



Enabling Grids for E-science

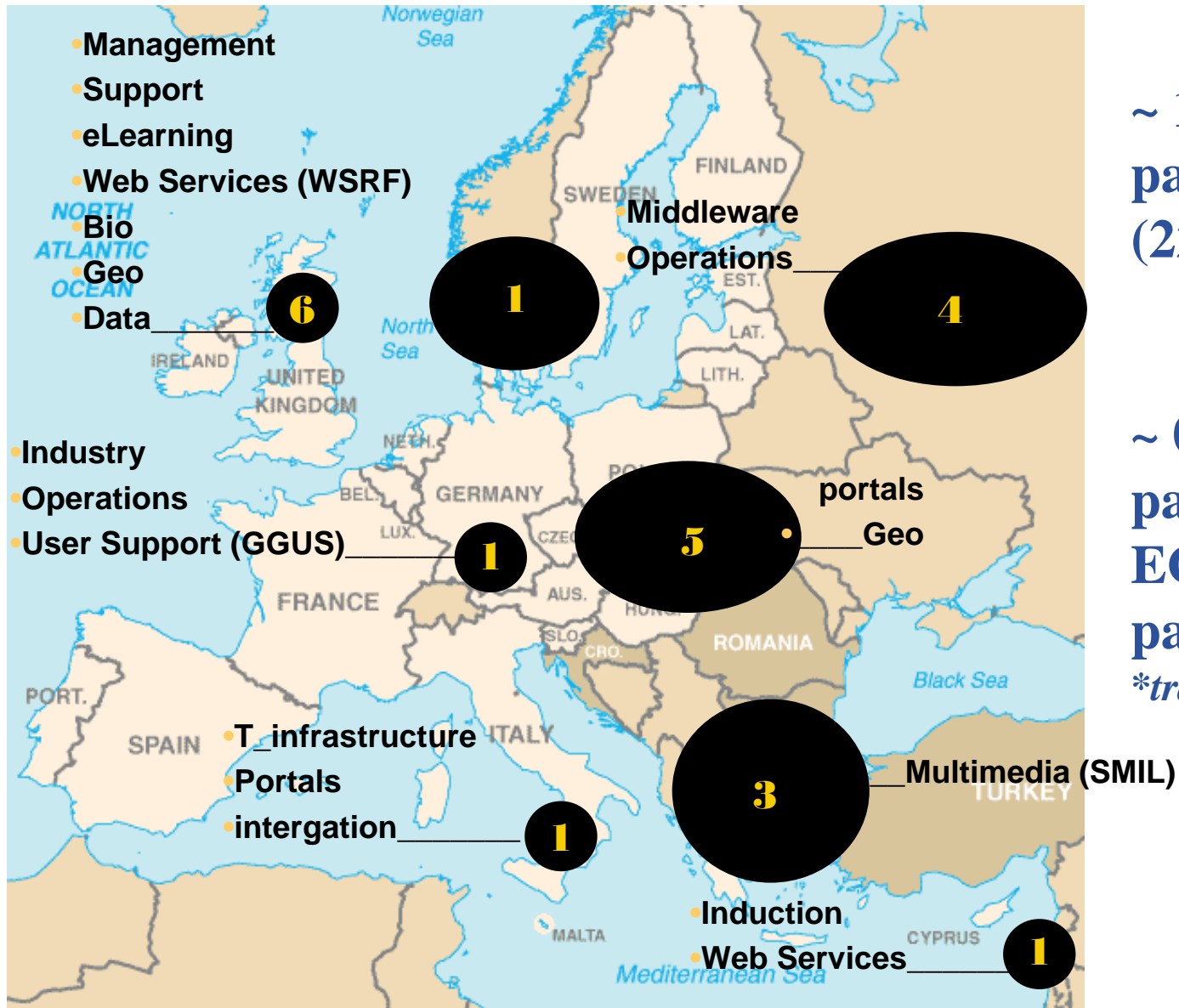
EGEE 2nd EU Review

NA3 Training and induction

www.eu-egee.org



Distribution of NA3 effort



~ 1 FTE per partner in NA3 (22 partners)

~ 0.3 FTE per partner within EGEE (given 70 partners).

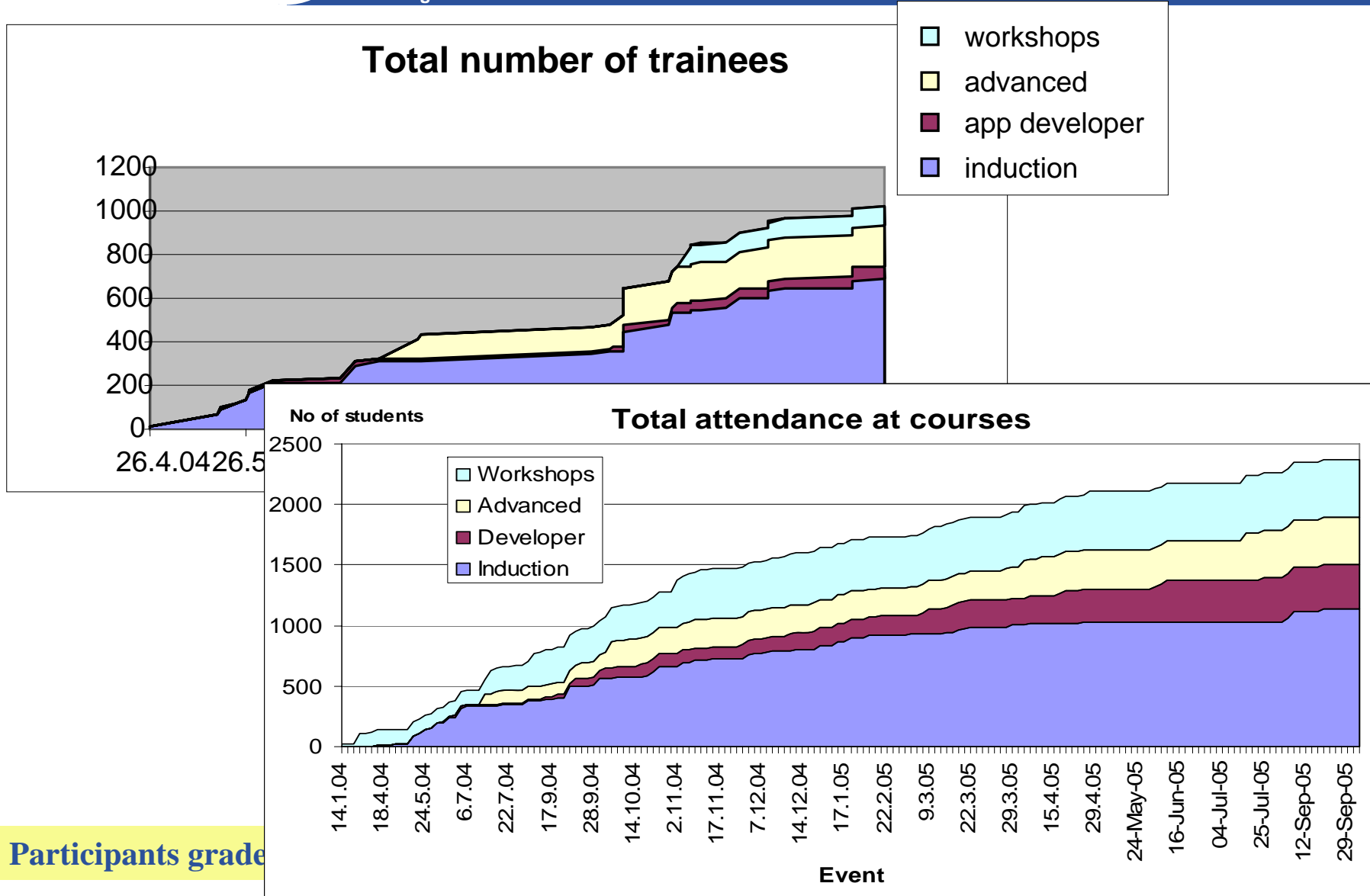
**training everywhere*



- **Diligent**
- **Magic**
- **EMBRACE**
- **TERENA/NRENS**

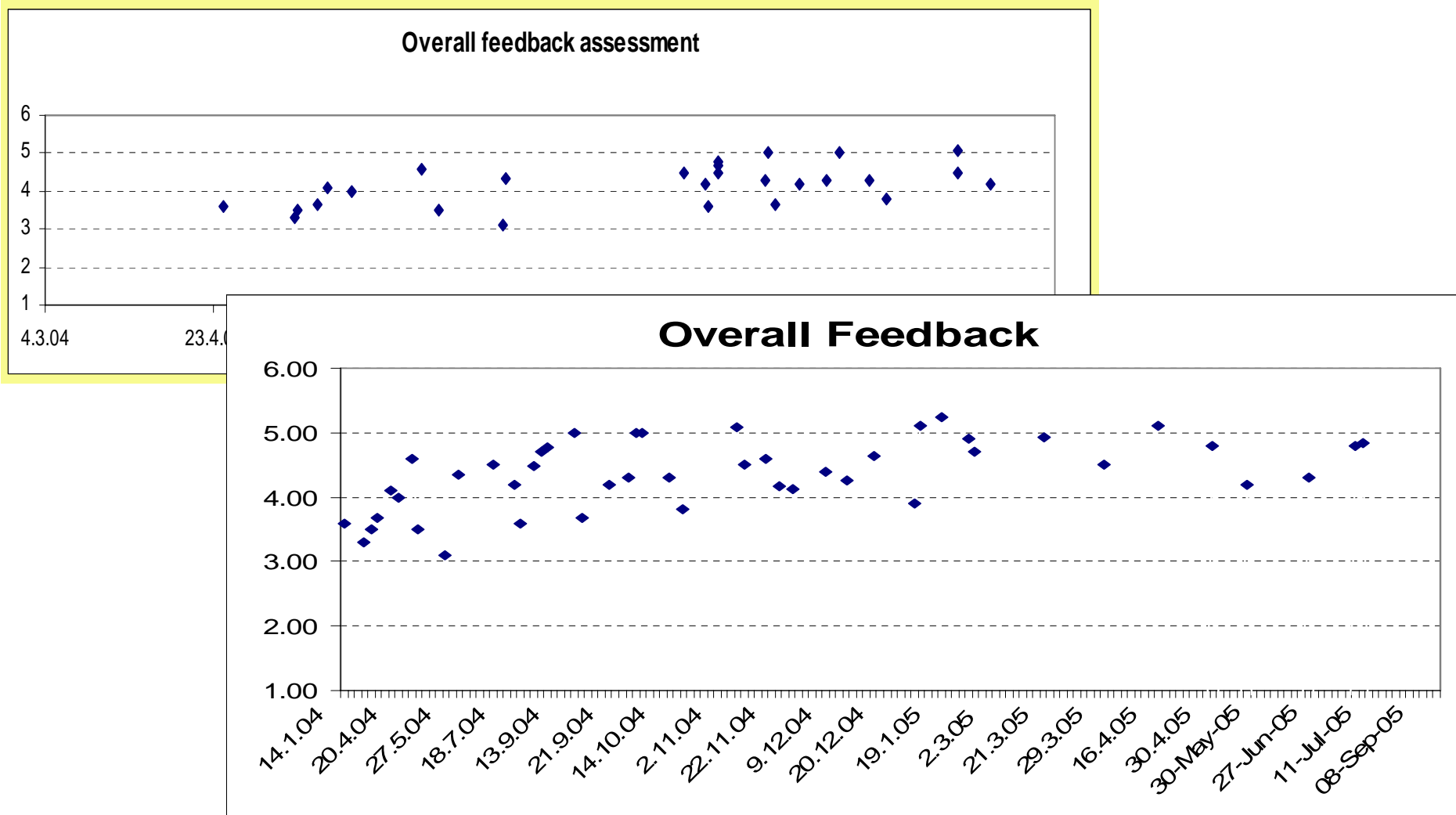
- **Biomed courses**
- **Physics courses**

- **Recommendation: Give appropriate weight to training activities in future plans, in particular during the migration to gLite phase for application developers and system administrators.**
- We read this to imply that more investment in training as a proportion of the budget is needed in future projects.
 - **This echoes the recommendations of the NA3 External Review.**
- There have been at least 15 events focussing on gLite since May 2005,
 - **these have included events specifically targeted at developers (for instance in the biomed community, and physics, eg. at GridKa)**
 - **and for administrators (eg. forthcoming event in Venezuela).**
- As gLite components are moving into the production service training for these will more and more become part of the normal provision of courses.



- **Recommendation: Ensure that training experience remains good and is supported by a high-quality T-Infrastructure and high-quality trainers.**
- Response: the training and induction team are making strenuous efforts to maintain quality by evaluating all courses and using:
 - **the feedback to improve material,**
 - **presentations, curricula and planning.**
 - **The training consortium throughout the 22 partners undertakes this model and supports each other in its execution.**
- The t-Infrastructure requirement is well recognised.
 - **We are investing in more software development and more clusters to improve facilities and increase resources.**
 - **Much greater investment could be usefully deployed in developing more widely used and general-purpose t-Infrastructure.**
 - **This has been the subject of recently submitted SSA proposal.**

Site providing GILDA	Site committed to provide GILDA in EGEE II	Site providing training cluster	Site committed to providing a training cluster in EGEE II
INFN	INFN		
	UEDIN	UEDIN	UEDIN
			GRNET
		FZK	FZK
			ICM
			JSIS
CESNET	CESNET		
IISAS	IISAS		IISAS



Trainers review grades and revise course material and training plans

- **Recommendation: Improve the exploitation of training success in the dissemination activity. Such success stories are easy to communicate and excellent for executives and politicians.**
- The International Summer School for Grid Computing was largely organised by EGEE and the event was advertised in GridToday (<http://news.taborcommunications.com/msgget.jsp?mid=389473&xsl=story.xsl>) due to the kind support of GGF.
- Mechanisms have been put in place to ensure that news about training events (both up-coming and reports of past ones) are better represented in the EGEE Newsletters (see recent releases).
 - **Similarly efforts are made at the national level (for example in the NeSC NewsLetter to the UK eScience community).**



EGEE

- Organised & Presented
- Created Progressive Exercise
- Integrating Components
- Incremental Introduction of Features & Challenges
- Leading to Integrated Grid team challenge
- Generated Significant Interest
- Follow on in Edinburgh MSc
- ICEAGE

The event was attended by 65 *selected* advanced international students

- **Regional EGEE Summer School in Budapest, 11-16 July**
 - Induction Course mainly, but included an Application Developer Training Course, and Advanced Course on gLite
- **PPARC Summer School – Edinburgh**
- **CERN Summer Students School – September**
- **GridKA – October –**
 - Principles, User Induction, Developer APIs & Installation

- **Event between training and dissemination. In 2005:**
 - Participants from 10 nations
 - 6 courses
 - gLite introduction (x2)
 - ROOT/PROOF (x2)
 - Grid Appl. Development
 - gLite installation (based on Grid-in-a-box!)
 - 17 talks



- Yearly event (now in its third year)
- On the left:: Picture from GridKa School 2004

Activity Authoring	Course Validation	Learning Flow	Marking	Sequencing
Assessment	Curriculum	Personal Developm't	Reporting	Tracking
Course Management	Learner Management	Quality Assurance	Resource List
AV Conferencing	Alert / Notification	Annotation / Review	Archiving	Authentication
Authorisation	Calendaring	Chat	Content Adaptation	Content Management
Email	Federated Search	Filing	Format Conversion	Forum
Harvesting	Identifier	Mapping	Messaging	Metadata Management
Packaging	Personalisation	Resolver	Scheduling	Search / Browse
Tracking	Service Registry	User Management	Whiteboard

- **Content management with authentication/authorisation**
 - deposit/update/download materials, versioning, metadata management
- **Search / browse - Search & Retrieve Web Services (SRW) protocol**
- **Persistent linking mechanism (resolver) - OpenURL**

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- **Resources annotation / review services**
- **Personal/local resources list services**
 - Create, read, update, delete personal resource (reading) lists and customised courses - IMS Resource List Web Services/Data Spec.
- **Export resources to other e-learning environment**
 - Zipped packages using IMS Content Packaging Spec.

- **Recommendation:** Through a better profiling and follow-up of the trainees, encourage top trainees to become trainers and contribute to training events within their region. Think of an incentive for trainees to become “official” EGEE trainers, like a small reward programme.
- **Response:** This has always been a goal of training, and it has to some extent already been met through “train-the-trainers” courses. It is certainly worthwhile and we endorse the view that it should be the subject of explicit encouragement.
- These statistics are difficult to collect. We are considering the longitudinal tracking of participants (for example the follow on survey) in EGEE II but there are privacy, ethical and significant resource implications. The only feasible approach may be to track this through the eLearning environment.

- **Recommendation: Establish future training courses on non-technical aspects of security. Possible course of action is to establish a dialog with the centre for e-social science in the UK.**
- Basic security concepts and the necessary technical aspects for users (certification) are included in induction and developer training courses routinely.
- UEDIN has been working closely with National Centre for eSocial Science, UK and is contributing to the NCeSS event in February. UEDIN is also helping NCeSS create an online Learning Object compliant entry relating to Virtual Organisations, this could then be re-used within the EGEE eLearning framework.
- We also expect to be working with the ISSeG project in future to take advantage of their development of security 'best practice' information as discussed at the Pisa Conference.