

ICEAGE



International Collaboration to Extend and Advance Grid Education

Introduction to ICEAGE

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ICEAGE Overview

Mission
Partners
Activities
Plans
Summary

€1.2 million
2 years
Started
1st March
2006

ICEAGE 2 –
bid being
prepared



Photographer: Kathy Humphry



ICEAGE Mission & Goals

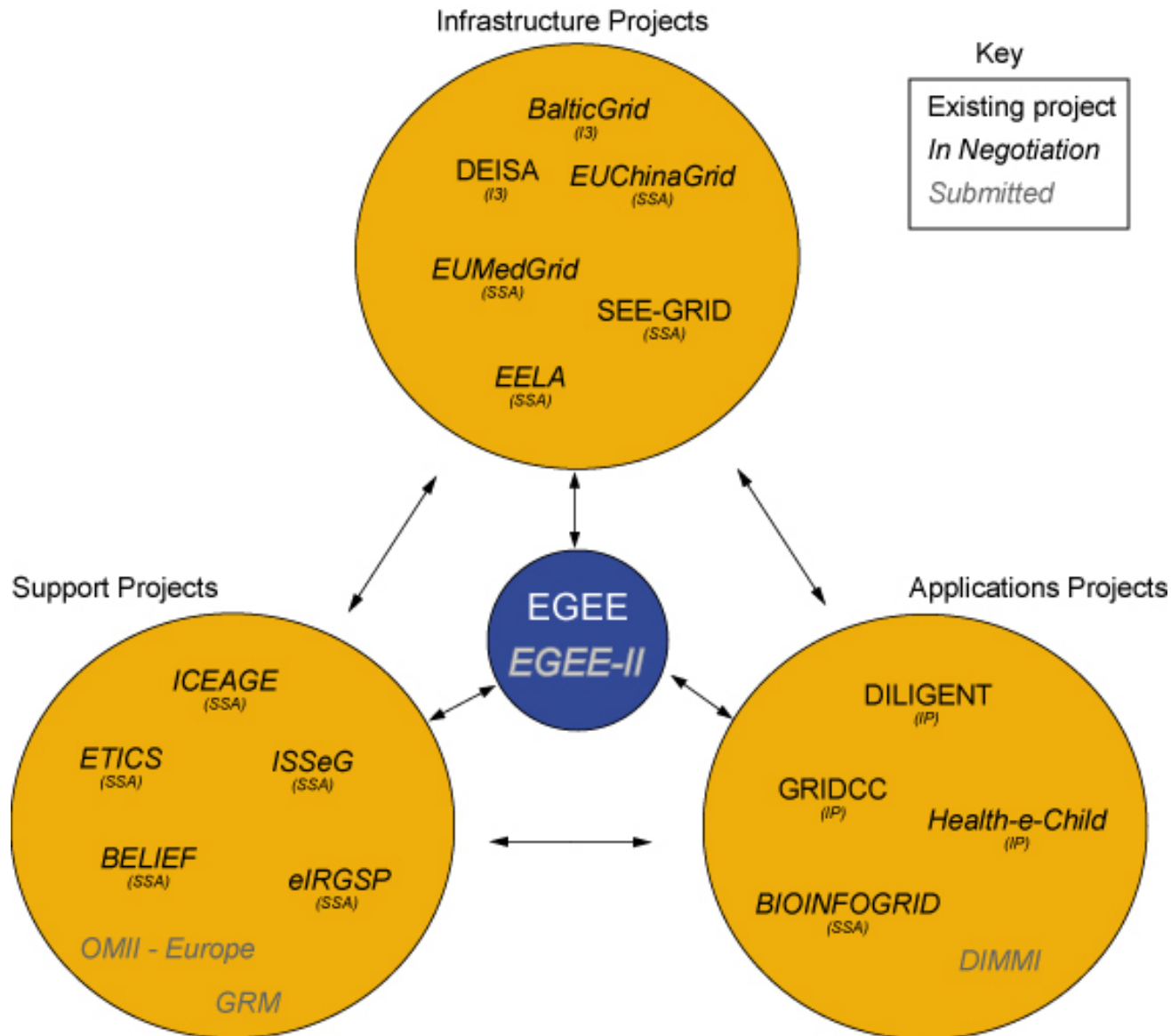
- **Mission**

Stimulate and support advances in grid education throughout Europe

Goals

- Achieve rapid growth in effective advanced grid education
 - Enabling society to make best use of e-Infrastructure
- Make best use of worldwide capacity for advanced grid education
- Deliver a stimulating programme of educational events
 - Including international summer schools
- Broaden engagement in an advanced grid education
 - both geographically and across disciplines

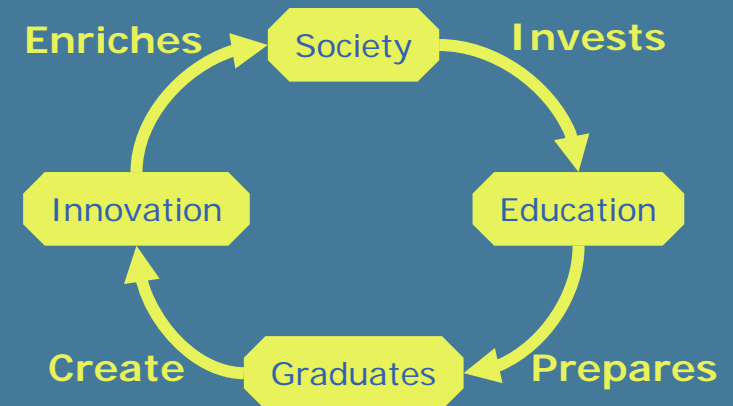
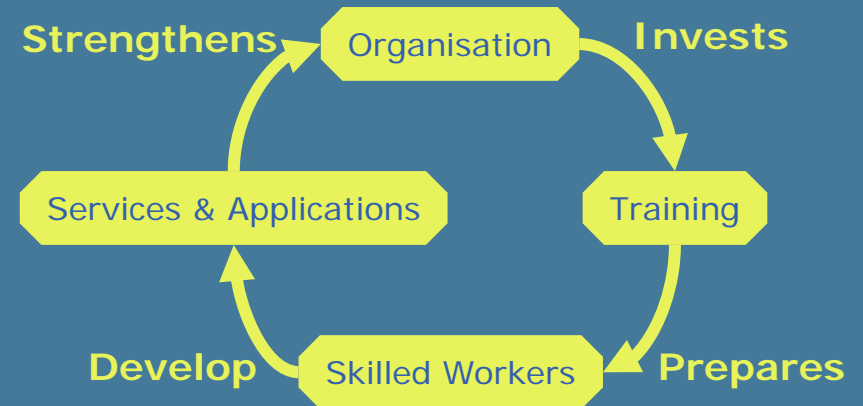
<http://www.iceage-eu.org/>





Vive la Difference

- **Training**
 - Targeted
 - Immediate goals
 - Specific skills
 - Building a workforce
- **Education**
 - Pervasive
 - Long term and sustained
 - Generic conceptual models
 - Developing a culture
- **Both are needed**





- **Edinburgh – National e-Science Centre**
- **Universita' degli Studi di Catania**
- **SPACI –**
 - a Southern Partnership for Advanced Computational Infrastructures
- **CERN**
- **Kungliga Tekniska Högskolan, Stockholm**
- **SZTAKI – Budapest**
 - Magyar Tudományos Akadémia Számítástechnikai és Automatizálási Kutató Intézet
- **Two new no cost partners**
 - Trinity College Dublin, Eire
 - Fachhochschule Vorarlberg, Austria



Activities

- **WP1 – Forum - International panel of experts**
 - to develop curricula, policies & strategies
 - advice to other activities
- **WP2 - Support, Outreach, Induction & Training services**
 - Attracting & Educating the Educators
 - Influencing Higher Education Curricula
 - E-Learning, repository & course scheduling & announcement
- **WP3 - Summer Schools**
- **WP4 - T-Infrastructure**
- **WP5 - Coordination & Management**



WP1 - Work done 1

- **2 Forum Meetings**
- **Raise Education & Training in National & EU agenda**
 - European E-infrastructure reflection group (E-IRG)
- **Education workshops at GGF/OGF**
- **OGF working group established**



WP1 - Work done 2: e-IRG

- Have established a chapter on E&T in e-IRG white paper
- Workshop in Linz, 10-11 April
- Prepared chapter
- Accepted by formal meeting in Vienna, June
- <http://www.e-irg.org/>



EU AT

e-Infrastructure Reflection Group

White Paper

Version 1.1, 30/6/2006

4.4. USAGE POLICIES.....

4.5. EDUCATION AND TRAINING..

4.6. GRID ECONOMY ALLOCAT

9. EDUCATION AND TRAINING

9.1. POLICY AREA

Education and training in the use of e-infrastructure are necessary to realise its potential. They will benefit from shared best practice, coordination and compatible policies, and access to shared education and training material and support systems.



E-IRG: recommendations

4.5. EDUCATION AND TRAINING

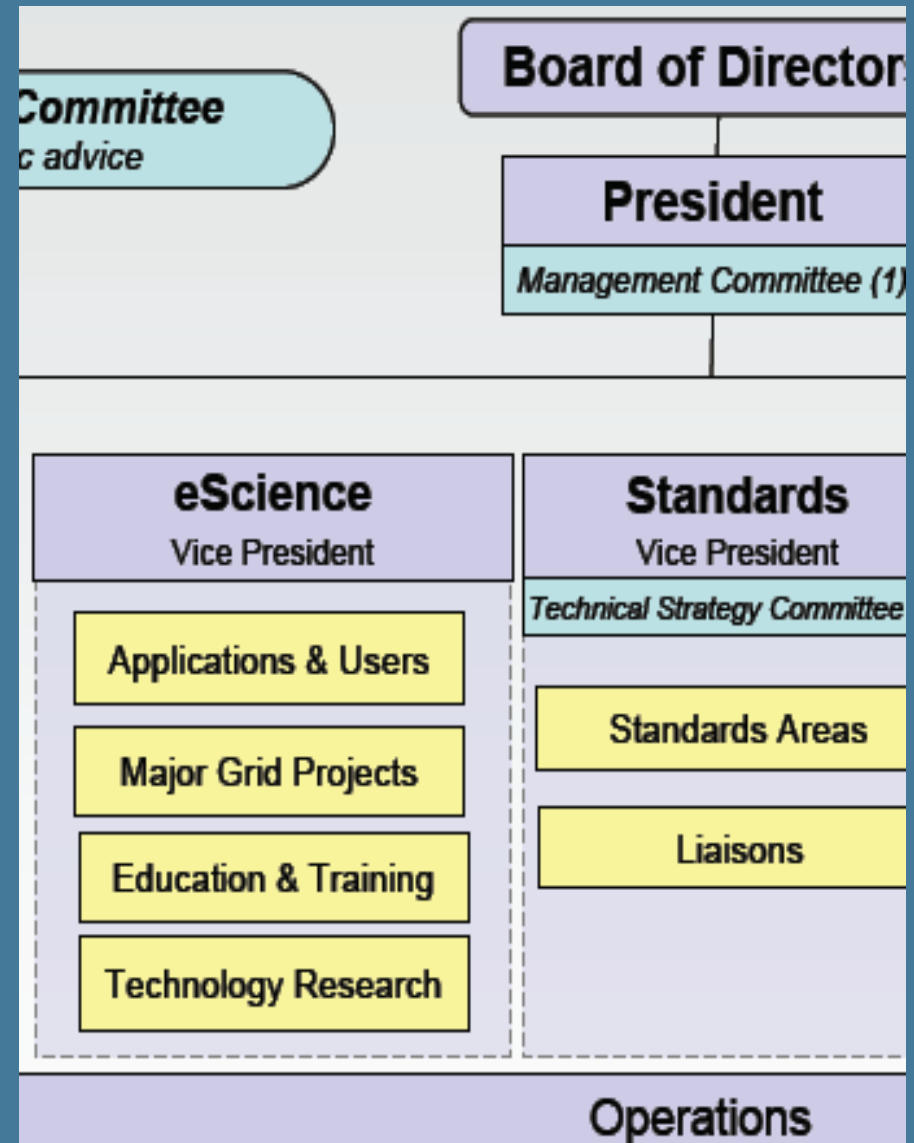
The e-IRG recommends that:

- investments in education and training should be made in order that the full potential of e-infrastructures may be realised for EU citizens;
- significant investment in education should be directed towards improving understanding as to how e-infrastructure may be exploited effectively;
- investment in training and education should be directed towards improving the ERA's capacity to develop, deploy and manage e-infrastructure and the applications that use e-Infrastructure;
- policies and standards for the coordination, collaborative support, interchange and mutual recognition of e-infrastructure should be developed across the ERA.



WP1 - Work done 3: GGF/OGF

- E&T in the charter of OGF
- E&T group proposed at OGF
- Charter submitted
 - Officers
 - David Fergusson, NeSC
 - Ann Redelfs, EPIC
 - Ruediger Berlich, KMZ
 - Kilian Schwarz, Darmstadt
 - Beth Plale, Indiana U.
 - Malcolm Atkinson, UK
 - Secretariat
 - Kathryn Cassidy, TCD
 - Themes
 - E&T Frameworks
 - E&T Synergy
 - E&T Content





WP2 – Materials Repository

- **Materials Repository –Digital Library –**
 - one service with two views
 - EGEE library – training materials
 - ICEAGE library – educational materials
 - wide range of material types
 - Article Book Journal
 - Course Module Presentation Tutorial
 - Exercise Assessment Exemplar
 - Video Audio
 - Event
 - Provide repository of re-usable materials
 - Provide e-learning support



WP2 – Registry

- **Registry**
 - events
 - iceage events with registration facilities
 - people
 - support finding experts
 - support event registration
 - record certification of
 - *event attendance*
 - *completion of (e-learning) assessment*
 - certifiable assessments
 - automated evaluation
- **Mutual Support Groups**
 - wikis
 - e.g. Group of MSc curriculum developers



WP3 – Work in Progress

- **Summer Schools 2006**
 - Fourth International Summer School in Grid Computing
 - Second Central European Grid School, Budapest
- **In preparation for 2006**
 - The CERN School of Computing, Helsinki
 - The GridKA Grid School, Karlsruhe
 - EELA School, Rio de Janeiro, Brazil?
- **In preparation for 2007**
 - Fifth International Summer School in Grid Computing, Near Stockholm
 - ICEAGE Summer School of Bio-Grid Computing
 - ICEAGE Summer School of Software Engineering for Grids
 - UK e-Science Summer School
- **Planned for 2008**
 - Sixth International Summer School in Grid Computing. Central or Eastern Europe



Summary

- **ICEAGE is a European Project**
 - Value €1.2 million, Duration 2 years
 - Started March 2006, 6 Partners
- **Mission**
 - To stimulate Grid Education in Universities
 - Global collaboration
 - All Disciplines
- **Methods**
 - Forums, Workshops and Lobbying
 - Summer Schools
 - Shared educational materials & support
 - Shared t-Infrastructure
- **We need your help**



Why get Involved?

- **Mission – to change the culture**
 - of society at large
 - e-research methods become essential part of higher education
 - of the grid world
 - availability of education
 - to complement training
- **Much harder than e.g.**
 - building a grid
 - making a grid application
- **Need all the help we can get**
- **If you agree with the mission**
 - do what you can
 - to help iceage
 - to help you



How can WE Help Iceage to Help US?

- **Contribute your Education Materials**
 - useful to others
 - opens up constructive comments by others -> improvement
- **Use and build on other peoples' Contributions**
 - more efficient use of your time
 - evolves the material
- **Contribute to discussion groups**
- **Inform us of -**
 - events / higher education course with grid content / ...
- **Use the services**
 - register education events
 - register regional experts
 - get learners to do certifications
- **.... Watch this space**

adds project credibility -> funding -> better services

