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Enabling Grids for E-sciencE

South West Europe

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www.eu-egee.org

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and Media

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Enabling Grids for E-sciencE

- **20 SWE Production sites**
  - Bifi
  - CESGA-EGEE
  - CFP-IST
  - CIEMAT-LCG2
  - ClusterUL
  - DI-UMInho
  - ESA-ESAC
  - IEETA
  - IFCA-LCG2
  - IFIC-LCG2
  - LIP-Coimbra
  - LIP-Lisbon
  - UAM-LCG2
  - UB-LCG2
  - UMinho-CP
  - UPV-GRyCAP
  - UPorto
  - USC-LCG2
  - ifae
  - pic

- **ROC management**
  - Representation, coordination
  - Information interface
  - Site certification
  - Operations
  - Middleware deployment coordination
- **Operational support**
  - Accounting
  - Monitoring
  - Central services
  - COD
  - Middleware certification
  - PPS
  - Interoperations
- **VO, application, User Support**
  - Regional Helpdesk
  - TPM
  - GGUS supporters
  - VO support
- **Security**
  - Incidence handling
  - CA management
  - EUGridPMA coordination
  - JSPG membership
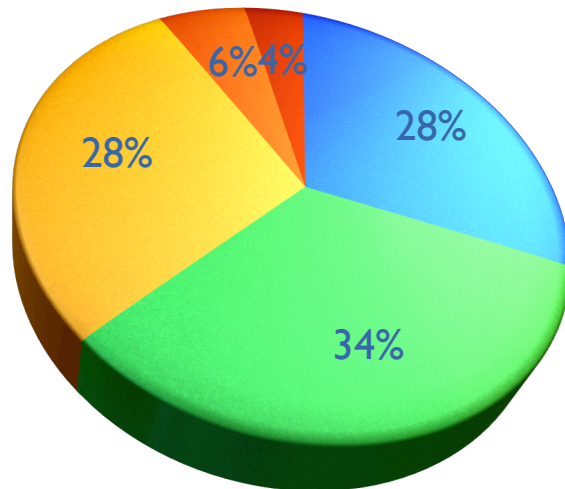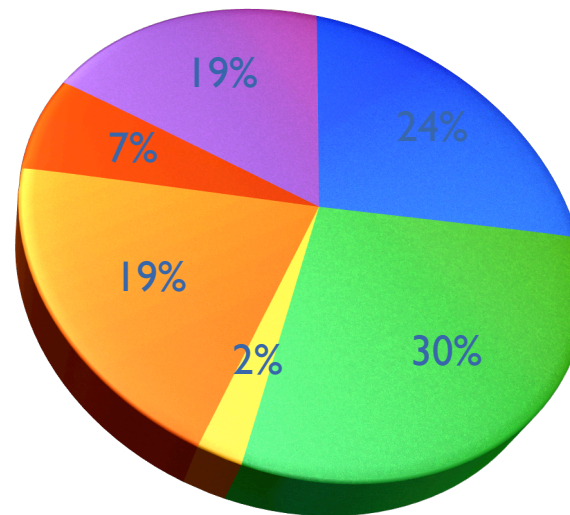 - Security manager on Duty

ROC MANAGEMENT
PIC,LIP

VO, Application, User Support

Operations

Security

Regional helpdesk CSIC	**MW deployment** CESGA,CSIC,LIP,PIC	**Incidence handling** RED.ES
TPM LIP, CSIC	**Operational support** LIP,PIC	**CA Management** PT: LIP ESP: RED.ES
GGUS supporters CESGA,CSIC,LIP,PIC	**Accounting** CESGA	**EUGridPMA coord.** LIP, RED.ES
VO Support CSIC, LIP	**Monitoring** CESGA	**JSPG membership** RED.ES
	Central services CESGA,CSIC,LIP,PIC	**Security MoD** RED.ES
	COD TID, PIC	**Vuln./Risk analysis** CSIC
	MW certification PT: LIP, ESP: PIC	
	PPS CESGA,CSIC,LIP,PIC	
	Interoperations CESGA	

- **SWE has SA1 417 PMs**

	TSA1.1	TSA1.2	TSA1.3	TSA1.4	TSA1.5	Total
LIP	28	34	28	6	4	**100**
IFAE	40	44	36		4	**124**
CIEMAT				9		**9**
CSIC		42	36			**78**
RED.ES	7	7		14		**28**
CESGA	39	38			1	**78**

SA1 tasks

28%
34%
28%
6% 4%

TSA1.1
TSA1.2
TSA1.3
TSA1.4
TSA1.5

SA1 partners

19%
24%
7%
19%
30%
2%

LIP   IFAE
CIEMAT CSIC
RED.ES CESGA

- **Model is under discussion/preparation at the moment (IBERGRID conference next week):**
  - Two national NGIs
    - Ligar Portugal
    - Spanish E-Science Grid infrastructure
  - A Grid operational model and infrastructure: IBERGRID
  - PKI infrastructure for both countries are already in place
- **There is already an affinity for the sites to contact the national part of the SWE ROC, which makes the transition painless:**
  - 1st line support (Regional helpdesk).
  - Certification and integration of new sites into the production infrastructure.

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- **Interoperability with other middleware**
  - Globus Toolkit
  - Gridway
  - Int-EU-Grid
- **Definition of IBERGRID responsibilities and operational model**
- **Common SLA**
- **Common VO infrastructure**
- **National version of operational tools ready to be adapted to NGI needs or are integrated within the existing NGI tools**
  - GSTAT
  - SAM/NAGIOS
  - COD Dashboard
  - etc.

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- **Challanges:**
  - NGI in Spain and Portugal are still at a beginning stage
  - National funding in a longer term are not clear
  - SLDs have to be defined
  - technical challenges:
    - Middleware portability
    - Middleware interoperability
    - Integration with the NGI helpdesks (Spain: Regional EGEE helpdesk -> RED.ES helpdesk)
    - GOCDB like database
    - Monitoring framework: Nagios will be a solution if it is easy to deploy and easy to adapt to other national middlewares
    - operational tools adapted to a national or regional scope
    - SLDs
  - Need to find a entrance point to less reliable resource centers
  - How to handle the EELA sites

- **To gain a 24x7 service, maybe collaboration with ROCs in other time zones could solve a lot of issues**
- **Failover of central services between different federations**