

Particles, Universe, NuClei and Hadrons for the NFDI

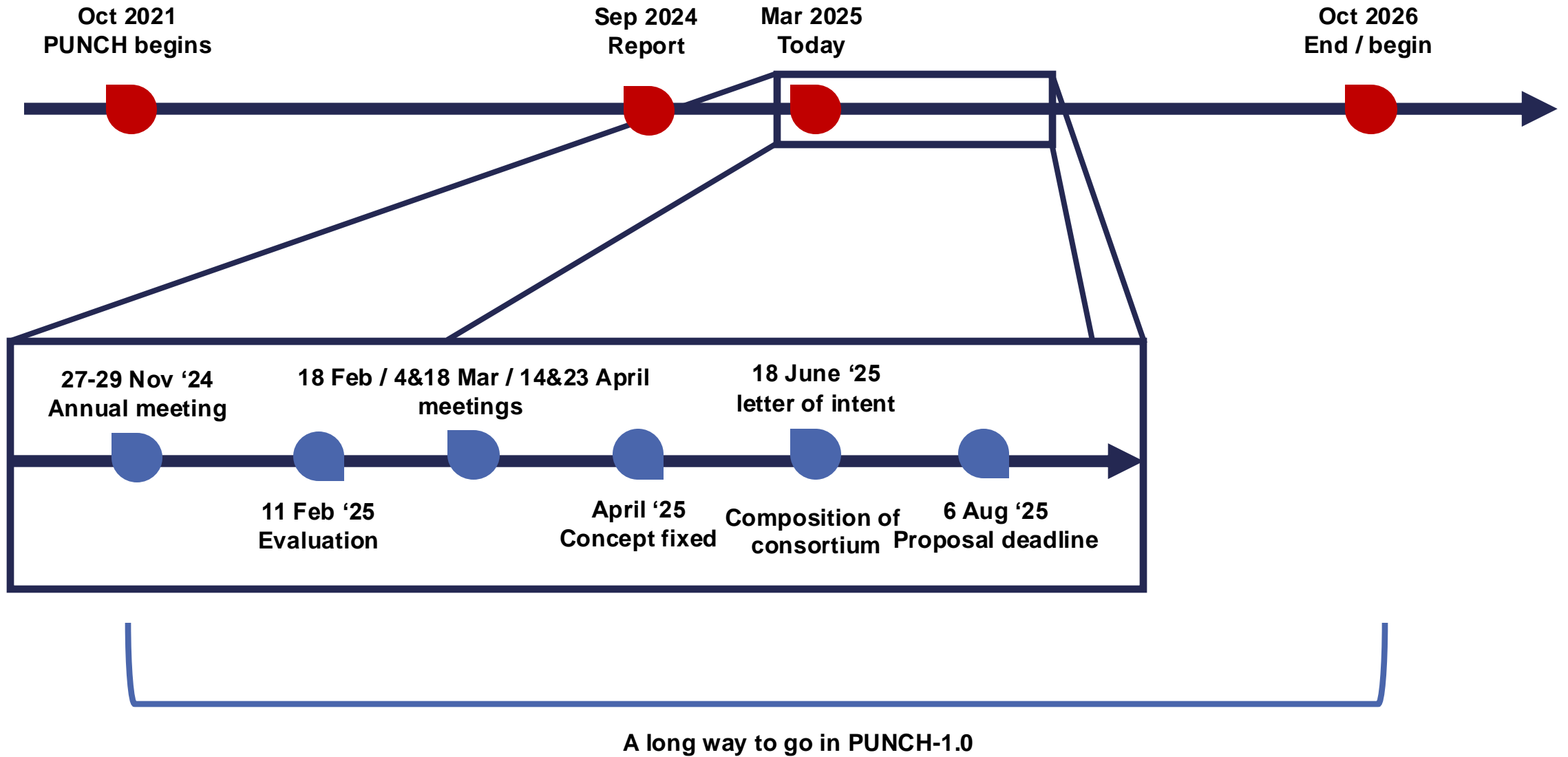
**TA1: Management and Governance
Outlook to PUNCH-20**

PUNCH4NFDI General Meeting
28 March 2025



Questions – Feedback?

<https://survey.hifis.dkfz.de/975978?lang=en>





B-2 Progress Report Part 2 for the consortium PUNCH4NFDI

Particles, Universe, NuClei and Hadrons for the NFDI

September 2024

Table of Contents

1 Consortium	1
1.1 Composition of the Consortium and its Embedding in the Community of Interest	2
1.2 The Consortium within the NFDI	5
1.3 International Networking	8
1.4 Organisational Structure and Viability / Sustainability	9
1.5 Operating Model	10
2 Research Data Management Strategy	11
2.1 Scientific Relevance and Quality of Measures	12
2.2 Metadata Standards and Reliable Services	15
2.3 Implementation of the FAIR Principles and Data Quality Assurance	16
2.4 Services Provided by the Consortium	18
2.5 Impact of Changes of External Conditions / Constraints	21
3 Additional Aspects	22
4 Spending of Funds	24
4.1 Description and Summary of Contributions by (Co-)Applicants	25
4.2 Description of Cash Flow Developments	26
V Appendix	26
VI List of Outputs Produced by the Consortium	31
VII Bibliography	34
VIII Additional comments on the Data Sheet	35
IX Data Sheet	

Midterm Evaluation Last Week in Bonn



Mid-term review

(Focusing on the low side here - first)

Comments related to the structure of the report

- Examples of local collaboration at partner institutions involved in several NFDI consortia missing
- Mapping of outputs to deliverables
- Information on finalized “tasks” (i.e. deliverables), timescale of tasks etc.
- Small number of training events and participants (we exclusively counted PYA events but of course PUNCH is involved in much more training events)

From the DFG expert group

- How will we integrate the necessary compatibility with existing standards such as FDOs?
- How will we increase the reusability of the data which is so far mostly used consortium internally?
- Describe the benefit for the whole NFDI system and beyond.

Comments related to the content

- Strategic approach to community engagement missing (e.g. stakeholder analysis)
- More information on use of funding (vs in-kind but also breakdown by activity)
- Provide datasets?

Mid-term review

(Now the positive!)

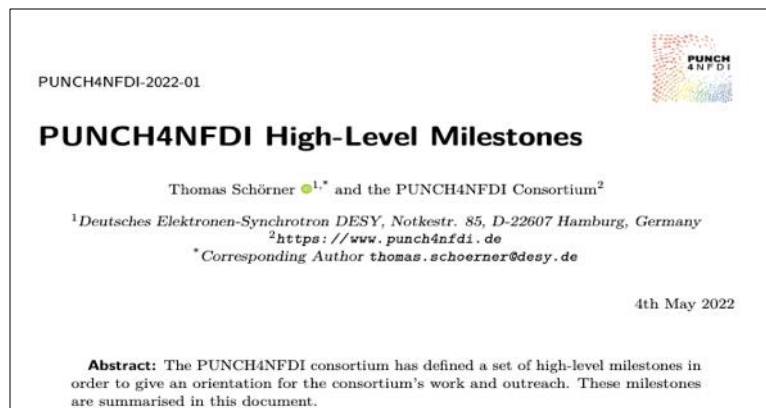
From the reports

- Participation in various NFDI sections and plans how to further contribute
- Strong international collaborations (as expected). “Tension” between NFDI ambition and international collaborations is an important reason why the project is needed.
- Single sign-on
- Discussion with potential new partners are strongly encouraged
- Promoting diversity, also in hiring processes
- Implemented use cases (HEP and heavy ion) are two strong, example indicators of the success of PUNCH4NFDI

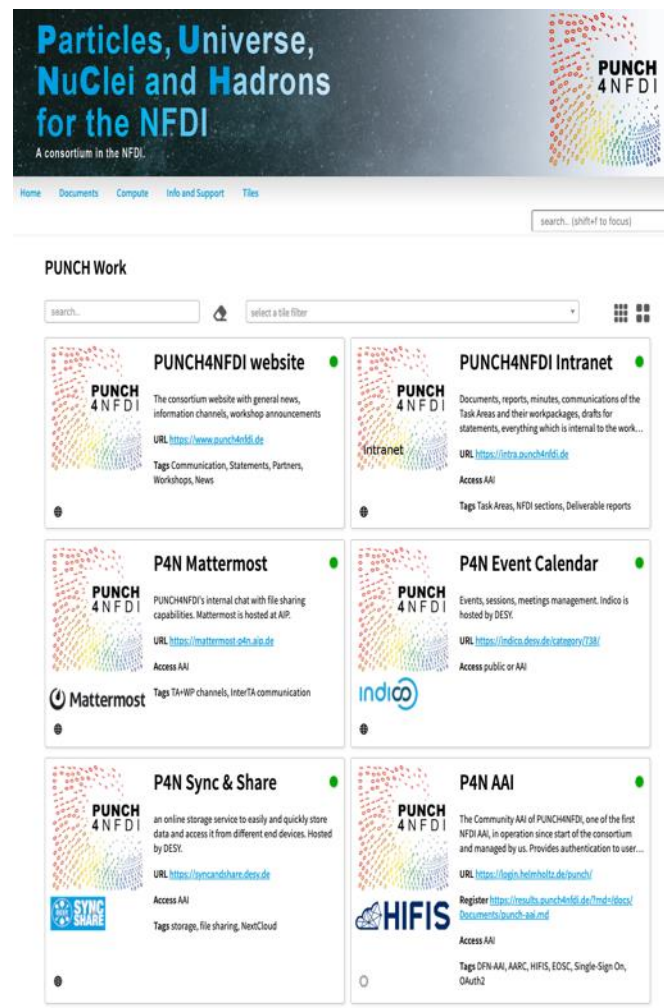
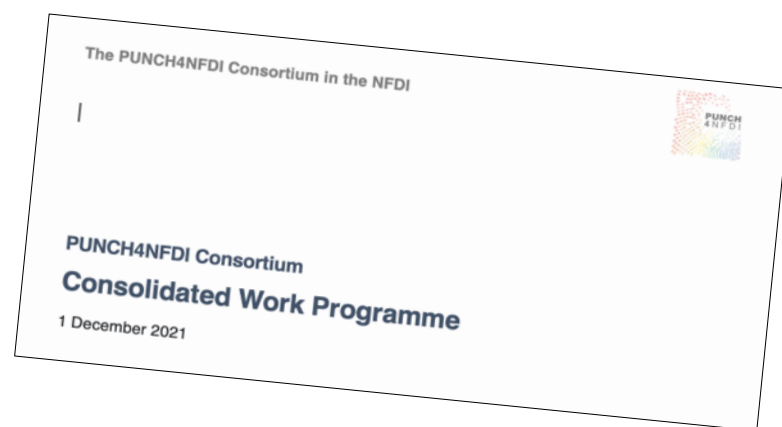
From the DFG expert group

- Contribution of experience in large international collaborations and with Big Data
- Showcase how individual communities can work together within one consortium (intensive dialogue)

Taking stock ...



[10.5281/zenodo.6513549](https://doi.org/10.5281/zenodo.6513549)



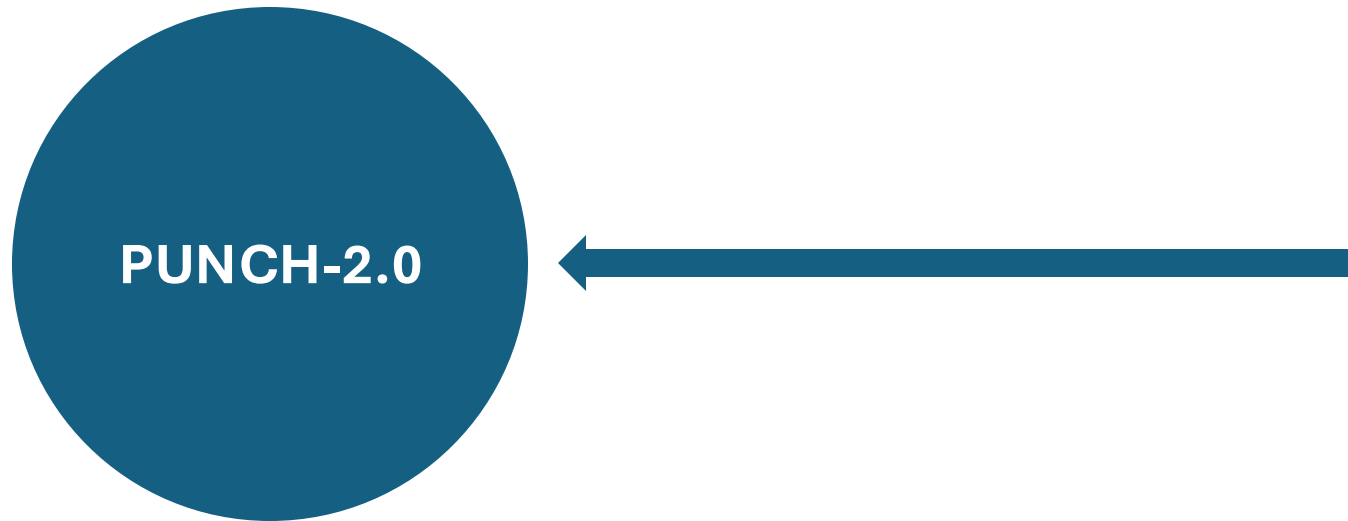
Findings discussed in Bonn (Annual Meeting, Nov 2024)

1. Broadly distributed project: Money distribution fixed at the beginning, and too much dispersed over too many partners.
2. Investment in a number of activities that are today obsolete or not / less NFDI-relevant
3. NFDI requires going to the provision and operation of reliable services.
➔ which products do our communities really need?
4. PUNCH too weak on management and communication

Taking stock ...

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➔ which products do our communities really need?
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Management and board meetings (EB, SAB, IRB, UC, CB ...)

- partly protected

Create event ▾

Navig...

EB Meetings	64 events		
SAB Meetings	empty		
IRB Meetings	1 event		
UC Meetings	3 events		
CB Meetings	4 events		

April 2025

-
- Apr 23
- PUNCH-2.0 proposal prep - 5th meeting (hybrid, FIAS-Frankfurt)

Apr 14

PUNCH-2.0 proposal prep - 4th meeting (virtual) NEW

March 2025

- Mar 18

PUNCH2.0 proposal prep - 3rd meeting
- Mar 04

PUNCH2.0 proposal prep - 2nd meeting

Proto-pillar discussion

February 2025

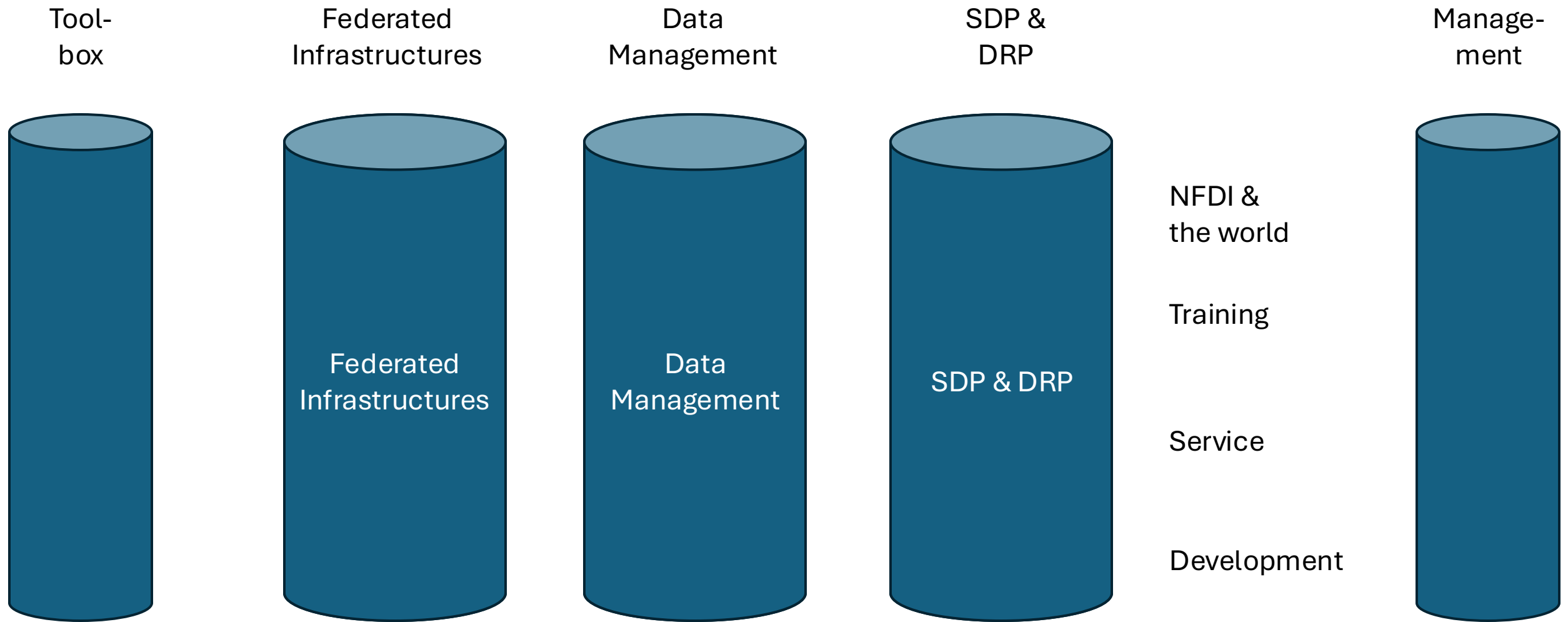
- Feb 18

PUNCH-2.0 proposal prep

General discussion

There are 62 events in the past. [Show](#)

Conclusions



Management and board meetings (EB, SAB, IRB, UC, CB ...) - partly protected

[Create event](#)[Navigation](#)

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April 2025

- Apr 23 [PUNCH-2.0 proposal prep - 5th meeting \(hybrid, FIAS-Frankfurt\)](#)
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March 2025

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February 2025

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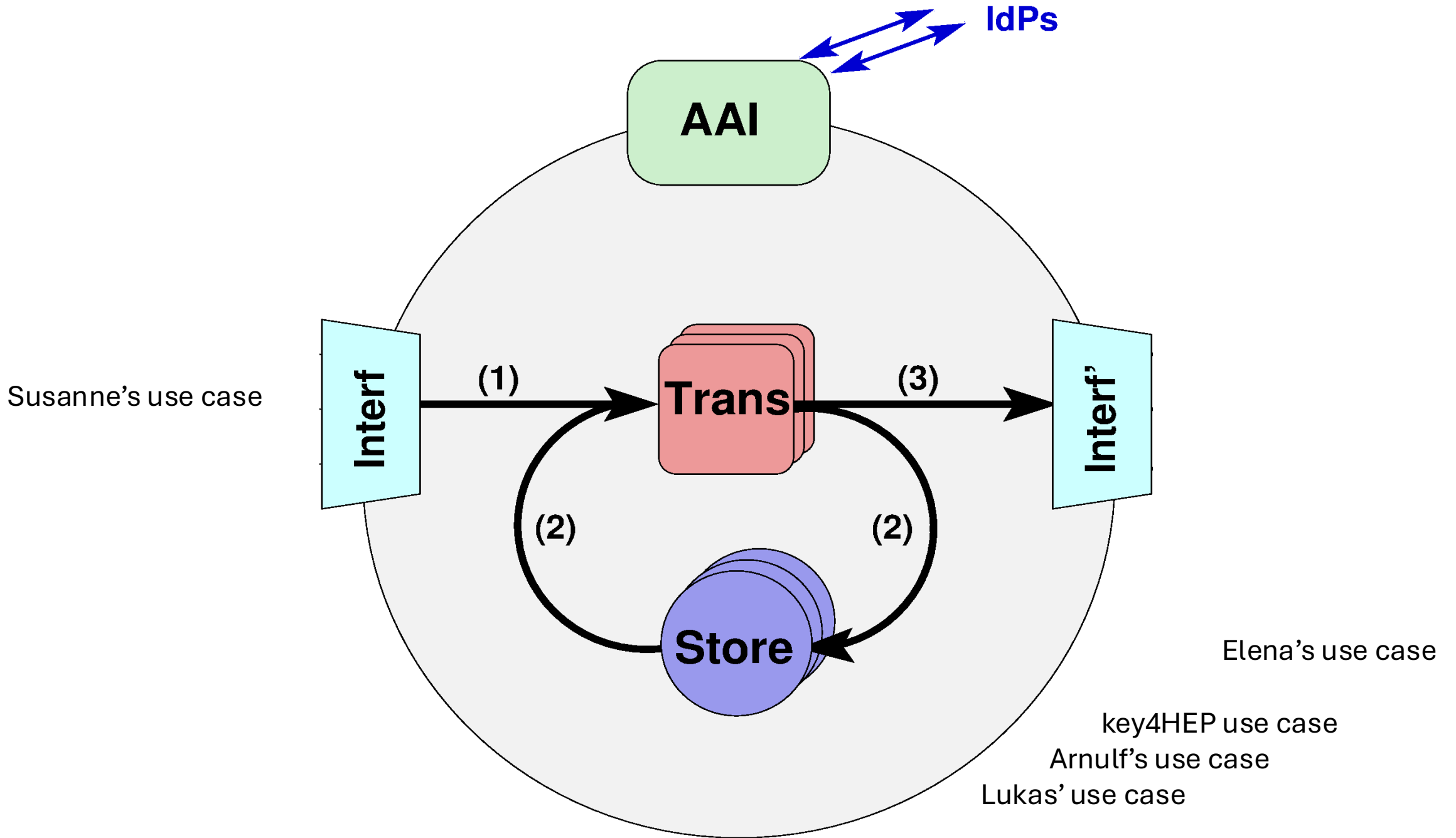
There are 62 events in the past. [Show](#)

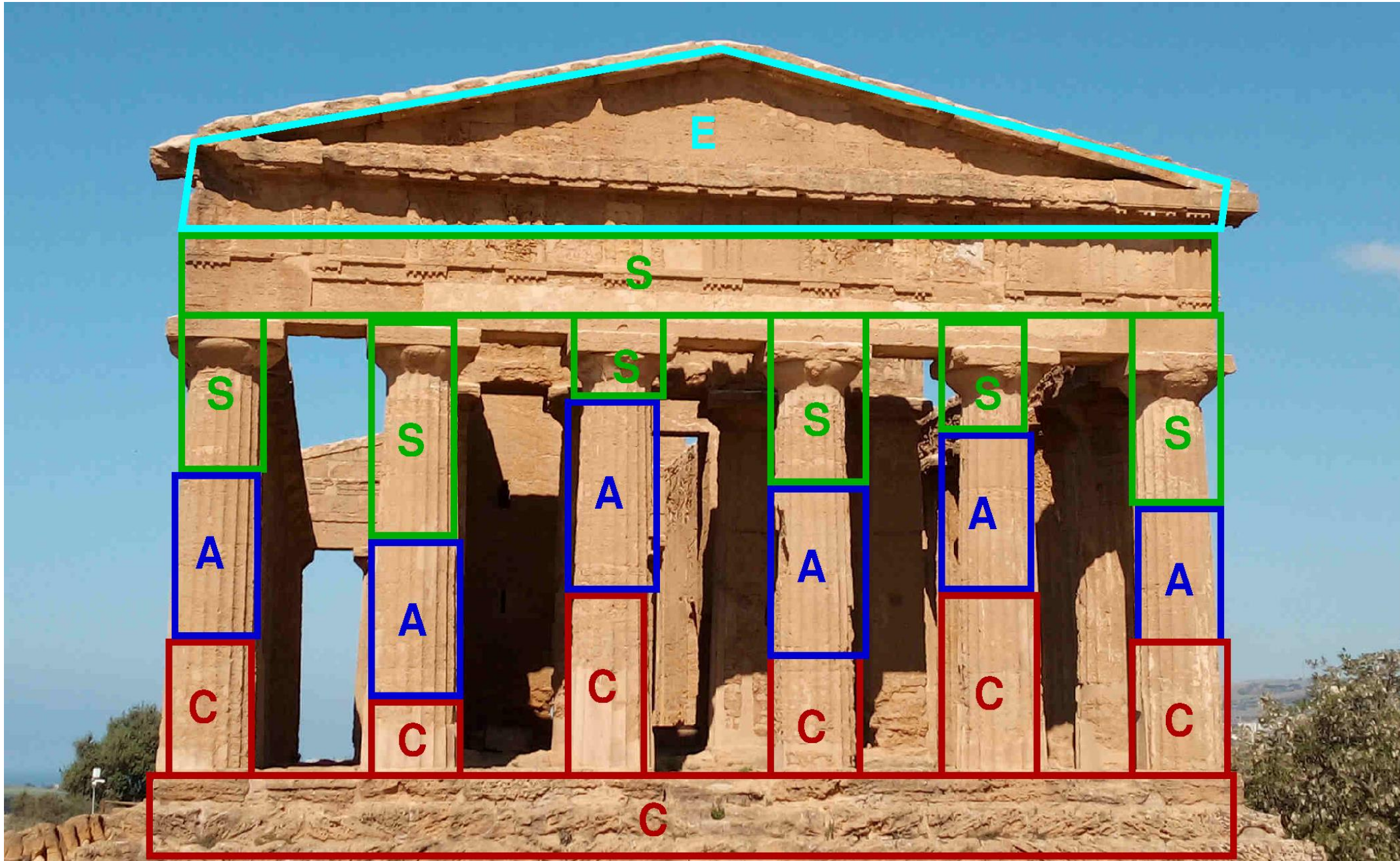
Use cases

Proto-pillar
discussion

General
discussion

- 2:00 PM → 2:20 PM key4HEP-based workflows**
Convener: Philip Bechtle
 PBe_PUNCH_Useca...
- 2:20 PM → 2:40 PM Data and workflow management chain for emerging experiments and simulations in PUNCHData generation**
Convener: Susanne Pfalzner (Forschungszentrum Jülich)
- 2:40 PM → 3:00 PM PUNCH data management core use case**
Convener: Thomas Schörner (DESY)
 DataManagement.U...
- 3:00 PM → 3:20 PM AI-based automated generation of workflows**
Conveners: Dr Arman Khalatyan (AIP), Victoria Tokareva (KIT)
 AI-based assistants ...
- 3:20 PM → 3:40 PM Analysis of big data sets, visualization, live interaction**
Conveners: Dr Elena Sacchi (AIP), Gernot Maier (DESY)
 PUNCH2.0_BigData...
- 3:40 PM → 3:50 PM Short break**
- 3:50 PM → 4:10 PM Pheno interpretation of data**
Conveners: Arnulf Quadt (IL Physikalisches Institut, Georg-August-Universität Göttingen), Joseph Mohr (LMU-Munich), Lukas Heinrich, Lukas Heinrich (CERN)
 20250318_Punch2... Pheno-cosmo.pdf PUNCHSides.pdf
- 4:10 PM → 4:30 PM Workflow for future observation**
Convener: Stephan Schlemmer
 PUNCH_CDMS_XCL... Workflows_FutureO...
- 4:30 PM → 5:00 PM Discussion**





Connections

Support

Assembly

Components

Ground /
foundation

TA Management



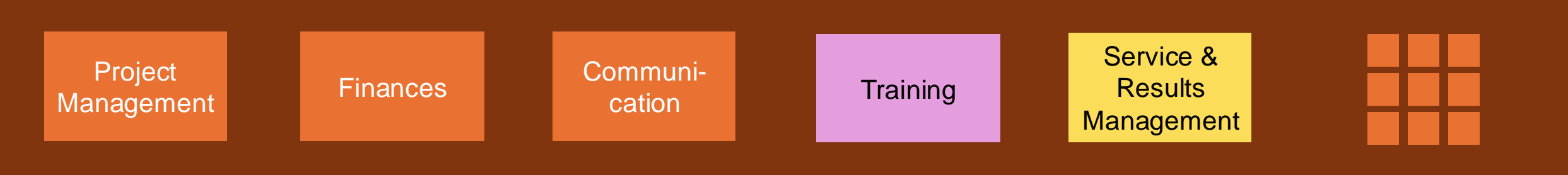
TA Assembly



TA Components



TA Management



TA Assembly



TA Components



TA Management



TA Assembly

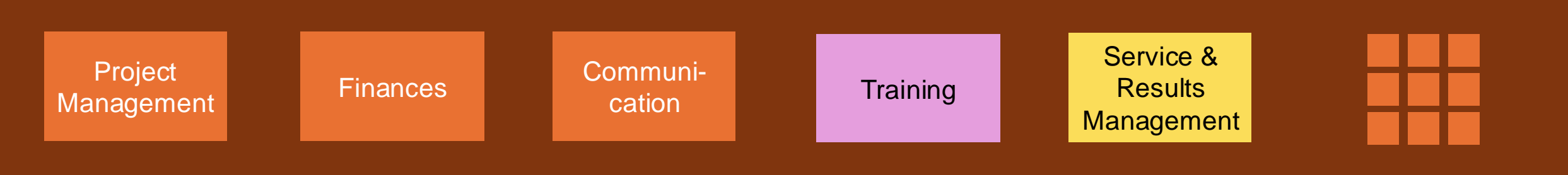


TA Components

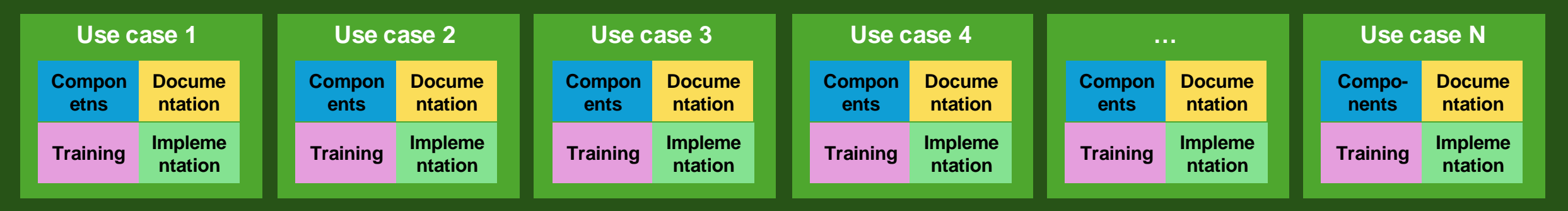


Note: Same size does not mean same funding!

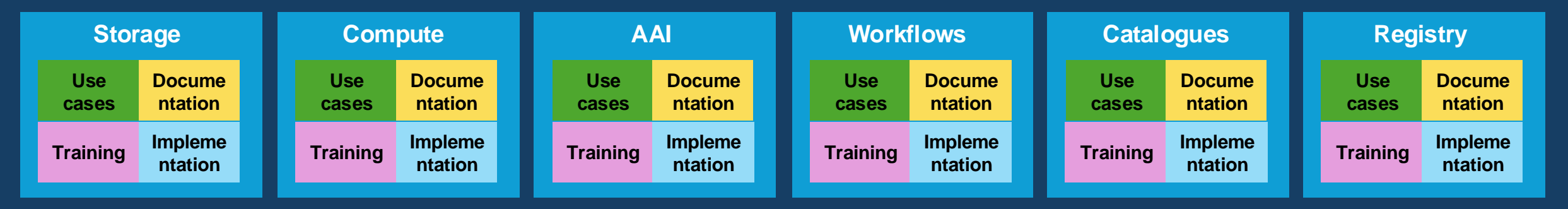
TA Management



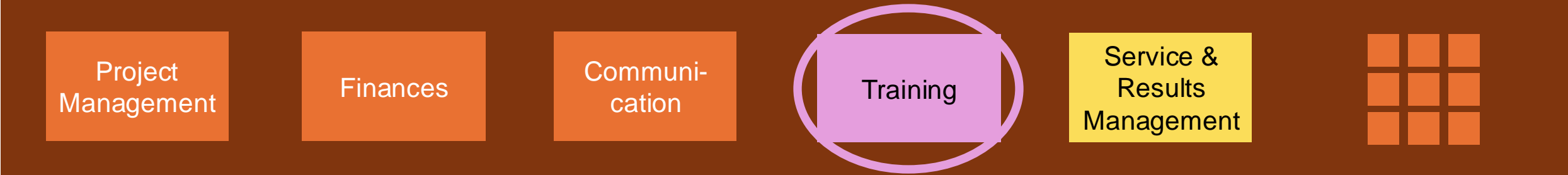
TA Assembly



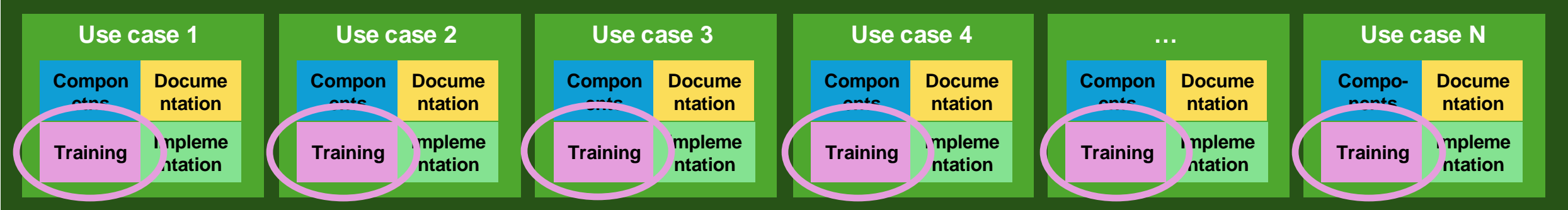
TA Components



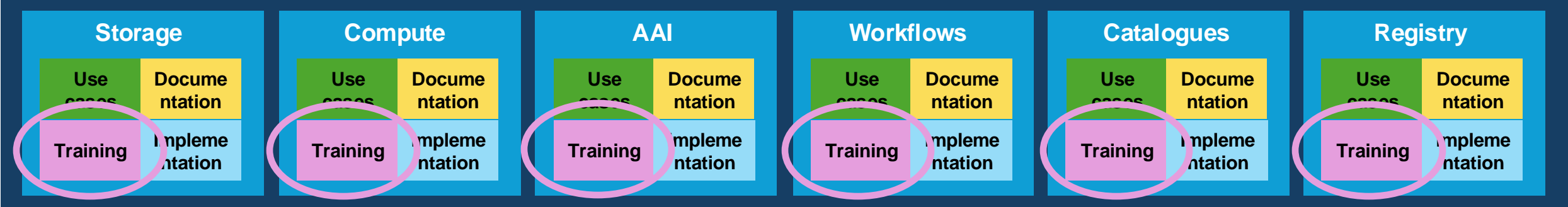
TA Management



TA Assembly



TA Components

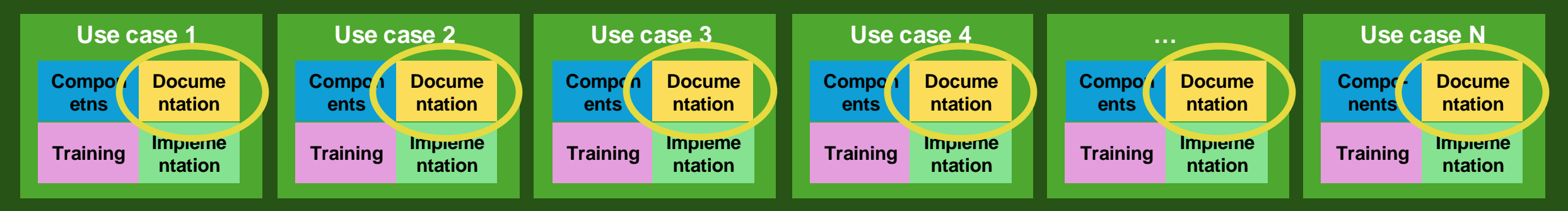


Also the “support” layer in the temple picture ...

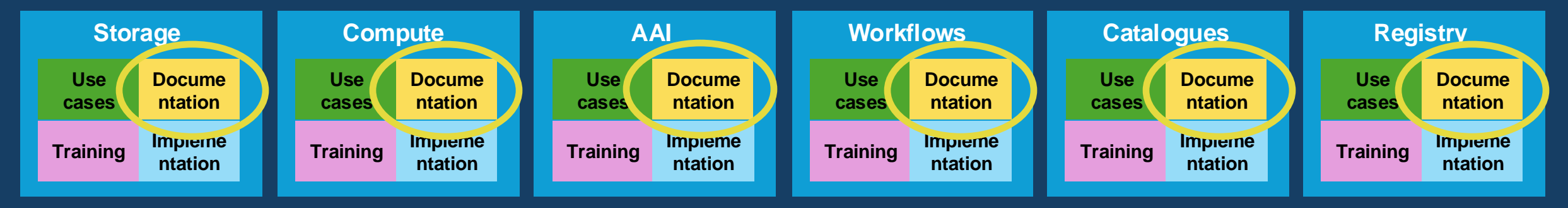
TA Management

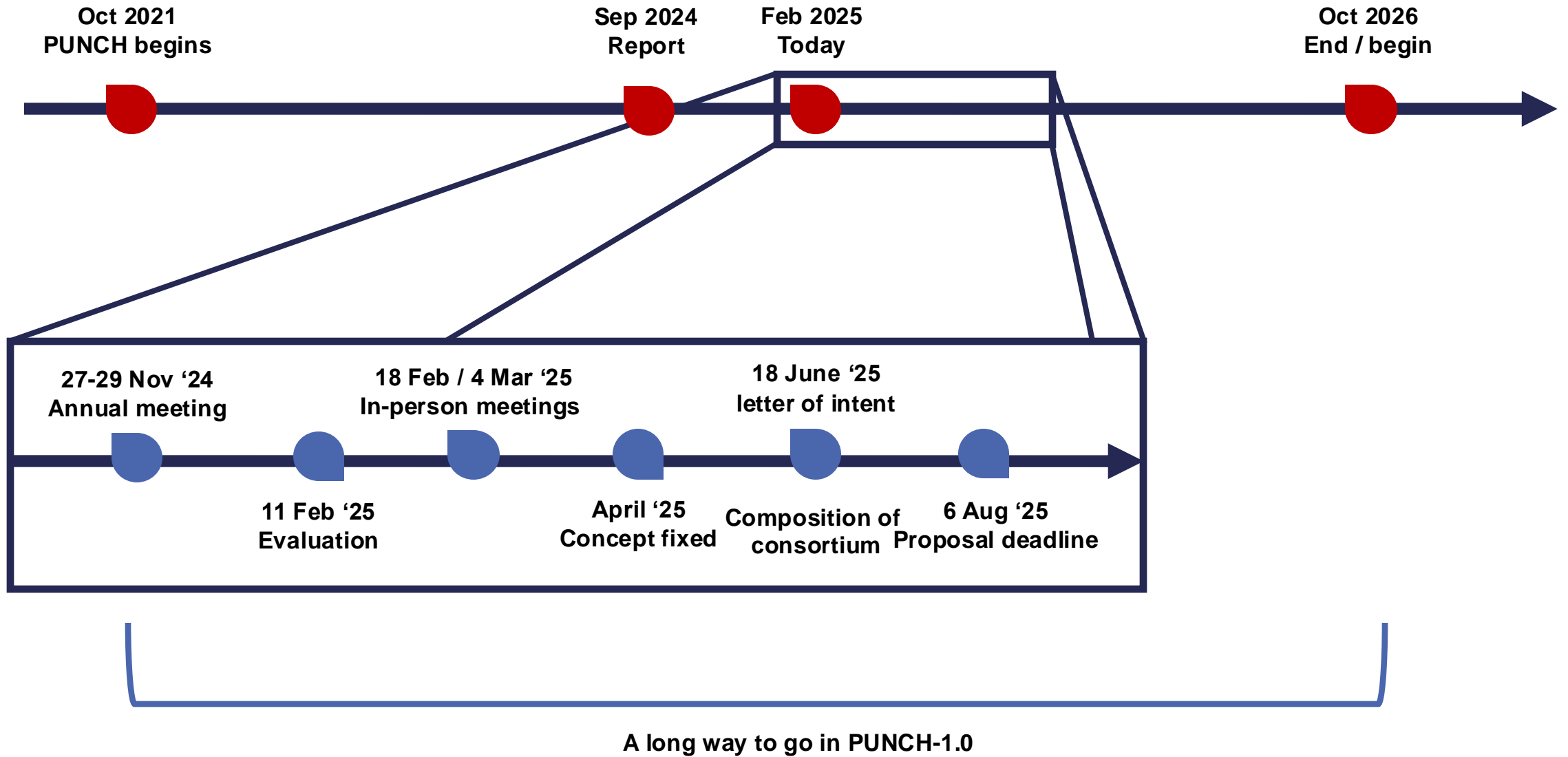


TA Assembly



TA Components





Hot of the press:



Kim Steele/DigitalVision/GettyImages

Next (12th) General Meeting:

Monday, 7 July 2025, 14-17 hrs