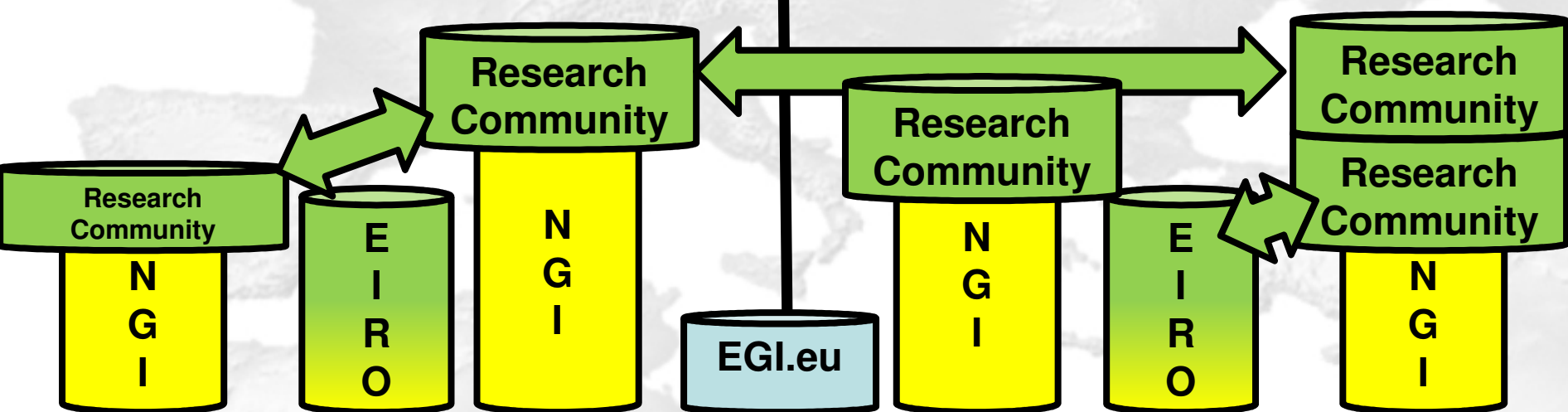


EGI: A European Distributed Computing Infrastructure

Steven Newhouse
Interim EGI.eu Director

The EGI Context

EGI Collaboration



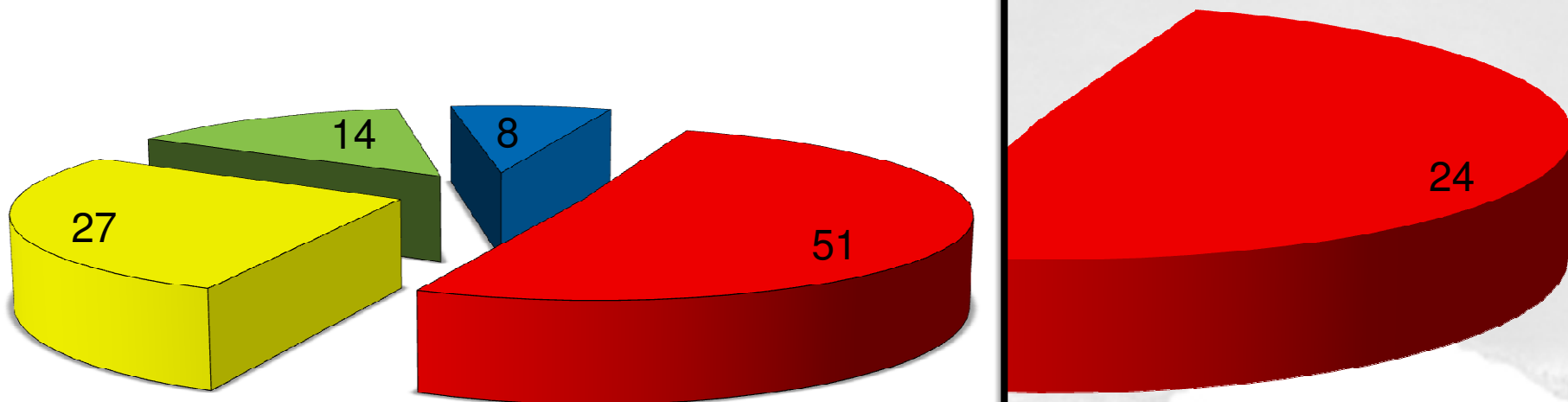
EGL.eu

- **Coordination for European HTC**
 - Policy & services needed to run a grid
- **Governance by its stakeholders**
 - EGL Council votes proportional to GDP
- **Owned by its stakeholders**
 - EGL Council fees proportional to votes
- **Location selected to be Amsterdam**
 - Distributed staffing model
 - Approximately 51 staff, 4.59M€/year

How much does it cost?

Annual Running Costs EGEE-III (M€)

% Staff Effort in EGEE-III



- Operations
- User Community
- Middleware
- Coordination

How to make e-Infrastructure sustainable?

- Minimise what you need to sustain!
 - Be a middleware customer, not a developer
 - Be a service provider, not a research organisation
 - Don't control resources, work with resource providers
- What does that leave for EGI.eu?
 - Services that do not fit nationally or in a community
 - Management & technical expertise for it all to work!
- Recognise that we are transitioning to this goal!
 - Process started in EGEE-III



DANGER
Proposal Under Construction

The EGI-InSPIRE Project

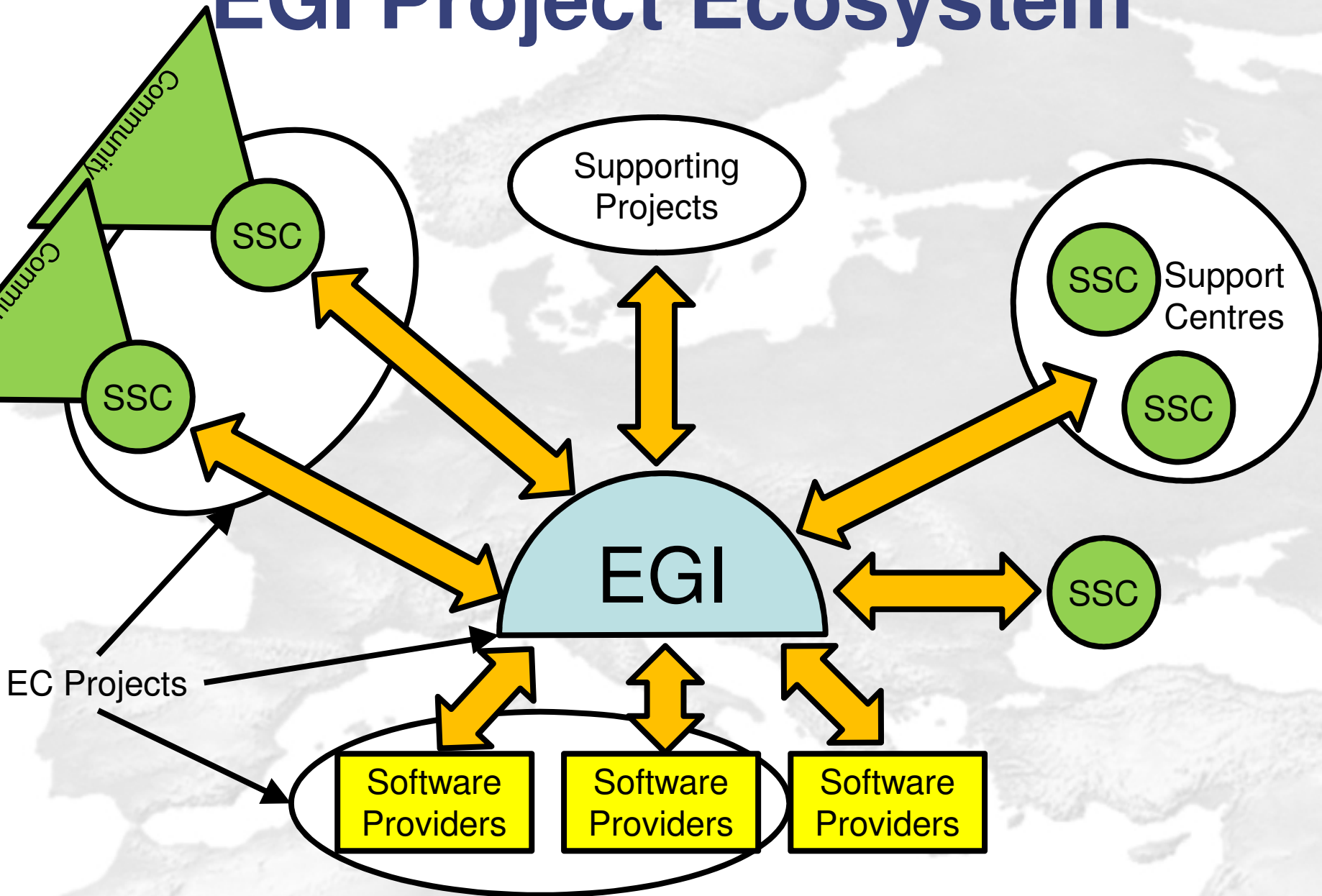
Integrated **S**ustainable **P**an-European
Infrastructure for **R**esearchers in **E**urope

- A proposal for an FP7 project
 - Work in progress..., i.e. this **may all** change!
- Targeting call objectives:
 - 1.2.1.1: European Grid Initiative
 - 1.2.1.2: Service deployment for heavy users
- Targeting a 3 year project
- Seeking a total 25M€ EC contribution

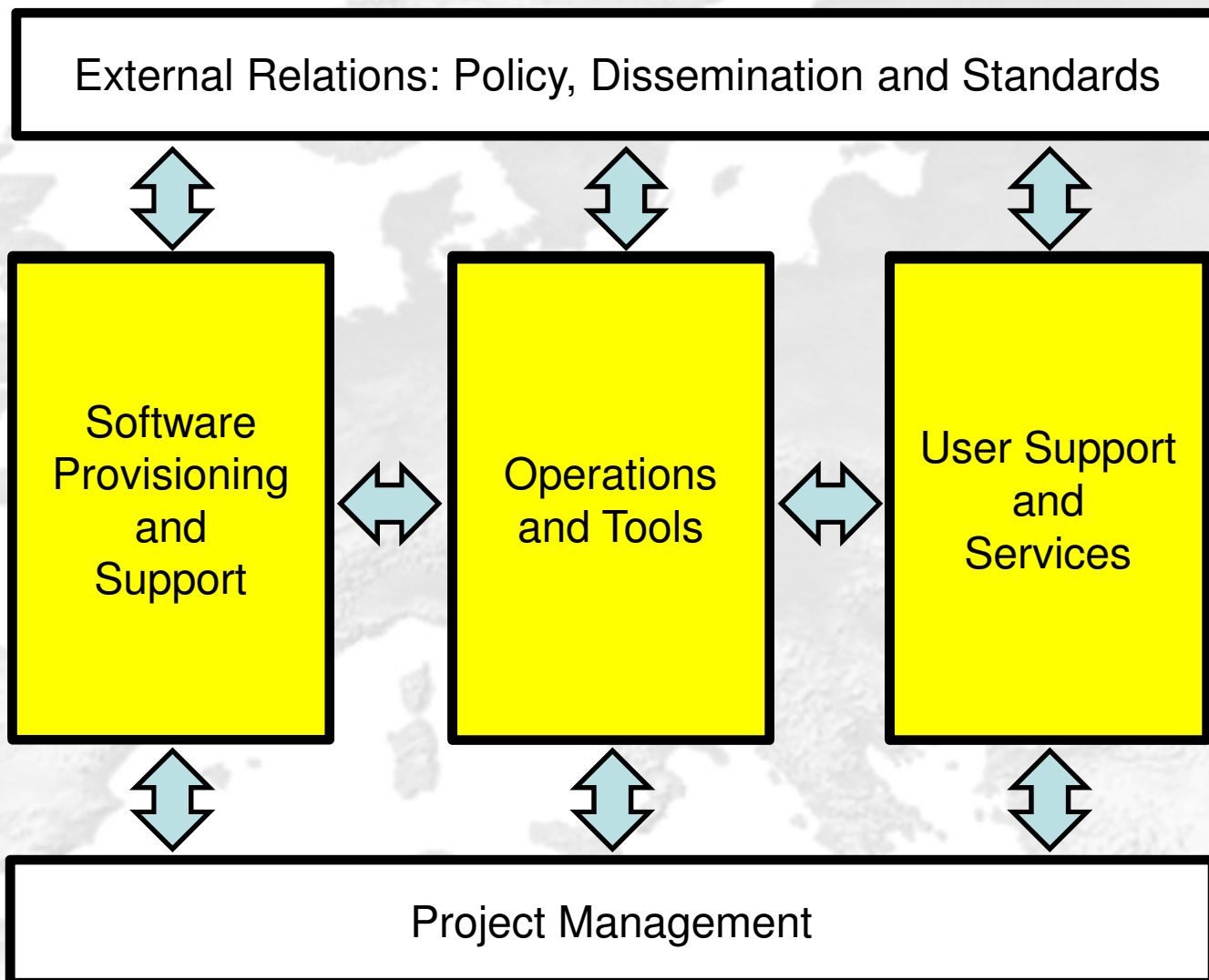
EGI-InSPIRE Objectives

- Transition to a sustainable federated European e-infrastructure built from national resources
- Deliver production quality services to all its user communities and users
- Provide a scalable user support model for international research communities within Europe and their worldwide collaborators
- Interoperation and interoperability with other e-infrastructures

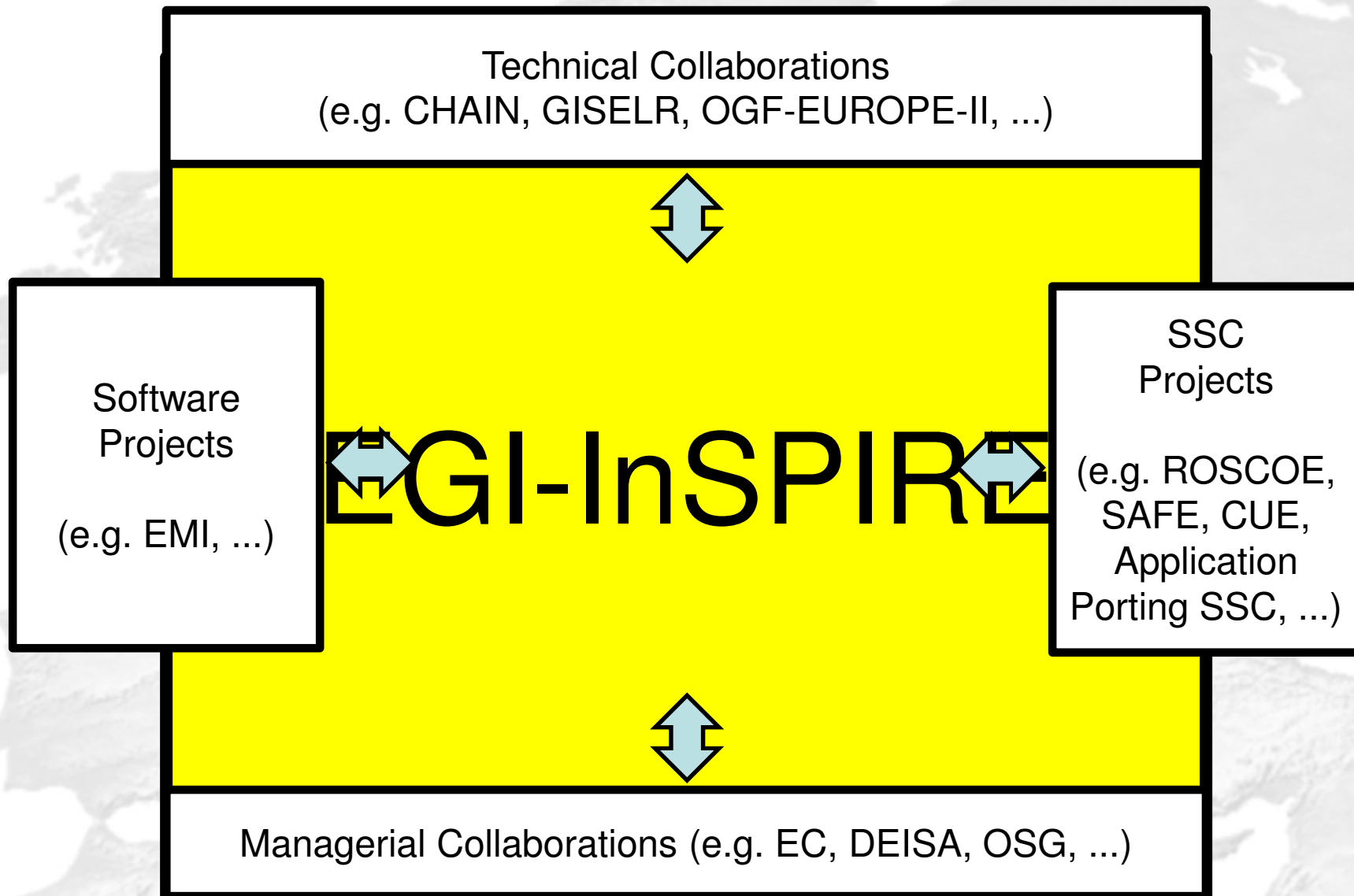
EGI Project Ecosystem



Project Structure



Project Structure



External Relations: Policy, Dissemination and Standards

- Dissemination internally & externally to EGI
- Development of EGI's sustainability model
- Co-ordinating EGI's standards activity
- EGI Policy development for governance, middleware, security, operations & user communities
- Two large annual events to promote collaboration within European DCI
 - In collaboration with PRACE/DEISA & others

User Community Coordination & Support

- Coordination of effective, responsive support for the EGI user communities (reactive)
- Coordination of training, documentation and technical requirements from the user communities (proactive)
- Technical services to:
 - Support the management and establishment of virtual organisations
 - Deployment and Support of services & tools to support Heavy User Communities (HUCs)

Operations

- Providing a Reliable Grid Infrastructure
- Availability of Skilled Support Teams
- Service Deployment Validation
- Providing a Secure Infrastructure
- Accounting for Resource Usage
- Helpdesk Infrastructure
- Infrastructure for Grid Management
- Regionalisation of the Operational Tools

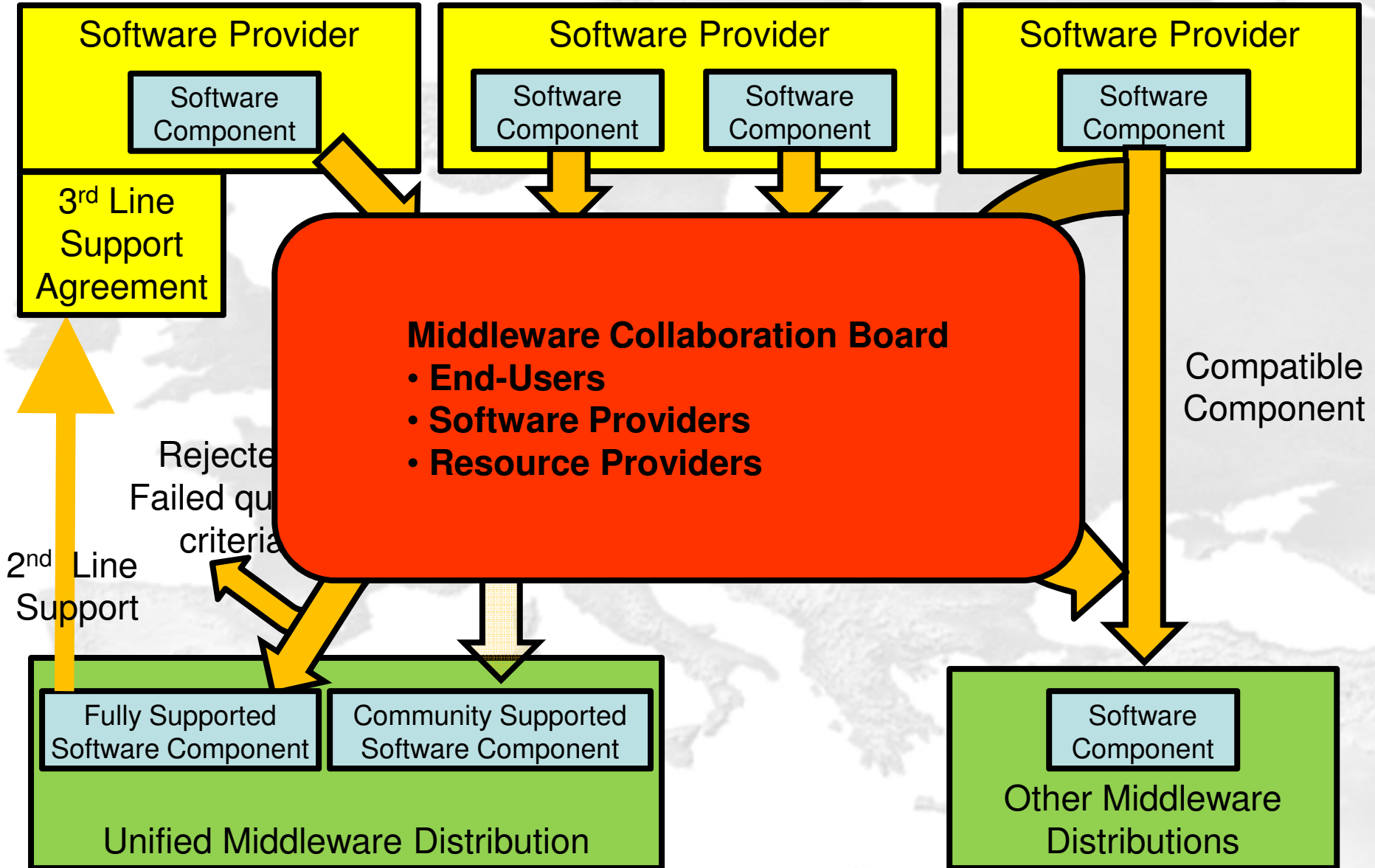
Who does what in EGI?

- **Internal National Infrastructure & Activities**
 - Infrastructure that is not visible internationally
 - Activities with no external dependency
- **NGI International Tasks**
 - The ‘service’ interface to your national grid
 - Community defined that EGI will enforce
- **EGI Global Tasks**
 - Provided by EGI.eu through community partners
 - Services needed for the whole EGI community

EGI Software Infrastructure

- Recall some design facts:
 - EGI federation of national grid activities
 - EGI is not developing middleware
 - EGI does not control the resources its users use
- As a consequence:
 - EGI will need to integrate different middleware
 - EGI needs to identify interoperable solutions
- EGI must work with multiple software providers and deployments to achieve its goals

EGI Software Infrastructure



Software Infrastructure Provision

- Define and maintain the UMD roadmap and the relationship with the software providers
- Define the quality criteria that will be applied to all and specific software components and verify they are achieved
- Provide a repository for the software components within UMD and the related support tools and structures
- Second line support for deployed software

EGI @ EGEE'09

- **Tuesday:**
 - 11am: EGI InSPIRE Workshop
 - 2.30pm: EGI Governance models
 - 7pm: EGI Gateways Project
- **Wednesday:**
 - 9am: SSC Project Plenary
 - 2.30pm: Heavy User Communities (in HEP SSC Session)
- **Thursday:**
 - 9am: EMI Project Plenary
 - 11am & 2.30pm: EMI & UMD Workshop
- **Friday:**
 - 8.30am: SSC Projects Workshop

EGI Timeline

- 30/9/09: Feedback from current draft & EGEE'09 due
- 16/10/09: Deadline for submitting requests for Letter of Support
 - Process being finalised this week
- 23/10/09: EGI Council meeting
 - Letters of support approved
- 24/11/09: Final proposal submission
- Spring 2010: Launch of EGI.eu
- May 1st 2010: EGI project starts

Summary

- EGI is a collaboration for HTC in Europe
 - Provide a sustainable European e-Infrastructure
 - Strengthen support for HPC user communities
- EGI.eu is the coordinating organisation
 - Being established in Amsterdam
 - Launch Spring 2010
- 3yr FP7 Project being prepared for 25M€
 - Continue and complete the transition to EGI