

Towards plans for TA5 in PUNCH 2.0

TA5 Meeting
09/01/2025

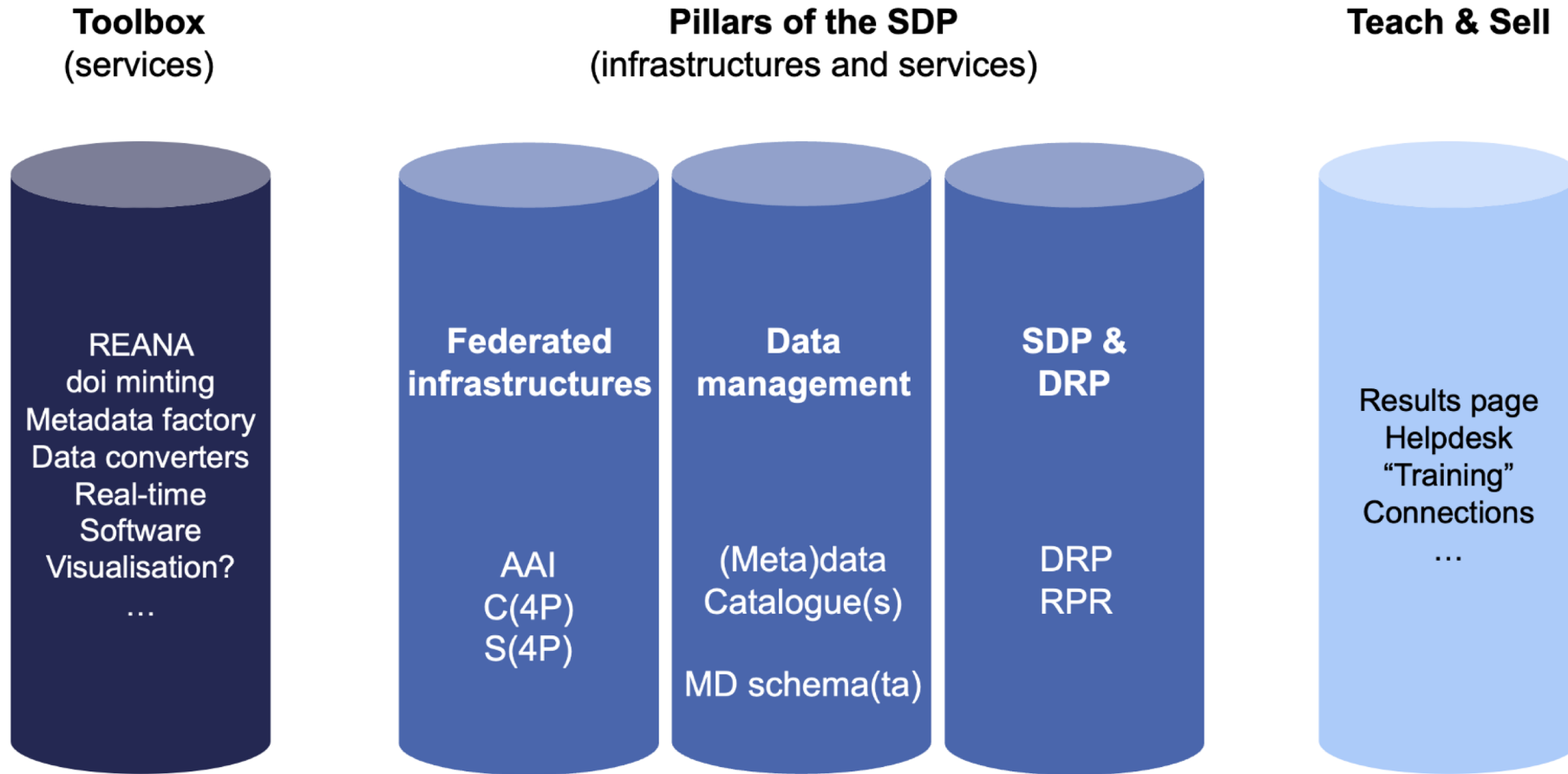
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General context – wider perspective

Presented
on Nov 21

- Proposal for second phase of NFDI funding until August 2025
- Coordination of strategies/plans at different scales (NFDI, PUNCH-management, TA-level, institutes,...)
- Meeting on February 18 next year for discussions among PIs
- Please fill in the questionnaire (before the Annual Meeting next week)
- Some strategic discussions during that meeting in Bonn
- Some relevant overviews of contributions as basis for future work:
 - Per work package
 - Per institute
 - For NFDI services
 - For public results and/or PUNCH services
 - Computing resources

Strategy for PUNCH 2.0 at annual meeting



- Structure with 3 pillars
- Strong focus on services, complemented by developments

Some ideas related to TA5 for PUNCH 2.0

FPGA-Service providing development platforms (hardware-platforms plus infrastructure):

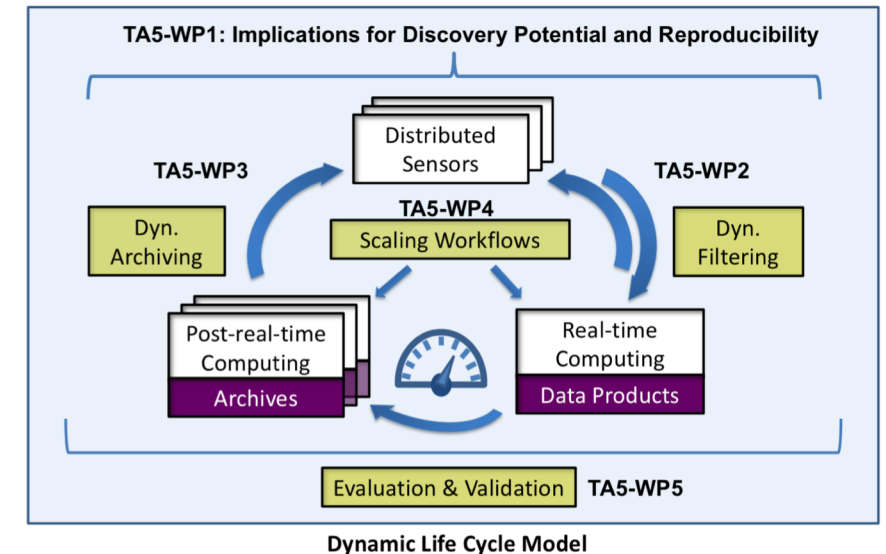
- Input/output of data streams
- Monitoring of system parameters
- Enabling users to test and evaluate FPGA-algorithms

Real-time astrophysics: Rapid increase in stream volume, diversity and complexity

- Strong need for tool (e.g. AMPEL)
- standardization
- guideline development

Validation of online workflows (use cases to be discussed):

- Definition of workflows
- Metadata/data base for online data selection
- Validation of (intermediate) results
- Comparison to results from simulations



Structure for plans related to TA5 topics

To be discussed!

- Meeting of TA5-WP4 on January 15
- Further meeting towards end of January → date to be coordinated and announced
- Participation in meetings at Kassel on Feb 18 <https://indico.desy.de/event/47379/overview> and DESY on Mar 4