Related Grid Projects

Dieter Kranzlmüller

Deputy Project Director

www.eu-egee.org

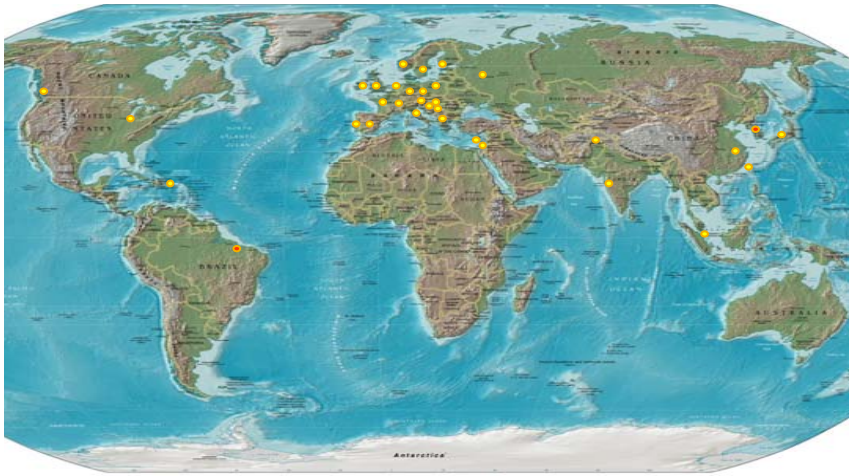
Information Society

Transition from EGEE

- **Aim of EGEE:**

  "to establish a seamless European Grid infrastructure for the support of the European Research Area (ERA)"

- **Achievements of EGEE:**
  - Exceeding almost all final goals
  - Scope expanded beyond Europe



- **Transition EGEE → EGEE-II**
  - EGEE conceived as first two years of four-year plan
  - Services continuously available

- **EGEE-II start:**
  - → Full capacity from day one
  - → Large-scale, production-quality infrastructure
  - → Supporting a wide range of applications
  - → Staff with extensive knowledge of Grid technology

From Bob Jones' Talk

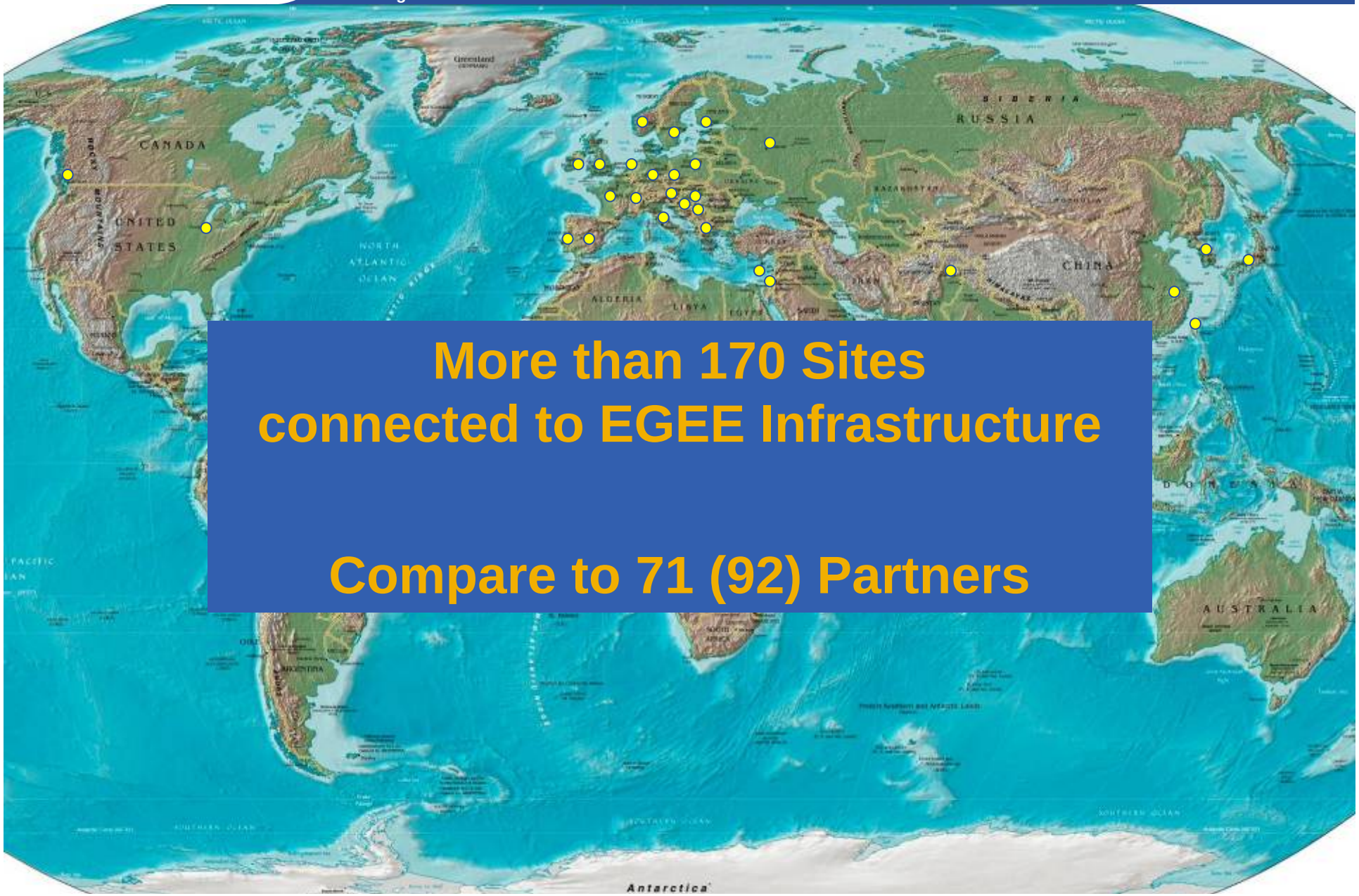
EGEE Infrastructure

Enabling Grids for E-sciencE

More than 170 Sites connected to EGEE Infrastructure

EGEE Infrastructure

Enabling Grids for E-sciencE



More than 170 Sites connected to EGEE Infrastructure

Compare to 71 (92) Partners

EGEE Relations

Different kinds of relations:

- **Partners of EU Project EGEE / EGEE-II**
- **(Voluntary) Contributors to the EGEE Infrastructure**
- **Independent EGEE Infrastructure Providers**
- **National/Regional Grid Projects building on or connecting to EGEE**

Sample of National Grid Projects

- **Austrian Grid Initiative**
- **DutchGrid**
- **France:**
  - e-Toile
  - ACI Grid
- **Germany**
  - D-Grid
  - Unicore
- **Grid Ireland**
- **Italy**
  - INFNGrid
  - GRID.IT
- **NorduGrid**
- **UK e-Science**
  - National Grid Service
  - OMII
  - GridPP project
- **Greek HellasGrid**

EGEE Relations

Different kinds of relations:

- **Partners of EU Project EGEE / EGEE-II**
- **(Voluntary) Contributors to the EGEE Infrastructure**
- **Independent EGEE Infrastructure Providers**
- **National/Regional Grid Projects building on or connecting to EGEE**
- **Independent Grid Infrastructure Projects**
- **Related Projects:**
  - Infrastructure Projects
  - Application Projects
  - Support Projects

EGEE Related Projects

- **Infrastructure Projects**
  - DEISA, SEEGRID
  - New: BalticGrid, EELA, EUChinaGrid, EUMedGrid, …

Distributed European Infrastructure for Supercomputing Applications

SEE-GRID

Baltic Grid

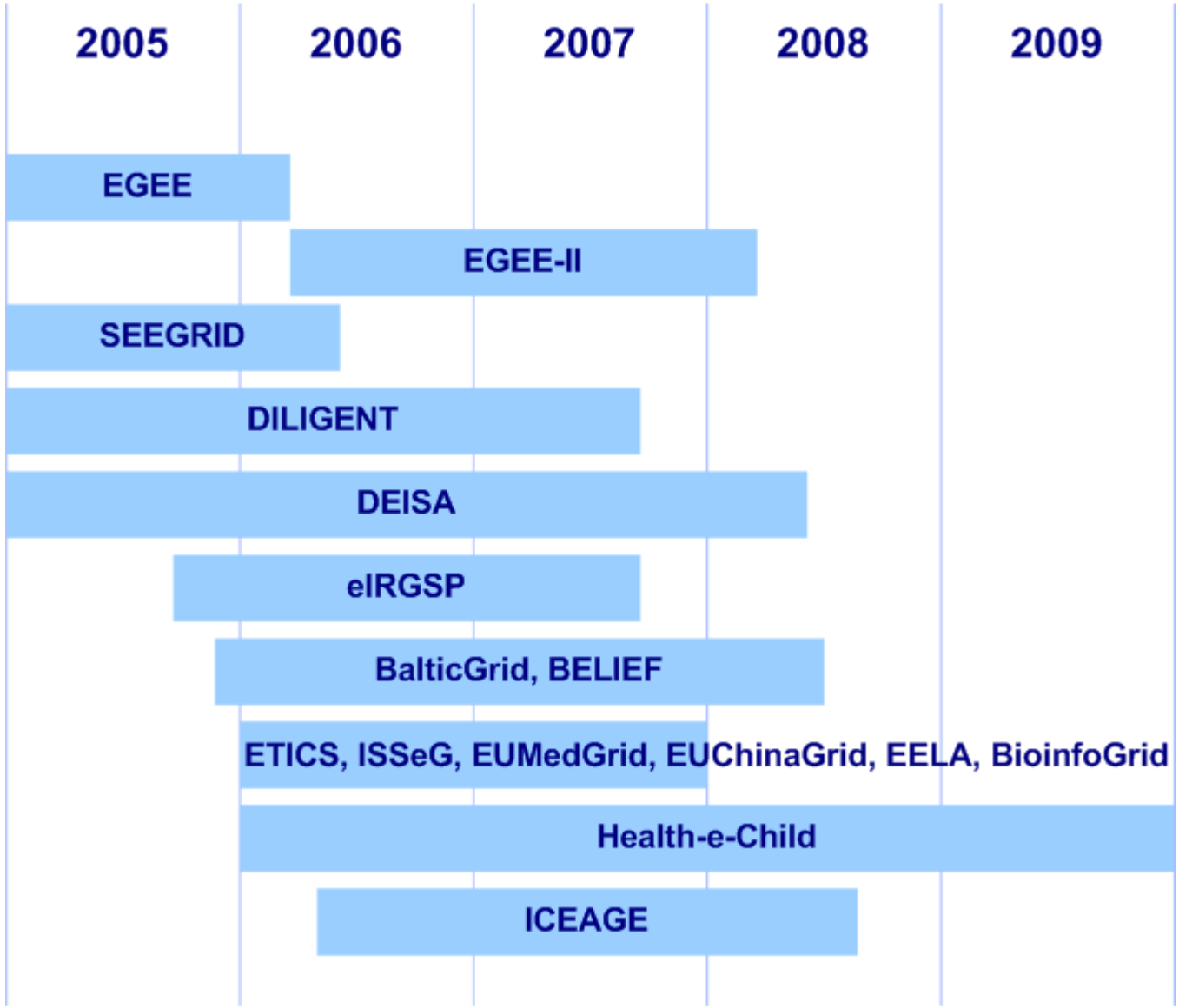
EUMEDGRID

EGEE Related Projects

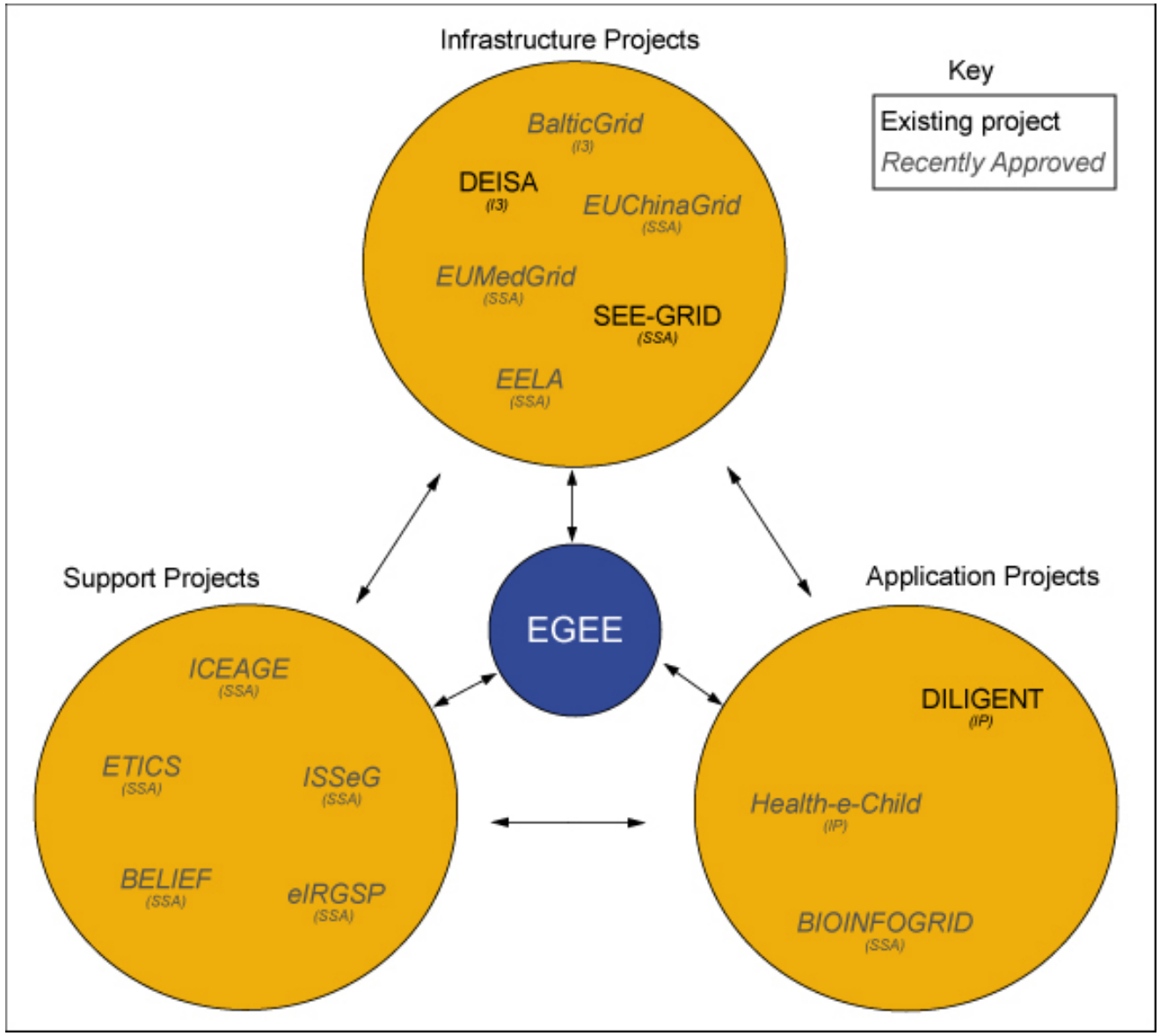
- **Application Projects**
  - DILIGENT
  - New: BIOINFOGRID, Health-e-Child, …

- **Support Projects**
  - New: BELIEF, ETICS, eIRGSP, ICEAGE, ISSeG, …

Time Scales


2005
2006
2007
2008
2009
EGEE
EGEE-II
SEEGRID
DILIGENT
DEISA
eIRGSP
BalticGrid, BELIEF
ETICS, ISSeG, EUMedGrid, EUChinaGrid, EELA, BioinfoGrid
Health-e-Child
ICEAGE

Related Projects



Growing Scope

Synergies between Projects

- **Cooperation between projects is important**
  - To detect and exploit synergies
  - To interoperate in different areas (expertise, services, …)
  - To best serve science in Europe and World-wide

- **Possible areas of cooperation with EGEE**
  - Infrastructure related
    - exchanging or using facilities such as computing, storage, networks, …
    - other areas such as operations, user support, …
  - Middleware
  - Applications
  - Training
  - Dissemination and Policies.

EGEE and Related Projects

- **EGEE NA5 – International Cooperation**
  (Activity Manager: Fotis Karayannis)

- **Dedicated Meetings at 4th EGEE Conference**
  - Tue am: Plenary Talks of Related Projects
  - Tue pm: External Projects Session incl. **Discussions**

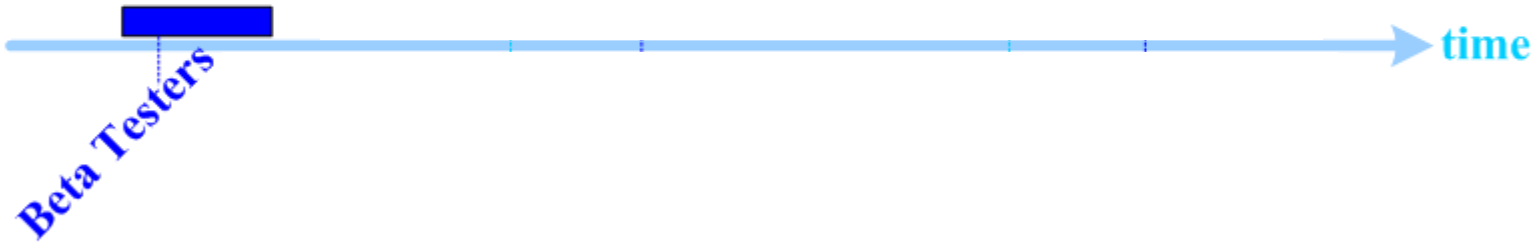
- **eConcertation Events**
  - Next Event: December 14, 2005, Bordeaux, France
    during Broadband Europe http://www.bbeurope.org/

- **Contributions to eIRG Workshops and White Papers**

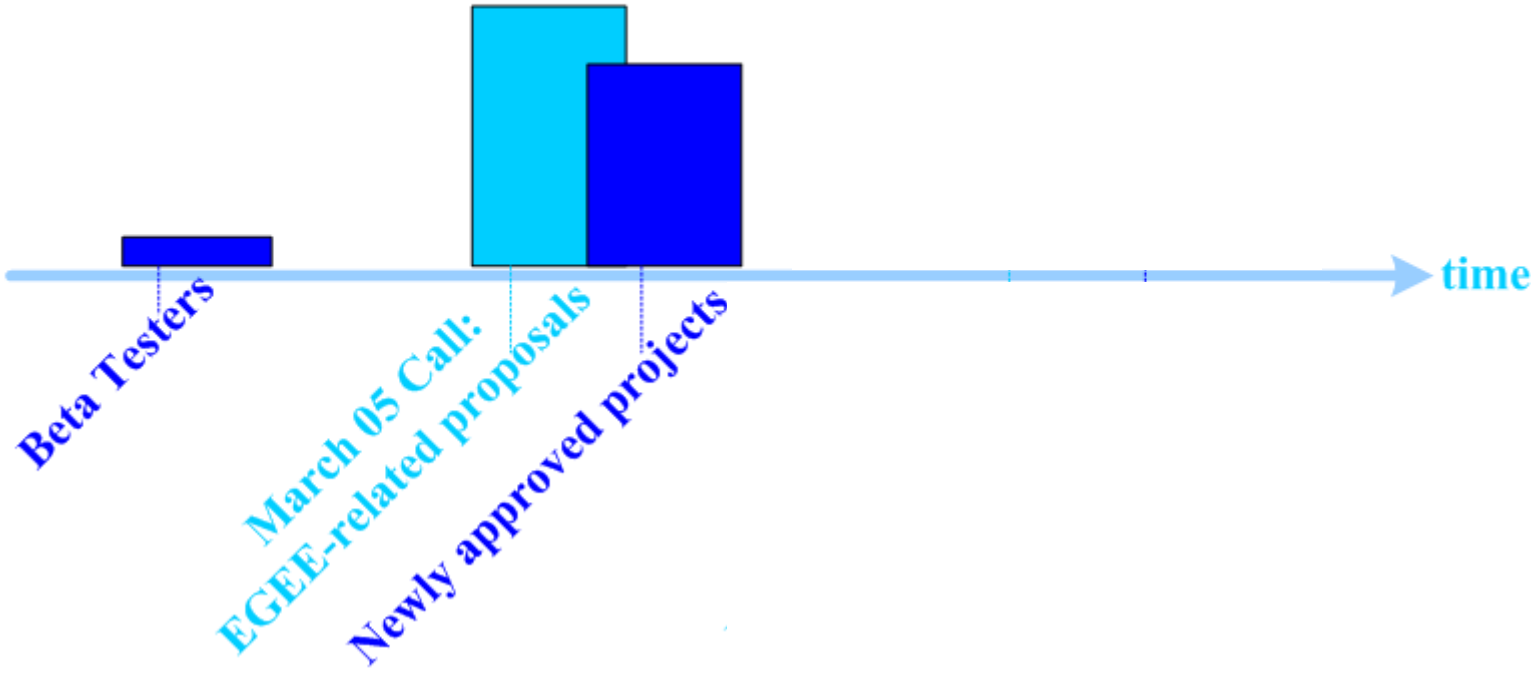
EGEE as Incubator

- EGEE is taking its role as "**Incubator**" very seriously
- EGEE understands and accepts its **responsibility** and tries hard to live up to these expectations

EGEE Uptake

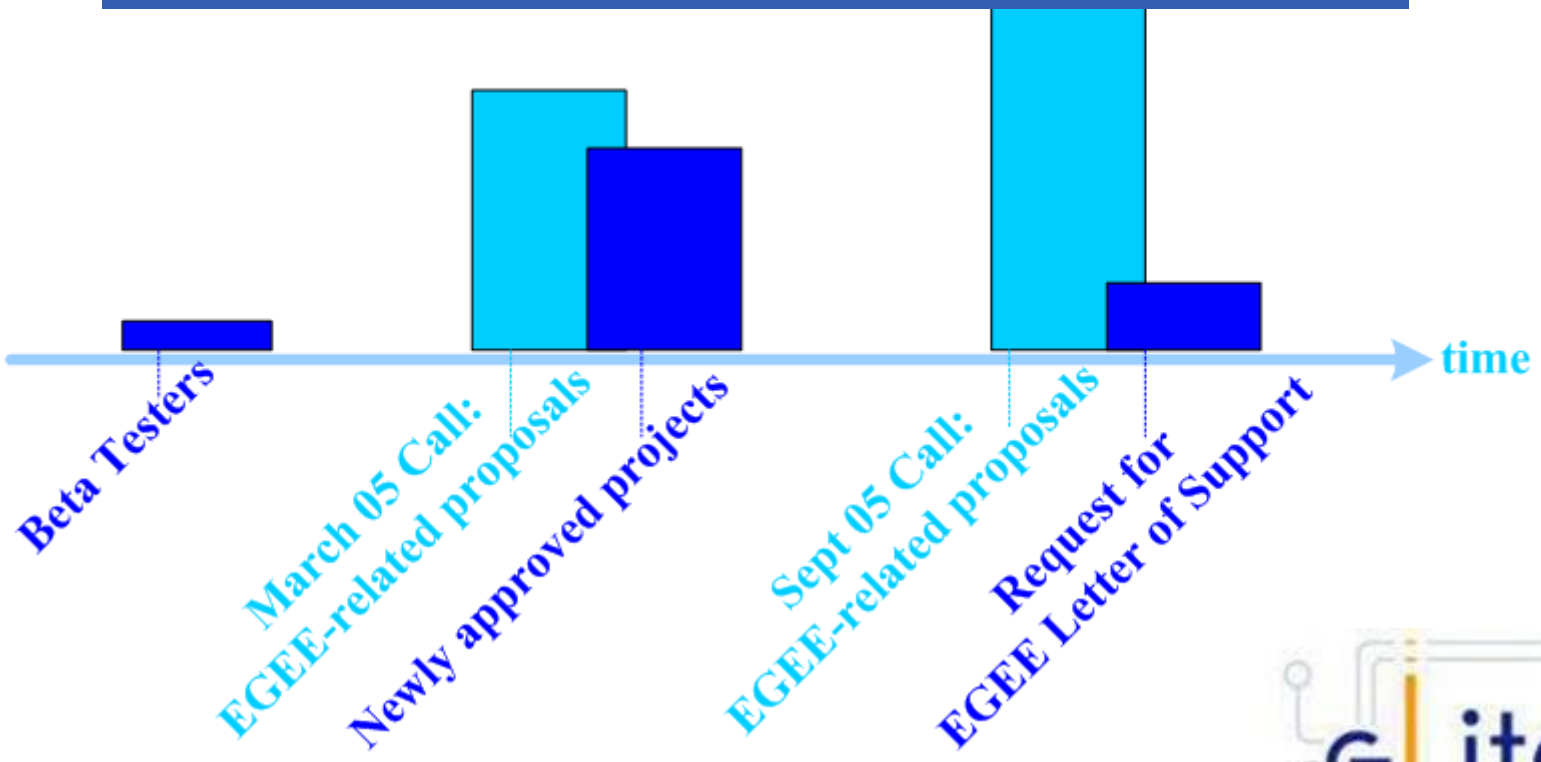


EGEE Uptake


time
Beta Testers
March 05 Call:
EGEE-related proposals
Newly approved projects

EGEE Acceptance?

EGEE is being accepted as robust, reliable grid infrastructure and as a matter of course



EGEE as Incubator

- EGEE is taking its role as "**Incubator**" very seriously
- EGEE understands and accepts its **responsibility** and tries hard to live up to these expectations
- **We need from you**:

  Your ideas, input and feedback
  for better cooperation and
  to further exploit synergies

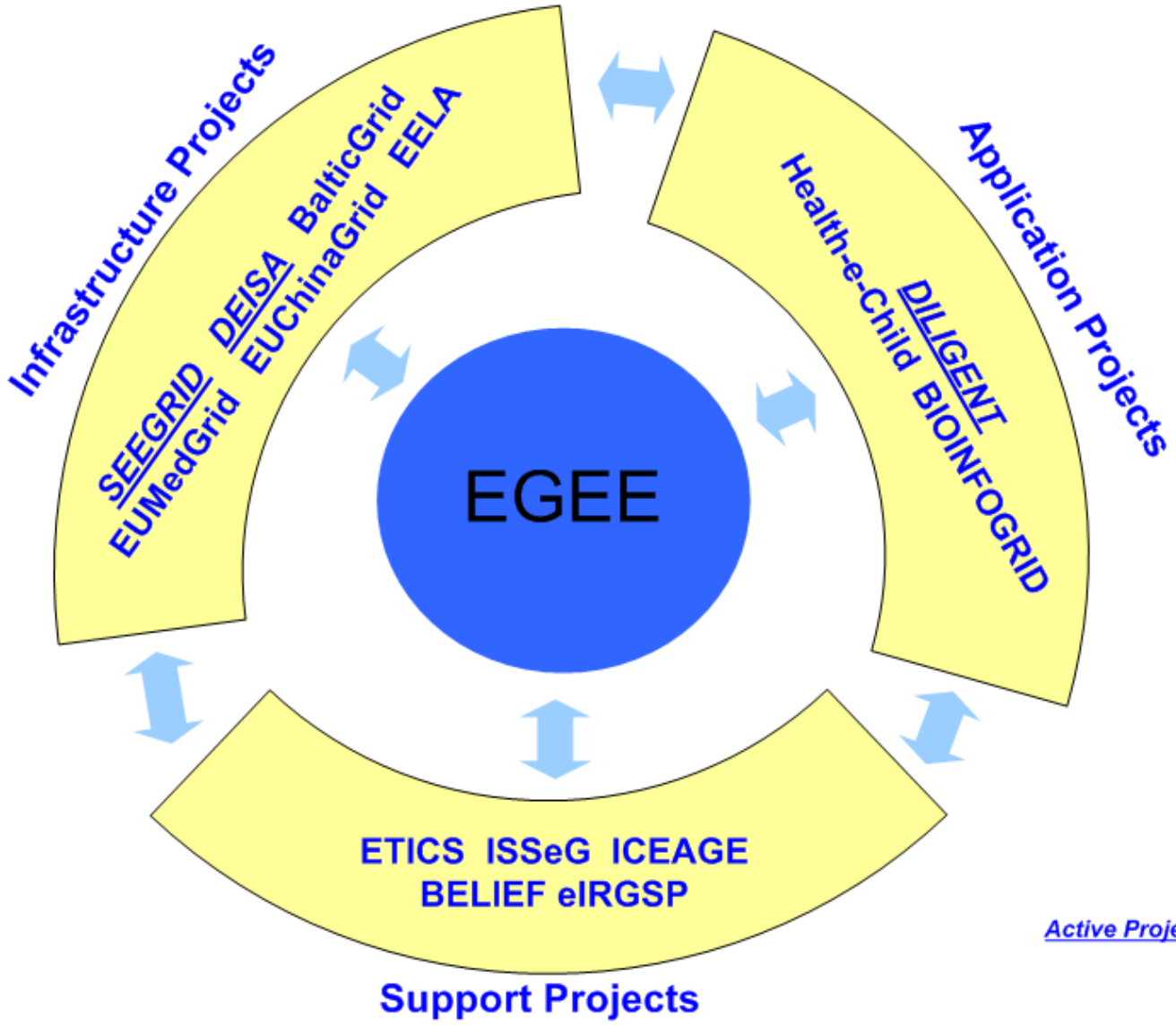
- We are aware that cooperation is difficult
- **Success is mandatory** in order
  to build the future environment for serving and advancing European and world-wide Science
- Synergies and cooperation is key for all of us

Failure is NOT an option

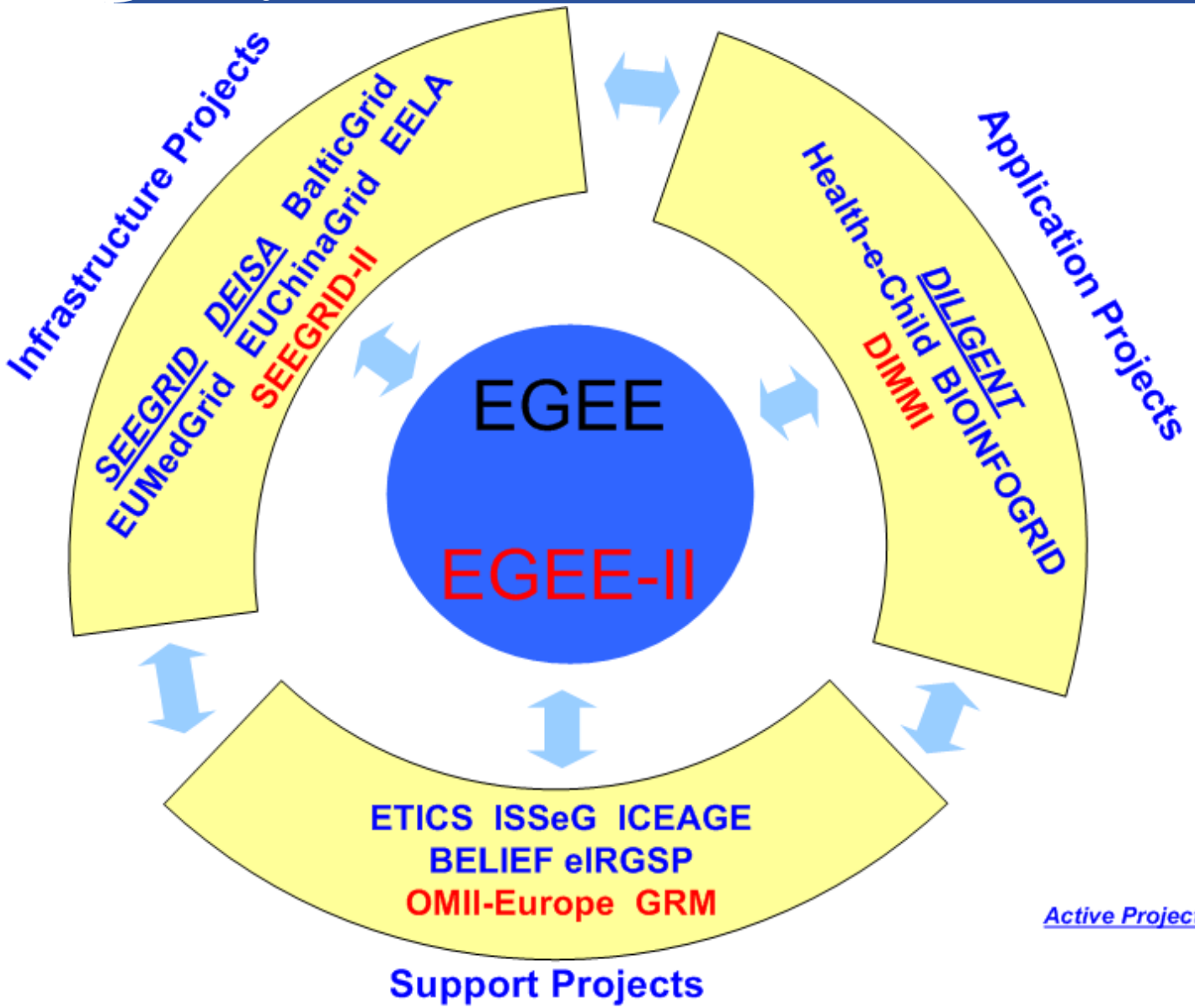
EGEE Relations

Grid is about people working together!

Related Projects



September Proposals



Application Projects

- **Active Project**
  - *DILIGENT*

- **New Projects**
  - BIOINFOGRID
  - Health-e-Child

Application Project: DILIGENT

Aim: *To integrate Grid and Digital Library technologies to create an advanced test-bed to allow secure and coordinated sharing of knowledge.*

Coordinator: *ERCIM, France*

Start date: *September 2004 for 36 months*

http://www.diligentproject.org

Diligent
A DIgital Library Infrastructure on Grid ENabled Technology

Application Project: BIOINFOGRID

Aim: *To combine bioinformatics services and applications for molecular biology with the Grid Infrastructure to provide ubiquitous and seamless access throughout Europe for the Bioinformatics community.*

Coordinator: *CNR-ITB, Italy*

Start date: *January 2006 for 24 months*

Application Project: Health-e-Child

Aim: *To provide an integrated healthcare platform for European pediatrics.*

Coordinator: *Siemens, Germany*

Start date: *January 2006 for 48 months*

Support Projects

- BELIEF
- ETICS
- eIRGSP
- ICEAGE
- ISSeG

Support Project: BELIEF

Aim: *To build and promote an effective communication network platform through which international outreach and industry engagement may be achieved.*

Coordinator: *Metaware, Italy*

Start date: *November 2005 for 24 months*

Support Project: ETICS

Aim: *To establish an international and well managed capability for software configuration, integration, testing and benchmarking for the scientific community.*

Coordinator: *CERN, Switzerland*

Start date: *January 2006 for 24 months*

Support Project: eIRGSP

Aim: *To provide a solid basis for the work of the e-Infrastructure Reflection Group (e-IRG) and increase its impact.*

Coordinator: *NCF-NWO, Netherlands*

Start date: *October 2005 for 24 months*

Support Project: ICEAGE

Aim: *To establish a world-wide initiative to inspire innovative and effective grid education.*

Coordinator: *UEDIN, Scotland*

Start date: *March 2006 for 24 months*

Support Project: ISSeG

Aim: *To contribute to the consolidation of the European Grid infrastructure in the field of computer security.*

Coordinator: *CERN, Switzerland*

Start date: *January 2006 for 24 months*

Infrastructure Projects

- **Active Projects**
  - DEISA
  - SEEGRID

- **New Projects**
  - BalticGrid
  - EELA
  - EUChinaGrid
  - EUMedGrid

EUMEDGRID

Infrastructure Project: DEISA

Aim: *To build and operate a distributed tera-scale supercomputing facility.*

Coordinator: *IDRIS-CNRS, France*

DEISA is a consortium of leading national supercomputer centres in Europe

- *IDRIS – CNRS, France*
- *FZJ, Jülich, Germany*
- *RZG, Garching, Germany*
- *CINECA, Italy*
- *EPCC, Edinburgh, UK*
- *CSC, Helsinki, Finland*
- *SARA, Amsterdam, The Netherlands*
- *ECMWF (European Organization), Reading, UK*

Start date: *May 2004 for 48 months*

http://www.deisa.org/

Infrastructure Project: SEEGRID

Aim: *To provide specific support actions to assist the participation of South Eastern European states to the pan-European Grid initiatives.*

Applications: *HEP, Biomedical, Earth Science, Regional: 3D imaging, On-demand web crawling*

Coordinator: *GRNET, Greece*

Participating countries: *Albania, Bosnia-Herzegovina, Bulgaria, Croatia, FYR of Macedonia, Greece, Hungary, Romania, Serbia-Montenegro, Switzerland, Turkey*

Start date: *May 2004 for 24 months*

http://www.see-grid.org/

Infrastructure Project: BalticGrid

Aim: *To develop and integrate the research and education computing and communication infrastructure in the Baltic States into the emerging European Grid infrastructure.*

Applications: *HEP, Regional: Material Science, Bioinformatics*

Coordinator: *KTH, Sweden*

Participating countries: *Estonia (2 partners), Latvia (2 partners), Lithuania (2 partners), Poland (2 partners), Sweden, Switzerland*

Start date: *November 2005 for 30 months*

Infrastructure Project: EELA

Aim: *To build a bridge between consolidated e-Infrastructure initiatives in Europe and emerging ones in Latin America.*

Applications: *HEP, Regional: Bioinformatics, Education, Climate*

Coordinator: *CIEMAT, Spain*

Participating countries: *Argentina, Brazil (5 partners), Chile (3 partners), Cuba, Italy, Mexico, Portugal, Peru, Spain (5 partners), Switzerland, Venezuela plus CLARA*

Start date: *January 2006 for 24 months*

http://www.eela-grid.org/

Infrastructure Project: EUChinaGrid

Aim: *To interconnect the Grid infrastructure in Europe and China for the benefit of e-Science applications.*

Applications: *HEP, Regional: Cosmic Ray Experiment, Biology*

Coordinator: *INFN, Italy*

Participating countries: *China (4 partners) Greece, Italy (3 partners), Poland, Switzerland*

Start date: *January 2006 for 24 months*

Infrastructure Project: EUMedGrid

Aim: *To provide specific support actions to assist in the participation of the states of the Mediterranean region in the pan-European and worldwide Grid initiatives.*

Applications: *HEP, Biomedicine, Earth Science, Regional: Water Control*

Coordinator: *INFN, Italy*

Participating countries: *Algeria, Cyprus, Egypt, Greece, Italy, Malta, Morocco, Spain, Switzerland, Syria, Tunisia, Turkey, UK*

Start date: *January 2006 for 24 months*

EUMEDGRID