

Synergies and coupling to other use cases

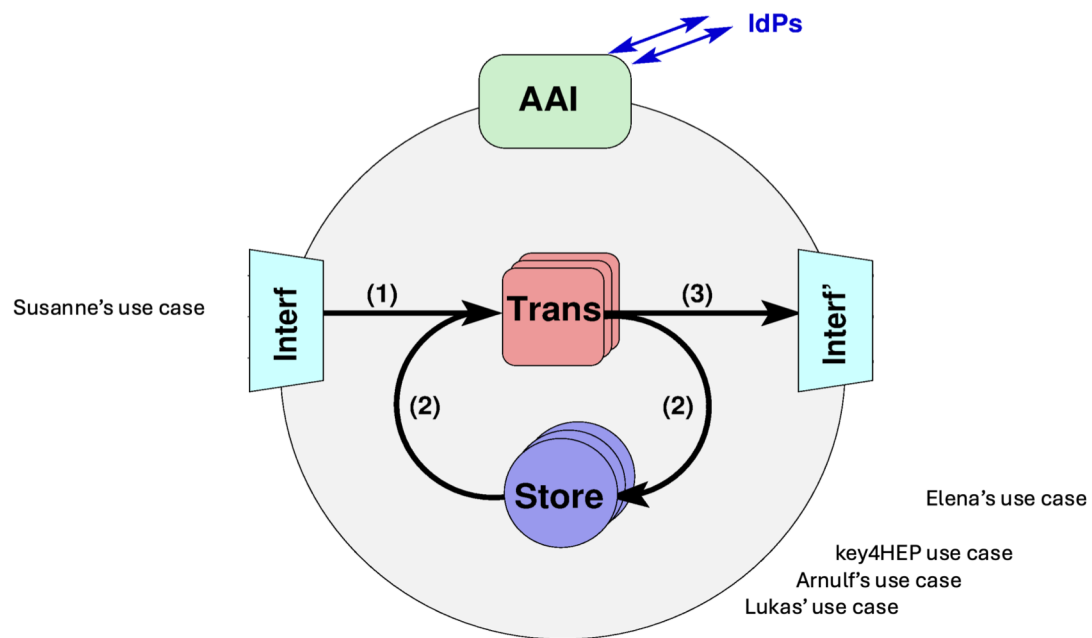
TA5 WP4 meeting

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# Overview

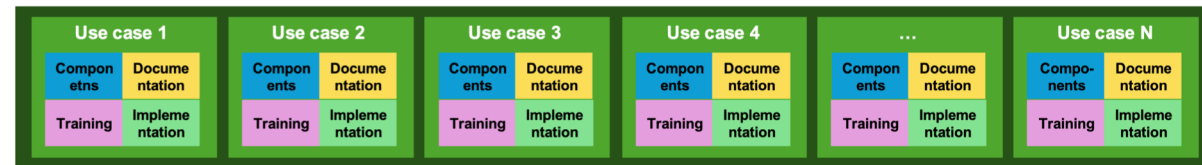
- Use case meeting: <https://indico.desy.de/event/48530/>
- Summary of current plans: <https://indico.desy.de/event/48406/contributions/184108/attachments/96512/132461/PUNCH.GM-TA1-PUNCH-2.0.20250328.pdf>
- Some synergies identified:



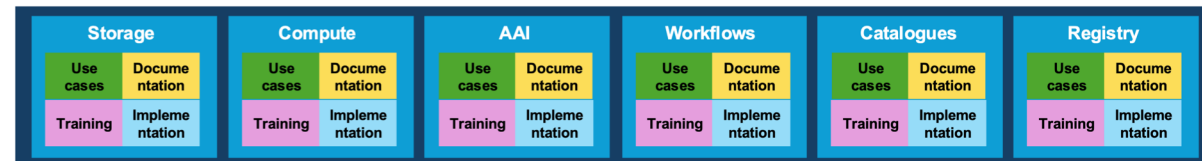
## TA Management



## TA Assembly



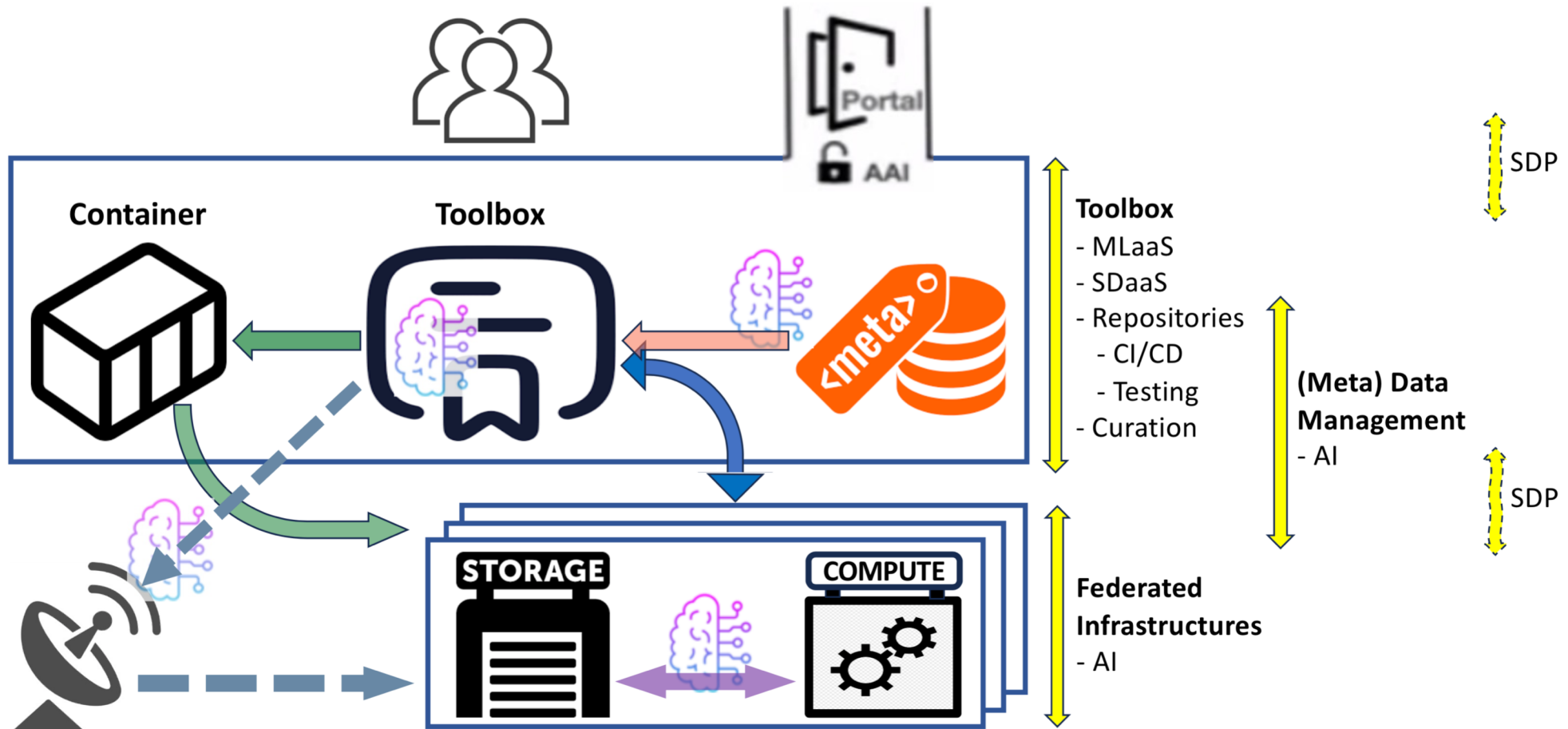
## TA Components



→ Coupling of „Workflow for future observation“ to other use cases and building blocks of PUNCH 2.0?

# Illustration of Workflow for future observation

## Workflows for future observations



# Key aspects of Workflow for future observation

Simulations

Metadata → ILDG

C4P → Containerization (Intertwin)

Fast ML

FPGAs

Resource efficiency → compute cost

Dynamic archiving

Real-time data

To be discussed

# Aspects: Partially covered by others

**Simulations**

**Metadata → ILDG**

**C4P → Containerization (Intertwin)**

Fast ML

FPGAs

Resource efficiency → compute cost

Dynamic archiving

**Real-time data?**

# Aspects: Exclusive

Simulations

Metadata → ILDG

C4P → Containerization (Intertwin)

**Fast ML**

**FPGAs**

**Resource efficiency → compute cost**

**Dynamic archiving**

**Real-time data**

**Memory-based computing?**

# For discussion

List of features to be consolidated

Balance of common and exclusive aspects

Which communities are included?

Preparations until next use case meeting April 14?