

Introduction to EGEE-III

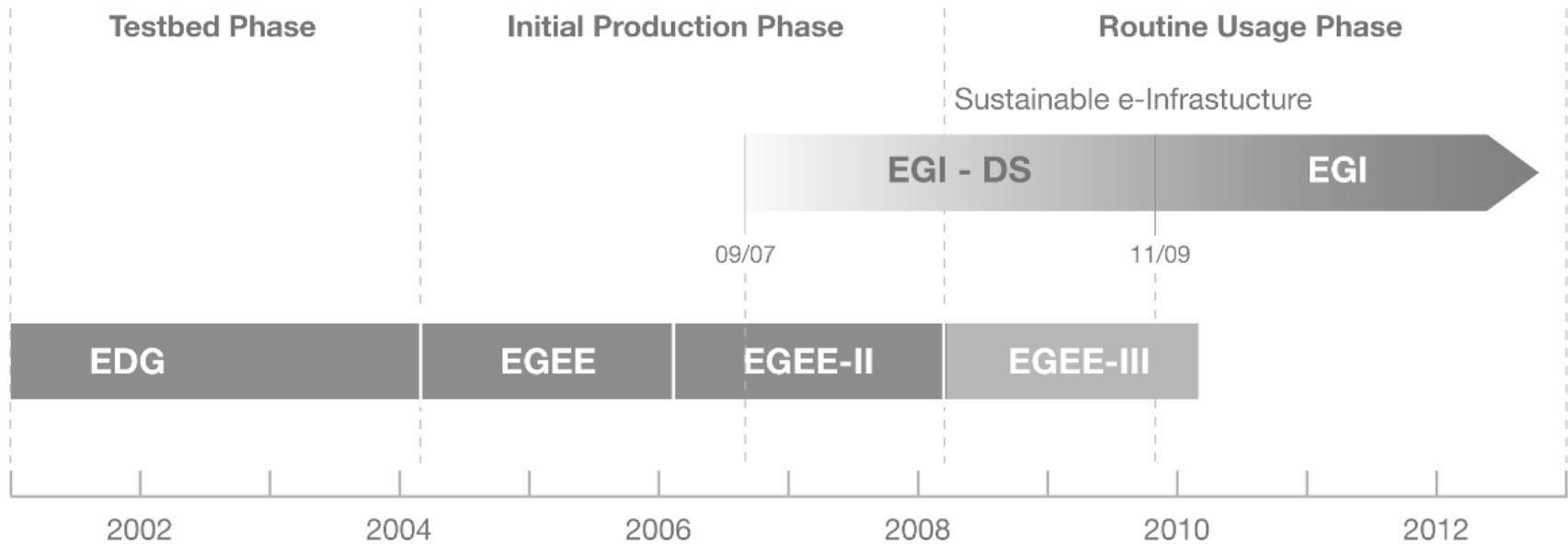
Francesco Giacomini – INFN

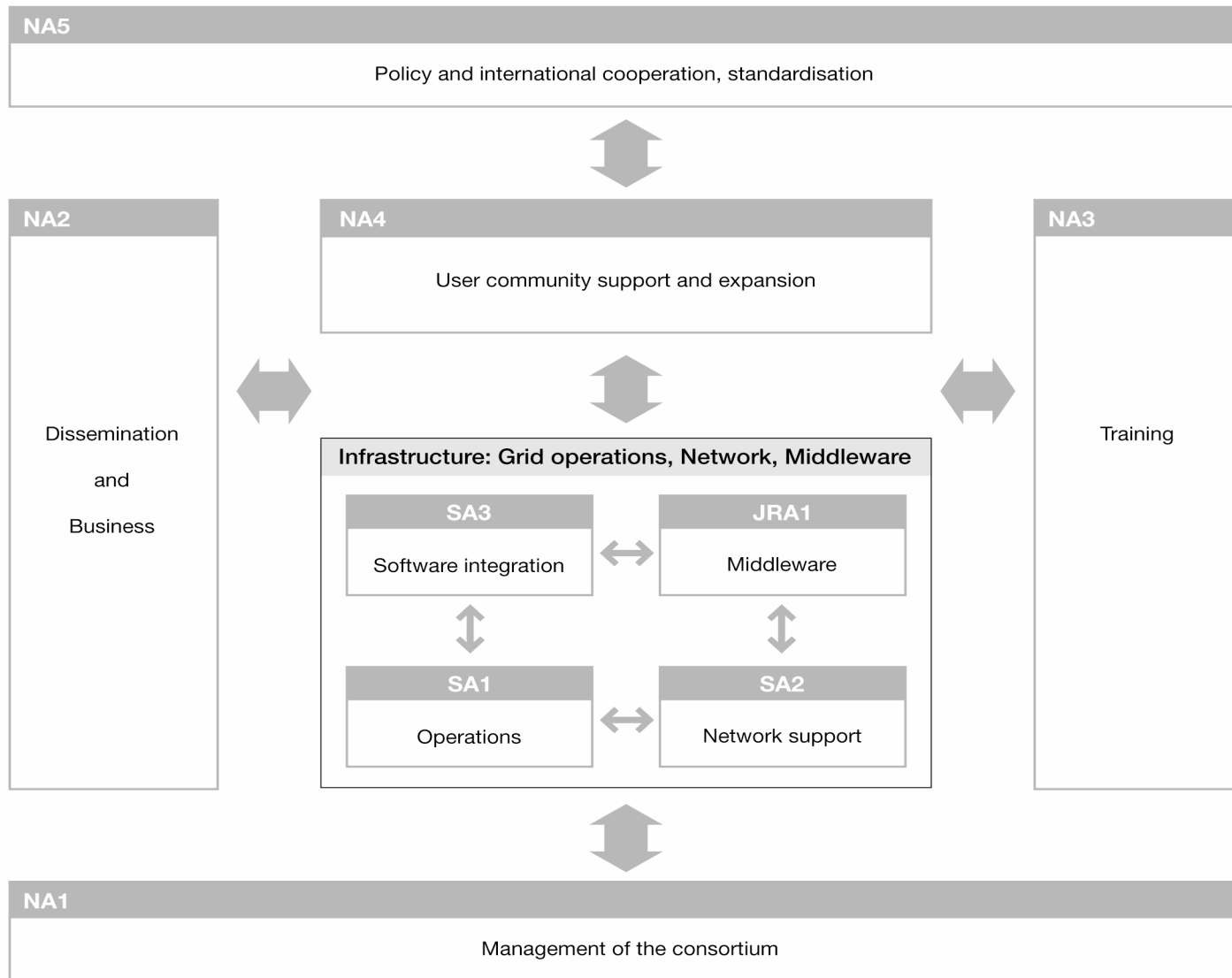
JRA1 All-Hands

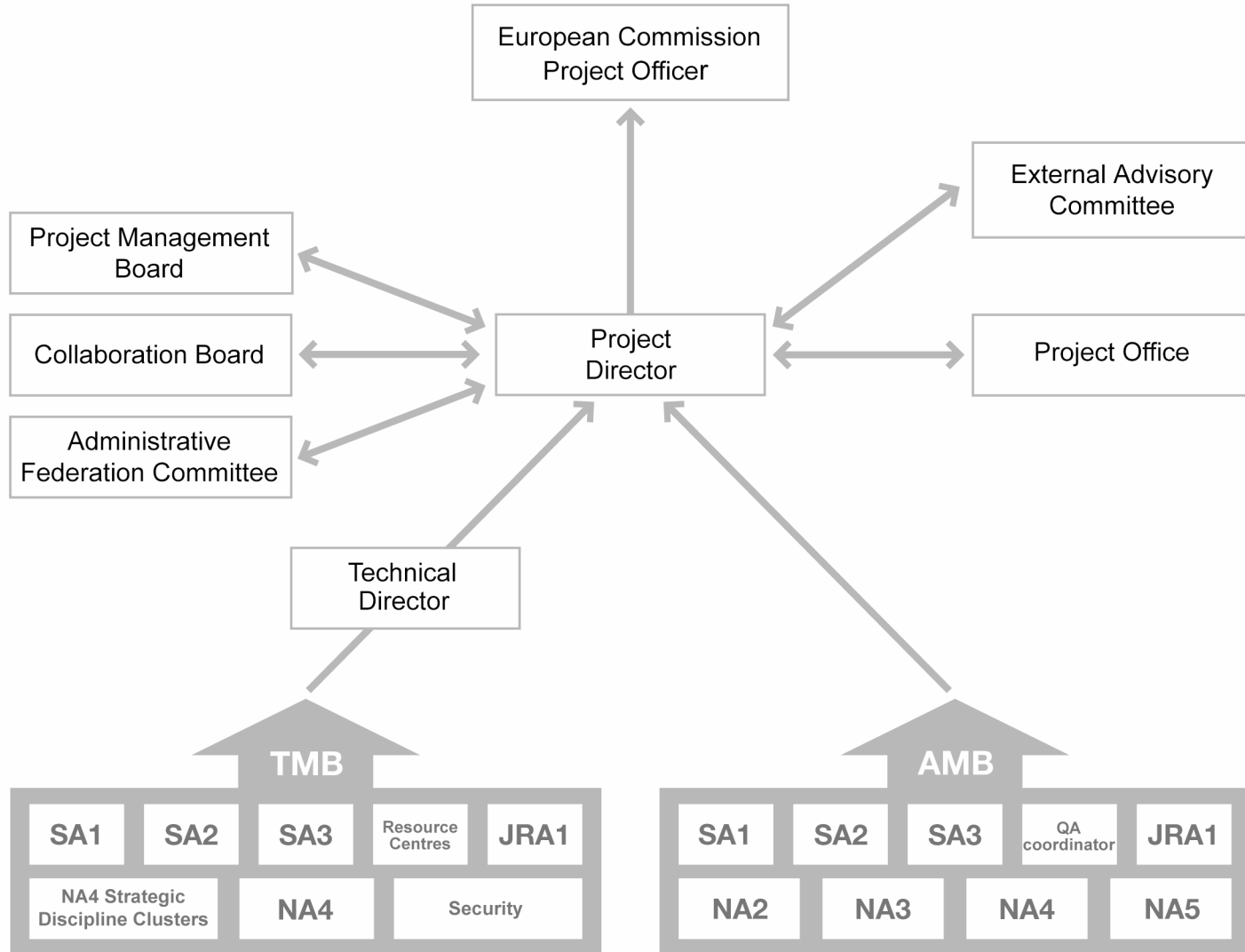
Nikhef, 20-22 February 2008

- **The project**
 - objectives and organization
- **JRA1**
 - objectives and organization
 - software process

- **“The EGEE program [...] aims to deliver Grid technology to many disparate disciplines [...]”**
- **“[...] it is now essential to build on its achievements and prepare the transition towards a sustainable infrastructure.”**
- **“[...] close collaboration with National Grid Initiatives (NGI) and the European Grid Initiative Design Study project (EGI_DS)”**
- **“A second major goal [...] is to maintain, enhance and simplify the use of the production quality computing infrastructure [...]”**
- **“EGEE-III will continue to develop its reference open-source middleware distribution, “gLite” [...].”**







- **Two reviews**
 - both at CERN
 - tentative dates
 - after PM12
 - after PM 24
- **Two EGEE conferences**
 - EGEE'08, Istanbul, 22-26 September 2008
 - EGEE'09, September 2009 (?)
- **User Forum, early 2009**
- **We should invest more on dissemination**

- **JRA1 will provide and maintain selected middleware services of the gLite distribution**
- **Requirements from:**
 - users: functionality and performance
 - operations: manageability and deployability
- **Attention to interoperation**
 - possibly adhering to established standards, in particular from OGF
 - contribute experience through OGF-Europe
- **Multi-platform support**

- **NA4**
 - ensure that Grid technology and the EGEE infrastructure are used successfully by a broad spectrum of scientific collaborations
- **SA1**
 - operate the EGEE production infrastructure
- **SA3**
 - manage and coordinate the process of building deployable and documented middleware distributions
- **SA1, SA3 and JRA1 coordination in the Engineering Management Team (EMT)**
- **NA4, SA1, SA3 and JRA1 coordination in the Technical Management Board (TMB, TCG in EGEE-II)**

- **Coordinator hosted by NA1**
- **Each activity will have a representative in the QA Group**
- **Each activity plans for their QA measures**
 - see MJRA1.2, due at PM2

- **Foundation services**

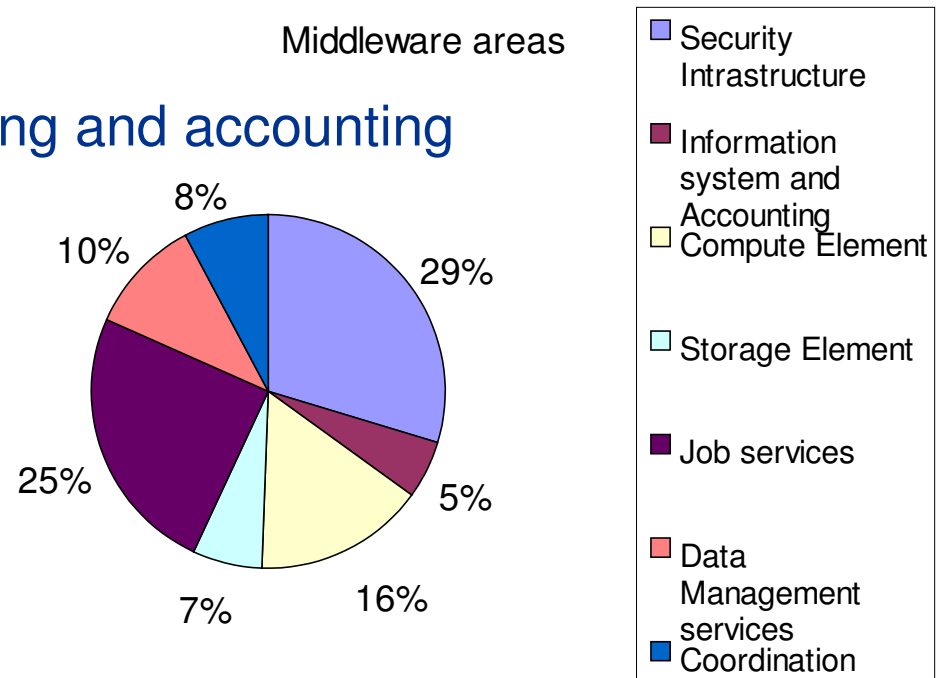
- security infrastructure
- information system, monitoring and accounting
- compute element
- storage element

- **Higher-level services**

- job services
- data management services

- **Overall effort is 461 Pms (~19 FTEs)**

- 62% less than in EGEE-II!



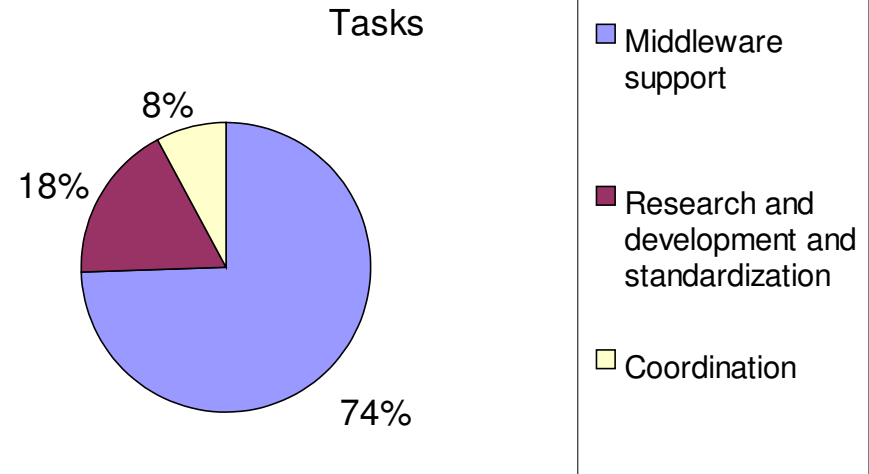
- **TJRA1.1: Middleware support**
 - maintain and gradually improve the reliability, performance, usability, and manageability of the existing services
 - fix bugs
 - address short/medium-term requests from TMB
 - improve manageability
 - internal unit testing
 - define the gLite releases together with SA3
 - web page for mw users
 - teams working on this task will be co-located with the SA3 teams responsible for the testing and the certification (?) of the corresponding components

- **R&D and standardization**

- a large part concerns security (in particular authorization)
 - SAML, XACML
- storage
 - SRM
- job management
 - BES, JSDL
- information system
 - GLUE

- **Activity coordination**

- activity leader
- deputy activity leader
- security architect
 - Security Coordination Group
 - Middleware Security Group



- **Four clusters**

- INFN (with ED), CERN, CESNET, UH.HIP (with FOM, SWITCH, UNIMAN)
- one leader per cluster
 - JRA1 steering group

Component	PMs support	PMs R&D	Partner
Security Intrastructure			
VOMS/VOMS-Admin	24	6	INFN
Authorization Services	18	48	SWITCH, FOM, INFN, UH.HIP
glexec	11	0	FOM
Delegation, TrustManager	12	0	UH.HIP
GridSite	12	0	UNIMAN
Proxy Renewal	6	0	CESNET
	83	54	
Information System			
BDII	20	4	CERN
	20	4	
Compute Element			
BLAH	12	0	INFN
CREAM	54	6	INFN
	66	6	
Storage Element			
DPM	18	0	CERN
GFAL	12	0	CERN
	30	0	

Component	PMs support	PMs R&D	Partner
Job Services			
gLite-WMS	66	6	INFN, ED
Logging & Bookkeeping	42	0	CESNET
	108	6	
Data Management Services			
lcg_utils	6	0	CERN
FTS	6	0	CERN
LFC	12	0	CERN
EDS, including Hydra	12	12	UH.HIP
	36	12	

Activity	PMs	Partner
Coordination		
Activity management	18	INFN
Activity deputy	6	UH.HIP
Security Architect	12	SWITCH
	36	

Deliverable No	Deliverable title	PM
DJRA1.1	Report on Middleware Service Engineering and plans for the second year	11
DJRA1.2	Report on EGEE- III Security	22
DJRA1.3	Final report on progress of middleware engineering	23

Milestone No	Description	Lead beneficiary	PM	Comments
MJRA1.1	Middleware support web page	INFN	1	Deploy a web site with the relevant information needed by middleware users (including other project activities). It should include links to support contacts to be kept up to date during the life of the project.
MJRA1.2	Activity Quality Assurance and measurement plan	UH.HIP	2	Definition of the activity- internal QA measurements and procedures. This will provide input to DNA1.2.
MJRA1.3.1	Functional Description of Grid Components and associated Work Plan	INFN	3	Functional description of services reengineered by JRA1 in response to TMB requirements including initial design and associated work plans. A live version of the work plans will be maintained on the Middleware web page.
MJRA1.4	gLite Security Architecture	SWITCH	4	Overall (global) security architecture of the gLite middleware. This document will summarize the current situation and describe the foreseen evolution during the lifetime of the project.
MJRA1.3.2	Update of Functional Description of Grid Components and associated Work Plan	INFN	11	Update of Grid Components functional description and associated Work plan.

- **I would aim at two All-Hands per year**
 - next one will be in Autumn
 - more details will follow
 - a steering meeting during the EGEE-II review
- **“Some-Hands” meetings are also possible**
 - between clusters (e.g. IT/CZ)
 - on specific arguments (e.g. on authorization mechanisms)

- **Are the tools at our disposal satisfactory?**
 - CVS
 - ETICS
 - savannah
 - no direct interaction with GGUS anymore
 - code checking, unit testing, ...
 - development tools
 - collaboration tools
- **Can we adopt common practices?**
 - we can ask someone to enable them
 - developer's guide