

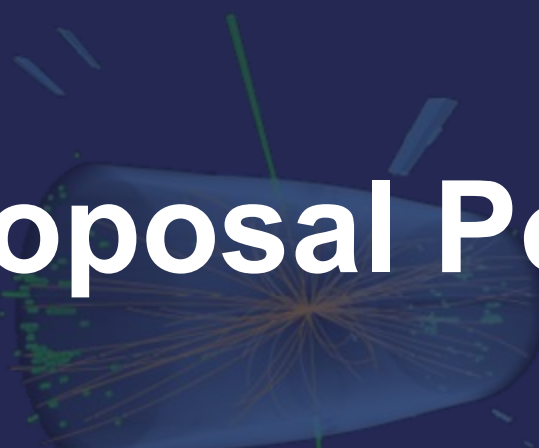
Particles, Universe, NuClei and Hadrons for the NFDI

A consortium in the NFDI

PUNCH-2.0 Proposal Writing Post-Mortem
Transitioning PUNCH-1 → PUNCH-2.0
24 October 2025



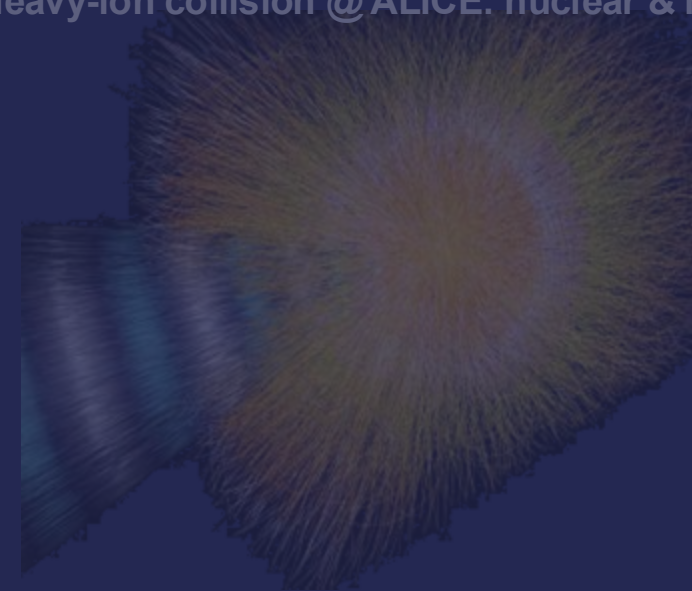
Part 1: Proposal Post-Mortem



CMS experiment @ CERN: particle physics

A visualization of the CMS experiment at CERN, showing a blue cylindrical detector structure with a complex network of orange and green lines radiating from a central point, representing particle tracks.

IceCube experiment: astroparticle physics

A visualization of the IceCube experiment, showing a series of vertical, colorful, cone-like structures representing neutrino detection patterns in a dark environment.

Heavy-ion collision @ ALICE: nuclear & hadron physics

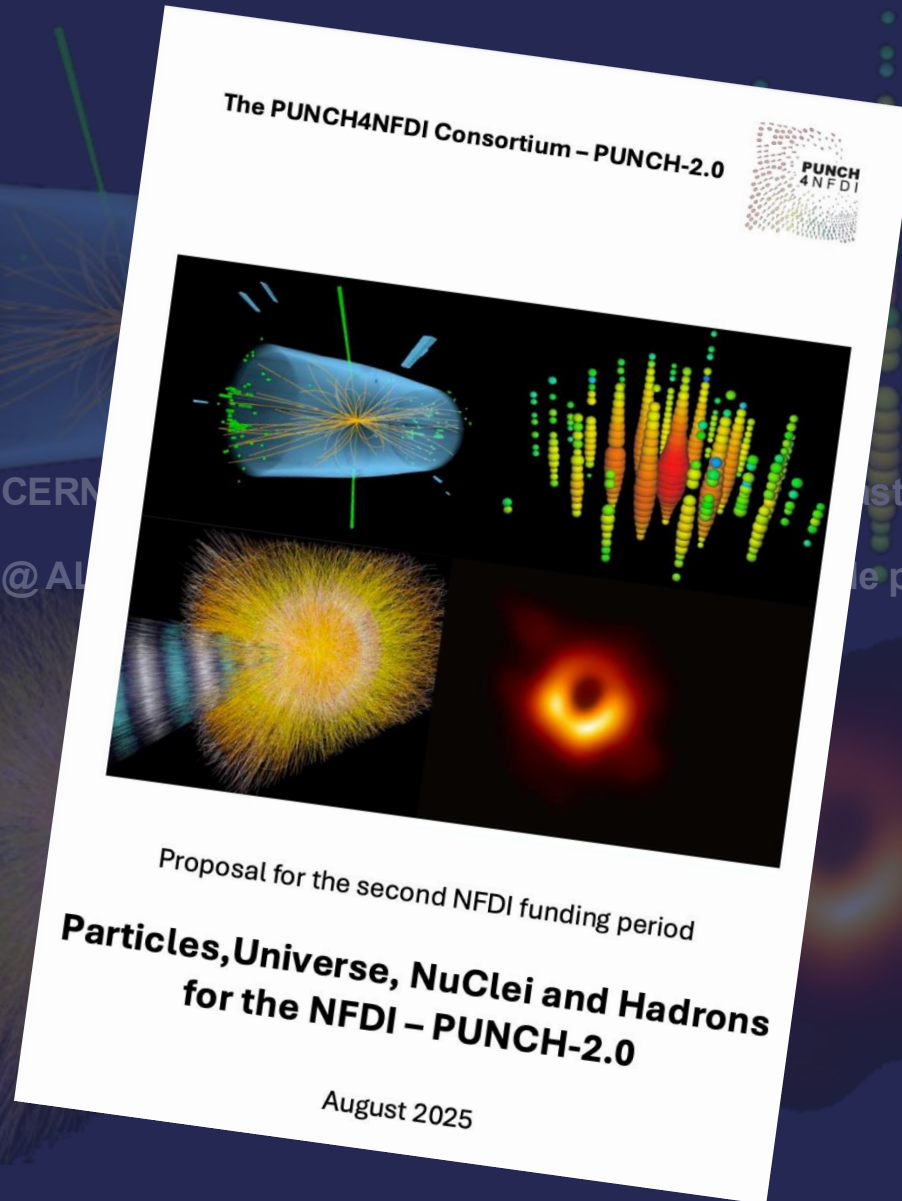
A visualization of a heavy-ion collision at the ALICE experiment, showing a dense, textured, golden-brown cloud of particles with a blue and white striped pattern on the left side.

Black hole picture: astronomy

A visualization of a black hole, showing a dark, irregular shape with a bright, glowing orange and yellow ring around a central black point, representing the event horizon and accretion disk.

Writing Our Proposal: Post-Mortem

- What went well?
- What annoyed you?
- What important contents did not make it into the proposal?
- Suggestions for a better-organised process?
- “What I always wanted to say!”
- ...



CMS experiment @ CERN

Heavy-ion collision @ ALICE

astroparticle physics

the picture: astronomy

Transition P1→P2

Organisationally / governance → “easy” (second part of meeting). Points to consider:

- Governance / bodies
- Representation in NFDI
- Better keeping track of PUNCH personnel
- Formalisation of processes (hiring, publications, services, NFDI, ...)
- Broader distribution of central PUNCH responsibilities
- ...

CMS experiment @ CERN: particle physics

IceCube experiment: astroparticle physics

Heavy-ion collision @ ALICE: nuclear & hadron physics

Black hole picture: astronomy

Work-wise: Much more complicated ...

- ...

Spring Workshop(s)

When? Where? How? How many? ...

Idea: get together in depth and with sufficient time to shape the new start of PUNCH-2.0.

- Consolidation of work programme
- In-depth interaction esp. of technical foundation (TA 1) with use cases (TA 2)
- Including FTE planning (which FTE fraction from which institution maps to which deliverable?)
- Also: discussion of procedures (services, results, publications, connections to NFDI etc.,...)
- ...

CMS experiment @ CERN: particle physics

IceCube experiment: astroparticle physics

Current idea:

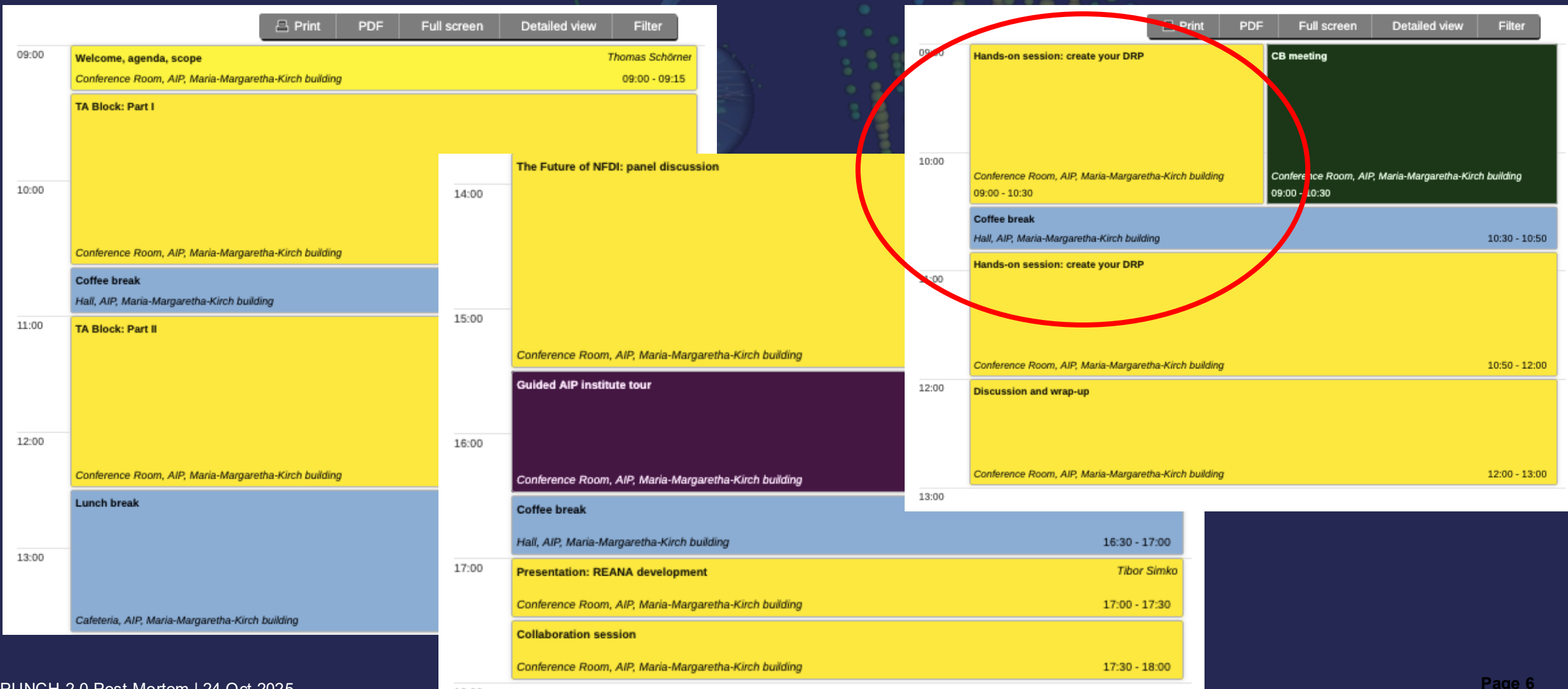
Heavy-ion collision @ ALICE: nuclear & hadron physics

Black hole picture: astronomy

- One 3 days lunch-to-lunch workshop with “everybody” (Monday – Thursday?)
- Some location – volunteers for organization?
- Workshop-style with many parallel discussion threads
 - In particular: direct exchanges technical foundation TA1 and use cases, and SDP (WP2.1) and use cases
- ...

Teaser: Annual Meeting and DRP “Hackathon”

Annual meeting @ AIP Potsdam 19/20 November → register: <https://indico.desy.de/event/48557/>



Part 2: Organisational Issues

- Guidelines
- Governance
- Coordination Committee
- Consortium agreement
- Evaluation presentation

CMS experiment @ CERN: particle physics

IceCube experiment: astroparticle physics

Heavy ion collision @ ALICE: nuclear & hadron physics

Black hole picture: astronomy

Guidelines for PUNCH-2.0 Work

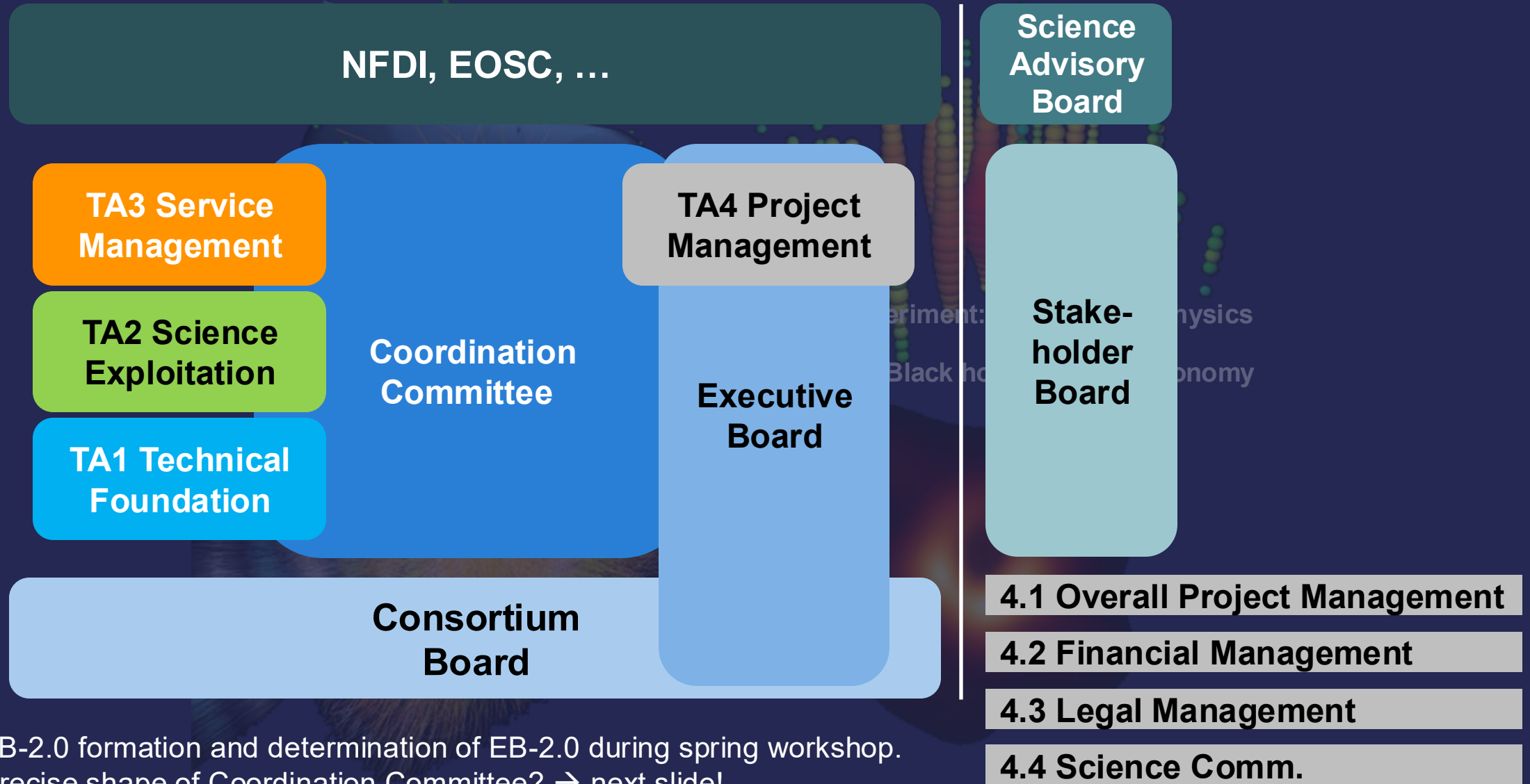
Suggestion: Create clearer guidelines for the internal organization of PUNCH-2.0 work

- Recruiting procedure
- Integration of personnel into the consortium and the NFDI work
- Tracking of FTE fractions and their contributions to deliverables
- Definition of and procedures for PUNCH publications
- Definition of and procedures for PUNCH services (and other categories of services)
- Definition of core consortium responsibilities and their distribution among partners
- AUPs
- Filling of “management” posts in consortium: EB, TA leads, WP leads
- ...

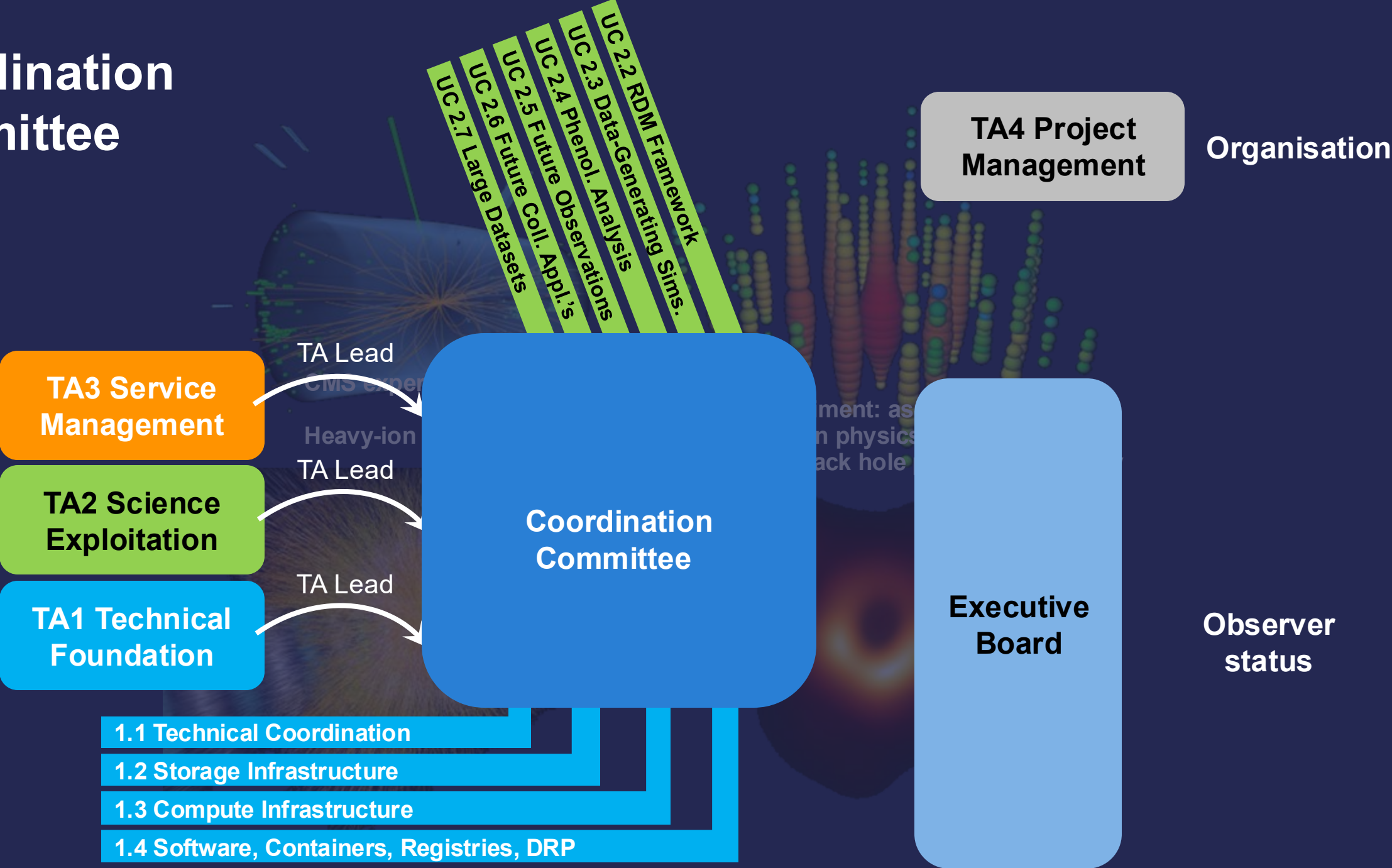
Some of these issues need to be addressed in the new PUNCH-2.0 contract → legal work starting, stay tuned!

Proposal: Build small teams among (mostly) PUNCH-2.0 co-applicants++ to draft guidelines on these issues
→ Volunteers now?

PUNCH-2.0 Governance and Timeline



Coordination Committee



Consortium Agreement Issues

Assumption: use “old” PUNCH-1 agreement as basis (checked for this purpose by DESY legal)

→ to be distributed for rough feedback in due time

Issues to be clarified (incomplete list)

- Validity of contract only until end of BLV validity (12/2028)? Include clause for automatic prolongation?
- Validity of contract even if NOT all co-applicants have signed!
- Inclusion of new partners by applicant signature alone?
- Include rules and regulations on commitment and reporting duties of individual parties. Refer to guidelines on e.g. recruitment, responsibilities for deliverables, involvement in NFDI etc. (reference to appendices etc.)
- Preparation of “Weiterweiterleitung” to receiving participant institutions

DFG Evaluation 13 November in Bonn

Christiane Schneide



Thomas Schörner



Olaf Kaczmarek



Elena Sacchi



Andreas Haungs



13. November 2025	
08.45 – 09.00	Ankunft der Konsortien (15 min)
09.00 – 12.55	Präsentation der Konsortien und Diskussion mit der Begutachtungsgruppe
09.00 Uhr	MaRDI
	Begrüßung (5 min), Präsentation (20 min) und Diskussion des Antrags (40 min), abschließende Kommentare (5 min)
10.10 Uhr	Kaffeepause
10.30 Uhr	NFDI4DS Begrüßung (5 min), Präsentation (20 min) und Diskussion des Antrags (40 min), abschließende Kommentare (5 min)
11.45 Uhr	PUNCH4NFDI Begrüßung (5 min), Präsentation (20 min) und Diskussion des Antrags (40 min), abschließende Kommentare (5 min)
12.55 Uhr	Gemeinsames Mittagessen (30 min) + Postersession (60 min)

Rehearsals: 29 Oct and 5 Nov 12:30 in EB framework.
Feedback today is great - will work on wording on 5hrs
train ride later today.

DFG Evaluation 13 November in Bonn

Reviewers:

Dr. Juan Bicarregui
Daresbury Laboratory
STFC Daresbury Laboratory
Keckwick Lane

Cheshire WA4 4AD
United Kingdom

Privatdozent Dr. Andreas Enge
Université de Bordeaux
Institut de Mathématiques de Bordeaux (UMR
5251)
351, cours de la Libération
33405 Talence
France

Dr. Carlo Ferrigno
University of Geneva
Department of Astrophysics
Rue du Général Dufour 24
Genf 4
Switzerland

Dr. Anelia Kurteva
University of Birmingham
Edgbaston
Birmingham B15 2TT
United Kingdom

Dr. Damien Lecarpentier
CSC - IT Center for Science Ltd.
P.O. Box 405
02101 Espoo
Finland

Fatemeh Nargesian, Ph.D.
University of Rochester

Rochester NY 14627
USA

Jennifer Scott
University of Reading
PO Box 217 / Whiteknights
Reading RG6 6AH
United Kingdom

Professor Dr. Stefan Söldner-Rembold
The University of Manchester
School of Physics and Astronomy
Oxford Road
Manchester M13 9PL
United Kingdom

Members of the Committee of Experts:

Professor Dr. Sascha Brune
GFZ Helmholtz-Zentrum für Geoforschung
Department 2
Sektion 2.5: Geodynamische Modellierung
Telegrafenberg
14478 Potsdam

Professor Dr.-Ing. Lucio Colombi Ciacchi
Universität Bremen
Fachbereich Produktionstechnik
Conrad Naber Stiftungsprofessur
Grenzflächen in der Bio-Nano-Werkstofftechnik
Am Fallturm 1
28359 Bremen

Professor Dr.-Ing. Urs Peuker
Technische Universität Bergakademie Freiberg
Institut für Mechanische Verfahrenstechnik und
Aufbereitungstechnik
Agricolastraße 1
09599 Freiberg

Professor Dr.-Ing. Andreas Rauber
Technische Universität Wien
Fakultät für Informatik
Institute of Information Systems Engineering
(ISE)
Favoritenstrasse 9-11
1040 WIEN
Österreich

Dr. Sönke Zaehle
Max-Planck-Institut für Biogeochemie (MPI-
BGC)
Hans-Knöll-Straße 10
07745 Jena