



Enabling Grids for E-science

Technical Overview

EGEE/EGEE-II transition meeting

Erwin Laure, EGEE-II Technical Director

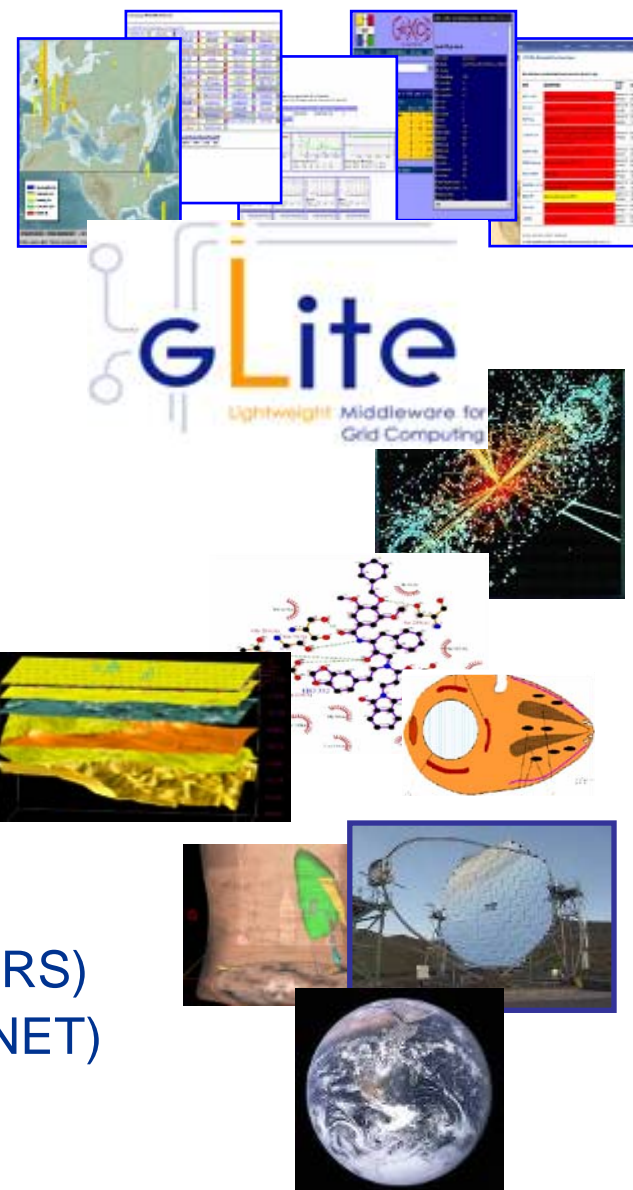
CERN

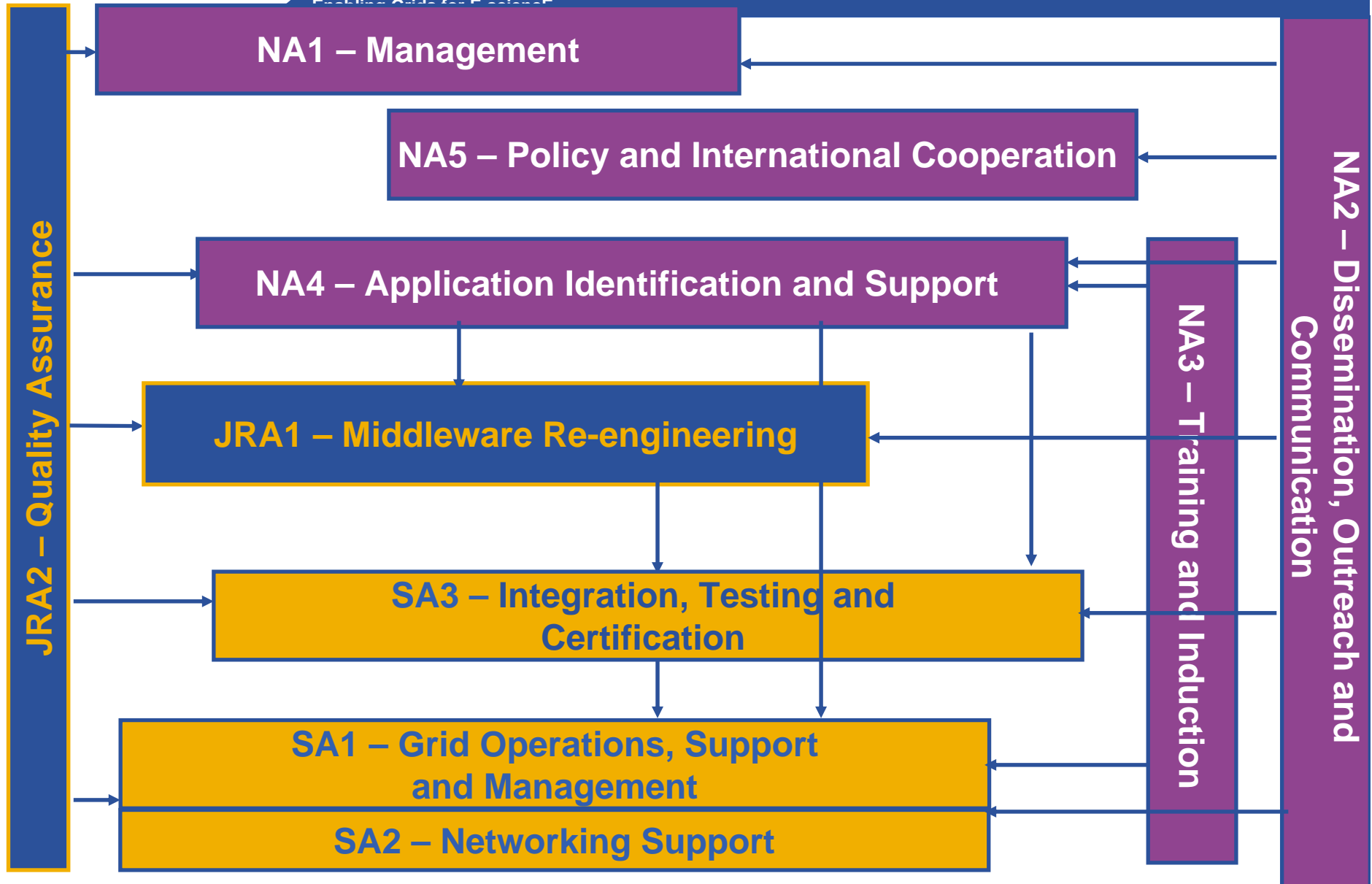
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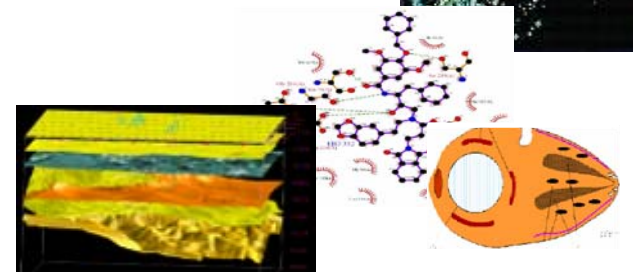


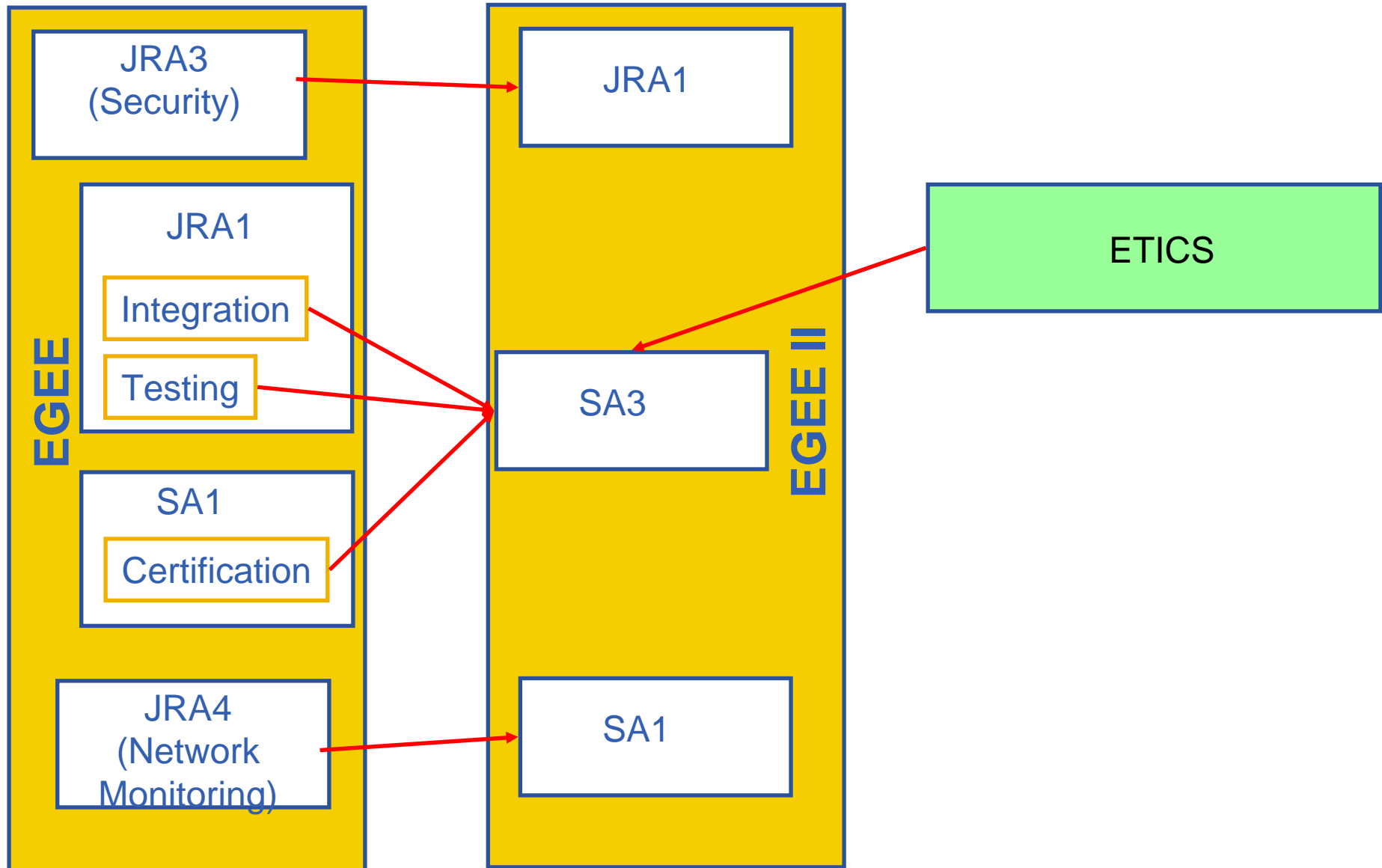
- **Service Activities**
 - SA1 – Grid Operations, Support and Management (CERN)
 - SA2 – Networking Support (CNRS)
 - SA3 – Integration, Testing and Certification (CERN)
- **Joint Research Activities**
 - JRA1 – Middleware Re-engineering (INFN)
 - JRA2 – Quality Assurance (CS-SI)
- **Networking Activities**
 - NA1 – Management (CERN)
 - NA2 – Dissemination, Outreach and Communication (CERN)
 - NA3 – Training and Induction (UEdin)
 - NA4 – Application Identification and Support (CNRS)
 - NA5 – Policy and International Cooperation (GRNET)





- **Security**
 - MWSG
 - Consistent usage of security framework in m/w
 - Coordination with related projects
 - JSPG
 - Operational security issues
 - Coordination with related projects
 - Vulnerability Group
 - Security head (Ake Edlund) is part of the PEB
- **VO Support**
 - OAG
 - Resource allocation to VOs
 - UIG
 - Organization of EGEE documentation
 - VO Managers Group – **NEW!**
 - Link between the project and VOs
- **Industry Relations**
 - Industry Forum
 - Industry Task Force – **NEW!**
- **Technical Coordination – TCG – NEW!**
 - See later





- Formally defined in DoW: <https://edms.cern.ch/document/684101/>
- Defines 51 deliverables and 89 milestones
 - Deliverables have hard deadlines – any slip needs to be communicated to EU well in advance
 - Contain quarterly and periodic (1 year) reports (QR and PR)
 - Will be reviewed internally to assure they are of high quality
 - EU will evaluate us against deliverables; achievement of milestones needs to be reported to EU in quarterly reports
- Plan enough time to prepare these documents and allow for activity internal review
- Details can also be found at <http://egee-jra2.web.cern.ch/EGEE-JRA2/EGEE-II/Deliverables/DeliverablesScope.htm>

- Deliverables and Milestones have been defined to reflect necessary activities of the project
 - Not just “EU overhead” but the essential work of the project
- First quarter has 10 deliverables and 21 milestones
- Need to start working on these now
- Details will follow in activity presentations

QR1		
	D	M
NA1	2	1
NA2	4	4
NA3		3
NA4	1	
NA5		1
SA1	2	2
SA2		1
SA3		5
JRA1		2
JRA2	1	2
Total	10	21



EGEE-II First Quarter Deliverables and Milestones

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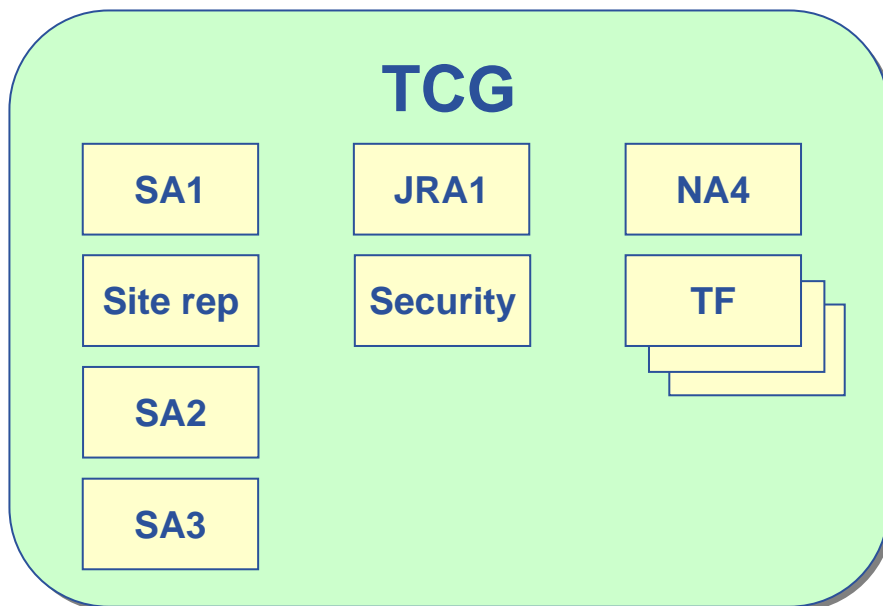
M	id	Title	Lead Partner
1	MNA1.1	Execution Plan	CERN
1	MNA2.1	Update customer facing (public) website	Metaware
1	MNA2.2	Update internal project facing (technical) website	CERN
1	MNA2.3	Templates for publicity material available to RP	CERN
1	MNA2.4.1	EGEE Newsletter	CERN
1	DNA2.1	Production of Project Presentation	CERN
1	DNA2.2	Production of project Overview paper	CERN
1	DNA2.3.1	Dissemination, Outreach & Communication Plan	CERN and NA2 partners
1	MNA3.1.1	Training plan	UEDIN
1	MSA1.1	Operations metrics defined	CERN
1	DSA1.1	Global Grid User Support (GGUS) implementation plan	FZK
1	DSA1.2	Operations Advisory Group (OAG) Procedures and Policy Report	Lyon
1	MSA3.1.1	Service Inventory, gap analysis	CERN
1	MJRA1.1.1	Support plan, definition of common components and tools, strategy for multiple platform support	INFN
2	DNA1.3.1	Gender Action Plan	CERN
2	MNA3.2.1	e-learning plan	UEDIN
2	MSA1.2	Inventory of operations tools, procedures, and gap analysis	CERN
2	MSA2.1	ENOC implementation	CNRS
2	MSA3.2	Process document	CERN
2	MSA3.3	Interoperability plan for UNICORE	FZJ
2	MSA3.4	Interoperability plan for ARC	UKBH
3	DNA2.4	Plan for industrial involvement	Metaware
3	MNA3.3.1	IT-infrastructure plan	INFN
3	DNA4.1	Application Deployment Plan	CNRS
3	MSA3.5	Test plans	PIC
3	MNA2.4.2	EGEE Newsletter	CERN
3	MJRA1.2	Functional Description of Grid Components	INFN
3	MJRA2.1	QA document templates and processes	CSSI
3	DJRA2.1.1	Quality Plan and Measurement Plan	CSSI
3	MJRA2.2.1	Agreed Security Audit Plan	KTH
3	DNA1.1.1	Quarterly Report	CERN

- **Increased Application Support (NA4)**
- **Revamped Industry Forum and Industrial Task Force (NA2)**
- **Multi-platform support and Interoperability (SA3)**
- **Streamlined integration and testing (SA3)**
- **Unified middleware release – gLite 3.x**
- **More visibility at high profile events like supercomputing (NA2)**
- **Focus on reliability, deployability, security (JRA1)**
- **Related projects provide**
 - Expansion of infrastructure
 - Application support
 - Integration and Test facilities
 - Extension of training towards more generic Grid education

- The EGEE-II proposal defines a Technical Coordination Group (TCG):

*The TCG brings together the technical activities within the project in order to ensure the **oversight and coordination of the technical direction** of the project, and to **ensure that the technical work progresses according to plan.***

- **Basically coordinating the work of SA1, SA2, SA3, NA4, and JRA1**
 - Membership from all these activities but still remain a “small” team
 - Additional experts will join based on the topic of discussion
 - Working groups will be spawn off to solve specific problems
- **Focus on practical short term solutions**
 - Long term projects will be sourced out to middleware providers
- **The group defines the technical direction of EGEE**
 - Not just a discussion forum!
 - Decisions taken by the group must be honoured by the affected activities



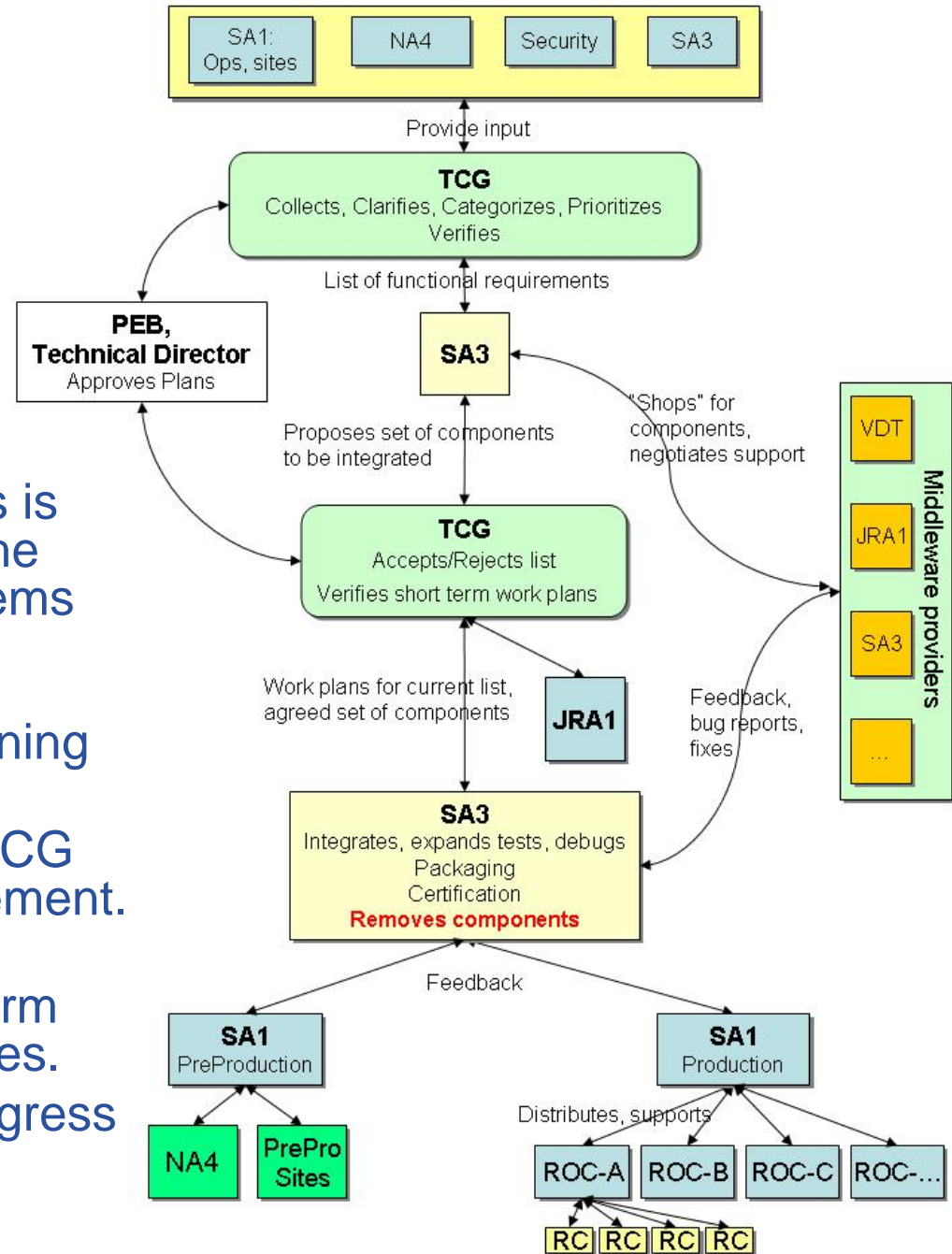
- Lead by Technical Director
- Escalation path to PEB
- Progress reported to PMB as part of the quarterly technical report

- **Interactions with:**
 - User communities (NA4)
 - Middleware providers (SA3, JRA1)
 - Infrastructure (SA1)
 - Through members:
 - Related projects
 - Standardization efforts

Activity	Member	Alternate
Chair	Erwin Laure	Markus Schulz
Secretary	David Smith	
SA1	Ian Bird	Maite Barroso
Site representative	Alessandra Forti	
SA2	Jean-Paul Gaultier	Mathieu Goutelle
SA3	Markus Schulz	
JRA1	Claudio Grandi	John White
JRA1/Security	John White	Joni Hahkala
NA4	Cal Loomis	Massimo Lamanna
Alice TF	Federico Carminati	Latchezar Betev
Atlas TF	Laura Perini	Dietrich Liko, Dario Barberis
Biomed TF	Johan Montagnat	Christophe Blanchet; Ignacio Blanquer
CMS TF	Stefano Belforte	
LHCb TF	Andrei Tsaregorodstev	Philippe Charpentier

TCG Workflow

- The TCG gathers input from the stakeholders (issues, problems, functionality request, changes to existing services, etc.) and prioritizes it.
- The list of prioritized requirements is used by SA3, in discussion with the TCG, to determine how the problems may be addressed. This might be looking for new services from middleware providers, commissioning fixes, changes, etc.
- SA3 returns this proposal to the TCG for discussion and eventual agreement.
- The TCG then, together with the activity leaders, proposes short term work plans for the relevant activities.
- The TCG will follow up on the progress of these plans and adapt them.



- **EGEE has a demanding program of work**
 - Can build on a solid basis
 - EGEE-II is really a continuation project, not a new one
- **Make sure all partners collaborate in your activities**
 - Execution plan and define partner responsibilities
 - Partner metrics will be introduced
- **EGEE continues to be the flagship Grid infrastructure project of EU**
 - This brings a number of responsibilities
 - Concertation, standardization, interoperability with related projects etc.
 - Make sure this effort is part of your plans
- **Success of EGEE will be decisive for long-term sustainability of Grid infrastructures**
 - EGEE, related projects, national grid initiatives and user communities are working to define a model for a sustainable grid infrastructure that is independent of project cycles