funding
- Availability and autonomy level of NREGI
- Participation in international cooperation, access to best and bad practices
- Grid competent community at the country level
- Grid awareness of academic and research communities
- Application development and adoption
- Clear policy for achieving the medium-long term sustainability

# SEE-GRID2 – NGI set up steps (1/2)



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- a. Get in touch with diverse research institutes interested in scientific computing, large computing centres, and NREN; get consensus towards common strategy for Grid development in the country
- b. Sign a MoU (Memorandum of Understanding) within the consortium which would define common goal in setting up an NGI and developing the Grid infrastructure and general Grid activities in the country
- c. Write together a national strategy document. This would state major objectives and approach, and identify potential Grid resources and user groups in the country
- d. Approach relevant ministries (e.g. Science and Technology, Development, Education, Information Technology) with the national strategy document, and try to get their support

# SEE-GRID2 – NGI set up steps (2/2)



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- e. Establish a legal entity or make sure that an established legal entity represents NGI on behalf of the consortium
- f. With the support letter from the Ministry organise an official inauguration event of the National Grid Initiative targeted at slightly wider public
- g. Seek national funding programme by proposing a national-level project
- h. Consider technical aspects: choice of middleware, establishing pilot resource centres even with basic resources, aim to support core services for the pilot national VO, use the VO to establish the sharing culture. Establish a web presence visible to a wider community
- i. Define the national-level policies.

[SEE-GRID2: D2.2, March 2007]

# NGI – Sustainability Indicators



- NGI setup and recognition
- NGI organization and Consortium expansion
- NREN cooperation
- eInfrastructure national strategy
- National Policy documents
- eIRG plans
- National-level projects
- Other sources of funding in Grid area including related projects
- Technical independence i.e. national-level services
- Expansion of national infrastructure
- Sites migrated to EGEE production
- Expansion to new applications and user communities, industrial cooperation

[SEE-GRID2: D2.3a, May 2007]

# NGI benefits



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- Enabling involvement and cooperation of key personnel (Technical people, Policy makers, Stakeholders)
- Raising awareness at user communities' level
- Coherent representation of collective interests in the domain
- Coordinated NREGI development
- Initiating national potential for Grid applications development and stimulating computing intensive domains of science

[SEE-GRID2: D2.1, December 2006]



- What we achieved:
  - a clear understanding of the NGI concept and its role in sustainable development of the national research and education Grid infrastructure (NREGI);
  - definition of major steps and milestones in the process of NGI set-up and consolidation;
  - identification of main policy issues that have to be tackled along the NGI development ;
  - filtering of relevant practices at national and regional levels and recommendations for their implementation;
  - exercising the responsibility of periodic assessment of the achieved NGI preparatory and development status.



- Focus on supporting the National Grid Initiatives of the countries in the region
- Define Guidelines for NGI best-practices
- Propose actions paving the way for long-term integration into wider European Grid operational and organisational models (EGI)
- Dissemination of the NGI know-how
- Develop collaboration with other Regional Grid initiatives