



**omii europe**  
open middleware infrastructure institute

## **Project Overview**

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# What is OMII-Europe?

- **EU funded FP6 project (RI)**
  - Starting May 2006, initial 2 year duration
  - 16 partners (8 European, 4 USA, 4 Chinese)
- **Open Middleware Infrastructure Institute for Europe**
  - Complimentary to existing national programmes (OMII-UK, NMI, C-OMEGA, OMII-China...)
- **Goal is to provide key software components for building e-infrastructures**
- **Project will demonstrate “proof of concept” with expectation for a follow-on project in FP7**

# What will OMII-Europe do?

- **Initial focus on providing common interfaces and integration of major Grid software infrastructures**
- **Common interoperable services:**
  - Database Access, Virtual Organisation Management, Portal, Accounting, Job Submission and Job Monitoring
  - Capability to add additional services
- **Infrastructure integration**
  - Initial EGEE/UNICORE/Globus **interoperability**
  - **Interoperable** security framework

# OMII-Europe guiding principles

- **Committed to standards process**
  - Implementing agreed open standards and working with standards process (GGF/Oasis)
- **Quality Assurance**
  - Published methodology and compliance test
  - All software components have public QA process and audit trail
  - Working with similar projects and organisations to agree policies
- **Impartiality**
  - OMII-Europe is “honest broker” providing impartial advice/information on e-infrastructures

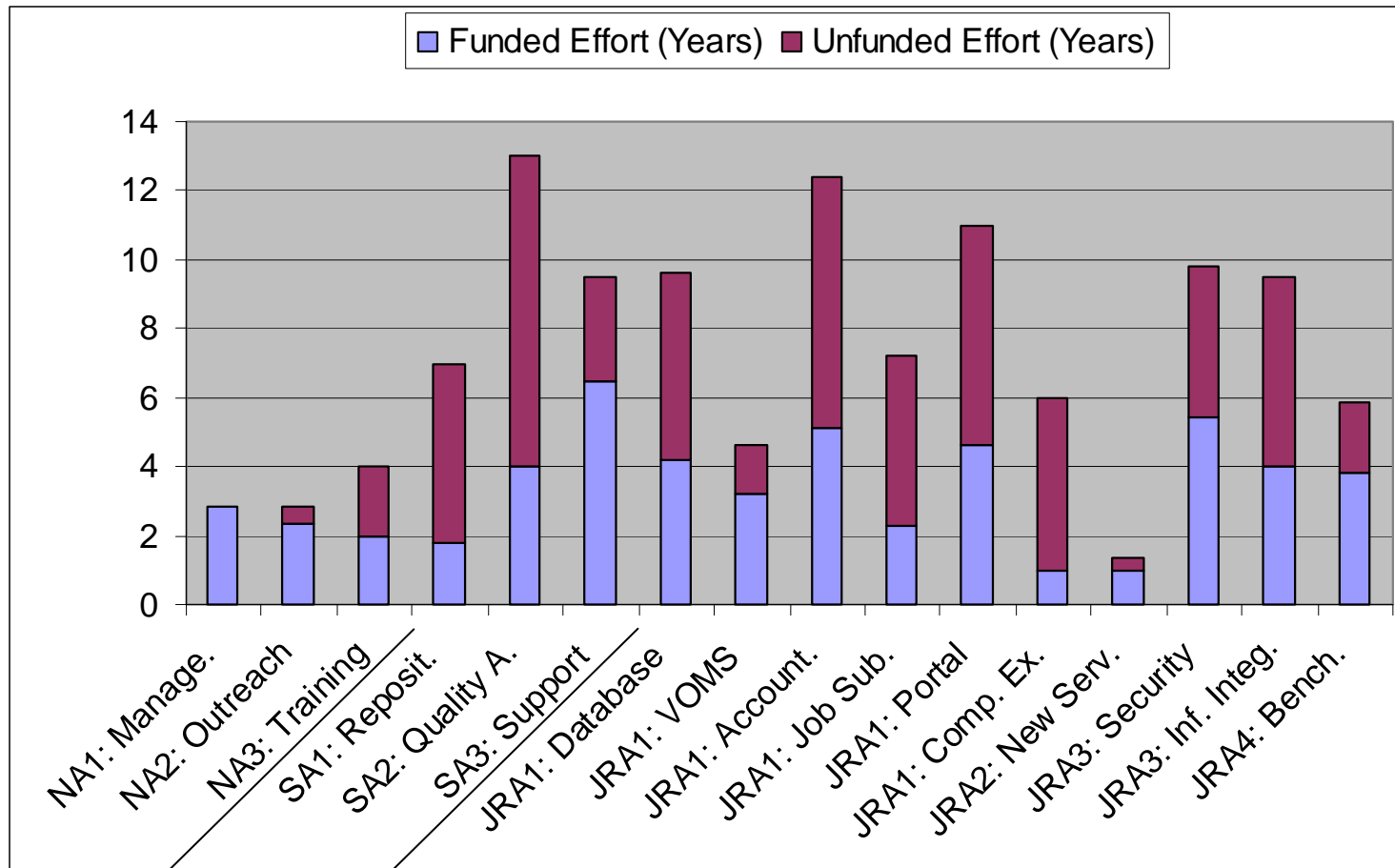
# What will OMII-Europe deliver?

- **Repository of open-source, quality assured software services for EGEE, Globus, UNICORE and CROWNgrid**
  - Some services bundled with major grid distributions
  - Initial integration work with EGEE, UNICORE and Globus
- **Public reports on grid infrastructures**
  - Initial benchmark results
  - Impartial advice and information
- **Evaluation infrastructure to “test” services**
  - User support and training for services

# Project Structure and Effort Allocation

- **Networking activities**
  - Management, Outreach, Training
  - 8% Person Effort, 20% requested Budget
- **Service Activities**
  - Repository, QA, Support
  - 25% Person Effort, 23% requested Budget
- **Joint Research Activities**
  - Re-engineering, new services, integration, benchmarking
  - 67% Person Effort, 57% requested Budget

# Effort (Person Years) per Activity



# OMII-Europe JRA1 re-engineering activities

	OGSA DAI	BES	VOMS	RUS	Grid Sphere	Etc. Identified Components
EGEE (GLite)			↓			
UNICORE	↑		↑			
Globus		↑		↑	↑	↑
Etc. OMII-UK, USA, China		↑		↑	↑	↑

# OMII-Europe Project Partners

**114 person years over 2 years, 5 million Euro, 4 major Grid infrastructures**

University of Southampton UK ( <b>coordinator</b> )	University of Chicago <b>USA</b>
Fujitsu Laboratories Europe <b>UK</b>	NCSA, University of Illinois <b>USA</b>
Forschungszentrum Juelich <b>Germany</b>	University of Southern California <b>Los Angeles USA</b>
Kungl Tekniska Högskolan <b>Sweden</b>	University of Wisconsin-Madison <b>USA</b>
Istituto Nazionale di Fisica Nucleare <b>Italy</b>	Beihang University <b>China</b>
Poznan Supercomputing & Networking Center <b>Poland</b>	China Institute of Computing Technology <b>Beijing China</b>
University of Edinburgh <b>UK</b>	Computer Network Information Centre <b>Beijing China</b>
CERN, European Organisation for Nuclear Research <b>Switzerland</b>	Tsinghua University <b>China</b>

## OMII-Europe Vision

To demonstrate that interoperable Grids can be built from standards-compliant Web Services and to deliver a set of quality-assured services, sourced from open source repositories, able to be used on the principal Grid infrastructures in use in Europe today.