Hosting and Service Provisioning

Concept and Status

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EUDAT Operations

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SEVENTH FRAMEWORK
PROGRAMME

EUDAT

Topics

- Introduction
- Operations
- Service Provisioning
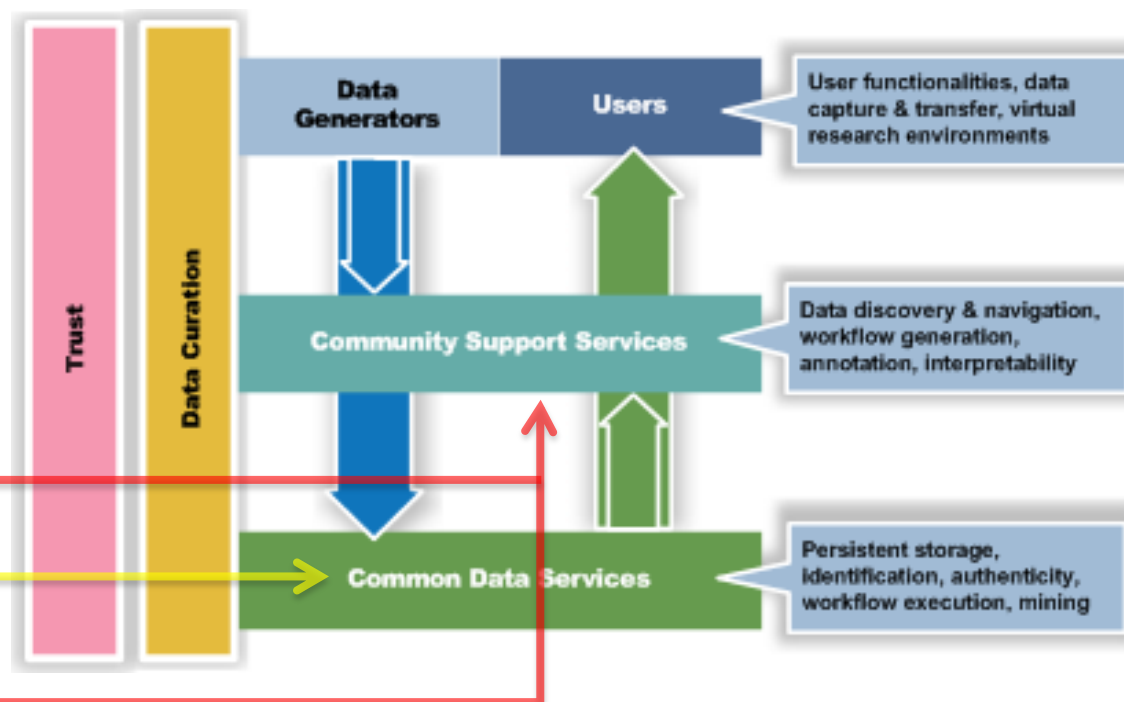- Service Hosting

EUDAT

Services of the EUDAT CDI

Fundamental Core Services
- Researcher's data store
- Long-term preservation
- Persistent identifier service
- User workspaces
- Web and workflow services

- Federated AAI
- Network
- Monitoring

Extended Core Services (community)
- Joint meta data service
- Joint data mining service

Service delivery

1. Community requirements analysis
2. Service and service infrastructure building
3. Deployment and operation

- Production services are delivered after approval

- Some internal and community services with existing building blocks are provided on demand

- Status: ready for hosting community services
  Initial requests from CLARIN for hosting workflow service

EUDAT

# Hosting, Provisioning – what does it mean?

Service Provisioning

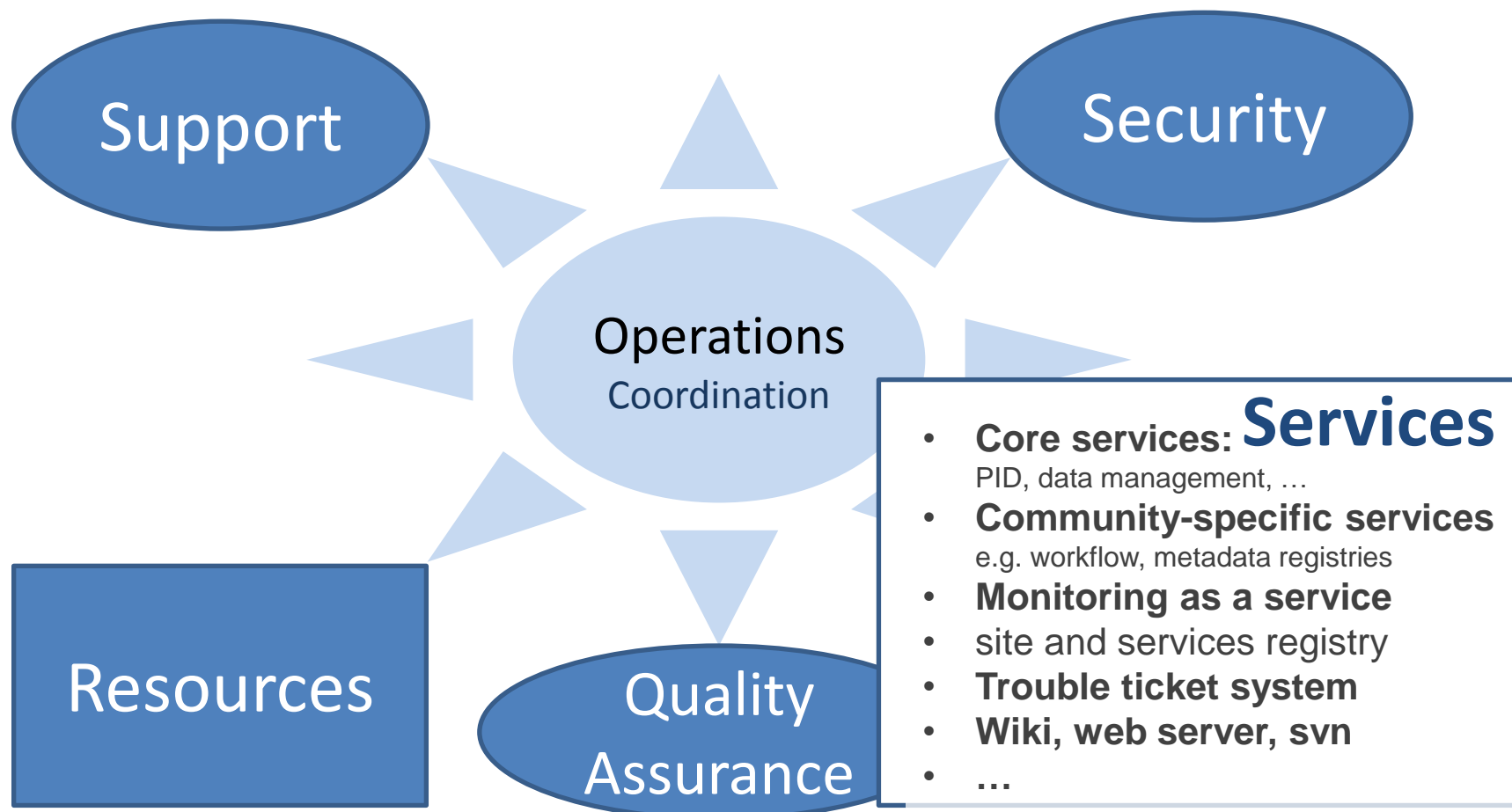EUDAT as an infrastructure is making services available in a coordinated way.

Service Hosting

Resources are provided on which services are deployed, integrated and run as components of a service infrastructure .
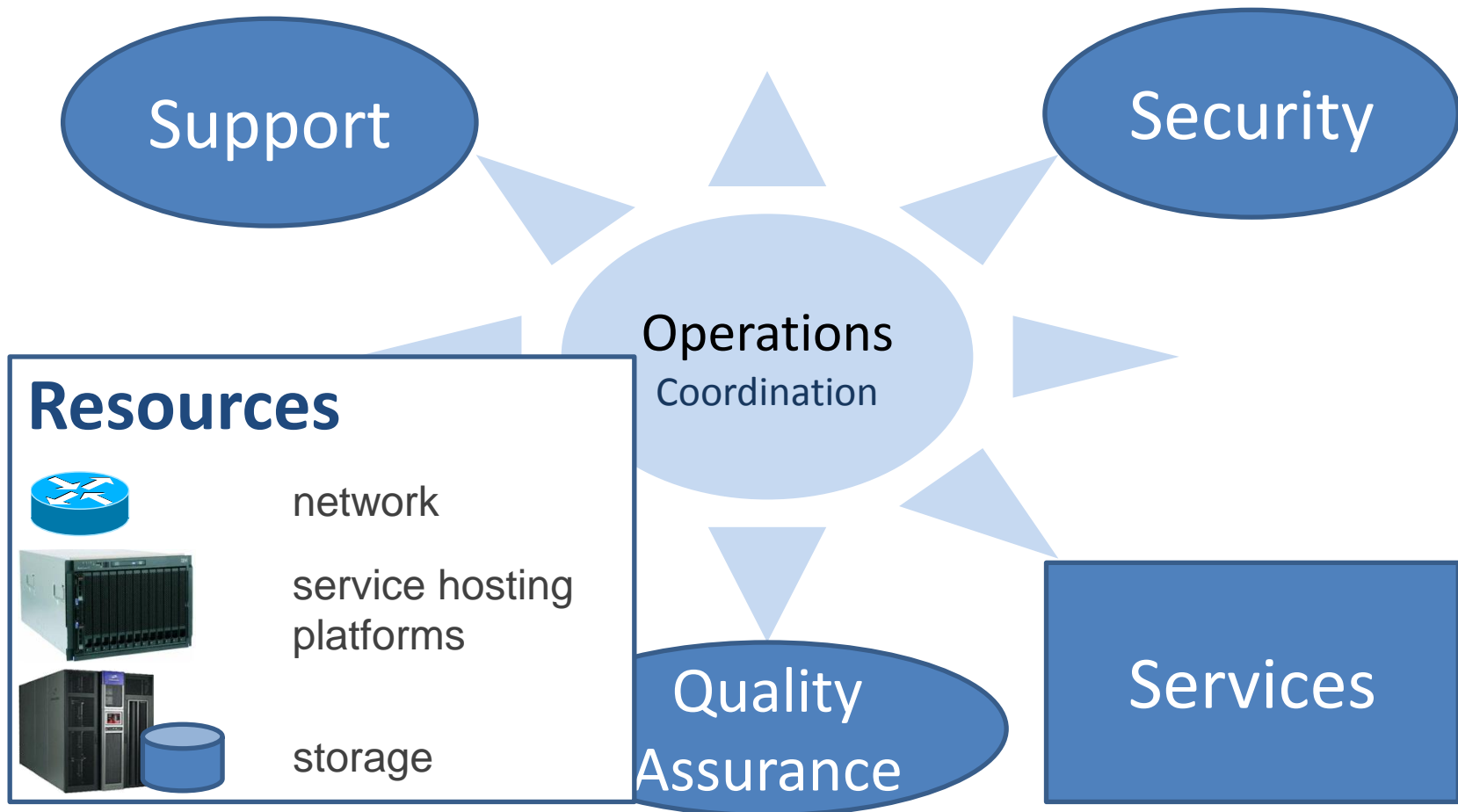
Organisation of EUDAT Operations

Support

Security

Operations

Resources

Quality Assurance

Services

EUDAT
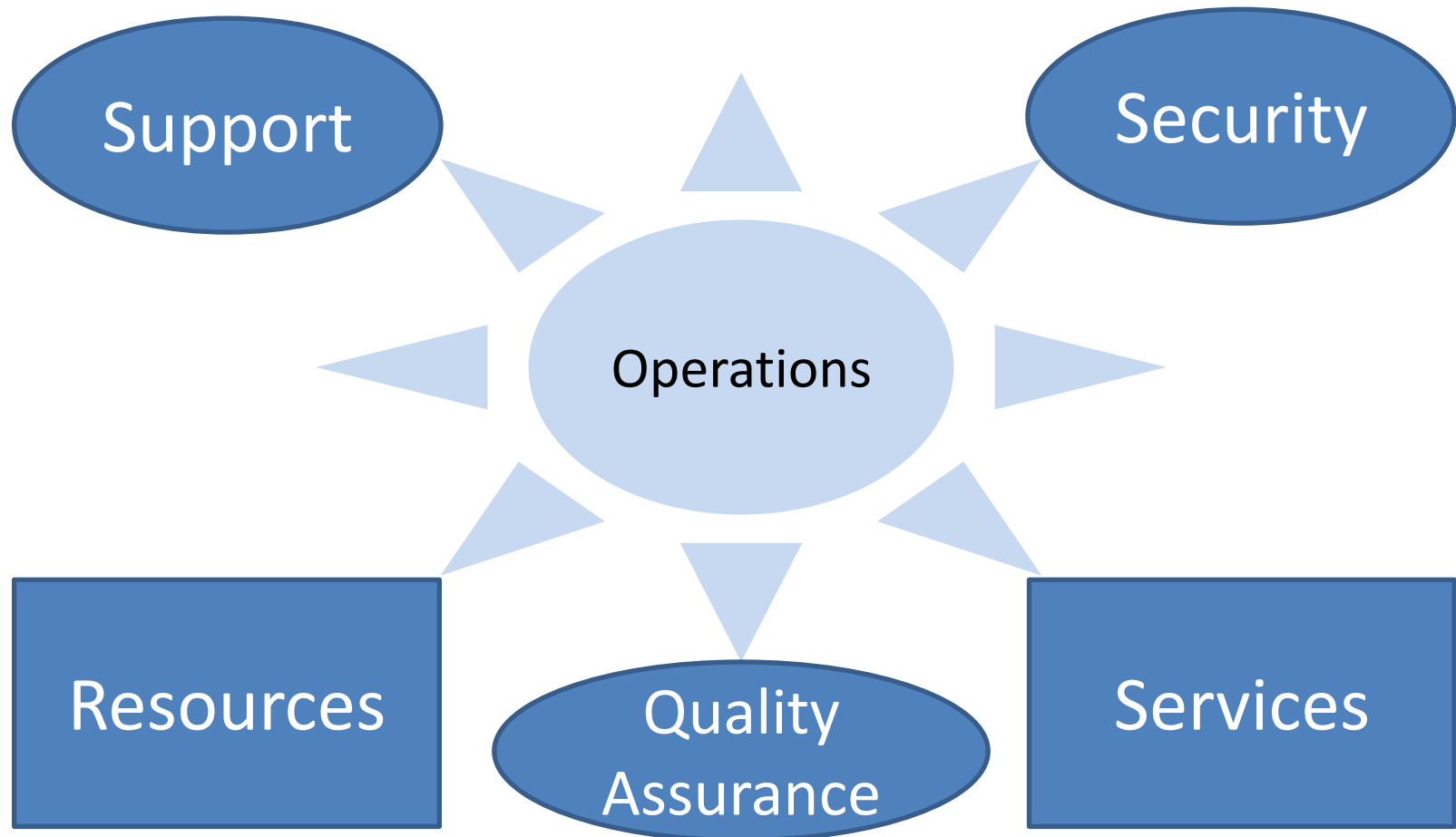
Coordinated Service Provisioning

Support

Security

Operations
Coordination

Resources

Quality Assurance

Services

- **Core services:** PID, data management, …
- **Community-specific services** e.g. workflow, metadata registries
- **Monitoring as a service**
- site and services registry
- **Trouble ticket system**
- **Wiki, web server, svn**
- **…**

EUDAT

Coordinated Resource Provisioning

Support

Security

Operations
Coordination

Resources

network

service hosting platforms

storage

Quality Assurance

Services

Coordinated Support

Support

- community support
- internal support, issue tracking
- user documentation
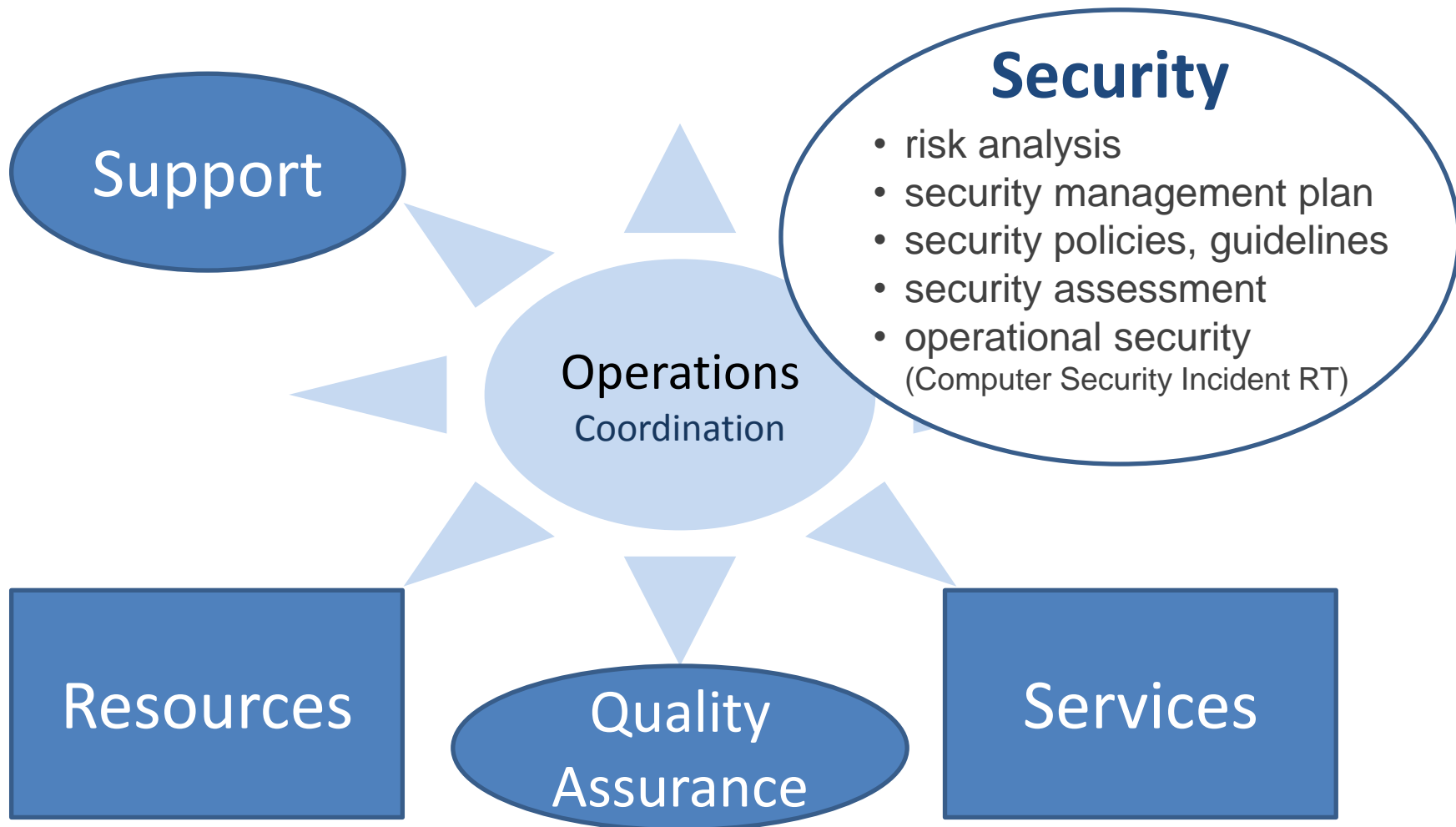- data centres integration support
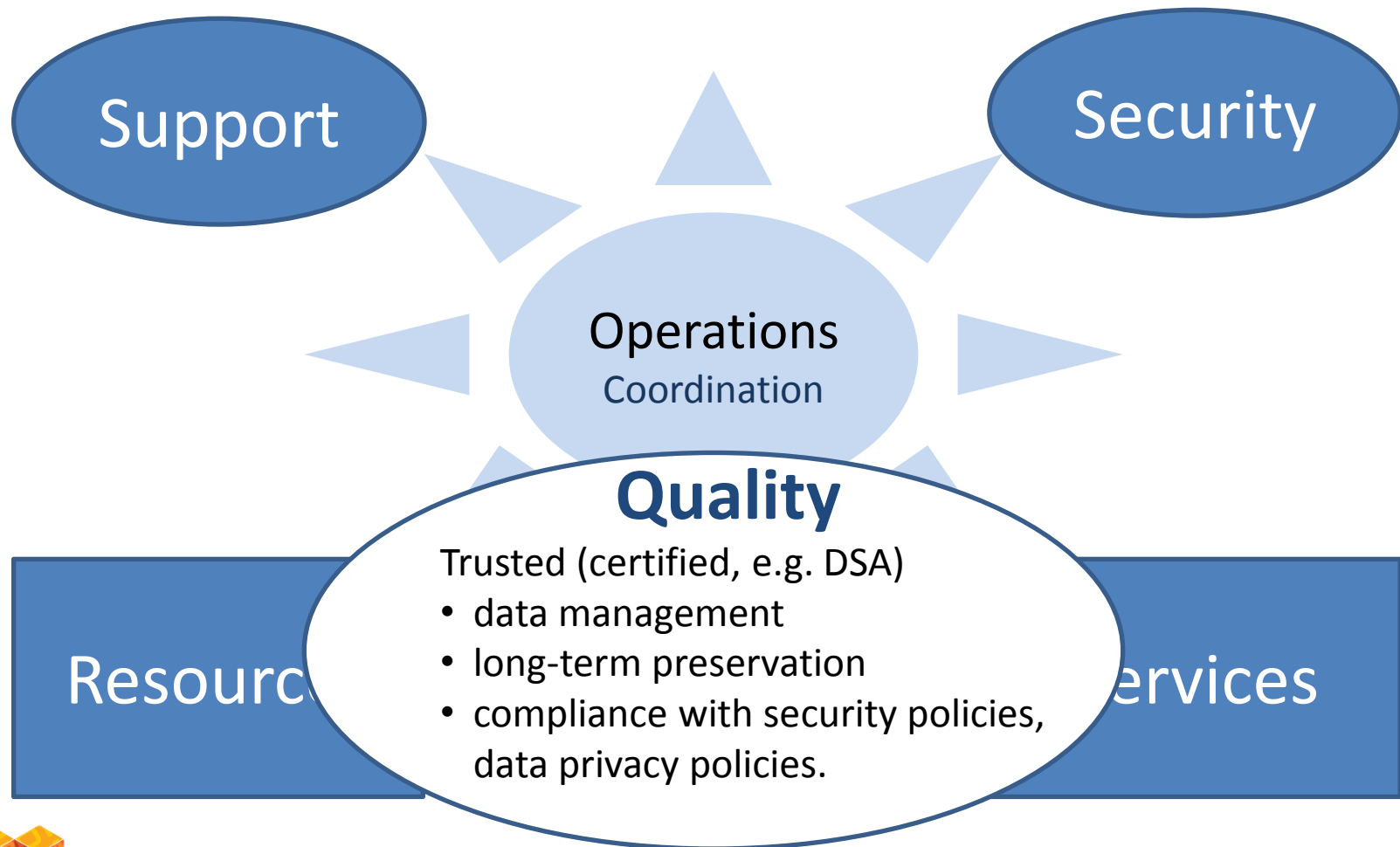
Security

Operations
Coordination

Resources

Quality
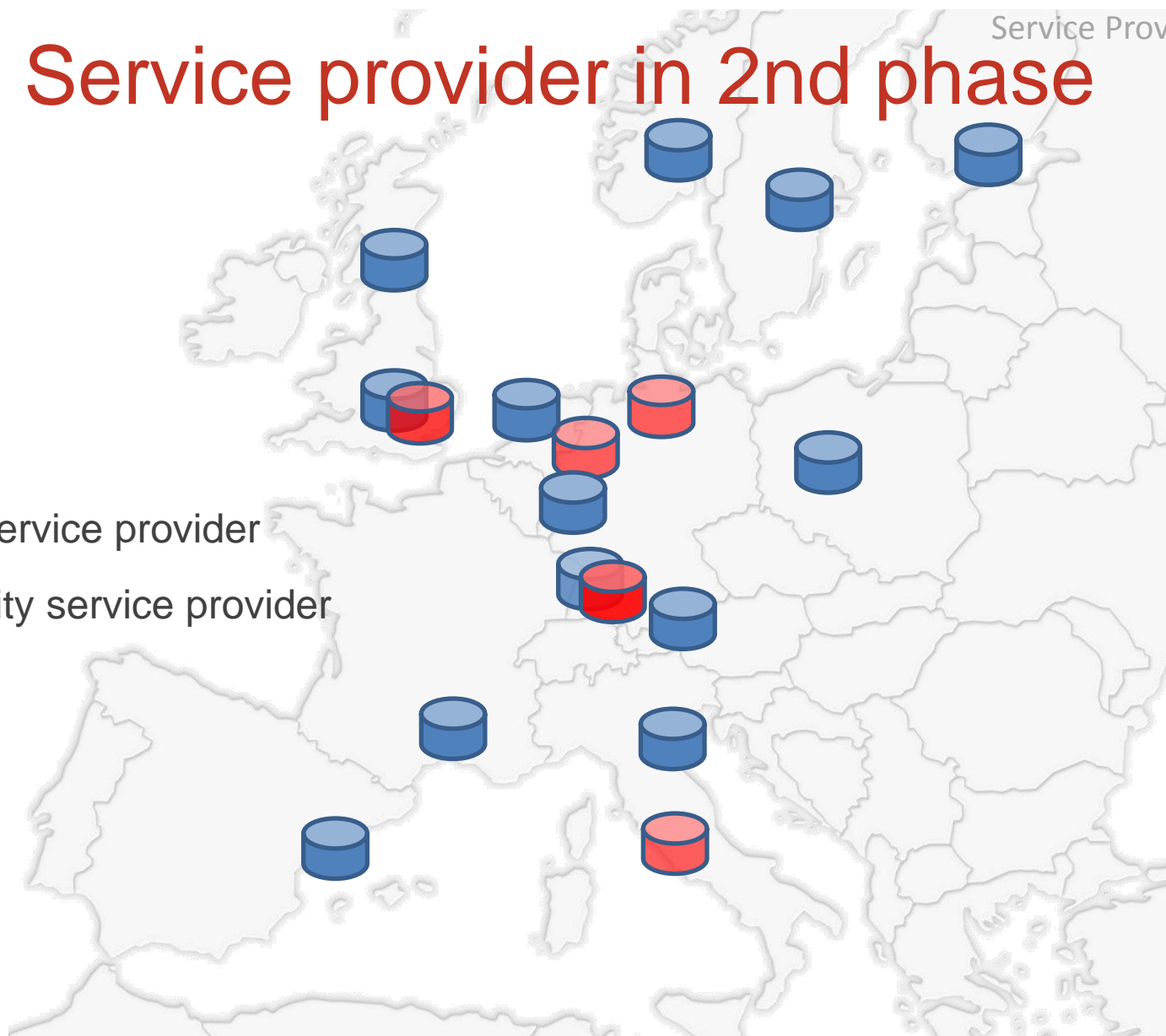Assurance

Services

EUDAT

Coordinated Security

Support

Operations
Coordination

Security

- risk analysis
- security management plan
- security policies, guidelines
- security assessment
- operational security
(Computer Security Incident RT)

Resources

Quality Assurance

Services

EUDAT

Coordinated Quality Assurance

Support

Security

Operations
Coordination

Quality

Trusted (certified, e.g. DSA)

- data management
- long-term preservation
- compliance with security policies, data privacy policies.

Resourc... ...ervices

EUDAT

Coordinated Operation

Support

Security

Operations

- Operations Team
  EUDAT centre and community deputies
- administration of site registry
- config./change management
- problem solving, escalation
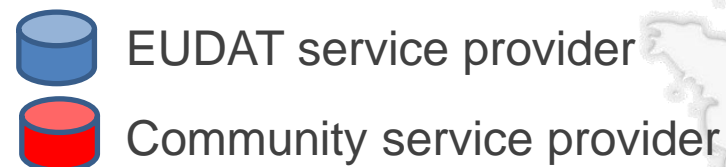
Resources

Quality Assurance

Services

EUDAT

Operational approach (summary)

- Coordinated provisioning of network, storage, and compute **Resources**

- Coordinated provisioning of **Services** on top of these resources, including a registry for all the services deployed and operated and service status monitoring

- Coordination of **Operations** via EUDAT teams, integration support for (new) resource/service providers, issue tracking, change management, user support with interfaces to community support teams

- **Coordinated security and quality management** CSIRT, security and quality management, certification of repositories and centres (Data Seal of Approval)

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Service provider during a startup phase

Service provider deploy and operate services on local or remote resources

VPH

ENES

CLARIN

EPOS

EUDAT service provider

Community service provider

EUDAT

18 Service provider in 2nd phase

EUDAT service provider

Community service provider

EUDAT Service provider
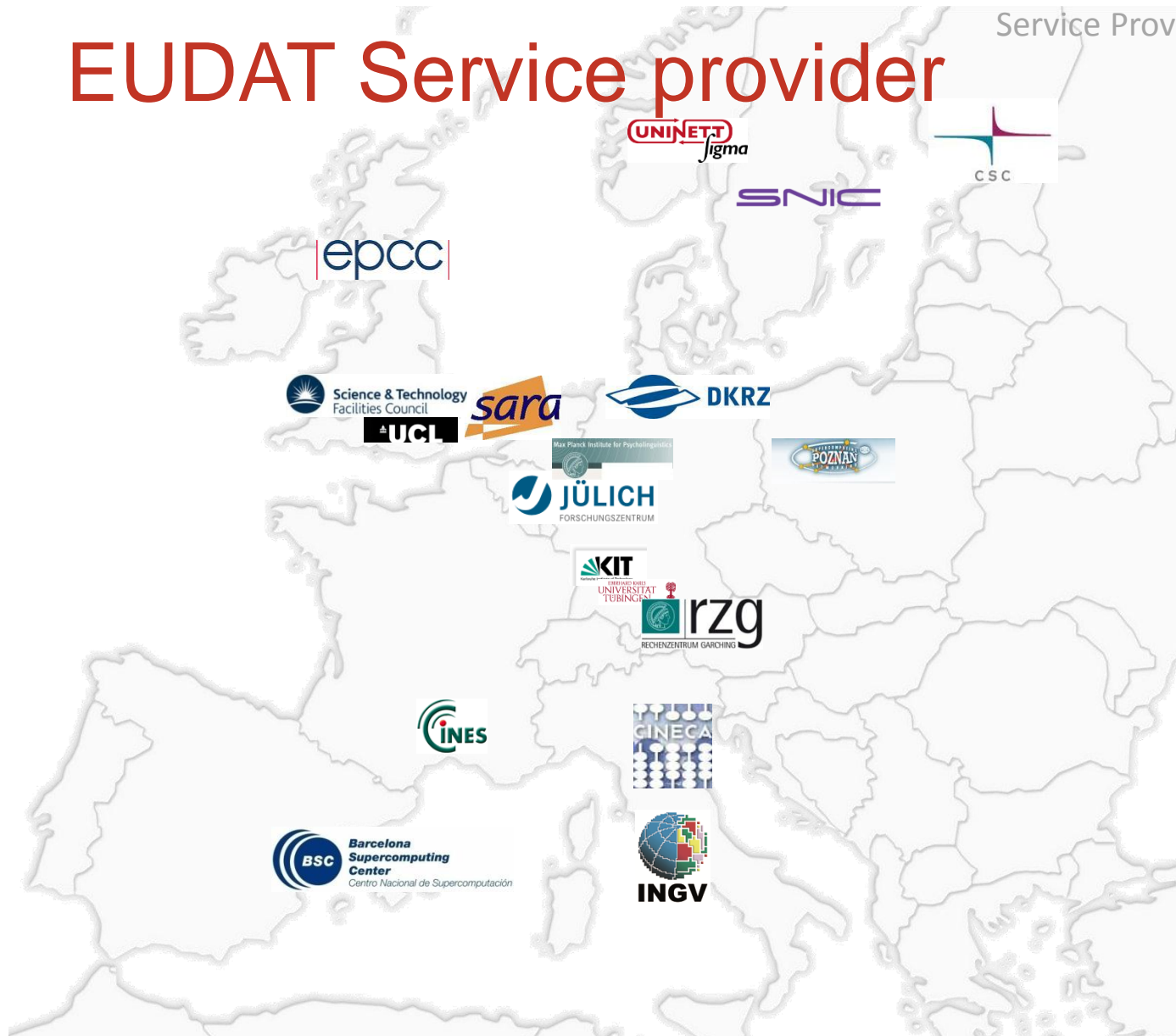
Service hosting framework (SHF)

Status March 2012

First **centers** are providing resources in a coordinated way. There is a **procedure for requesting resources**.

Resources are provided for
- **services test environment**
- **hosting community** services
- **providing core** services

Community services can be hosted on EUDAT resources.
There is a procedure in place that allows remote service integrators to request specific resources on EUDAT sites, deploy and run community services there.

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Utilisation of the SHF - status 03/2012

Collaboration services

Operational services

Community services

EUDAT core services

Wiki, JIRA, SVN, list server

EPIC PID service (in prep.)

CLARIN workflow service (in prep.)

site registry (in prep.)
central monitoring service
CLARIN workflow service (prep.)

Trouble ticket system

EUDAT webserver

EUDAT