Particles, Universe, NuClei and Hadrons for the NFDI

A consortium in the NFDI.



TA 4: Report

PUNCH Gen. Meeting, 07.07.2025

H. Enke, AIP

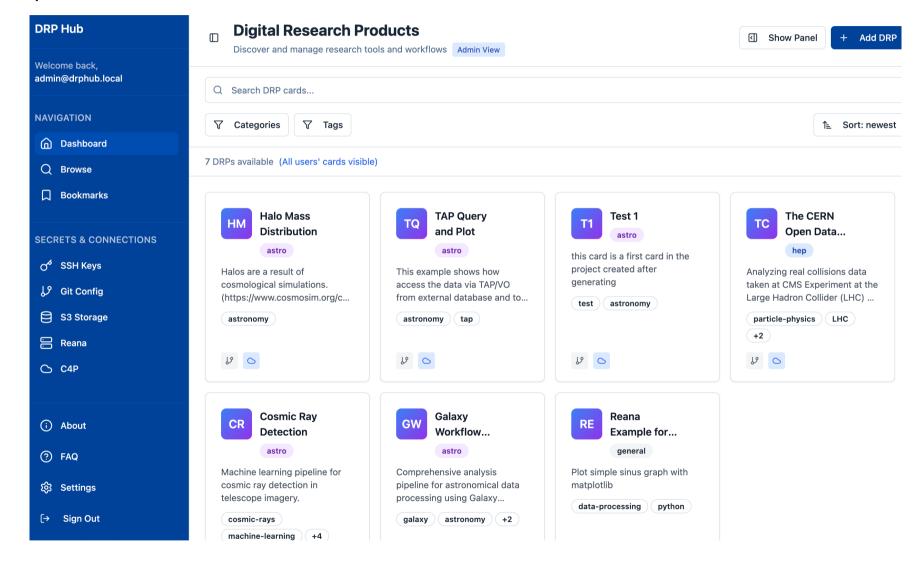
Many contributions to workshops and projects within NFDI and communities:

- HZB workshop on Accelerators
- Daphne General Meeting 2025
- NFDI Metadata Meeting @ TIB
- NFDI MultiCloud proposal
- NFDI initiative for a workgroup for Auditing, Resource management
- NFDI Open Architecture Group
- Many contributions to PUNCH-2.0 LoI and Proposal shaping

WP 1 + 4:

Pooled workforce for implementation of SDP components:

- Model and implementation of registry for DRP (RPR)
 - Backbone design and improving data model for RPR
 - Review of metadata requirements => minimal, mandatory elements (* together with WP2)
 - Handling of 'glue' to community metadata
 - Execution environment info
 - Interaction features (creation, extension of DRP)
 - User and Groups management
 - APIs for Input and Output
- User interface for DRP based on REANA
 - User can control access to 'his' workflows
 - Public, PUNCH, Private access
 - Current concept (preview)



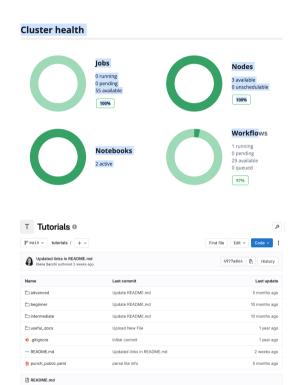
WP1 + 4:

REANA | C4P | S4P interaction

- Stable Kubernetes Custer Deployment of last stable REANA version @ AIP
- Work on improved User information dashboard
- Work on improved documentation for available resources and selection processes
- Working on Tutorials/Examples
- Support on Mattermost channels :
 - PUNCH/reana-support
 - PUNCH/REANA

Maintenance work on Webservices rpr-p4n, gitlab-p4n,

helpdesk/zamla, keycloak,
WP 3:
intra.punch, results.punch,
Workflow experiments, testing job execution => Achim's contrib.



WP 2 (+1+4):

Developing aspects of Metadata Schema:

Leveled Metadata Concept:

- discussion/collaboration with WP1+4 on DRP implementation
- Glue items (for accessing metadata and data of coummunities)
 - Metadata: minimal set and OAI-PMH protocol agreement
 - Data: still under discussion
- Extended items: many, ongoing assessment
- Relation to Execution environment (REANA, workflows)
- Extended Metadata example collections from all communities

NFDI relations:

- Do we need to use a certain MD system (hotly discussed NFDI topic)
 - Workshop at TIB participation
- Accepted poster for CoRDI 2025 (Victoria T, Ivan K., Harry E.)

Mandatory and extended
Elements of the Registry for
the data model of the DRP 1.0
https://gitlabp4n.aip.de/punch/ta4/wp1/delive
rables-wp1/d-ta4-wp1-1//blob/main/DRP-RPRDescription.pdf
(WiP)

Meeting materials 01.07.25 https://docs.google.com/docume nt/d/108xt29jDevGjoFEFGyFXXB Omv3vENCPxNvR5mNPpuOk/edit ?tab=t.0#heading=h.bmdhn5lh9 mem

TA4: PUNCH 1.0 finish

- Improved support for AAI related frictions in workflows
- Working Dashboard for REANA users
- Registry for DRP 1.0 implemented with working data exchange between RPR and Dashboard
- User & Groups management in RPR
- Handling of 'deletion' of DRP items
- DRP 1.0 with working examples for extended community metadata access (+ support)
- Exploration of AAI beyond current possibilities / application => see PUNCH workshop and results (https://www.mentimeter.com/app/presentation/alx88qbw6sr8ivma2bbqgcpocapaxoek / view?question=a9irx354rwfp)