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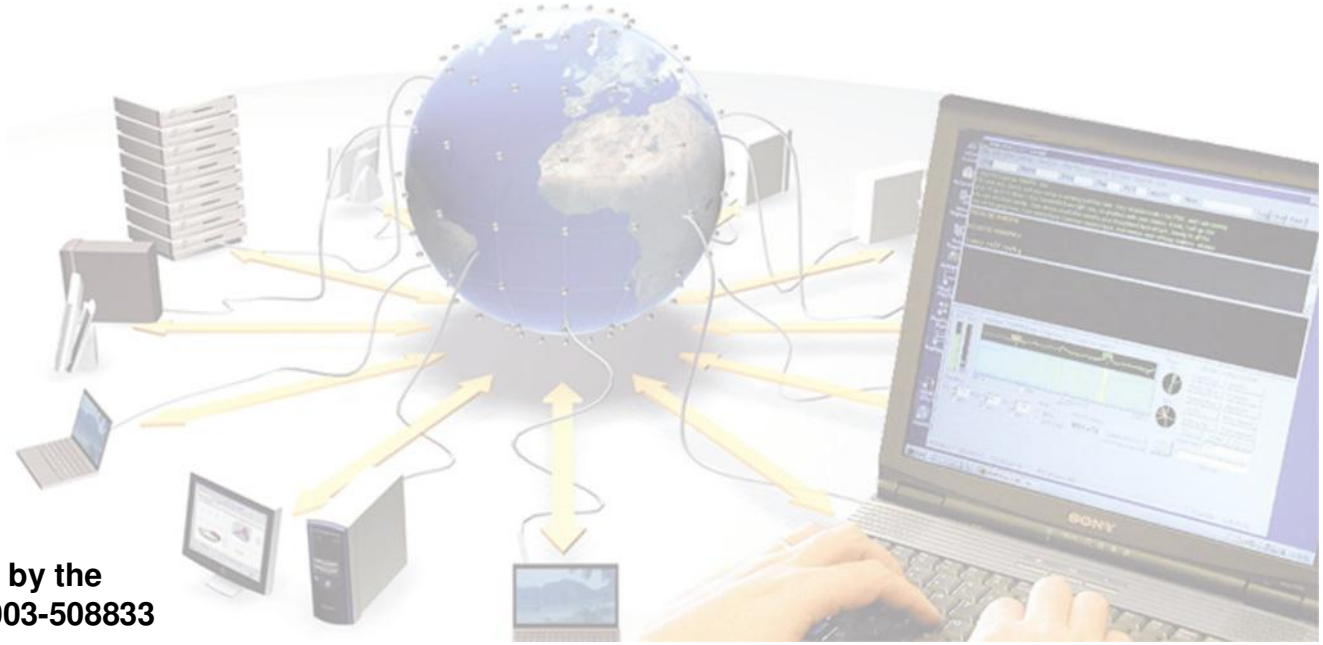
Information Society

European Commission

Enabling Grids for E-science in Europe

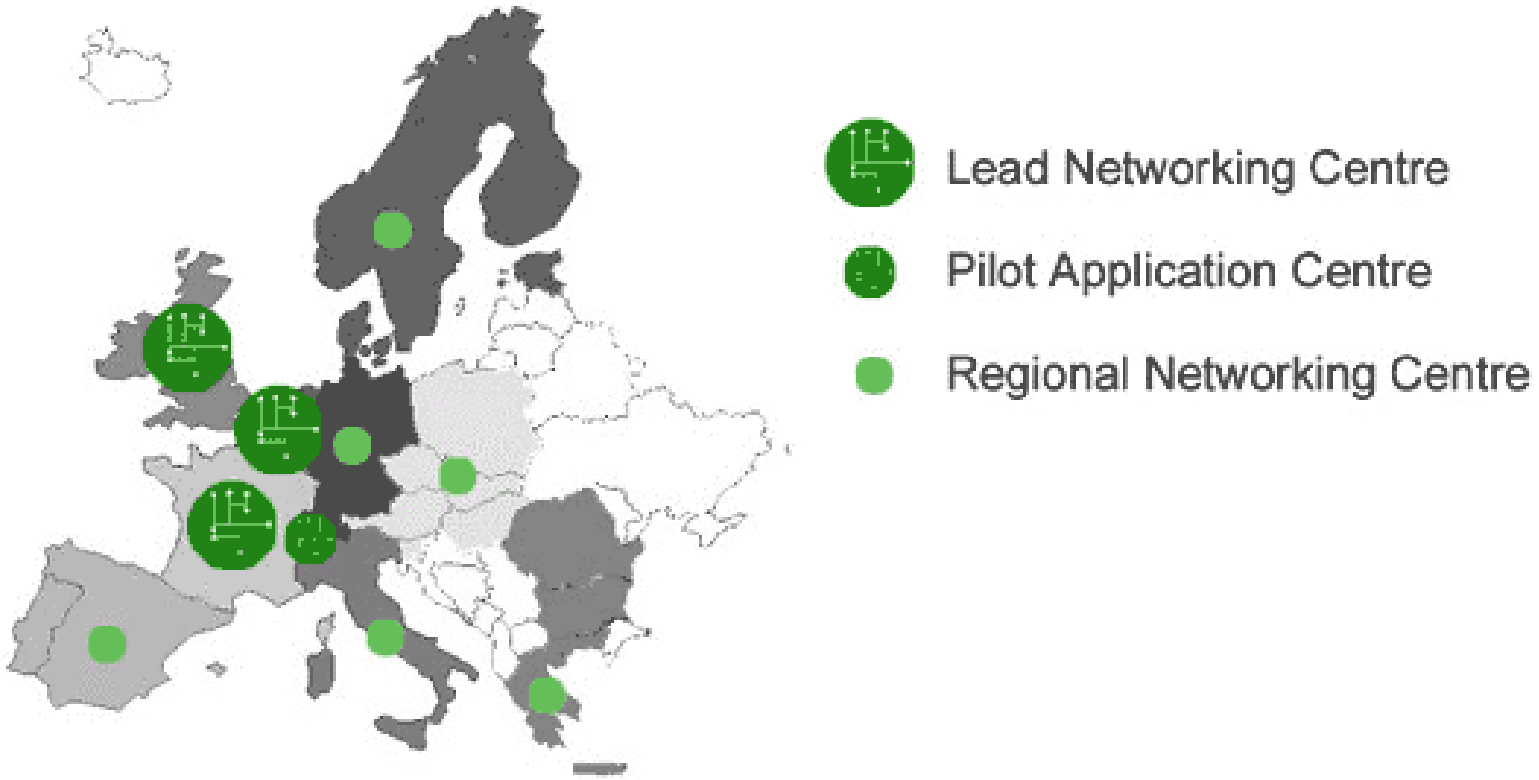


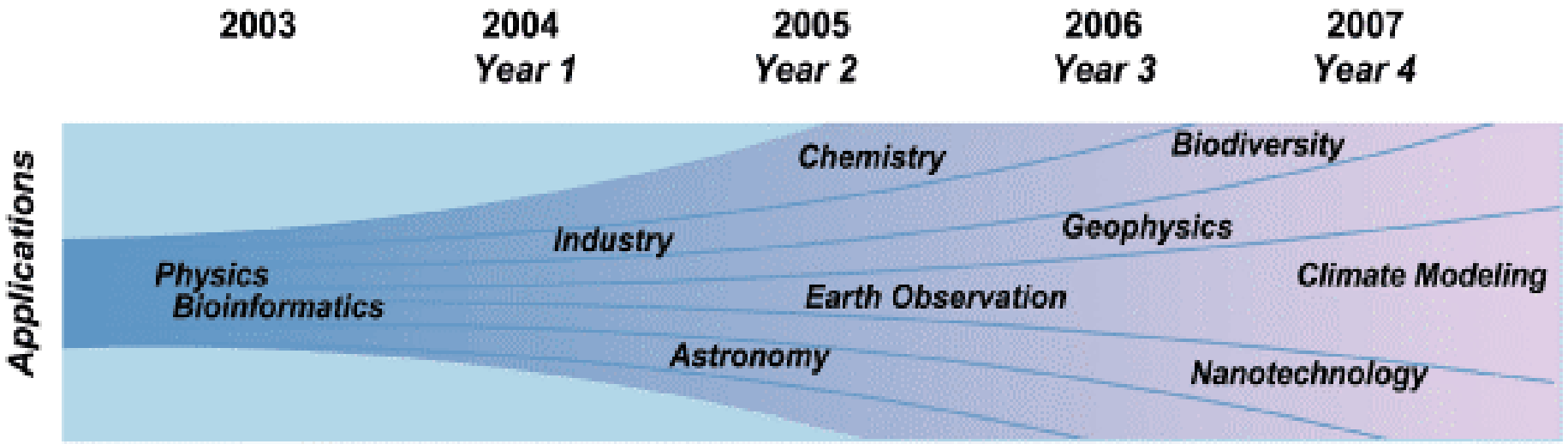
EGEE is proposed as a project funded by the European Union under contract IST-2003-508833

EGEE Applications Sector

- EGEE applications scope
  - The Pilot applications
  - The Generic Applications
- The applications coordination
- The testing team
- NA4 structure
- Conclusion

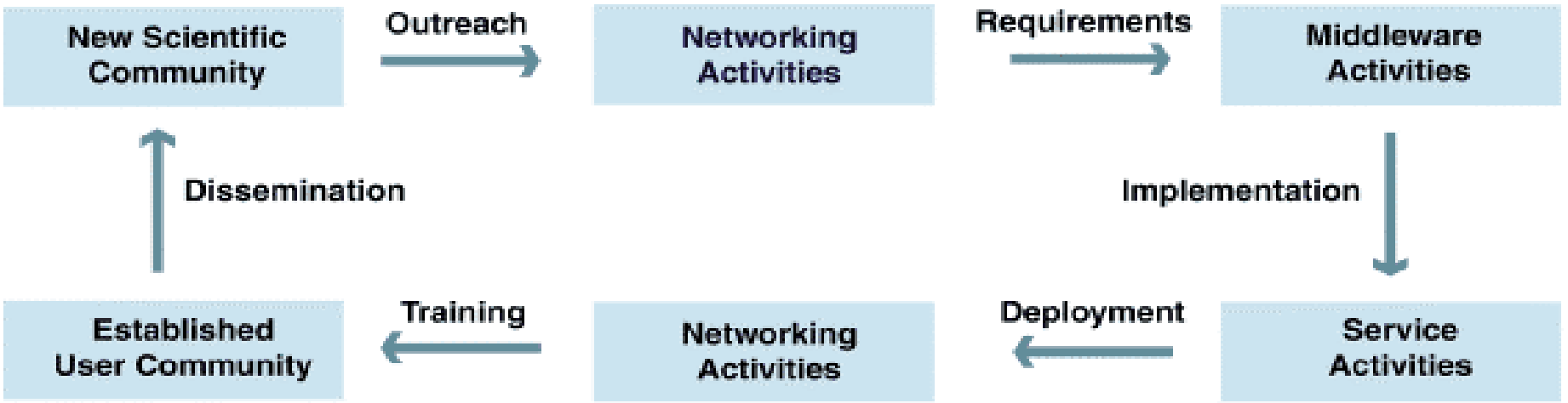
Applications, Dissemination, User Training



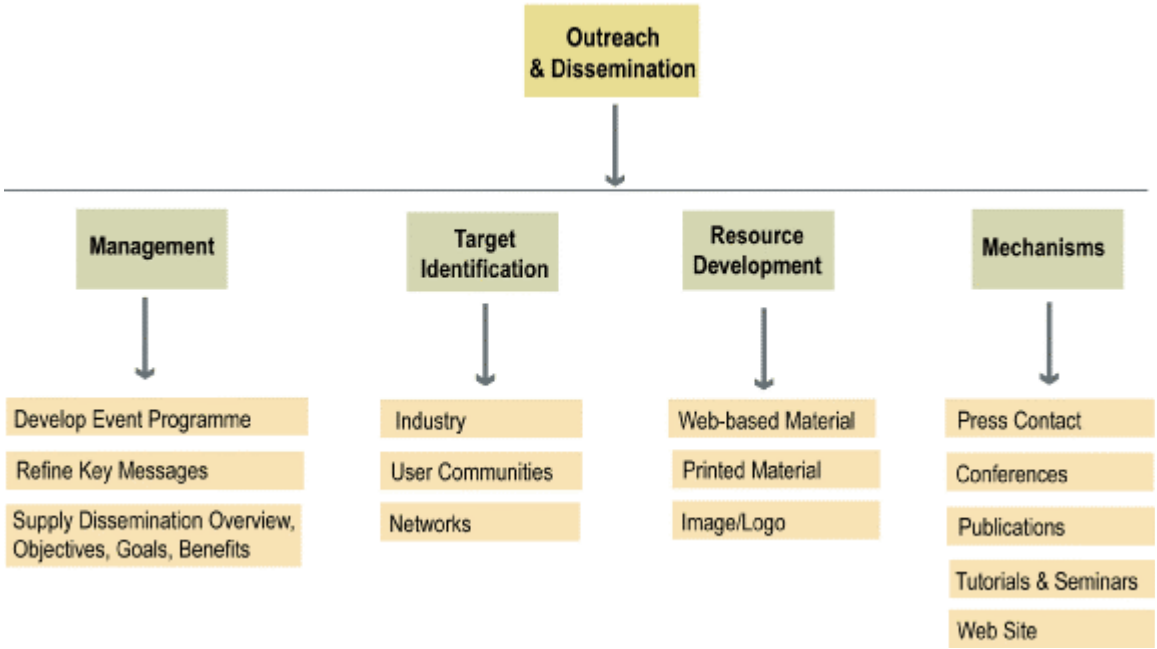

2003
2004
Year 1
2005
Year 2
2006
Year 3
2007
Year 4
Applications
Physics
Bioinformatics
Industry
Chemistry
Earth Observation
Astronomy
Biodiversity
Geophysics
Climate Modeling
Nanotechnology

EGEE virtuous circle (1)

EGEE « virtuous circle » (2)

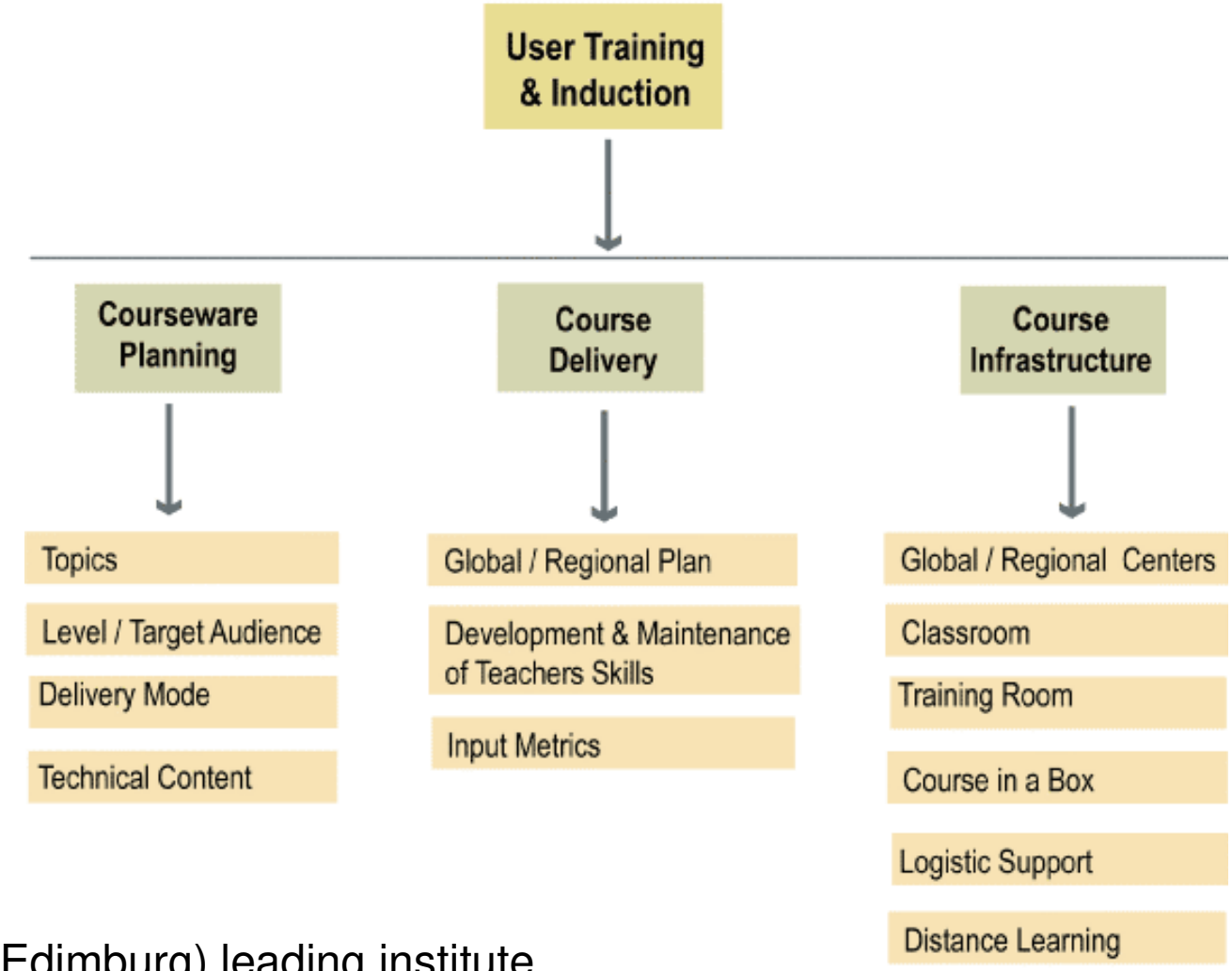


Dissemination and outreach (NA2)



TERENA leading institute

User training and Induction (NA3)



NeSC (U. Edimburg) leading institute

EGEE Applications scope

Enabling Grids for E-science in Europe

- EGEE Scope : ALL-Inclusive for academic applications
- Open to industrial and socio-economic world as well
- The only success criterium of EGEE!: how many satisfied users from how many different domains ?
- In the TA: 5000 users (3000 after year 2) from at least 5 disciplines
- Firmly establish the added value brought by the Grid on a
  - quantitative basis (« much more of the same »)
  - qualitative basis (« breaking new grounds thanks to the Grid concept »)

The pilot applications

- Dual role
  - Earliest users
  - Feedback providers
- Must be dedicated and grid-aware communities
  - HEP and Bio/medical
- Natural continuation from DATAGRID

HEP sector

- CERN coordinator
  - 4 FTE plus 4 unfunded
  - Embedded within LHC experiments
- Role : deployment of LHC apps on EGEE infrastructure and feedback
- Open to non-LHC experiments as well

Bio sector

- CNRS coordinator, Spain and Russia partners
  - 4 FTE funded + 4 unfunded
  - Embedded in the BioMed projects, on a permanent or temporary basis
- Multiple role:
  - Demonstrate the usefulness of grid-powered biomed applications
  - Become the focal point of the Biomed Grid community, in partnership with the HealthGrid association
  - Provide detailed feedback to EGEE
  - Ensure that specific bioMed requirements propagate everywhere in EGEE

The generic applications

- All the others!
- Need of an attractive and orderly integration process:
  - Peer review process
  - scientific interest of the proposed work, with particular emphasis on the grid added-value,
  - coordination of the corresponding community,
  - grid-awareness of this community
  - minimum requirement that a small team followed the EGEE training), dedication of the community to this application,
  - agreement to the various EGEE policies and especially the security and resources allocation policies.
- Technical involvment
  - Allocate workforce for a given time period
- Ressource allocation policy
  - Initial period: free lunch, then roughly-diagonal model

Applications coordination

- Each application sector has operational autonomy
  - coordinator
  - dedicated manpower
  - specific goals
  - Seat in EGEE Architecture group
- However, clear need for overall coordination (cf WP8-9-10 working group)
  - Common tools
  - Cross fertilization
  - Unified user interface
  - relationship with other EGEE sectors (PEB seat)

Other NA4 activities

- Industry Forum
  - Presession April 22, 2003 (~25 participants)
  - Second session October 7 , 2003 at CERN
- NA3 liason person
- NA4 Test team
  - Derive testing suites based on use cases

NA4 Steering committee

- Guy Wormser,CNRS-France, NA4 overall manager.
- Vincent Breton , CNRS-France, NA4 Bio-Med Application manager
- Frank Harris,CERN, NA4 HEP Application manager.
- Roberto Barbera, INFN-Italy, NA4 Generic Application manager.
- Christian Saguez, Ecole Centrale Paris-France, Chair of the EGEE Industry Forum.
- Francois Etienne, CNRS-France, NA4 deputy manager.

Roles and staffing

Federation	Role	FTE Requested	FTE Unfunded	Financing Requested
CERN	HEP Applications (coord.)	4	4	800
UK+Ireland	NA3 Liaison	0,5	0,5	94
Italy	Generic app (coord)	2	2	400
France	General coord., BioMed, Test team, Industry diss.	7	7	1392
Northern Europe	Generic applications	1	1	194
Germany + Switzerland	Generic applications	1	1	199
Central Europe	Generic applications	1	1	60
South West Europe	BioMed	2	2	348
Russia	HEP, BioMed	3	3	151
Totals		**21,5**	**21,5**	**3608 k€**

Milestones

Milestones and expected result		
MNA4.1	M6	First applications migrated to the EGEE infrastructure
MNA4.2	M12	First external review of Applications Identification and Support with feedback
MNA4.3	M24	•Second external review of Applications Identification and Support with feedback
		.

Deliverables

Deliverables		
DNA4.1	M3	Definition of Common Application Interface and Planning Document
DNA4.2	M6	Target Application Sector Strategy document
DNA4.3	M9	•EGEE Application Migration Progress report (revision M15 and M21)
DNA4.4	M24	Final Report of Application Identification and Support Activity
		.

Conclusion

- The Application sector is at the end of EGEE chain
- But it is the ONLY success criterion:
  - Many happy users from many different fields (academic and some industry-related)
- Two pilot applications with special role to provide detailed feedback: HEP and BioMed
- Well defined integration process to « adopt » new applications
- Small workforce dedicated to one application at a time to help its deployment
- General application coordination to progress towards a unified interface layer
- Interface with all EGEE areas