EGI Operations

Tiziana Ferrari

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Enabling Grids for E-sciencE

- **Objectives**

- **SA1: Operations**

- **JRA1: Operational tools**

- **Managerial structure and boards**

- **Conclusions**

- Continued operation and expansion of todays' production infrastructure

- "Set up an organisation that will enable the **sustainable provision of grid services** to the European scientific community" →

  - **EGI global operations services**
  - **NGI/EIRO operations services**

- "The EGI should ensure a seamless and **progressive transition in service provision** from the current arrangements to a new scheme that is more sustainable organisationally and financially" →

  - **Extension of accounting to support different business models**

- "The EGI should promote close collaboration and **interoperability with similar infrastructures** in other parts of the world." →

  - **Extension of operational procedures and policies**
  - **Enhancement of monitoring and accounting tools**

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SA1: Operations

- NGI International Tasks
- EGI Global Tasks

JRA1: Operational Tools

- Maintenance of the currently deployed operational tools.
- Development of the operational toolset for further automation and national deployment scenarios.
- Regionalization of tools
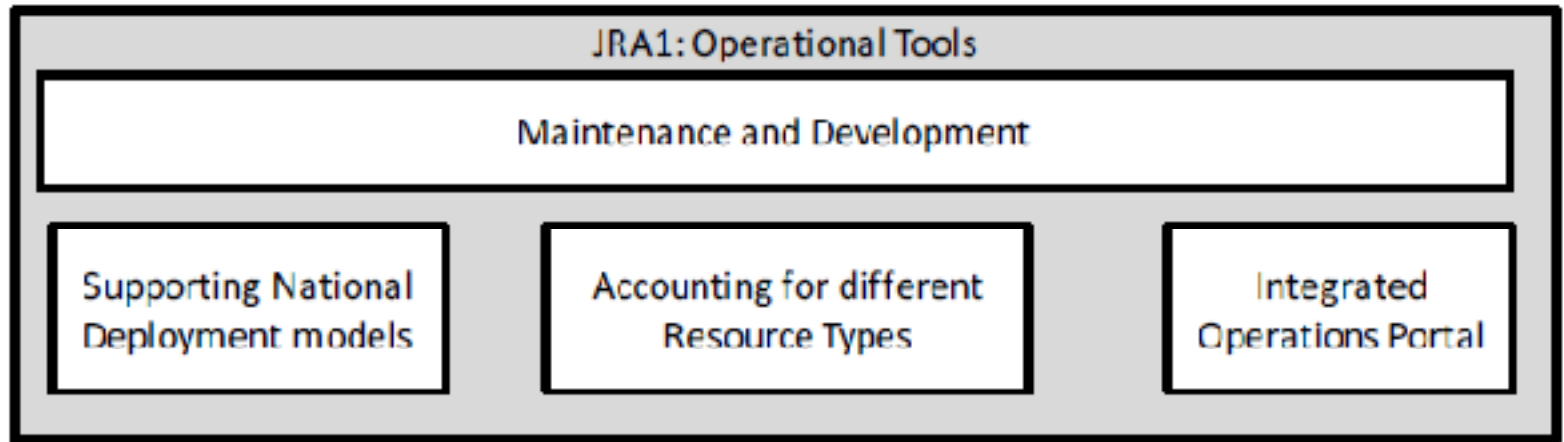- Support of new service charging models once defined

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Enabling Grids for E-sciencE

Objectives

- **Operation of a secure, reliable European-wide production grid infrastructure federated from national grid initiatives and EIROs (European International Research Organizations), that is integrated and interoperates with other grids worldwide. It will:**

- **Provide users with a secure infrastructure through the establishment of the operational security teams**

- **Validate new releases of the middleware and operational tools through a coordinated staged roll-out to sites**

- **Establish the monitoring services needed to manage the production grid infrastructure**

- **Provide a central accounting infrastructure**

- **Operate the EGI Helpdesk, integrated with national instances, to provide support to users and Grid operators**

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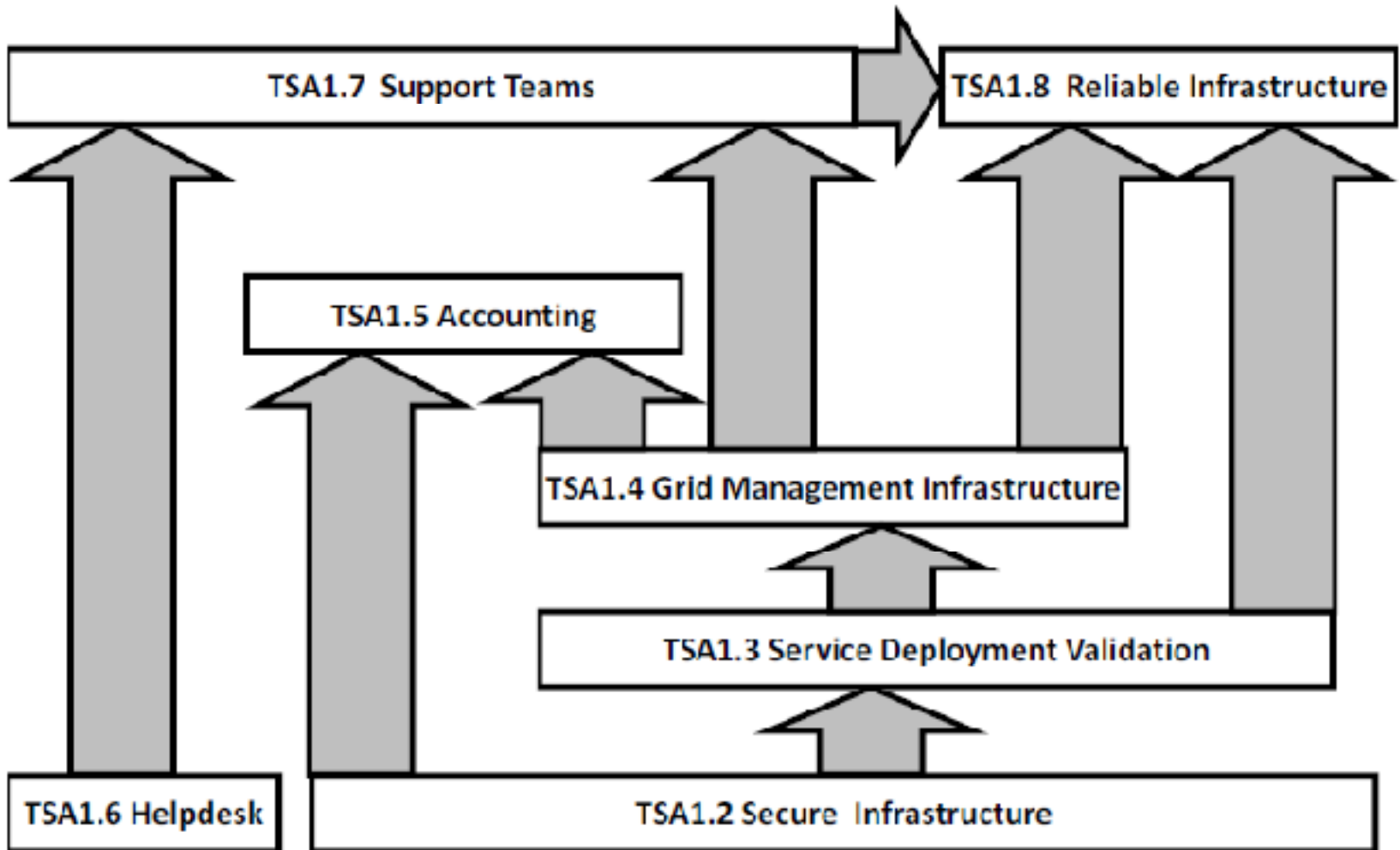
Objectives: evolution of the operational tools used by the production infrastructure, including:

- **ongoing maintenance and further development of the deployed operational tools**

- **development of the operational tools to support a national deployment model (tool regionalisation)**

- **Accounting for the use of different resources within the production infrastructure**

- **Providing an integrated operations portal for the staff running the production infrastructure**

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│                  JRA1: Operational Tools                      │
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│  │           Maintenance and Development                    │ │
│  └─────────────────────────────────────────────────────────┘ │
│  ┌──────────────┐  ┌──────────────────┐  ┌─────────────────┐  │
│  │ Supporting   │  │ Accounting for   │  │  Integrated     │  │
│  │ National     │  │ different        │  │  Operations     │  │
│  │ Deployment   │  │ Resource Types   │  │  Portal         │  │
│  │ models       │  │                  │  │                 │  │
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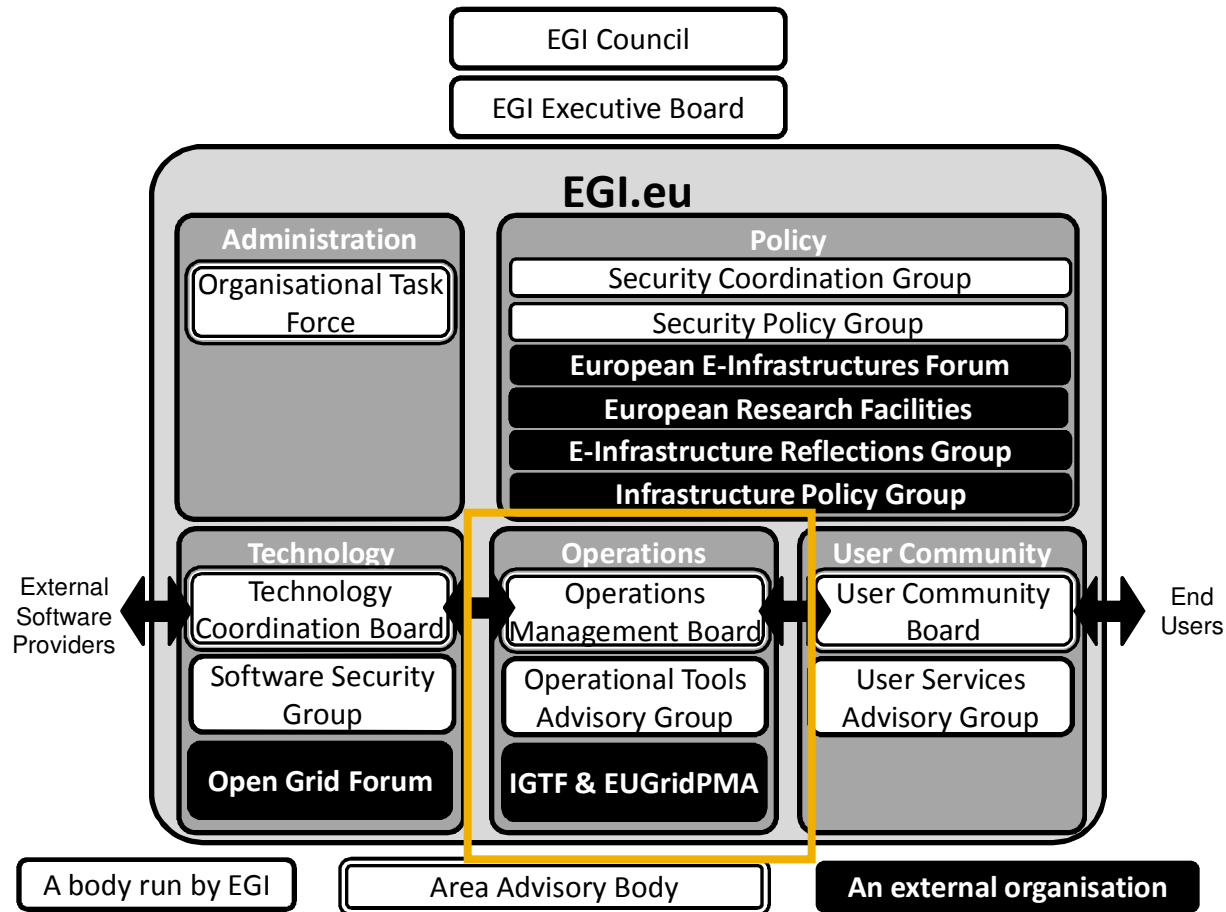
- **Partners**
  - CERN, CNRS (France), CSIC (Spain), GRNET (Greece), INFN (Italy), KIT (Germany), SRCE (Croatia), STFC (UK)

- **Tools**
  - Operations portal, helpdesk (GGUS), configuration repository (GOCDB), accounting repository and portal, Nagios-based monitoring infrastructure

Enabling Grids for E-sciencE

EGI Council

EGI Executive Board

EGI.eu

Administration

Organisational Task Force

Policy

Security Coordination Group

Security Policy Group

European E-Infrastructures Forum

European Research Facilities

E-Infrastructure Reflections Group

Infrastructure Policy Group

Technology

Technology Coordination Board

Software Security Group

Open Grid Forum

Operations

Operations Management Board

Operational Tools Advisory Group

IGTF & EUGridPMA

User Community

User Community Board

User Services Advisory Group

External Software Providers

End Users

A body run by EGI

Area Advisory Body

An external organisation

Operations Management Board (OMB) **for the policies needed to provide a reliable transparent infrastructure composed of multiple national infrastructure providers.**

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- **Security Policy Group (SPG)** development and maintenance of security policies that define the expected behaviour of sites and users to ensure a secure distributed computing infrastructure (NGIs, sites, application communities)

- **Software Security Group (SSG)** has representatives from the software providers contributing software to EGI in order to ensure a common coherent approach to the security frameworks.

- **Security Coordination Group (SCG)** coordination between the NGI operational security groups, the software security groups, the security policy activities both inside EGI and in other infrastructures and projects

- **User Services Advisory Group (USAG)** has representatives from the user communities to feedback to the EGI.eu on the user facing operations tools and support processes.

- **Operational Tools Advisory Group (OTAG)** has representatives from the NGI/EIRO Operations Centres and provides feedback on the operational tools and how they need to be adapted in response to EGI's requirements.

Enabling Grids for E-sciencE

- **EGEE well established procedures, models, policies and tools are the fundation of EGI operations**

- **EGI-InSPIRE aims to further extending this framework through innovation to face the many challenges ahead:**
  - **EGEE-III to EGI-InSPIRE transition**
  - **Integration of nascent NGIs and new EIROs**
    - **New requirements**
    - **Revision and streamlining of existing procedures to ensure scalability**
    - **Flexible Operational Level Agreements**
  - **Integration of NGIs deploying different middleware stacks**
    - **Ensure interoperation and adapt according to the middleware harmonization efforts supported by the European Commission (EMI)**
  - **Integration with new DCIs**
    - **Extensions of existing procedures and of the monitoring and accounting frameworks**

Thanks EGEE, welcome EGI-InSPIRE!