



## Service Architecture introduction

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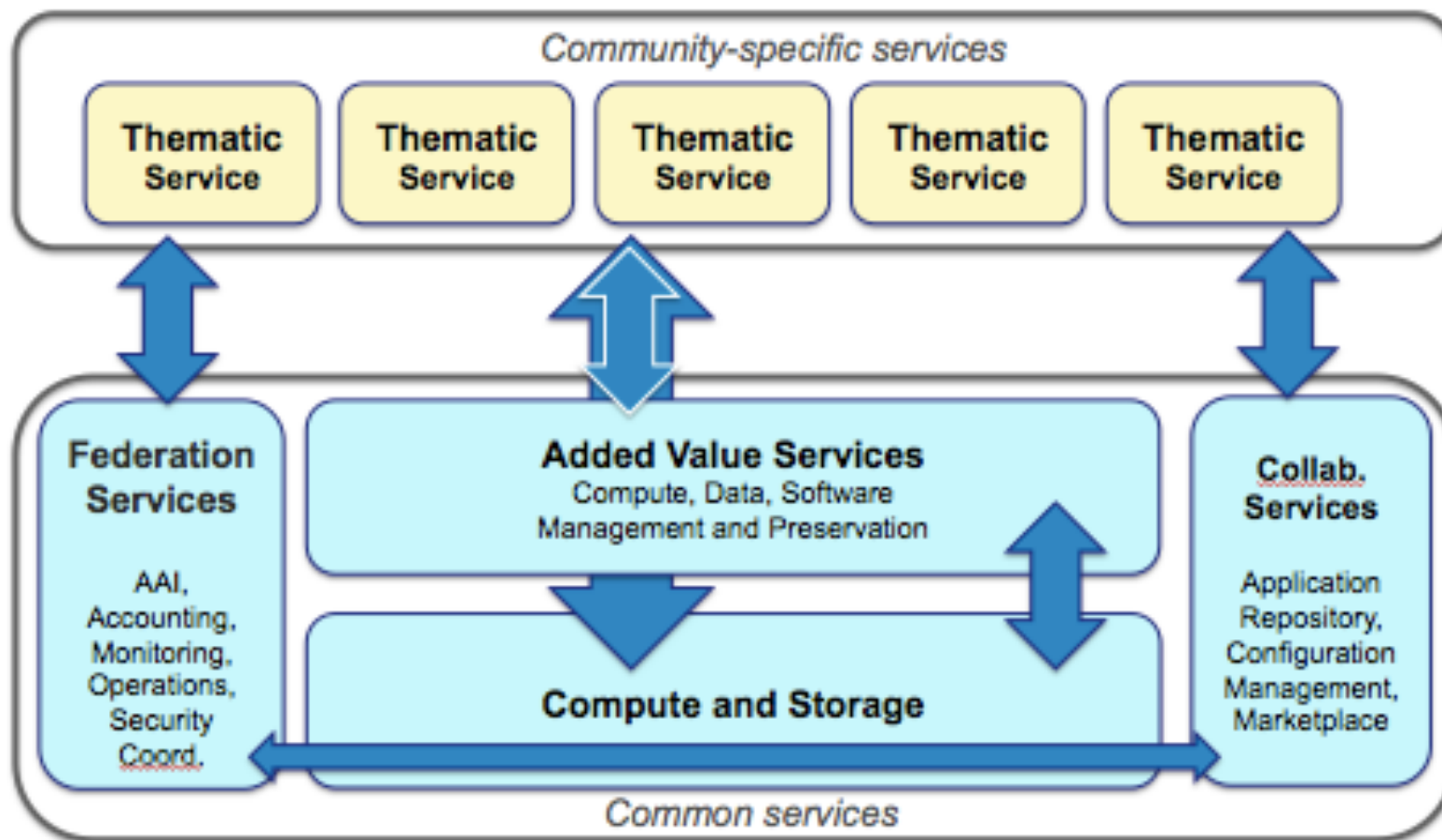
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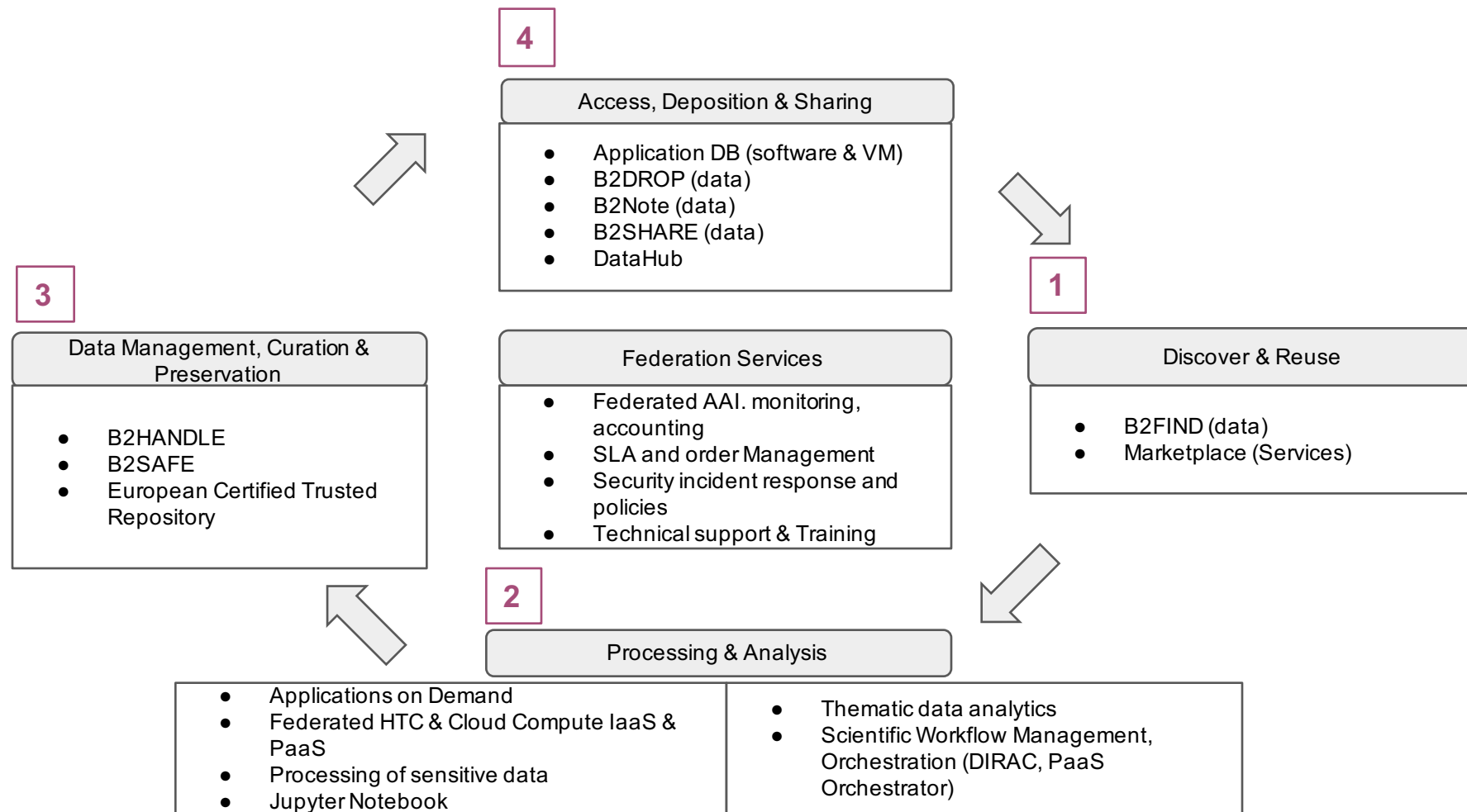
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- Status and overview of EOSC-Hub service architecture
- AAI integration activities in the context of EOSC-Hub
- AppDB integration activities in the context of joint effort with OpenAIRE-Advance
- Thematic Services integration into EOSC-Hub context
- EOSCPilot and interoperability architecture
- eInfraCentral and service catalog interaction through APIs
- DEEP-HybridDataCloud and eXtreamDataCloud contribution to the EOSC Service Architecture

- The WP10 is working on its first major Deliverable on the Service Architecture:
  - It will be available **soon**
- One of the main activity driven by WP10 on shaping the Service Architecture, is the Technology Committee, that will:
  - Defining, maintaining and evolving the technical roadmap,
  - Stimulating and supervising the contribution to open source community projects and standards bodies,
  - Ensuring compliance to standards and security in defining and assessing the acceptance criteria for the evolution of the service catalogue.
  - Coordinating with external initiatives and projects of technical and strategic relevance, when applicable, for example as a result of a collaboration agreement with another project.





- All the EOSC-Hub services are grouped into Technical Areas
- A Technical Area (TA) comprises a set of products that share common technologies or technical scope. A Technical Area, is a way to group together a set of services that shares area of interest or that has common technologies or scope.
- Each (TA) has one (or two) coordinators that is member of TCOM
- Each EOSC-Hub services could also be part of more than one Area

- Technical areas are:

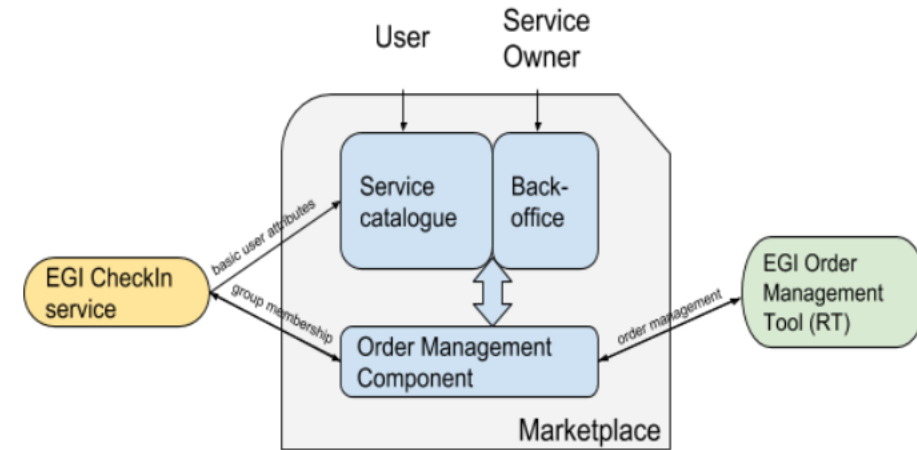
Technical Area	Coordinator(s)
Data Platforms for Processing	Lukasz Dutka (Cyfronet)
Data Publishing and Open Data	Mark van de Sanden (Surfsara)
Data Preservation/Curation/Provenance	Claudio Cacciari (CINECA)
Metadata Management and Data Discovery	Heinrich Widmann (DKRZ)
HTC/HPC Compute	Ignacio Blanquer (UPV)
Cloud Compute (inc Containerisation and orchestration)	Enol Fernandez (EGI)
Software Release and SQA	Joao Pina (LIP)
Federation tools	Diego Scardaci (EGI F.)
PaaS Solutions	Marica Antonacci (INFN)
Workflow management and user interfaces and Data analytics	Marcin Plociennik (PSNC)
Security	Jens Jensen (STFC)
AAI	Michal Prochazka (CESNET), Licia Florio (GEANT)

- In order to integrate new services into the Service Architecture we foresee the possibility to provide different level of integration, at least three:
  - **Core Services**
    - They are tightly connected and integrated in the Service Architecture (AAI, federation tool, etc)
    - They could be eventually used also by Common or user services to build on top of them
  - **Common services**
    - They have a more lightweight integration with the EOSC-Hub Services, maybe they can integrate only on the AAI plus a direct integration with specific services
    - Usually only user level services, rely on them to integrate more high-level services
  - **Application services**
    - They a really lightweight integration and usually no others services rely on them.
- All of them, will be consumed via a High-Level **Marketplace**



- **WP5 (Core Services)** are planning specific integration activity among core services that need a deep integration:
  - AAI ... there will be a dedicated talk...
  - The main core services will be integrated with the AAI solution (Check-in/B2Access)

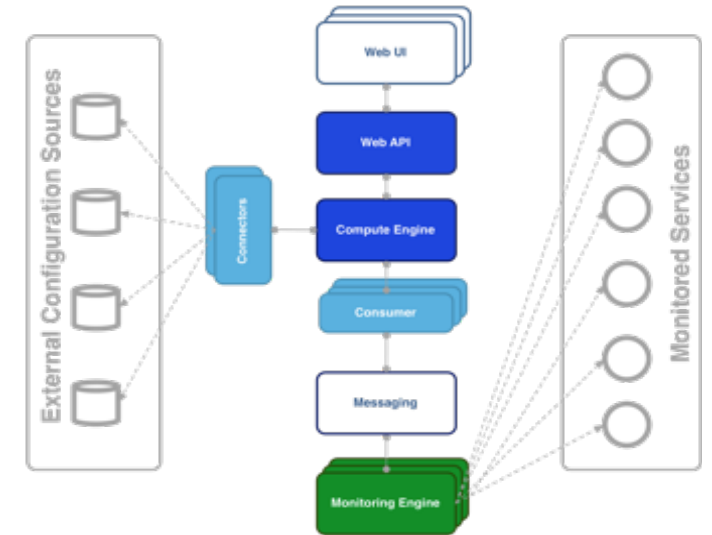
- **WP5 (Core Services)** are planning specific integration activity among core services that need a deep integration:
  - Marketplace will be integrated with:
    - Service Portfolio Management Tool
    - Operational Tools
    - GOCDB



- **WP5 (Core Services)** are planning specific integration activity among core services that need a deep integration:

- Monitoring:
  - Migration towards the Argo Messaging Service

- Accounting Repository - EUDAT accounting service
- Integration of EUDAT-RT with xGUS

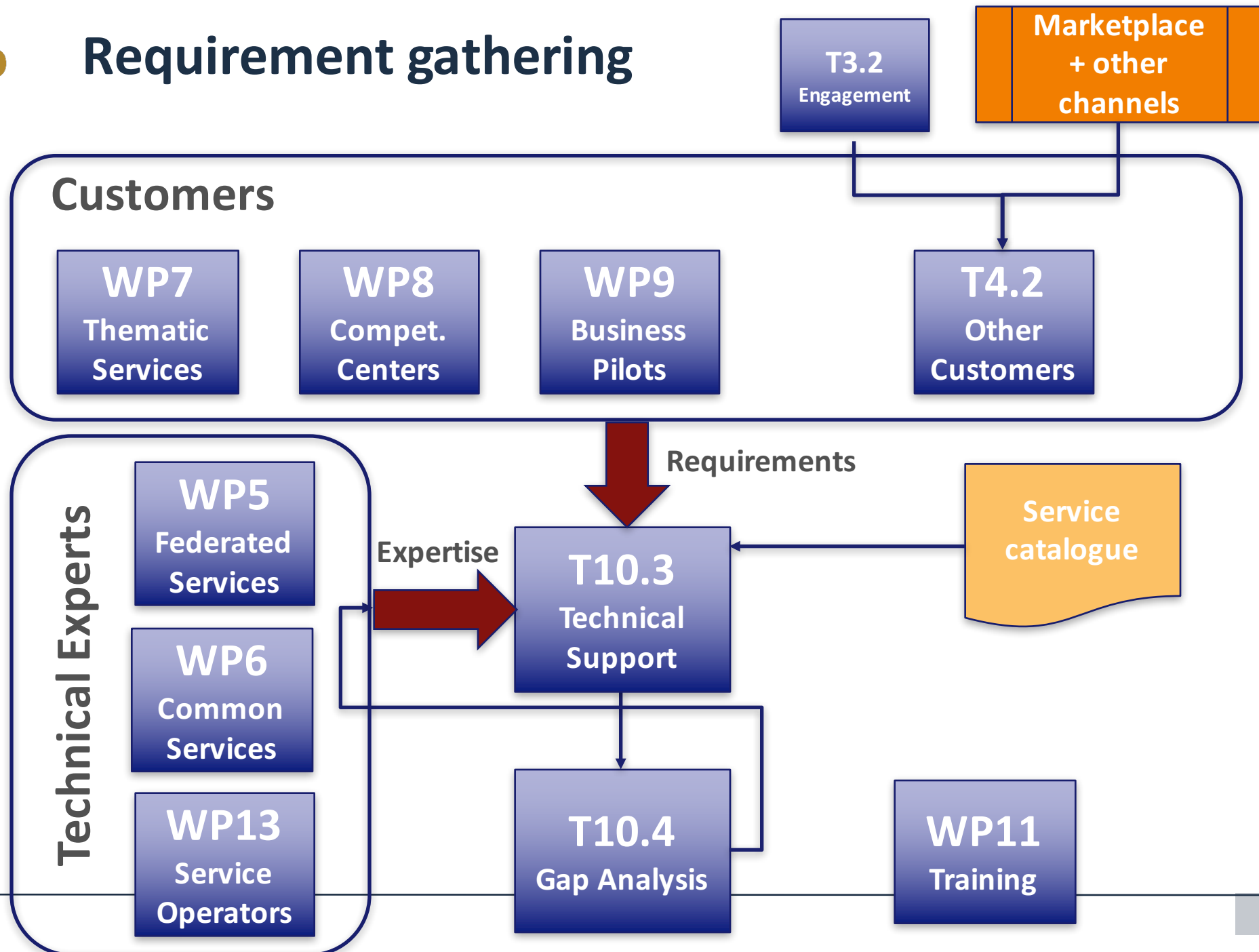


- **WP5 (Core Services)** are planning specific integration activity among core services that need a deep integration:
  - Integration of the AppDB VMOPs with the GGUS
  - AppDB Information System extension
  - Enrich AppDB digital objects with PIDs (B2HANDLE)

- **WP6 (Common Services)** are planning specific integration activity among core services that need a deep integration:
  - Seamless data-exchange between EGI DataHub and B2Stage/B2Safe
  - Metadata for data in B2SAFE automatically extracted and ingested into B2FIND according to data policy
  - Data exchange from B2SAFE to EGI DataHub and vice-versa according to data policy
  - Expose, harvest and index metadata from EGI DataHub in B2FIND
  - Usage of Indigo IAM as Identity Provider for EGI DataHub
  - Use B2DROP to prepare input data for B2STAGE or/and retrieve and store (small sized) data

- **WP6 (Common Services)** are planning specific integration activity among core services that need a deep integration:
  - Seamless EGI Fed cloud exploitation from INDIGO PaaS (IAM/Check-in integration issue)
  - Access B2DROP Storage from EGI Cloud Compute VMs
  - INDIGO CMDB and SLAM, integrated with AppDB IS

# Requirement gathering



**Thank you  
for your attention!**

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*Questions?*



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