

PUNCH4NFDI TAG Meeting

WP3 + WP4

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Agenda

1. Overview of WP3 and WP4
2. Status of deliverables
3. Next steps

1. Status of WP 3

Deliverables (reduced work plan @ start of PUNCH4NFDI)

- **WP3-D1 (31 Jul 2022)**
 - Reference guide for scientists and journals on **publishing data**
- **WP3-D2 (31 Dec 2022)**
 - White paper/reference guide for **publication of software**
- **WP3-D3 (31 Dec 2025)**
 - Exploring existing **dynamic metadata frameworks** for their integration into the PUNCH-SDP
- **WP3-D4 (31 Mar 2024)**
 - Making **Effelsberg data openly** available.
- **WP3-D5 (31 Dec 2024)**
 - Flexible converter for FITS/ROOT formats; **Preparing HESS data** for FAIR access
- **WP3-D6 (31 Dec 2025)**
 - Demonstration of formats for **metadata-extensions** including auxiliary data through pointers and databases

1. Status of WP 3

- Institutions
 - HTW
 - Tim Oelkers (until Feb. 24), HH
 - MPIfR
 - Jacob Trembay (until Sept. 23), Pranav Limaye (since Dec. 23)
 - Support: Alex Kraus (Effelsberg operator)
 - MPIK
 - Makarim Bouyahiaoui (until March 23)
 - UHD
 - Ramin Marx (until June 24), Stefan Wagner
 - PTB
 - Alexander Göggelmann (until March 24)
 - AIP
 - Harry Enke

2. Status of Deliverables

◦ WP3-D1 + WP3-D2

White paper on publishing data and software following FAIR principles

- Authors: Makarim Bouyahiaoui, Alexender Göggelmann (Dec. 23)
 - https://gitlab-p4n.aip.de/punch/intra-docs-content/-/tree/master/docs/TA6/TA6.3_D1-2_White-Paper.v1.pdf
 - https://gitlab-p4n.aip.de/punch/intra-docs-content/-/tree/master/docs/TA6/TA6.3_D1-2_Report.v1.pdf

◦ WP3-D3

- Exploring existing dynamic metadata frameworks for their integration into the PUNCH-SDP
- Tim Oelkers: Overview of petabyte-scale metadata storage methods and frameworks (2023)
https://results.punch4nfdi.de/files/documents/Metadata_PUNCH_Oelkers.pdf

◦ WP3-D4

- Making Effelsberg data openly available.
 - Bugs in conversion script fixed

◦ WP3-D5

- Flexible converter for FITS/ROOT formats; Preparing HESS data for FAIR access
 - Status ?

◦ WP3-D6

- Demonstration of formats for metadata-extensions including auxiliary data through pointers and databases
 - Status ?

3. Next steps

WP3-D1+D2: Reference guide for publishing data and software

- Exploring possible cooperation with TA6/WP4
- Discussion on this topic within a month during next joint meeting

WP3-D3: Making Effelsberg data openly available

- Calibrating converted data products (FITS files)
- Open access via, for example, German Astrophysical Virtual Observatory (GAVO)

WP3-D4: Exploring existing dynamic metadata frameworks

- Awaiting future developments of the SKA metadata integration project Rucio-IVOA
<https://gitlab.com/ska-telescope/src/ska-rucio-ivoa-integration>
- If necessary, an HTW employee working in TA 5 can step in