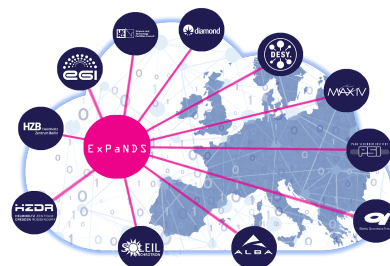


PaN FAIR implementation framework

Sustainability sheet

To enable FAIR data and support open science for PaN national RIs, the FAIR implementation framework of ExPaNDS WP2 consists of:

- Recommendations on incorporating FAIR into **research data management policies**
- An analysis of the **metadata** available across the PaN experimental lifecycle, their priority for FAIR and the modalities to generate and record them
- A review of current and potential uses of **PIDs** and how these contribute to FAIR for RIs
- Templates and use cases for **active Data Management Plans (DMPs)**
- A formal **self-assessment** exercise exploring how workflows and data management processes at partner RIs support FAIR research



	<p>Target audiences</p> <ul style="list-style-type: none"> - Policy makers - Data stewards - Data managers - Data infrastructure team - Data librarians - PaN user community 	<p>Benefits</p> <ul style="list-style-type: none"> - Common understanding of a facility's level of FAIRness and of what is important for FAIR and why - Better alignment across facilities on data policies, metadata schemas, DMPs and the use of PIDs - Discover current practices and tools relevant to PaN RIs - Help with the prioritisation of actions to be taken on the FAIR journey
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	<p>Accessibility and documentation</p> <p>All the constituent documents of the FAIR implementation framework are openly accessible:</p> <ul style="list-style-type: none"> - FAIR data policy framework (1) and its summary guidance note (2) - Metadata framework (3)(4) and its summary guidance note (5) - Advanced PIDs infrastructure (6) - DMP framework (7)(8) - FAIR self-assessment (9) 	
	<p>Feedback mechanism</p> <p>Structured discussions were employed to involve the community in building the framework, as presented in the report on the promotion of FAIR (10). See plans for sustainability for a longer term approach on community feedback.</p>	<p>Licence</p> <p>CC BY 4.0 (11)</p>

	<p>Competitors</p> <ul style="list-style-type: none"> - The FAIR data policy framework builds on and expands a 2011 PaN data policy framework (12) developed by the PaN-data Europe project. In practice, this 2011 framework still influences the policy landscape of national PaN facilities. - Many FAIR assessment tools are being developed in the EOSC ecosystem, e.g. F-UJI (13) but these typically apply to datasets or data repositories rather than experimental processes found in RIs. - Data stewardship wizard (DSW) tool (14) and other tools can support DMPs. 	
	<p>Technology readiness</p> <p>Prototype, e.g. the metadata framework was adopted by DAPHNE4NFDI (15) to refine the metadata fields technique by technique</p>	



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Plans and conditions for long-term sustainability

As discussed during ExPaNDS closing event, the responsibility for the PaN FAIR implementation framework will be taken further by [LEAPS WG3](#) (16) in the frame of the special interest groups currently being shaped, with possible additional support from:

- OSCARS competence centre
- OSCARS open calls
- [HMC](#) (17)
- [RDA PaNSIG](#) (18)
- Partner facilities under the FAIR data management MoU



Exploitability potential

- Other PaN facilities from [LEAPS](#) (19) and [LENS](#) (20)
- Any future new PaN facility
- Other types of accelerator-based or physics-oriented facilities (e.g. cyclotron)

Conditions to increase exploitability

- Add workflows to the [PaN training catalogue](#) (21) describing the FAIR toolkit for PaN RIs and presenting scientific metadata to record for each technique with the ways to encode them (ex: Nexus)
- Publish the data policy framework in [FAIRsharing.org](#) (22)
- Present and refine the PaN FAIR implementation framework in the frame of the [FAIR-IMPACT project](#) (23)
- Present the DMP framework at the [RDA IG on active DMPs](#) (24)
- **Share adoption stories**
- Create a webpage with wizards guiding users on e.g. metadata collection
- Present the updated PaN FAIR implementation framework to [RDA's PaNSIG](#) (18)

Links

- (1) <https://doi.org/10.5281/zenodo.5205825>
- (2) <https://doi.org/10.5281/zenodo.6090282>
- (3) <https://doi.org/10.5281/zenodo.4312825>
- (4) <https://doi.org/10.5281/zenodo.6799105>
- (5) <https://doi.org/10.5281/zenodo.7680072>
- (6) <https://doi.org/10.5281/zenodo.5905351>
- (7) <https://doi.org/10.5281/zenodo.5636096>
- (8) <https://doi.org/10.5281/zenodo.7223438>
- (9) <https://doi.org/10.5281/zenodo.7246802>
- (10) <https://doi.org/10.5281/zenodo.7572045>
- (11) <https://creativecommons.org/licenses/by/4.0/legalcode>
- (12) <https://doi.org/10.5281/zenodo.3738498>
- (13) <https://www.f-ujf.net/>
- (14) <https://guide.ds-wizard.org/>
- (15) <https://www.daphne4nfdi.de/english/index.php>
- (16) <https://leaps-initiative.eu/about/organisation/>
- (17) <https://helmholtz-metadaten.de/en>
- (18) <https://rd-alliance.org/groups/research-data-needs-photon-and-neutron-science-community.html>
- (19) <https://leaps-initiative.eu/>
- (20) <https://lens-initiative.org/>
- (21) <https://pan-training.eu/>
- (22) <https://fairsharing.org/>
- (23) <https://fair-impact.eu/>
- (24) <https://rd-alliance.org/groups/active-data-management-plans.html>



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