



**PIC**  
port d'informació  
científica

## EGEE – EGI Transition for WLCG in Spain

*M. Delfino, G. Merino, PIC Spanish Tier-1*

*WLCG CB 13-Nov-2009*



Generalitat de Catalunya  
**Departament d'Innovació,  
Universitats i Empresa**



MINISTERIO  
DE CIENCIA  
E INNOVACIÓN

**Ciemat**  
Centro de Investigaciones  
Energéticas, Medioambientales  
y Tecnológicas

**UAB**

Universitat Autònoma de Barcelona



# Spanish Network for e-Science

- The Spanish Network for e-Science is a networking initiative funded by the Spanish Ministry of Science and Education. Started in December 2007.
  - Main goal: to promote and coordinate the development of e-science in Spain.
- Four areas:
  - Applications
  - Supercomputing Infrastructure
  - Middleware
  - Grid Infrastructure
- “Grid Infrastructure” area has mandate to help organize/set up Spanish NGI.
- Participation of Spain in EGI (rough chronology Spring/Summer 2009)
  - Spanish Ministry of Science and Innovation signed the EGI Lol and MoU.
  - Spanish Grid expert panel agreed with Ministry two representatives to the EGI-Inspire editorial board (Isabel Campos/CSIC and Francisco Castejón/CIEMAT)
  - The Ministry designated CSIC as coordinator of the Spanish NGI.
  - Various Spanish groups involved in discussions of SSC projects.
- Ramping-up from proto-NGI in e-Science network to Spanish NGI
  - Integrates the resources in Spain of gLite-based EU projects and provides a mechanism to integrate resources based on Globus Toolkit 4.
  - Emphasis on inter-operability and openness to changing middleware.

# Operations Tasks Status (1/3)

The core of the operations tools will be taken by **CESGA** site. Already doing most of it in EGEE and well involved in the transition (regionalisation) of these tools within EGEE.

- O-N-1: Operations of the NGI Grid topology and configuration repository
  - HGSM repository in place <https://rnagios.ngi.cesga.es/hgsm>
  - In contact with GOCDDB team to interface both DBs
- O-N-2: Operation of the NGI accounting repository
  - Regional accounting repository and portal set up: <http://www.ngi.cesga.es>
  - EGEE/WLCG sites currently publishing both to EGEE global and NGI regional
  - Good expertise at CESGA (EGEE accounting portal developers)
- O-N-3: Operation of monitoring and performance repositories
  - Nagios already deployed for RCs monitoring: <https://rnagios.ngi.cesga.es>
  - Work integrated within the EGEE OAT activity
  - Good expertise at CESGA (EGEE Metrics Portal developers)

# Operations Tasks Status (2/3)

RedIRIS (Spanish NREN) will continue its current role in EGEE as Security Coordinator in the NGI. Also planning to take responsibility of regional ticketing system.

- O-N-9a: Security and incident response coordination
  - RedIRIS will take this in the NGI (already doing it in EGEE).
  - Also responsible of operating the Spanish Certification Authority <http://www.rediris.es/pki>
- O-N-6, O-N-7: Operations of the NGI Ticketing and Helpdesk systems.
  - Responsible sites: RedIris + CESGA.
  - Prototype based on RT already deployed <http://rt-ngi.rediris.es>
  - Still to be done: integration with Nagios and GGUS. If not ready for April, the backup solution will be to use GGUS.

Other NGI operations tasks: Participating sites and effort allocation still needs to be defined.

- O-N-4: Operations of the NGI Operations Portal
  - EGEE regionalized tools (Regops Operation Portal and Regional Dashboard) not yet ready. Plan to deploy them when available.
- O-N-5: NGI infrastructure oversight
  - Operators on duty, ticket processing, ...
  - Groups that will participate and organisation still to be defined.
- O-N-8: Operation of production core services
  - Various sites will run core services.
  - For WLCG, PIC Tier-1 is running FTS and LFC(atlas,lhcb).
- O-N-9b,c,d: Rollout of m/w updates, Resource allocation, Interoperation
  - TBD

# Transition roadmap proposed

Transition roadmap timeline proposed by the Spanish NGI coordinators:

- 24-Nov-2009: EGI-Inspire Submitted
  - Partners list revised, Global and International Tasks.
- Mid Dec 2009: Operational representatives meeting with EGEE SWE ROC
  - Effort agreed. Distribution of work / tasks for operation.
- Mid Feb 2010: Proposal on migration
  - Documents and validation of migration.
- End Mar 2010: Operational procedures and best practices
  - Ready for a test of switching from using EGEE operations tools to using NGI tools.
- End Apr 2010: Deadline for migration

# EGEE to EGI/NGI transition in the WLCG context

- Issues to be addressed
  - Close follow up of critical operations tools transition: Monitoring, accounting, ticketing, GOCDDB
    - The operation of most of these services in the Spanish NGI will be taken by CESGA. Site with a lot of experience in EGEE and well involved in the transition of these tools within EGEE.
  - Grid oversight tasks (COD, ROD, TPM shifts ...): Total effort and participating sites still to be defined.
- Personnel implications
  - Some of the operations tasks will be taken by the same sites doing them now in EGEE-SA1, some others not.
  - Challenge: Ensure personnel continuity in those operations tasks which are critical.
- Integration of PIC Tier-1 into the Spanish NGI
  - PIC played coordination role in EGEE-SA1 in the past years. Role being transferred to CSIC in the Spanish NGI.
  - PIC will focus on its RC role as WLCG Tier-1: Operating Core Services for the LHC and coordinating with associated Tier-2s (WLCG operations and support).