

WP4 - NGI / LGI Infrastructure Services Workplan & Roadmap

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- Establishment of a self-sustainable grid infrastructure in Latin America
- Providing infrastructure support for the Virtual Research Communities

Quality Metric	After Year 1	After Year 2
Number of implemented GSC	1	1
Number of implemented GOCs	≥ 1	≥ 3
Average ticket resolution time	≤ 3 weeks	≤ 2 weeks
Average Resource Centre availability	$\geq 60\%$	$\geq 80\%$
Number of cores integrated	≥ 2000	≥ 2600

- Operations Central Coordination point
 - Main roles
 - Core Services operation - UFRJ
 - Grid Operation oversight - UNIANDES
 - Documentation management - CLARA-TT
 - User request compliance - team effort
 - Secondary roles
 - Security incident response
 - VO Management
 - and more...

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- Operation Centres
- To be installed in
 - Brazil (UFRJ)
 - Colombia (UNIANDES)
 - Third GOC location undefined
- Two main roles
 - Infrastructure operation
 - Registration authority operation (RA)

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- Tickets are generated for sites failing operation standards
- Average resolution time
 - Time between the ticket creation and its verification after the problem has been solved
- Critical for attainment
 - Site administrator engagement
 - GOCs support
 - GSC oversight

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- Availability definition
 - gLite
 - at least one service not “OK” ↔ site unavailable
 - OurGrid
 - “peer” node down ↔ site unavailable
 - Other middlewares
 - To be discussed on demand
- Critical for attainment
 - Site administrator engagement
 - GOCs support
 - GSC oversight

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- Resource Centres
 - run prod.vo.eu-eela.eu jobs
 - are monitored by
 - the VO Nagios (gLite sites)
 - OurGrid monitoring system (OurGrid sites)
 - something else for other middlewares
 - are operated by
 - any NGI/ROC (gLite sites)
 - UFCG (OurGrid sites)

- Core Services
 - GISELA infrastructure “backbone”
 - gLite: maintained by UFRJ and CETA-CIEMAT
 - OurGrid: maintained by UFCG
 - DIRAC: to be deployed at UFRJ, UFCG and CPPM
- Operation teams
 - Keep the GISELA infrastructure functional
 - Use Monitoring, Accounting and Ticketing systems

Partner	CPU Cores	Storage (TB)	Resource Centres	Partner	CPU Cores	Storage (TB)	Resource Centres
CEDIA	100	1	5	ULA	120	6	3
CIDETYS	100	1	2	UNAM	198	2	8
CUBA	50	?	1	UNIANDES	200	2	6
INNOVA-RED	130	?	5	CIEMAT	100	20	2
RAAP	110	8	7	CNRS/IPGP	40	?	1
UdelaR	100	10	1	INFN	100	30	1
UFCG	450	4	7	UPORTO	100	?	3
UFRJ	762	21	4				

	CPU Cores	Storage (TB)	Resource Centres
Total	2660	105	56

Site	# CPU	# GB	EGI Op.	Site	# CPU	# GB	EGI Op.
UFCG	2	0	-	CERN	⁰ 2300	0	CERN
CEFET-RJ	22	500	IGALC	IN2P3	⁴⁰ 1700	^{??} 10737	French NGI
UFRJ-IF	177	12000	IGALC	INFN-CT	0	0	Italian NGI
UNLP	10	600	IGALC	IEETA	10	190	IBERGRID
ULA-MERIDA	24	1100	IGALC	UNICAN	⁰ 94	214	IBERGRID
CMM-UCHILE	2	100	IGALC	UPORTO	40	^{??} 1000	IBERGRID
LITESM	⁰ 61	1200	ROC_LA	CIEMAT	¹⁰⁰ 179	2000	IBERGRID
UNIANDDES	132	0	ROC_LA	CETA-CIEMAT	0	20	IBERGRID

- Resource Centre Retainment
 - Contact former EELA-2 sites
 - Clearly state what is GISELA infrastructure
 - Try to keep resources from non-GISELA institutions

- Resource Centre integration
 - Invitations to be sent before Oct, 2010
 - Partners should relay the request to the affiliates
 - Possibility to profit from EPIKH site administrator grid schools
 - Average integration time: 1 month
 - Up to four sites being integrated at any given time
 - 11 months to integrate 43 sites
 - Larger sites will be integrated first

- Operation procedures establishment
 - gLite: Possibility to capitalize on EELA-2, EGI and Polish NGI procedures
 - OurGrid: WP6 support required
 - CLARA-TT participation highly desired
- Preparation for the “Infrastructure Status Report” deliverable (Nov, 2010)
- Collaboration establishment with ROC_LA

- VO Monitoring System
- VO Operations Dashboard
- Ticket System
- MonBox update for IGALC sites (gLite 3.2)
- Shift-based GOC operations
- Preparation for the “Assessment of the GISELA e-Infrastructure set up” milestone (Feb, 2011)

- Implementation of 2 GOCs and the GSC
- Preparation for the EGI User Forum (April 11th to 15th, 2011) - possibly
- Clear EGI interaction policy
 - Accounting system
 - Ticket system
 - Monitoring system support
 - Information system (GOCDB)

- “Split region” GOC operations
- Maximize operations tool integration with WP6

- Site administrators knowledge assessment
- Workforce table completion
 - Still missing input from INNOVA-T
- Third GOC positioning
 - Dependent on workforce availability and knowledge assessment

- It's a lot of work, but feasible
- Commitment from the Resource Centres is essential
 - Making hardware available
 - Engaging site administrators