The PUNCH4NFDI Consortium

Particles, Universe, NuClei and Hadrons for the NFDI

TA7.WP1 Talk, Baida Achkar [GAU]

[TA7 Monthly Meeting, 13.12.2023]

CONTENT

- **PUNCH4NFDI 4th Quarterly Report, TA7.WP1 entries**
- **DFG NFDI Interim report, initial notes for TA7 entries**

4th 2023 Quarterly PUNCH report / TA7.WP1
1 July - 31 December 2023

- **Formal:** Baida Achkar (U Göttingen) has replaced Kevin Kröninger (TU Dortmund) as Task Area 7 co-lead.
- **Highlights:**
  - ***July 6-7 training:*** **PUNCH Young Academy PYA** organized and offered Professional Git and Clean Code 1+1/2-day online training. Material stored @GitLab repository + Certificates prepared, signed and distributed to participants (6), Feedback through survey for improvement purposes.
  - ***October 11 training:*** PYA organized and offered 1-day hybrid training (Munich + Online) on PUNCH tools & services: (JupyterHub, Pyhf, BAT.jl and SciTraceWeb". Access to material through event indico page, 11 participants.
  - ***October 12:*** Presenting WP1 2023 at PUNCH AM. PUNCH AM Munich 12.10.
  - ***October 13:*** **Poster** presenting at PUNCH AM/poster session to promote PYA offers and activities.
  - ***October 18:*** Presenting and discussing TA7 activities and plans for 2024 at PUNCH EB meeting.
- **Published service:**
  - ***PYA / one-to-one mentoring service- round 2023:*** Providing active Mentor-Mentee tandems with guidelines and useful links to facilitate productive/fruitful mentoring meetings/discussions. Information about PYA services/offers + forms through: intra.punch4nfdi/TA7/WP1/PUNCH-Young-Academy page.
- **Work in progress:**
  - **Market survey** on potential platforms to host training materials offered by PYA.
  - **PYA trainings/workshops/services program for 2024.**

DFG NFDI Interim Report

Initial notes for TA7 entries

- Link to the DFG NFDI template
- Must be submitted to the DFG Head Office in PDF format via elan.dfg portal
- 2 Editable documents (B-1, B-2) prepared and shared by Christiane: https://syncandshare.desy.de/index.php/s/QcyzcGgtgNH7TxD

B-1 Progress Report Part 1 (public)

1. General Information

2. Summary... {main results and notable success stories}

3. Composition of the Consortium (Checked)

DFG NFDI Interim Report

Initial notes for TA7 entries

B-2 Progress Report Part 2 (for Internal Use: NFDI Expert Committee, DFG Head Office and NFDI Directorate)

1. **Consortium. 5 Subheadings, 1.1 and 1.2 relevant to TA7**
2. **Research Data Management Strategy. 5 Subheadings, 2.1 and 2.4?? relevant to TA7**
3. **Additional Aspects {Can/should be addressed @Consortium level}**
4. **Spending of Funds {Can/should be addressed @Consortium level}**

B-2/1 Consortium

Changes of the consortium with respect to the partners {(co-)applicants and participating institutions and persons } , —> To be addressed@Consortium level

1.1 Composition of the Consortium and its Embedding in the Community of Interest

Integration of communities of interest, relevance for the research system

White Paper: Interim Report Reference recommended by DFG to address this section.

https://zenodo.org/records/7688729. ***Table 1 gives examples on how to interact with communities.***

Communities: PUNCH4NFDI addresses research areas: 309, 311 (from Physics subject area), all NFDI Consortia are part of the RDM community according to the DFG Classification of Subject Areas and Review Boards (2020-2024)

https://www.dfg.de/download/pdf/dfg_im_profil/gremien/fachkollegien/amtsperiode_2020_2024/fachsystematik_2020-2024_en_grafik.pdf

- ✓ By which procedures **have communities of interest been given an active role in the consortium?**
- ✓ How have the **needs of the communities been identified** and how has the consortium reacted to changing needs?
- ✓ Which **benefits the consortium has generated for the communities**

- ✓ **Communities active roles: Governance** (to be addressed@Consortium level), **Participatory network:** Provision and joint creation of data, codes and services, joint organization and participation in recurrent events,.., **Recipient:** Community=Audience of interest, usage of tools and services offered by the consortium.

Example to answer questions: to successfully get involved within the community, a focus on identifying punch young professional needs [Tab.1: goal/benefit] has been put. Survey and meetings [Tab.1: community engagement approach + action] are methods used in this regards. Addressing needs has been launched via several training and services coordinated by the Young Punch Academy [Tab1: measure]. 2 examples can be cited highlighting the communities active roles:

- ✓ *The one-to-one mentoring service: Established Principal Investigators PIs from the punch4nfdi communities are involved as mentors (Community as participatory network), while the service is open to early-stage punch communities scientists who seek support in actual or future career plans (Community as recipient)*
- ✓ *Training/teaching material offered to scientists in training events such as data, codes, tools and services are jointly created/provided [measure] by the consortium and the respective communities [community engagement] . Cern hep open data, Pyhf framework, JupyterHub service are examples among many others. (Community as participatory network)*

B-2/1 Consortium

White Paper: Interim Report Reference recommended by DFG to address this section.

https://zenodo.org/records/7688729. ***Check Table 2 and 3 give an overview of collaborative work attributes and examples.***

1.2 PUNCH4NFDI within the NFDI

Collaborative work within NFDI
Collaboration attributes:
By Domain-Coverage: Sections are the broadest collaboration within NFDI. What are cross-cutting topics discussed there?. What are achievements?, ...
Example: Training and Education Section.

By Frequency and/or Duration??

By Output (MoU, White Paper, Publication, Workshop,..)

Would it be helpful if someone could respond to this section at the next meeting?

B-2/2 Research Data Management Strategy

Please refer to punch proposal and/or to PUNCH-7-short.docx attached to the TA7 first meeting agenda to respond to the below-questions.

2.1
Scientific relevance and quality of measures

How successful has the implementation of the planned measures been?
How has progress related to the time-line sketched in the proposal?
What deviations from or reorganization of the work program became necessary?
What relevance do the implemented measures have for the community?
Example: Training Experts Measures coordinated by PUNCH Young Academy.

Measure	Progress	Relevance for the community
Training in the application of the tools and practices developed within PUNCH4NFDI	– 1 online and 2 in-person trainings on tools and services used by / developed within punch consortium offered in 2023 in the context of PUNCH Young Academy. – Draft 2024 training program under development and several technical punch-labeled trainings are foreseen	– Provide young punch scientists with access to expertise , to methods, to tools and relevant training resources related to Data Science and RDM in the context of the physics research – A particular emphasis of the training contents is drawn to the tools and modern software in the world of Big Data and FAIR science
Establishing **PUNCH Young Academy** that offers career-development support to scientists with non-permanent contracts	2023: Setting-up of a one-to-one mentoring program: proposal + forms —> approval —> identifying mentors (PIs) —> launch 1st round (12 Months) in March 2023. Details through: PUNCH-Young-Academy-Offers	– Accompany early-stage-career scientists through this phase of their career. – The one-to-one relationship between a mentee and an experienced mentor enables an exchange of ideas and experiences, which in this phase of the mentee career can provide orientation and support not only at work level but also in life.

B-2/2 Research Data Management Strategy

White Paper: Interim Report Reference recommended by DFG to address this section.

https://zenodo.org/records/7688729. ***Check Tables 5 and 6 give examples on service categories and components***

! Distinguish clearly between services that consortium members provide as part of their institutional mission(Grundaufgaben) based on existing funding, and new services that have been established within the NFDI framework.

2.4
Services provided by the consortium??

"A service in NFDI is understood as a technical-organizational solution, which typically includes storage and computing services, software, processes, and workflows, as well as the necessary personnel support for different service desks".

Hint: A Standalone training for self-study can be considered a technical service (usually a web application), this includes materials designed for education in all fields of research data management.

Backup

TA7-WP1 Deliverables

Deliverables:

D-TA7-WP1-1 (30 Sep 2026): Preparation of online and in-person courses and workshops including hands-on sessions with broad scope or topical workshops geared towards the PUNCH4NFDI specific developments.

D-TA7-WP1-2 (30 Sep 2024): Establishment of the PUNCH4NFDI Young Academy including regular events and courses.

D-TA7-WP1-3 (30 Sep 2025): Development of a special programme and specific courses geared towards female scientists.

D-TA7-WP1-4 (30 Sep 2024): Critical review of the measures developed and development of a feedback system to guide education and training.

D-TA7-WP1-5 (30 Sep 2026): Documentation and long-term archiving of training material, the service documentation and tool descriptions in coordination with the TIB Hannover.