



Enabling Grids for E-scienceE

NA3 Training and induction

David Fergusson, NA3 Activity Manager, NeSC
EGEE 2nd EU review
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www.eu-egee.org

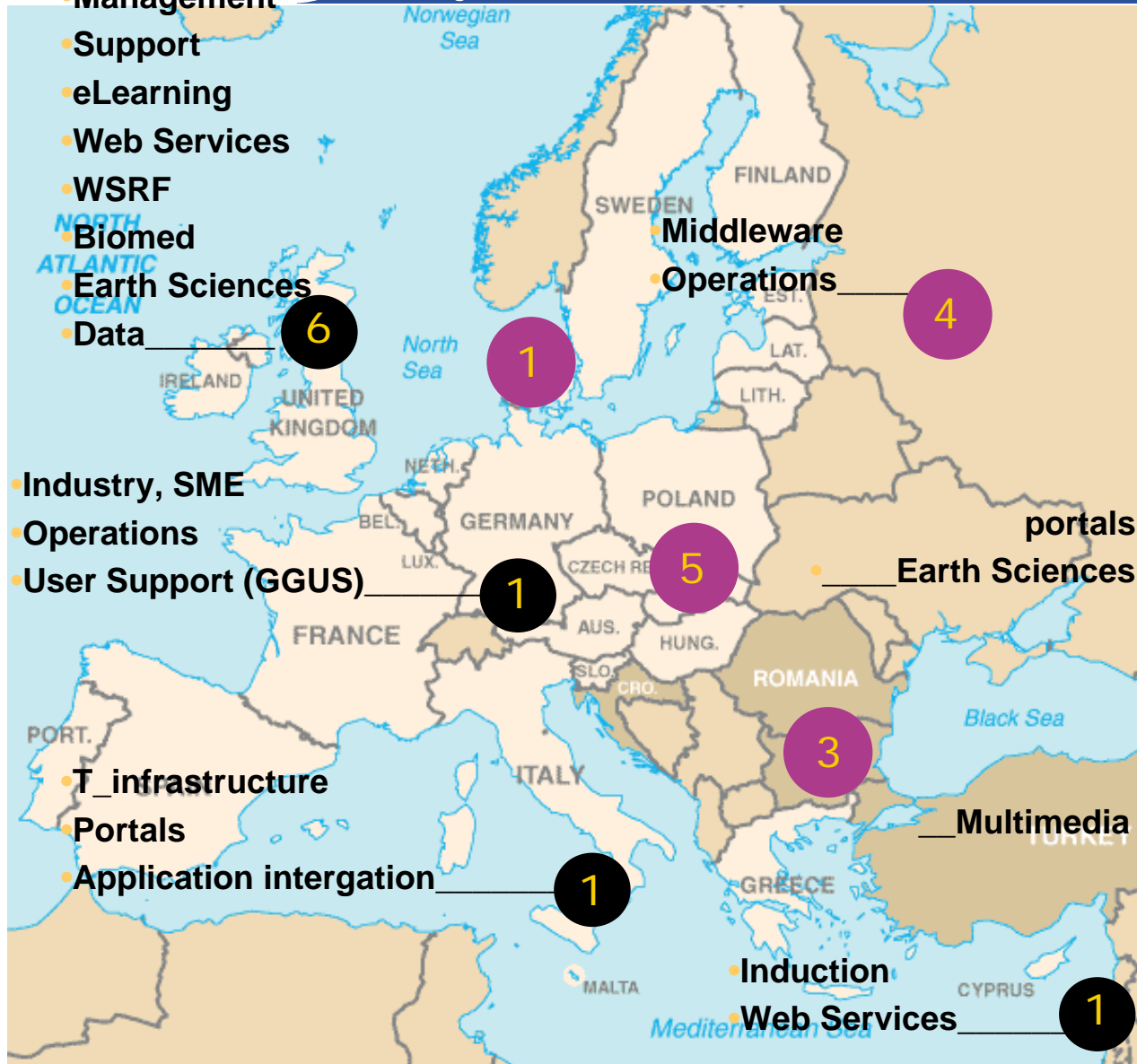


Distribution of NA3 effort

- Management
- Support
- eLearning
- Web Services
- WSRF
- Biomed
- Earth Sciences
- Data

- Industry, SME
- Operations
- User Support (GGUS)

- T_infrastructure
- Portals
- Application intergration



~ 1 FTE per partner in NA3 (22 partners)

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

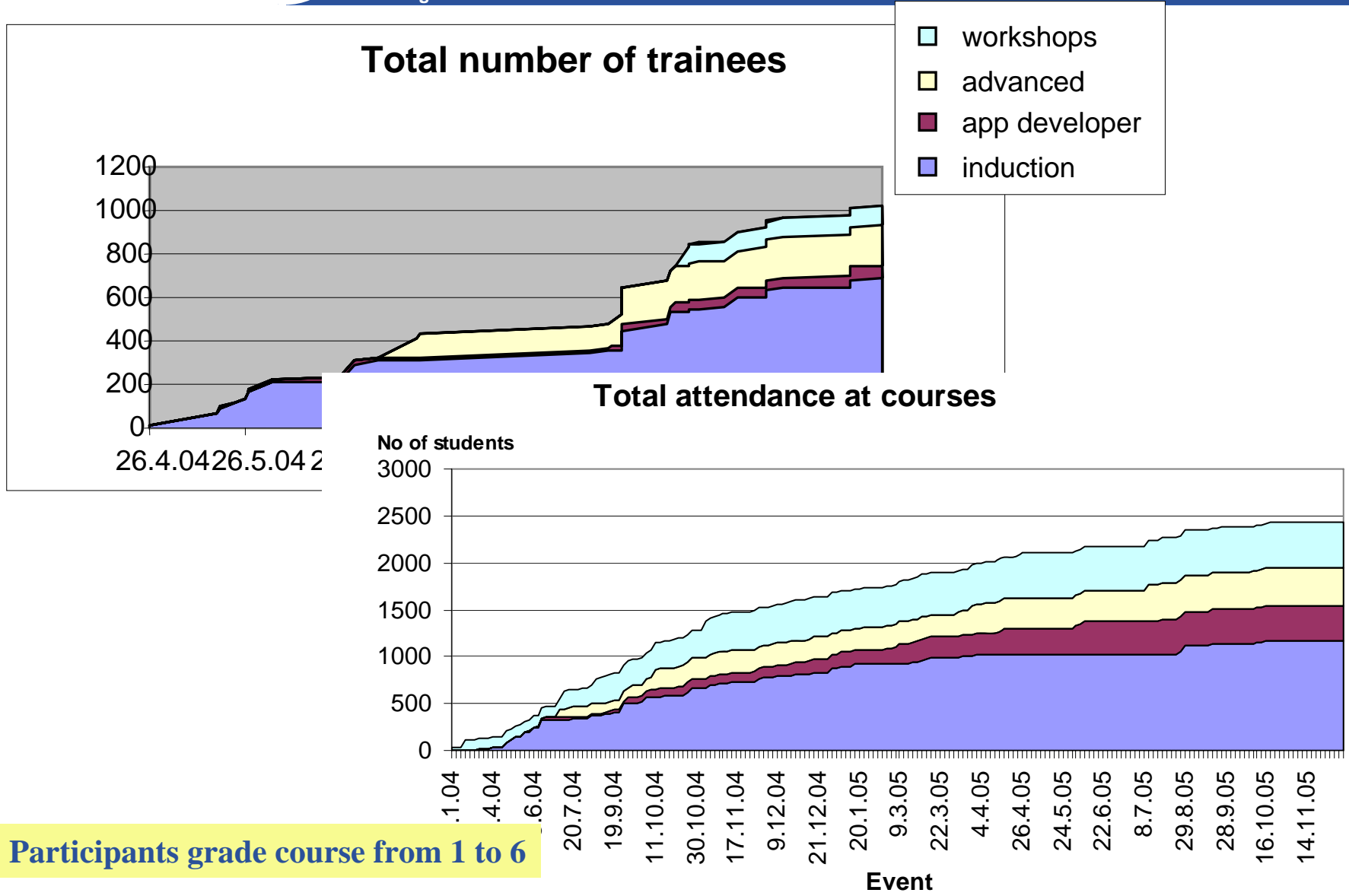
**training everywhere*

Federation

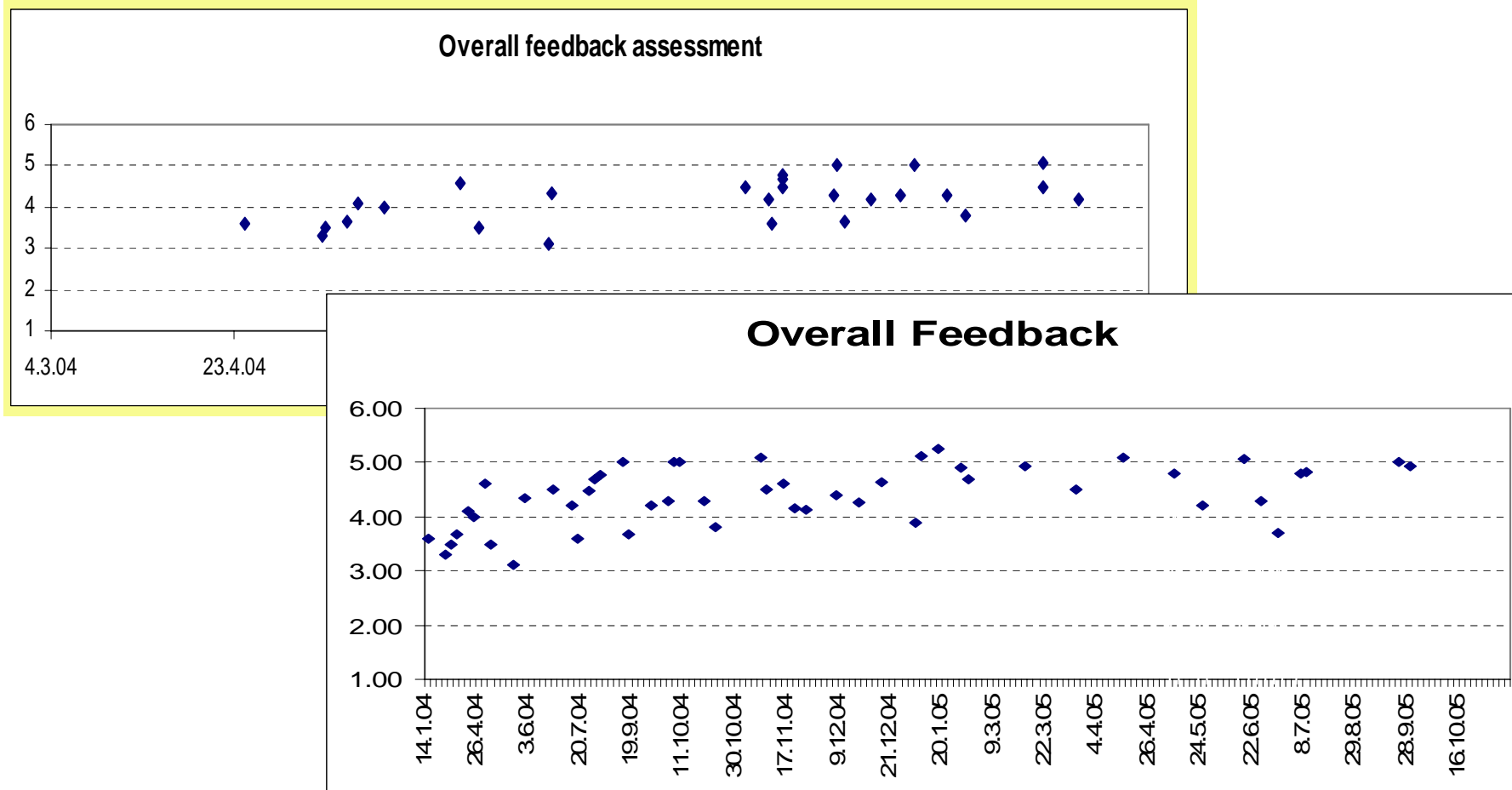
Single partner



- **Diligent**
 - Athens, 18/4/05
 - Pisa, 23/10/05
- **Magic**
 - Tenerife, 16/10/05
- **EMBRACE**
 - Clermont-Ferrand, 25-27/5/05
- **TERENA/NRENS**
 - Cambridge, 6/5/04
 - Cambridge, 8/9/05
 - Estonia, 29-30/9/05
- **Industry attendees at:**
 - International Summer School on grid Computing '05
 - Grids@Work tutorial
 - SME course FZK
 - PRISM Forum UK (Pharma)
- **Biomed courses**
 - Madrid 7-8/10/04
 - GATE, Julich 9/3/05
 - Clermont-Ferrand, 22-23/3/05
 - PRISM workshop, UK, 26 – 28/4/05
 - Lyon, 30/5/05
 - Clermont-Ferrand, 25 -27/6/05
- **Physics courses**
 - GridKa Summer Schools
 - PPARC Summer Schools
 - CERN Summer Schools
- **Earth Sciences**
 - Slovakia 14/4/04
 - Slovakia 27-30/6/05



Participants grade course from 1 to 6, each point – average for a course overall score (workshops not included – see TA)



Trainers review grades and revise course material and training plans

- Longer term feedback
- Match of course to expectations – 72%
- Generally considered themselves inexperienced before course
- Gaining experience through the course ~ 81%
- Improvement in work ~ 57%

(n = 23)

- **GILDA/GENIUS** has been central in installing new middleware versions, making these available and sharing experience
- **UEDIN** cluster also used for early gLite installation in conjunction with **GILDA** to gather experience and developing new application developer courses.
- **Cluster at FZK** used to support application developer and installation courses for gLite

- **Improving the interface**
 - De-centralized metadata input
 - Improved version control – full metadata histories
 - Better content control
 - Personalisation services
 - authorisation
- **Using “of the shelf” components, minimal development**
- **Demonstrated at Pisa**
- **Migrating to production server for user evaluation (NA3, other projects)**
 - Run in parallel with existing system to end of project.
 - Commitment to sustaining already built into other projects.
- **Editorial Task Force to identify “exemplar” courses.**
- **Supporting training activities in NA3, new VOs, related projects, externally.**
- **Already cooperating with DILIGENT**

▶ ABOUT

EGEE Learning

Development

Contribute

▶ DIGITAL LIBRARY

Discovery

Create Stub

Technical Details

▶ EVENTS

Training Events

Related Events

EGEE Conferences

Welcome to EGEE Learning

This website contains information and prototype services for an initiative, EGEE Learning, to pilot e-learning for the [Enabling Grids for E-science \(EGEE\)](#) project which aims to develop production grid infrastructure for scientific purposes. The e-learning pilot is part of EGEE [Networking Activity \(NA3\)](#) to provide user training and induction.

News:

- The EGEE NA3 e-Learning initiative has been announced at the [3rd EGEE Conference](#). See "e-Learning: Requirements, Service Options and Plan" presentation. *20/04/05*

Grid in General: What is grid computing? How does grid relate to e-science? What is *EGEE, CrossGrid, LCG, OSGA, Globus, GGF*? What are the toolkits available for developing grid applications? [Learn more..](#)



is a middleware produced jointly by different academic and industrial research centres from the EGEE Project to underpin grid applications. [Learn more..](#)

Library Quick Search

Enter keyword(s):

Sort by:

Title

More advanced search options available from "discovery" menu.

Current Modules

- [gLite](#)
- [Grid in General](#)
- [Using GENIUS](#)
- [XML](#)
- [WSDL](#)

[More..](#)

Prototype of improved archive & interface demonstrated at Pisa

- **Two tasks**
 - Update the knowledge of existing trainers
 - Train new trainers
 - (Both of these also happen at events not specifically for this purpose)
- **6 specific “Training the Trainer” events in 4 countries**
- **More than 89 attendees**
- **Supporting the development and bootstrapping the internal training plans with new VO communities**
 - Working with NA4 on MoUs



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

- 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).
 - **Appointed A.McCall to provide liaison and improve communication with NA2.**
 - **Similarly efforts are made at the national level (for example in the NeSC NewsLetter to the UK eScience community).**

- **Regional EGEE Summer School in Budapest, 11-16 July**
 - Induction course, Application Developer Course, Advanced Course gLite
- **PPARC Summer School – Edinburgh**
- **CERN Summer Students School - CERN**
- **CERN Summer School – St Malo**
- **GridKA – FZK**
 - Principles, User Induction, Developer APIs & Installation gLite

- **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

- 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
 - **contributing to the NCeSS event in February.**
 - **UEDIN is also helping NCeSS create an online Learning Object compliant entry relating to Virtual Organisations**
 - **re-used within the EGEE online training resources.**

- **Scale**
 - Support geographically diverse groups
 - Many different knowledge domains
 - Breadth of knowledge required

- **Quality**
 - Maintain and encourage a ‘quality culture’

- **Rate of change**
 - New middleware features
 - New VOs
 - Changing needs of domains
 - New projects
 - Changes in national grid provision

- **Rapid response to introduction of gLite**
 - Adoption of gLite
 - Sharing of experience
 - Creating courses
- **Moving to more demanding courses**
 - Greater proportion of developer courses to aid migration
- **Demonstrating new tools to aid alternative modes of training (self-paced).**
- **Improving communication with dissemination**
- **Maintaining quality and momentum.**
- **Supporting related projects and EGEE VOs**
 - Encouraging their 'organic' training efforts
- **Development of new training models**
 - Integrated training models to engage external training groups
 - Eg. Condor & Globus

- **During the introduction of gLite training effort has been focusing on developer & install courses**
 - these have included events specifically targeted at developers (for instance in the biomed community, and physics, eg. at GridKa)
 - and for administrators (eg. installation courses for biomed & physics)
- **Follow-on survey shows good levels of long term satisfaction.**
 - t-Infrastructure (clusters at UEDIN & FZK) used to support gLite admin courses and new course developments
 - t-Infrastructure (UEDIN & GILDA) provided training with experience of early gLite installations.
 - Prototyping improved archive
- **Channels of communication to dissemination being improved and high profile events advertised more widely.**
 - Eg. ISSGC'06 in GridToday
- **Continuing 'training the trainers' and cooperating with NA4 to help develop new communities' own training plans.**
- **Security integral to training courses & cooperation in UK with NCeSS**