Particles, Universe, NuClei and Hadrons for the NFDI

PUNCH-2.0 Planning Meetings



April 2025

- Apr 23 PUNCH-2.0 proposal prep 5th meeting (hybrid, FIAS-Frankfurt)
- Apr 14 PUNCH-2.0 proposal prep 4th meeting (virtual)

March 2025

- Mar 18 PUNCH2.0 proposal prep 3rd meeting
- Mar 04 PUNCH2.0 proposal prep 2nd meeting

February 2025

Feb 18 PUNCH-2.0 proposal prep

Today

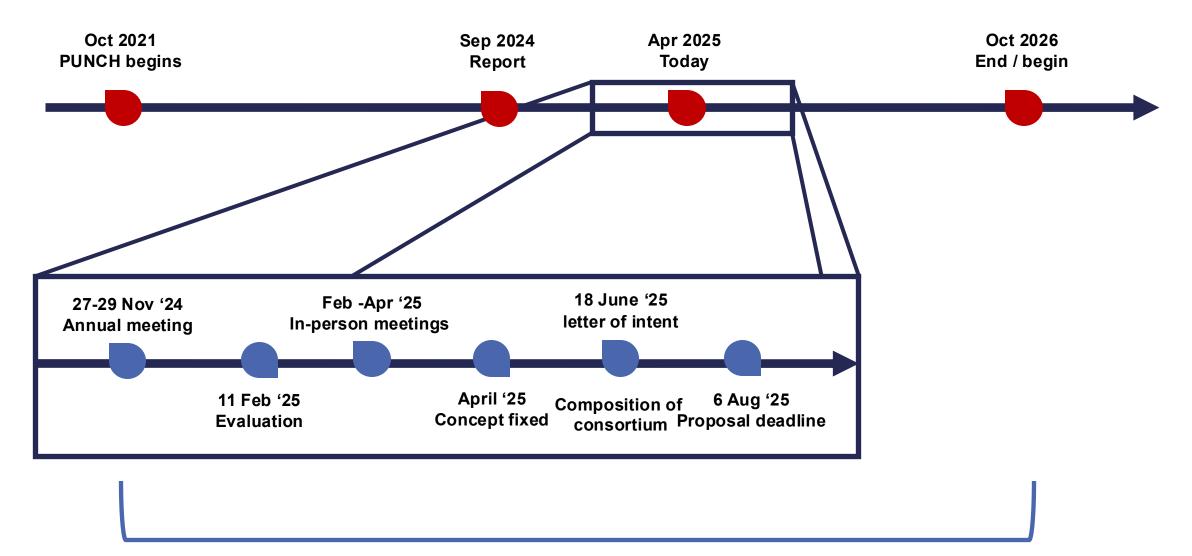
		📇 Print	PDF	Full screen	Detailed view	Filter
L0:00	Welcome, agenda, scope				Andrea	as Haungs et al
	Faculty Club (4th floor), FIAS					10:00 - 10:10
	Introduction and overview				Tł	nomas Schörne
	Faculty Club (4th floor), FIAS					10:10 - 10:30
	Coffee break					
	Faculty Club (4th floor), FIAS					10:30 - 10:45
	Speed dating use cases - component	s				
1:00						
0.00						
.2:00	Faculty Club (4th floor), FIAS					10:45 - 12:1
	Use cases scrutiny					
	Faculty Club (4th floor), FIAS					12:15 - 12:4
	Lunch					
L3:00						
	Franks Olish (4th flags) FIAO					10.45 10.00
	Faculty Club (4th floor), FIAS					12:45 - 13:30
	Use cases scrutiny					
	Faculty Club (4th floor), FIAS					13:30 - 14:00
.4:00	Coffee break					
	Faculty Club (4th floor), FIAS					14:00 - 14:20
	Components scrutiny					
L5:00	Faculty Club (4th floor), FIAS					14:20 - 15:15
	Wrap- up and next steps					
	Faculty Club (4th floor), FIAS					15:15 - 16:00

Next steps

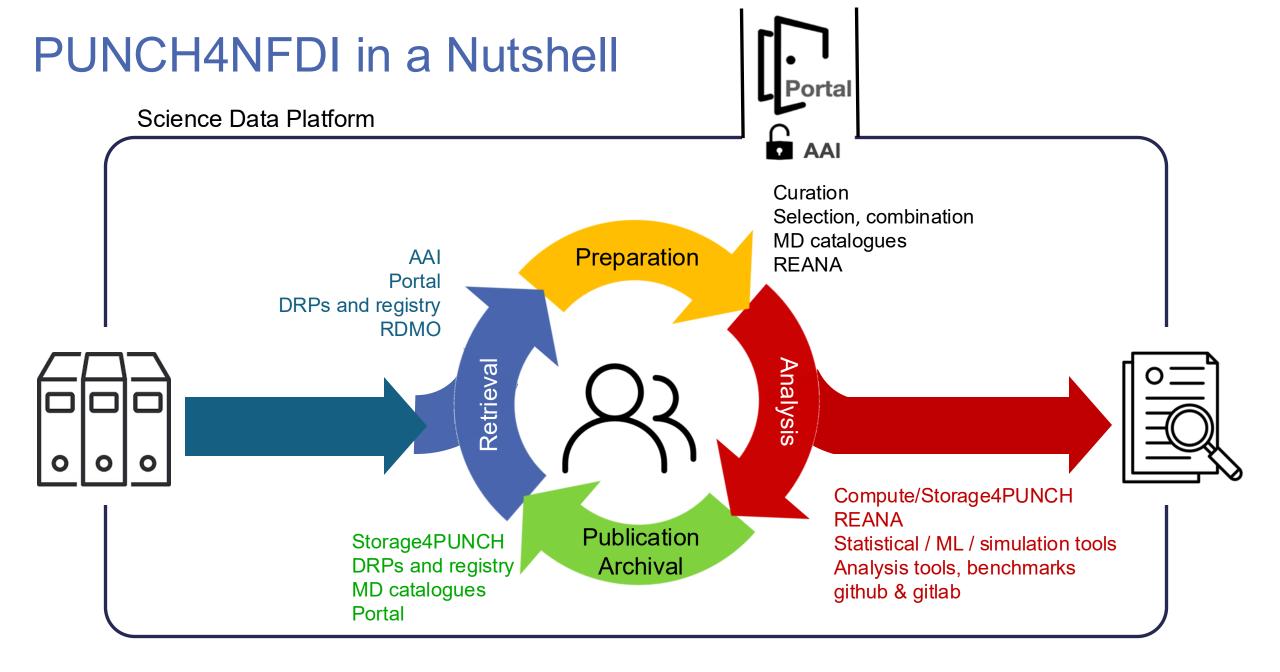
- Digestion of matrix (see later) \rightarrow extra EB on Friday
- Consolidation of future consortium composition: mid-May
 - Includes reaching out to participants
- Writing of LoI: by end of May essentially done by EB, but requires binding declarations from institutions
- Forming writing teams for proposal: mid-May
- First draft of proposal by end of June
- Proposal: in-person editorial meeting on Thursday 12 June maybe in Kassel

A word on my own behalf:

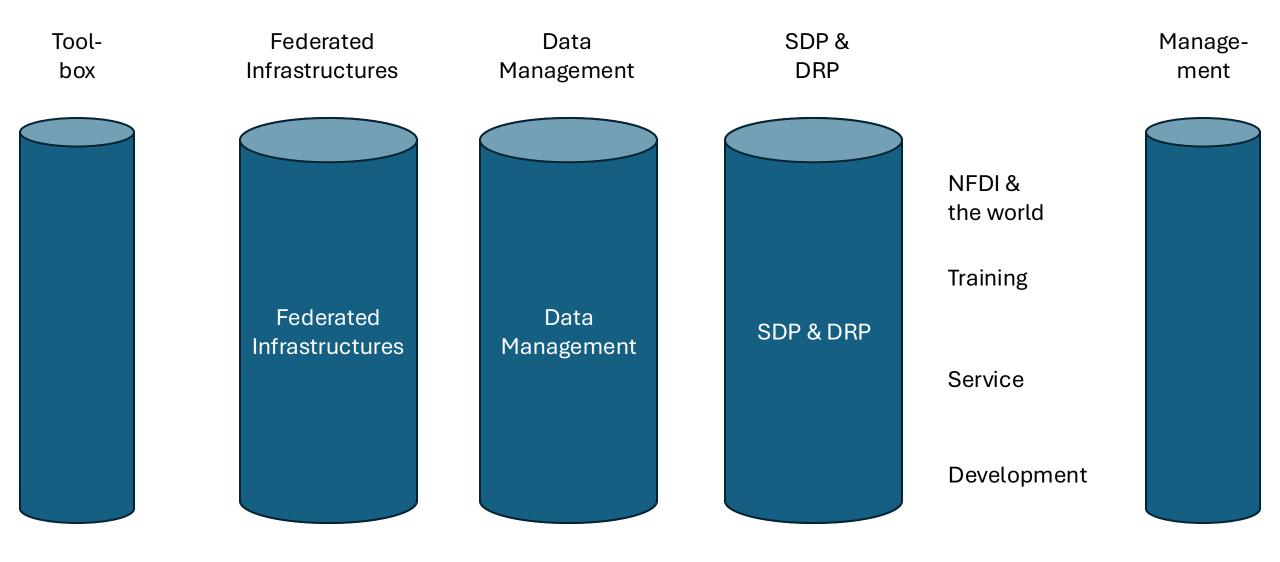
- I am pretty much driving this process, with semi-clear mandate.
- I have a very clear picture of what I consider useful and potentially successful, structurally, and I will ask the EB and, finally, the CB for support (use case and component selection).
- This entails reducing the number of coapplicants wrt PUNCH-1.0 and making a number of people unhappy.
- I fully accept being blamed for that and am prepared to take full responsibility

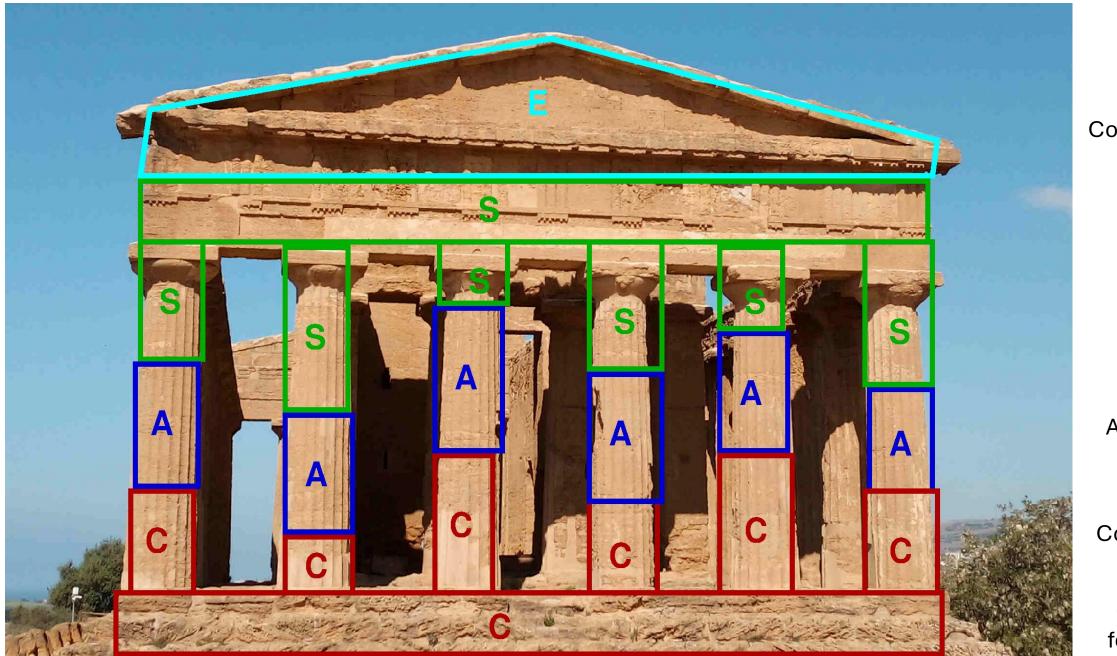


A long way to go in PUNCH-1.0



Pillars





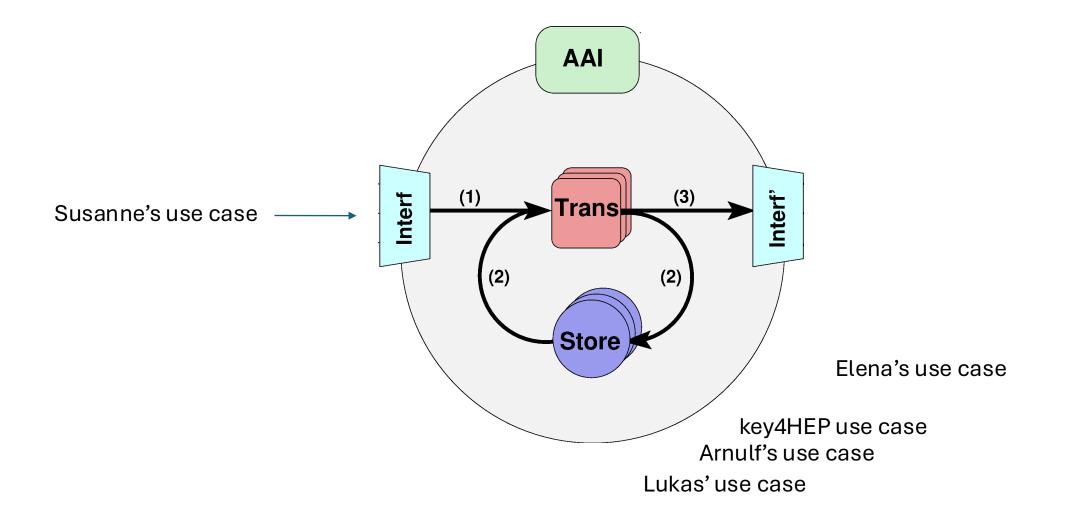
Connections

Support

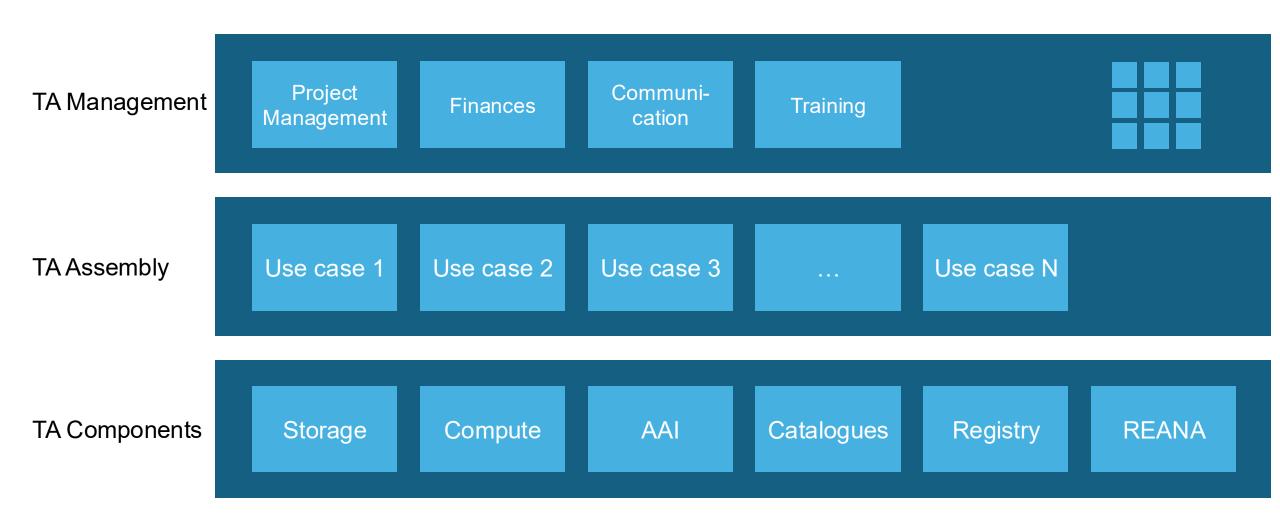
Assembly

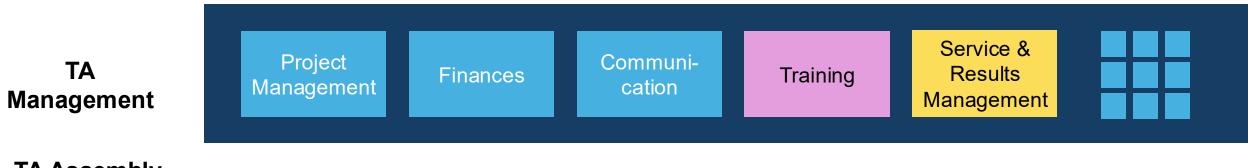
Components

Ground / foundation



Service Manager?





TA Assembly

Stor	age	Com	pute		A	AI	REA	NA	Catal	ogues		Regi	stry
Use cases	Docume ntation	Use cases	Docume ntation		se Ses	Docume ntation	Use cases	Docume ntation	Use cases	Docume ntation	I	Compo- nents	Docume ntation
Training	R&D	Training	R&D	Trai	ning	R&D	Training	R&D	Training	R&D	I	Training	R&D

TA Components

Storage Compu		pute	Т	A	AI	REANA			Catalogues			Registry		
Use Docume ntation		Use cases	Docume ntation	I	Use cases	Docume ntation	Use cases	Docume ntation	I	Use cases	Docume ntation	I	Use cases	Docume ntation
Training R&D		Training	R&D	I	Training	R&D	Training	R&D	I	Training	R&D	I	Training	R&D

FTE and funding overview

FTE costs

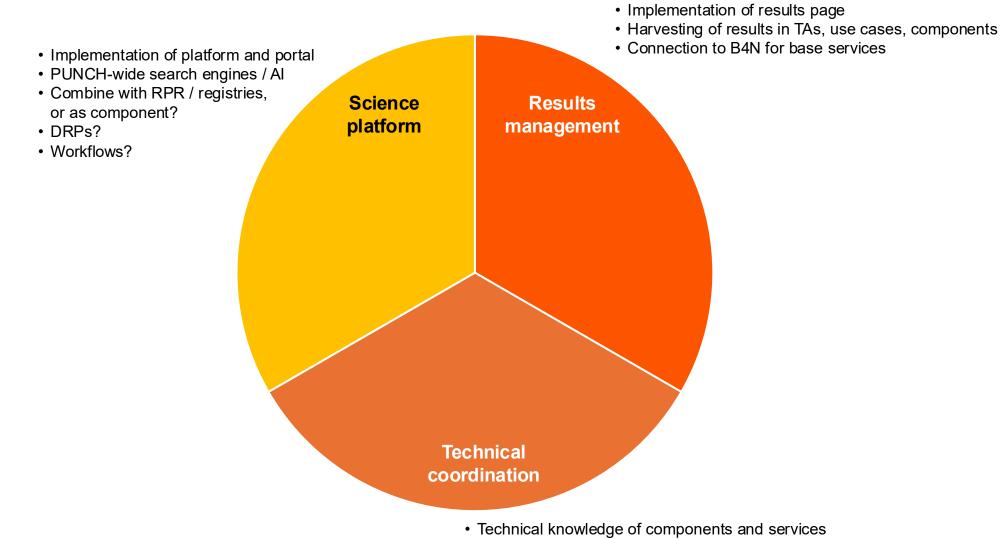
- DFG: 88k for a postdoc
- Our suggestion: 90-10k depending on seniority, and including travel money PUNCH: 95k

DFG funding

- To be included in proposal (no overheads): 3.9M/a / 88k = 36.8 FTE = 44.3 FTE
- Our planning (same reduction as in PUNCH-1.0): Assume 2.6M/a / 95k = 27 FTE

Project Manage- ment	 DESY (?) Overall management Guidance of all other central personnel 1 FTE
Finances	DESY0.3 FTE
Communi- cation, PR, User interaction	 Where? Distinction from results manager? 1 FTE (?)
Training	 Where? Relies on inputs from / connections to blue and green boxes 1 FTE (distributed?)

- EB: Uncontroversial
- In sum 3-4 FTE



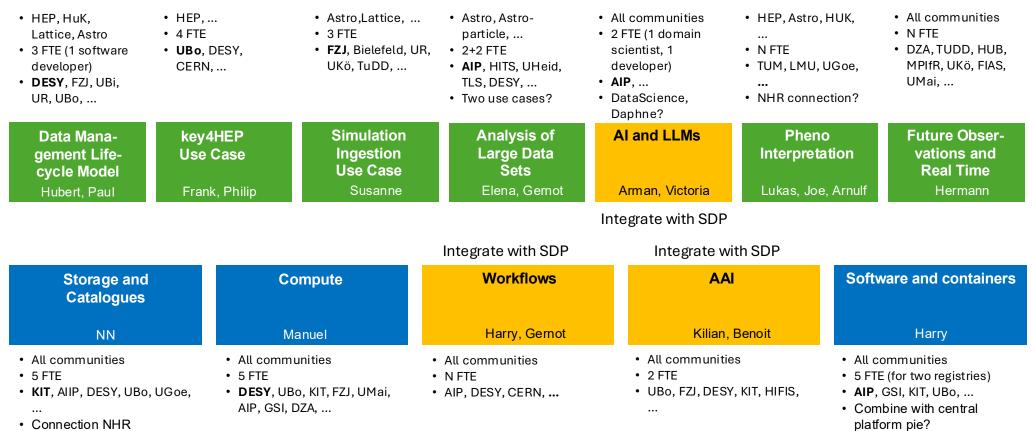
- EB: Uncontroversial but see next slides ٠
- Collectively ~6 FTE with some tasks from ٠ components (see next slide)?

- Resources for implementation of changes to existing components and services
- Resources for contributing to the interfacing of components and services for use cases
- Integrated with use case personnel? Component personnel?

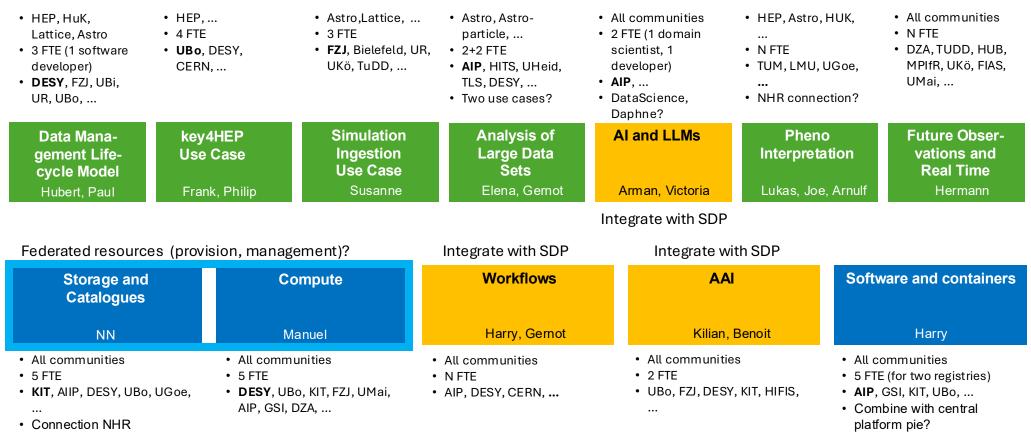
 HEP, HuK, Lattice, Astro 3 FTE (1 software developer) DESY, FZJ, UBi, UR, UBo, 	 HEP, 4 FTE UBo, DESY, CERN, 	 Astro,Lattice, 3 FTE FZJ, Bielefeld, UR, UKö, TuDD, 	 Astro, Astro- particle, 2+2 FTE AIP, HITS, UHeid, TLS, DESY, Two use cases? 	 All communities 2 FTE (1 domain scientist, 1 developer) AIP, DataScience, Daphne? 	 HEP, Astro, HUK, N FTE TUM, LMU, UGoe, NHR connection? 	 All communities N FTE DZA, TUDD, HUB, MPIfR, UKö, FIAS, UMai,
Data Mana- gement Life- cycle Model Hubert, Paul	key4HEP Use Case Frank, Philip	Simulation Ingestion Use Case Susanne	Analysis of Large Data Sets Elena, Gernot	Al and LLMs Arman, Victoria	Pheno Interpretation Lukas, Joe, Arnulf	Future Obser- vations and Real Time Hermann

Storage and Catalogues	Compute	Workflows	AAI	Registries
NN	Manuel	Harry, Gernot	Kilian, Benoit	Harry
 All communities 5 FTE KIT, AIIP, DESY, UBo, UGoe, Connection NHR Connection with registry? 	 All communities 5 FTE DESY, UBo, KIT, FZJ, UMai, AIP, GSI, DZA, 	 All communities N FTE AIP, DESY, CERN, 	 All communities 2 FTE UBo, FZJ, DESY, KIT, HIFIS, 	 All communities 5 FTE (for two registries) AIP, GSI, KIT, UBo, Combine with central platform pie?

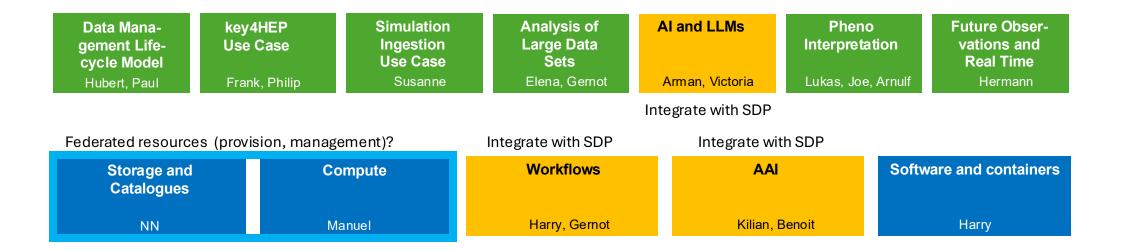
- NOT uncontroversial see next slide(s)
- Summed here: 33++ FTE plus several times N FTE, plus 9-10 on slides before → about 12 too many
- But: overlap between the various green and blue boxes?
- Funding profile? Timeline of use cases / components? Assumption: use cases for 2 years with 1 FTE!



• Connection with registry?

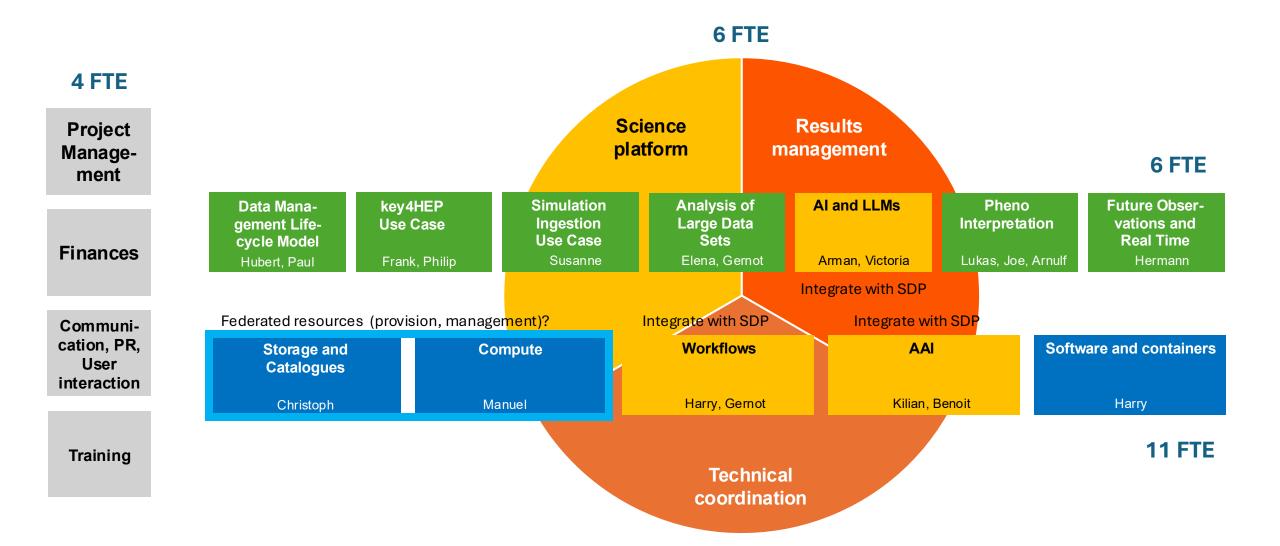


• Connection with registry?

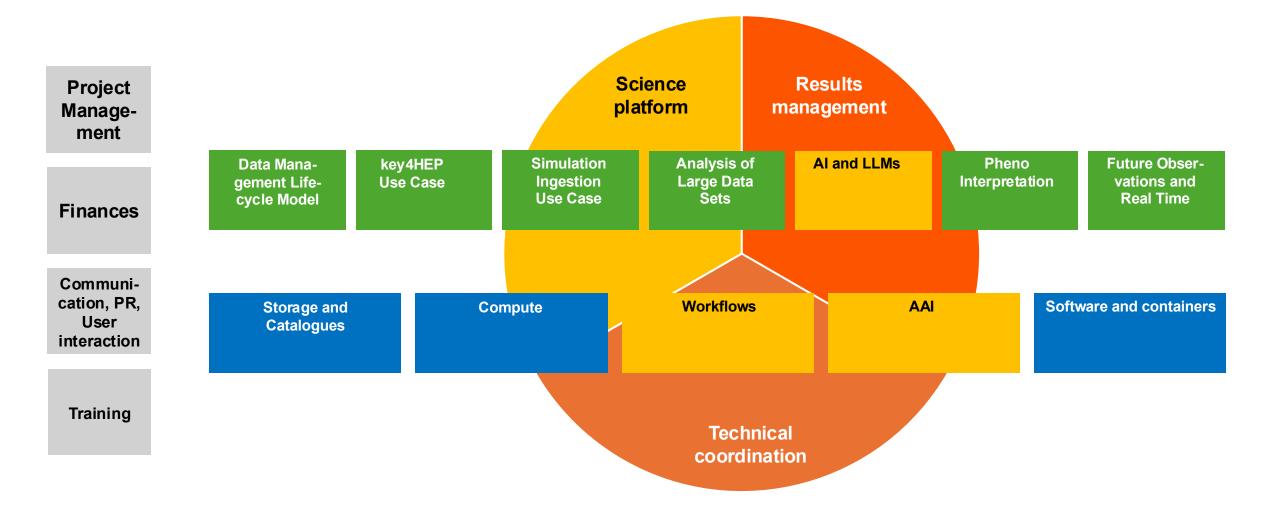


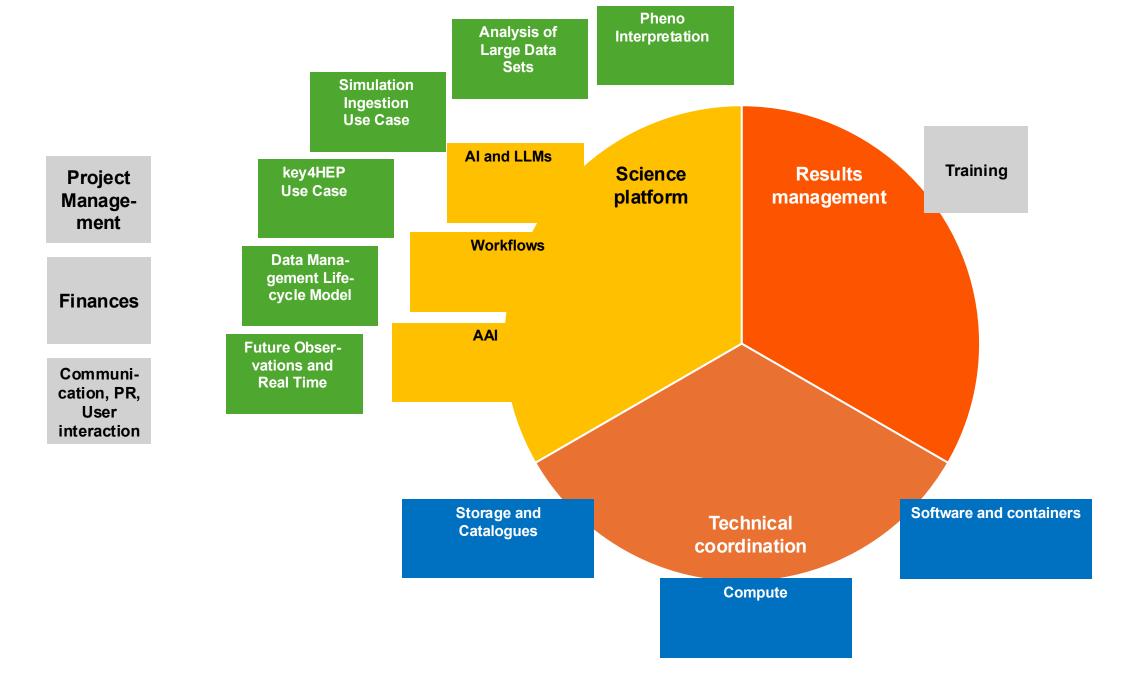
	INSTRUCTIONS	İ				
Storage, catalogues, DRP registry	 UC needs from the component: which work? Distinction must have (A) - nice to have (B)? UC needs from the component: FTEs? Component contribution: institutions? Component contribution: timeframe - ready by when? Connection to NFDI and base services? 					
Compute						
Workflows						
AAI			- Component needs / wishes not covered in UC implementation?			
Software, container (registry)		_	 Category A (must have) and category B (nice to have) FTE needs Timeline - ready when?> FTE profile? Why to be done - even if not required by any UC? Institutions? 			
	- UC needs in FTE NOT in components work?		- Base services than can be derived?			
	- UC ready when? ASSUMPTION 2-3 YEARS! - UC institutions NOT involved in components work?		- Role for technical coordination?			
	- Base services to be derived?		- Role of Platform in pie chart?			
	- Role of Platform in pie chart?					
	 Coordination needs with other components? 					

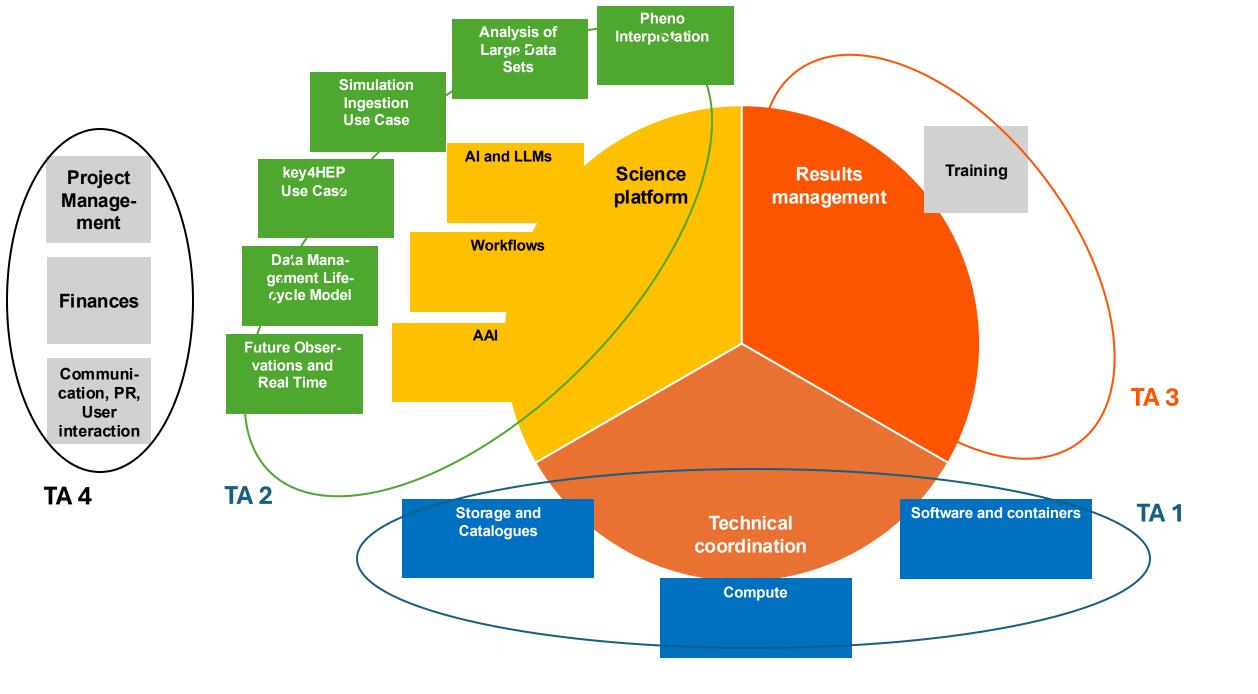
https://docs.google.com/spreadsheets/d/1sZibXvulfTspJtIS3-6_3Z6ZqREjhMPbMqudPjbvk3c/edit?usp=sharing

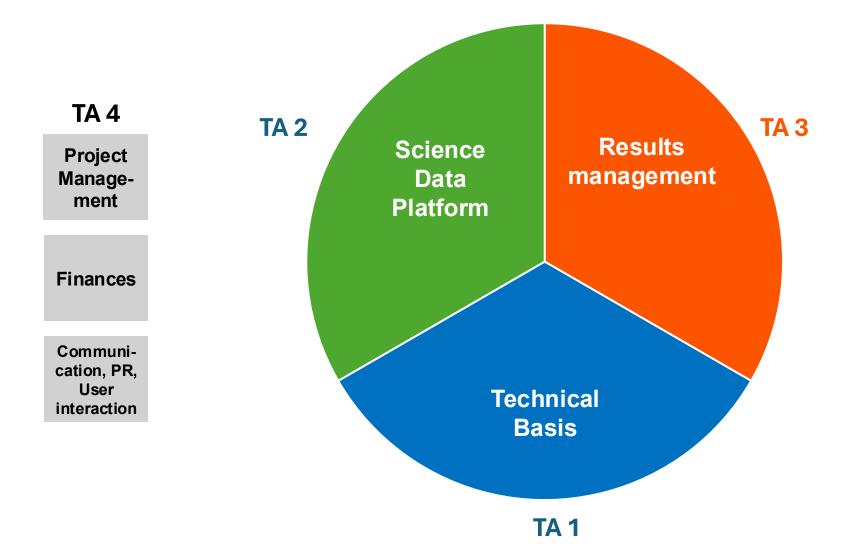


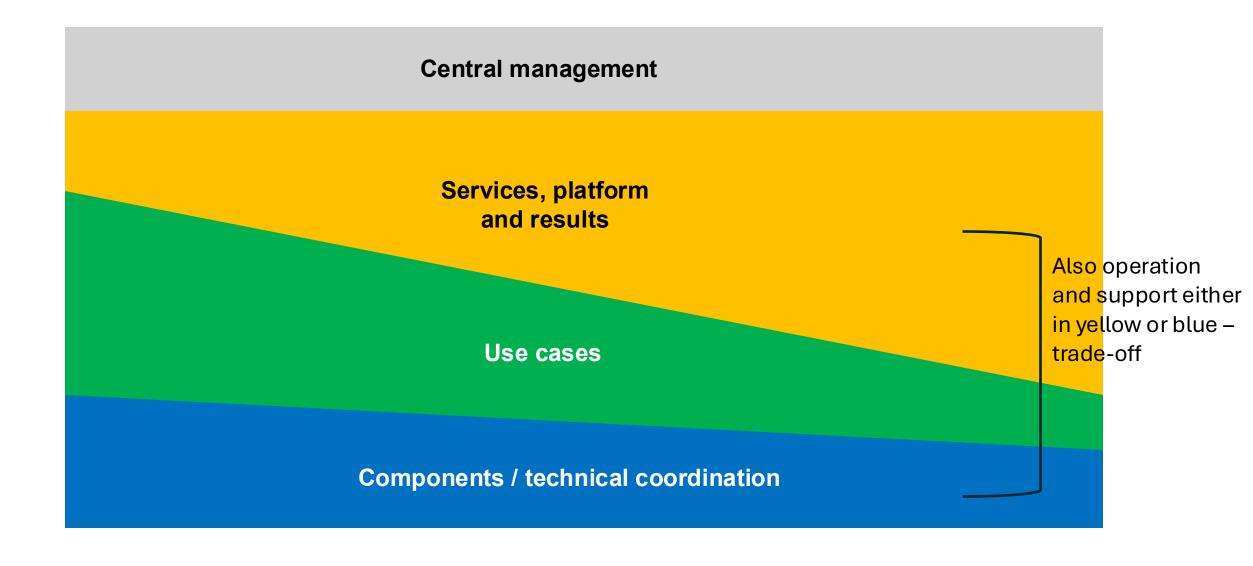
- Sum 27 FTE might be realistic. Optimistic scenario: 35 FTE?
- Question of flexfunds?











2026 2027 2028 2029 2030 2031

Next steps

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- Consolidation of future consortium composition: mid-May
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Homework

- Give meaningful names to all boxes
- Filling in matrix at least for UC and component summaries incl A-B and FTEs
- Descriptive text snippets for all boxes
- List of deliverables and their times per box