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## EGI-ACE Security Coordination

*EGI CSIRT meeting (7Jul21)*

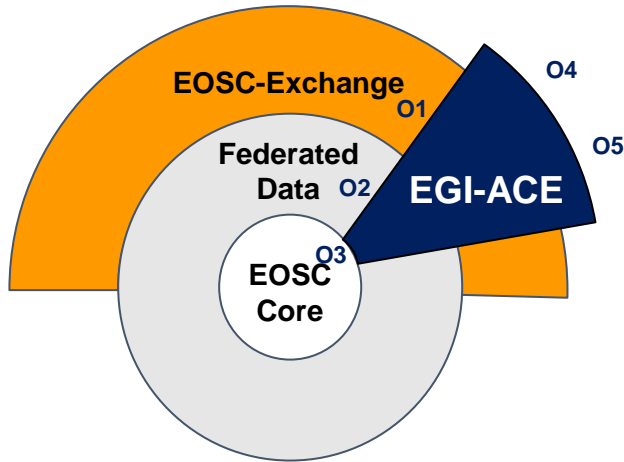
*David Kelsey (UKRI/STFC)*



**The work of the EGI Foundation**  
is partly funded by the European Commission  
under H2020 Framework Programme

Implement the **Compute Platform of the European Open Science Cloud** and contribute to the **EOSC Data Commons** by delivering integrated computing, platforms, data spaces and tools as an integrated solution that is **aligned with major European cloud federation projects and HPC initiatives.**

# EGI-ACE specific objectives



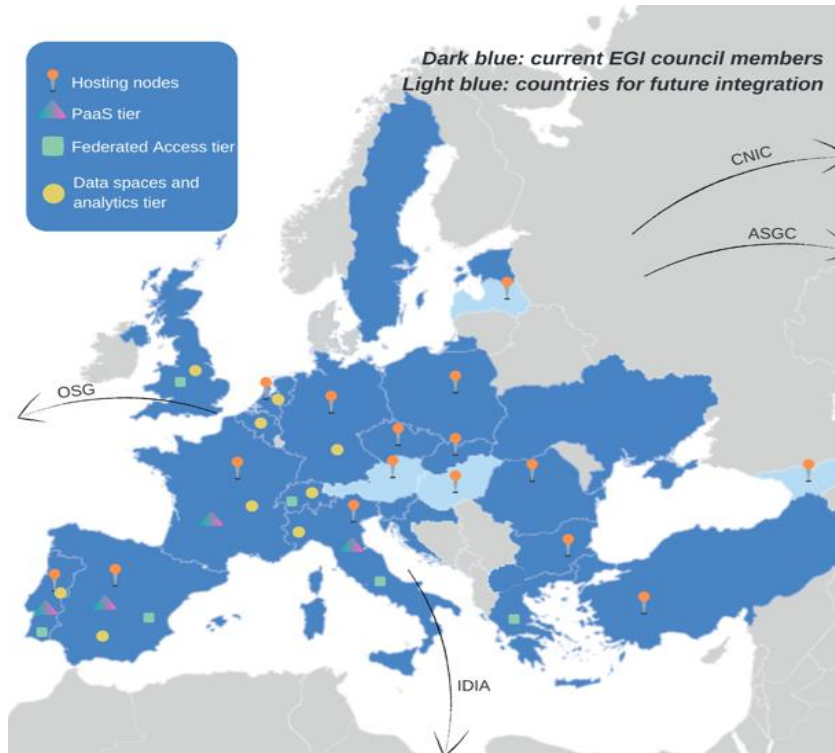
**Objective 1: Deliver the European Open Science Cloud Compute Platform and expand the supply-side**

**Objective 2: Contribute to the implementation of the EU Data Strategy and the EOSC Data Commons to support the Green Deal, Health and Fundamental Research**

**Objective 3: Integrate the EOSC Compute Platform with the EOSC Portal and the EOSC Core**

**Objective 4: Contribute to the realization of a global Open Science Cloud**

**Objective 5: Expand the demand-side of EOSC across sectors and disciplines**



- EGI Foundation as coordinator
  - 33 participating partners, 23 third-parties
- Consortium at a glance
  - 16 partners to deliver cloud, HTC and HPC resources
  - 12 user access and platform solution providers
  - 21 providers from 13 communities to deliver data spaces
  - 12 federation service providers

57% of the budget for service provisioning

# Concept and methodology: Tier service architecture

## Data Spaces and Analytics

Data and thematic data analytics and processing tools

## Platforms

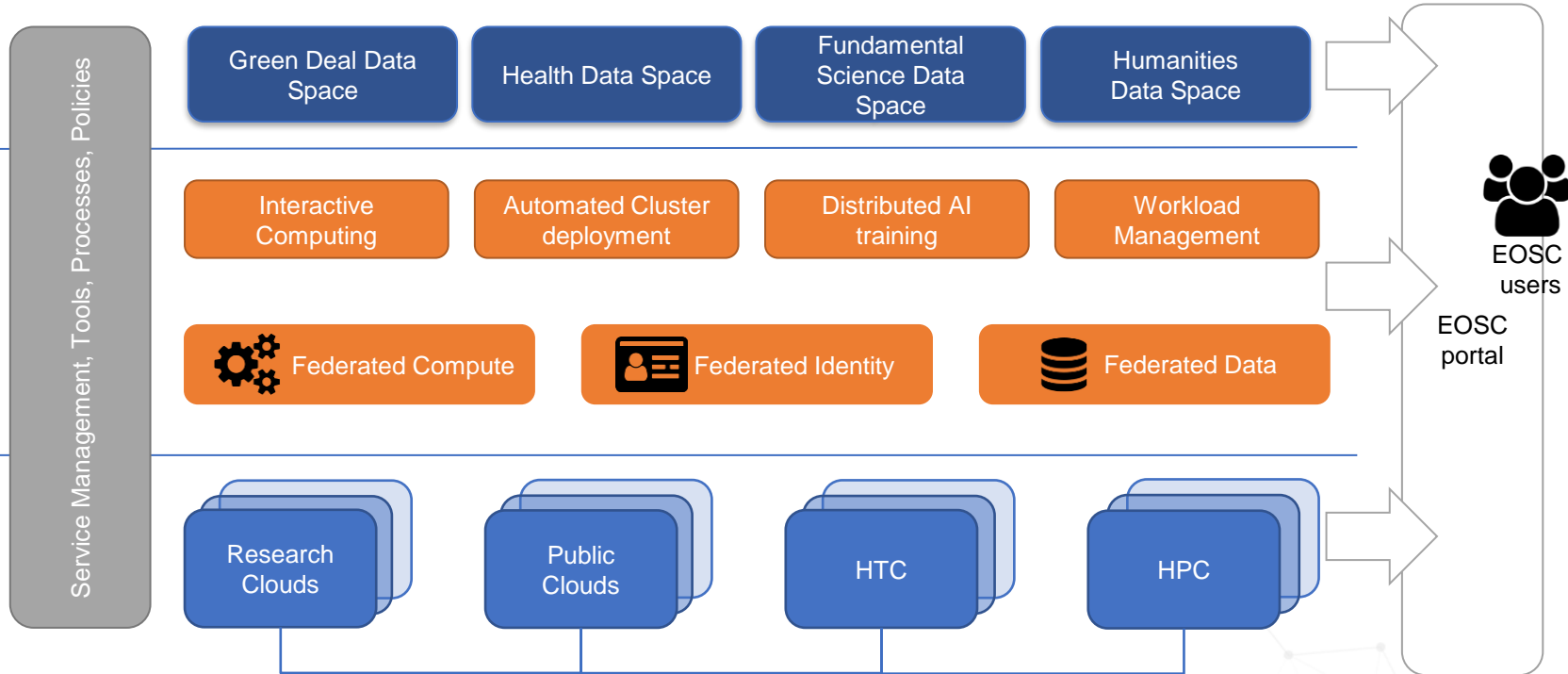
generic added-value platform level services

## Federated Access

Federation-wide management of data and computing

## Federated Resources

Compute and storage facilities



**Confluence:** <https://confluence.egi.eu/display/EGIACE>

**Other tools:** Jira, mailing lists, Indico, Google drive

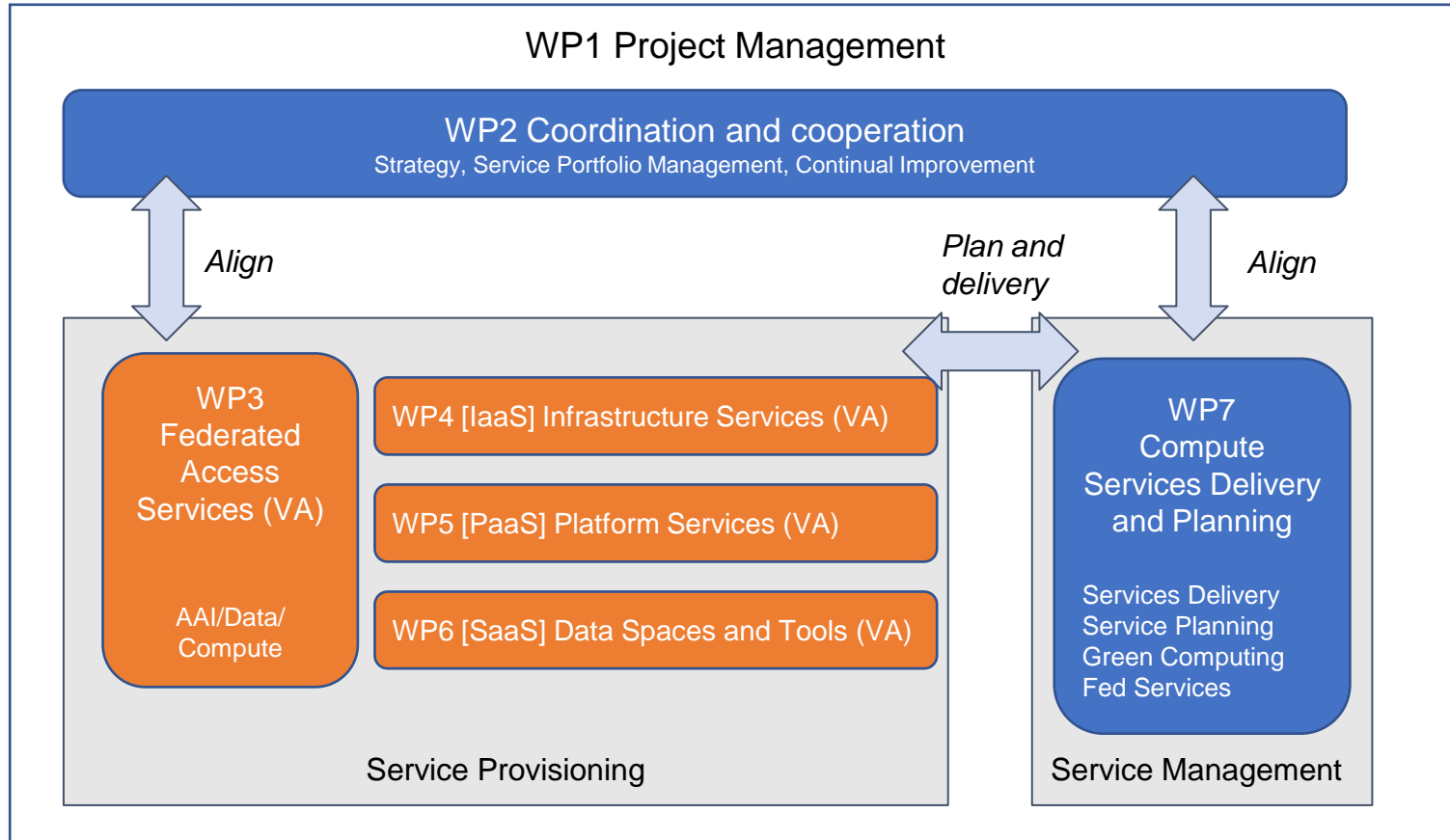
**PMO:** [egi-ace-po@mailman.egi.eu](mailto:egi-ace-po@mailman.egi.eu) (please contact to get access)

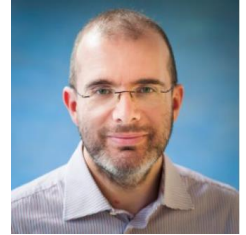
**Mailing lists:** <https://confluence.egi.eu/display/EGIACE/EGI-ACE+mailing+lists>

**Communication package:**

<https://confluence.egi.eu/display/EGIACE/Communication+toolkit>

# Implementation structure



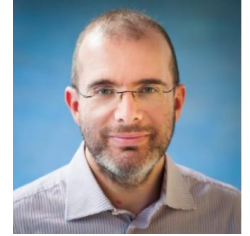


## WP leader: Alessandro Paolini

### Tasks:

- **T7.1 Service Delivery** (Lead: EGI.eu) (Participant: INFN)
  - Overall coordination, CHM, RDM, CRM, CONFM, software distribution (UMD/CMD)
- **T7.2 Service Planning and Green Computing** (Lead: EGI.eu) (CNRS, CSIC, JISC)
  - SLM, SRM, SACM, CAPM
  - Coordination of Green Computing activity and related training
- **T7.3 HPC integration** (lead: EGI) (CERN, CMCC, CESGA , IFIN-HH , IICT-BAS , INFN , LIP, TUBITAK, UKAEA)
  - provide interoperability guidelines for HPC systems with the EOSC Cloud Compute platform, exploring and identifying gaps for the execution of container-based workloads (involving four scientific pilot use cases)
- **T7.4 International cloud integration** (Lead: EGI.eu) (CLOUDEFERRO, CNIC, GRENA, IDIA, IMCS UL, OSG, RENAM, SZTAKI, T-SYSTEMS)
  - expand the cloud infrastructure offered by the project by federating new infrastructure providers
  - Assistance to and collaboration with academic, industrial and commercial providers





## WP leader: Alessandro Paolini

### Tasks:

- **T7.5 Security Coordination** (Lead: UKRI) (CERN, CESNET, GRNET, IJS, NOW-I NIKHEF)
  - Policies, procedures, incidents, vulnerabilities
- **T7.6 Service Management Tools** (Lead: EGI.eu) (CESNET, CNRS, CC-IN2P3, CESGA, CSIC, GRNET, INFN, KIT, LIP, SRCE, UKRI)
  - Coordination of technical plans and maintenance, requirements gathering, opportunities for improvement

### Deliverables:

- D7.1 Service Management Tools Technical Plan (M12)
- D7.2, 7.5 Status of the SMS Processes (M15, M29)
- D7.3 Final version of HPC integration handbook (M18)
- D7.4 Green Computing progress and improvements within EGI-ACE (M24)

## Task 7.5 Security Coordination

*We have two “descriptions of work” (the project and our OLA with EGI Foundation)*

- The objective of the task is to **provide and maintain** Information Security Management (ISM) **policies, procedures and coordination of ISM activities**, to **prevent** security incidents where possible and to **support the trust** between EGI services and the **wider EOSC** environment. It also contributes to the **protection of service integrity and to the management of risk** and provides capabilities to **support business continuity and disaster recovery** in case of **security incidents**.
- The task will coordinate a **security vulnerability risk assessment team** and **an incident response task force** to make sure that routine issues and security events are handled properly, and to **provide specialised expertise in forensics** and coordination for **large scale incidents** that threaten multiple providers.
- The task also includes the development, maintenance and deployment of security operational **tools, monitoring** and the **Security Service Challenge** framework.
- Security aspects of **all services** within the federation, **including virtual access service providers** within WP4, 5 and 6, are **within scope** of this task.

## *EGI OLA – Version 3*

- The security coordination activities must liaise with the resource providers (~40 among NGIs and EIROS) the resource centres (~350) and oversee the technologies used in the production infrastructure, for example: O.S. Platforms, HTC, Cloud, Storage, AAI capabilities.
- Coordination tasks
  - Security Operations Coordination
  - Security Policy Coordination
  - Security Incident Response Coordination
  - Software Vulnerability Group Coordination
  - International Grid Trust Federation (IGTF) and EUGridPMA

- In particular the activity will have to liaise with the following entities:
  - NGI and EIROs security teams
  - Resource Centres security teams
  - Other European and international e-infrastructures and research infrastructure
  - Cross infrastructure policy groups, such as for example WISE, SIG-ISM, AARC AEGIS, FIM4R and REFEDS
- Operation
  - Security Monitoring
    - 2 different monitoring boxes are operated:
      - pakiti (by CESNET)
      - secmon (by GRNET)
  - Incident Reporting Tool
  - Tools for Security Service Challenge support

# Task 7.5 - details

## *Security Coordination*

- Partners: CERN, CESNET, GRNET, IJS, NIKHEF, UKRI(STFC)
  - Coordinator - David Kelsey (UKRI)
- Funding mechanism (EGI Foundation & Partners – not EC)
  - This is the main direct source of funding for EGI CSIRT, SVG, SPG, ...
- 75 PM over 30 months => **2.5 FTE**
- Task mailing list: [egi-ace-wp7-t5@mailman.egi.eu](mailto:egi-ace-wp7-t5@mailman.egi.eu)
  - Hope all of you are now on this list!
- Only use the task email list for EGI-ACE specific issues
  - All ongoing general ISM work should take place on the usual lists
    - CSIRT, IRTF, SVG, SPG, etc ...
- Monthly meetings of this task will start in September
  - Best time for these?

## Task 7.5 – Sub activities

*CERN, CESNET, GRNET, IJS, NIKHEF, UKRI*

- IRTF (Sven, DanielF, Pinja, DanielK, Barbara, DavidC, others)
- SVG (Linda, IRTF members, others)
- Monitoring (DanielK, GRNET, others)
- CSIRT Web Site, PR, Dissemination, Training, Best Practice, Guidance (Barbara, DanielK, others) – not in *contract*
- SPG (DaveK, DavidG, Ian Neilson, DavidC, others)
- SSCs (Sven, others)
- Risk management (Linda, others)
- Trust & Identity (DavidG, DaveK, others)
- International coordination and collaboration (many people)
  - EOSC and Infrastructures, EUGridPMA, IGTF, TF-CSIRT, FIRST, TI, eduGAIN Security, FIM4R, WISE & SCI, REFEDS, SIG-ISM, GN4-3 EnCo, ...

Work not covered this week, includes:

- EGI SPG
  - Working on update to Data Protection policy (for GDPR)
- Migrate EOSC-hub SMS/ISM to EGI SMS? **DISCUSS**
- Risks and Controls in more detail - next (Linda)
- New entities to be included in our “scope” (see slide 7)
  - WP4 (IaaS), WP5 (PaaS), WP6 (SaaS)
  - **DISCUSS**

Best time for monthly EGI-ACE Security meeting?

- **DISCUSS**