WP2 – Future developments

Andy Götz – PaNOSC Coordinator

ESRF

29 November 2022

WP2

Data Policy and Stewardship

Main Topics worked on were:

- FAIR Data Policy

- Validation of Data Policies

- Guidelines for FAIR Data Management

- Implementation of DMP template(s)

WP2 – FAIR Data Policy

- PaNOSC **FAIR Data Policy framework** published on zenodo
- **Adoption** by
  - **CERIC-ERIC, ELI-ERIC, ESS**
- **In Progress** at
  - **ESRF, ILL, EuXFEL**
- **Future work –**
  - **Continue DP implementation,**
  - **DOI data access + citation**
  - **Publish DPs in FAIRsharing.org**

FAIR data policy + self-assessment – sustainability sheet (Andy+Brian)

		Facility	Status of adoption (Oct. 2022)
Solution	*Description of the solution introduced and the problem it solves* Provide a framework for a FAIR data policy and a self FAIR-assessment		
Target audiences	*Who benefits from this particular outcome?* Policy makers of PaN facilities		
Benefits for target audiences	*In what way?* Community approach to both data policies and FAIR-assessment, making sure policies are as aligned as possible and understanding one's facility level of FAIRness and where one can benefit from what others put in place.	ALBA	Planned
		DESY	Work in progress
Competitors	*Other tools / services / projects that developed similar solutions or intend to*	CERIC-ERIC	Adopted
		DIAMOND	
Technology readiness	*Prototype, pilot, in production?* N/A	ELETTRA	Adopted
Accessibility	*Where it is, who can access it?* FAIR data policy template and framework openly accessible in Zenodo Self FAIR-assessment report upcoming	ESRF	Adopted
		ELI-ERIC	Adopted
		ESS	Adopted
Licence	CC BY 4.0	EuXFEL	Adopted
Documentation	*Link to existing documentation for users and maintainers - missing documentation if any* N/A	FELIX	Adopted
		HZB	Adopted
EOSC integration status	*Link to the EOSC marketplace if already onboarded, status otherwise* N/A	HZDR	Adopted
		ILL	Adopted
Short-term maintenance	*Hosting infrastructure + personnel in charge now* Maintenance of the policy? Maintenance of the PaN FAIR-assessment framework?	ISIS	Adopted
		Max IV	Work in progress
Plans and conditions for long-term sustainability	*Hosting infrastructure + personnel in the future if known or FTE and hardware, costs vs. benefits in the long term* ?	PSI	Adopted
		PTB	Adopted
Feedback mechanism	*How can feedback / new requirements / bugs be reported and taken into account?* An extensive consultation was undertaken both for the data policy framework and for the self FAIR-assessment which ensures feedback should be limited on the short term. Needs to be defined for the longer term? PaN data RDA IG could be an entry point.	SOLARIS	
		SOLEIL	Adopted
Exploitability potential	*What/who could benefit from this outcome and yet doesn't?* Other PaN facilities in LEAPS and LENS, any future new PaN facility PaNOSC facilities for FAIR assessment	SESAME	Adopted
Conditions to increase exploitability	*To-do list or pre-requisites to reach exploitability potential* •Documents are available in the PaN training platform •There could be an additional workflow for our "FAIR toolkit" for PaN RIs? •Dissemination of the self FAIR-assessment at projects closing events?		
Other			

Credits: Sophie Servan

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WP2 – Data Management Plans

- **PaNOSC** worked closely with **ExPaNDS** on **Active DMPs**
- **Adoption** by
  - **ESS, ELI-ERIC, ESRF**
- **In Progress** at
  - **ILL, EuXFEL, DESY, CERIC-ERIC, HZDR, PSI, PTB, SOLEIL**
- **Future work –**
  - **Publish paper in Data Science Journal**
  - **Collaboration with DS-Wizard**
  - **Make DMPs more useful (UDMP)**

Facility	Status of adoption (Oct. 2022)
ALBA	Planned
DESY	Work in progress
CERIC-ERIC	Work in progress
DIAMOND	
ELETTRA	Work in progress
ESRF	Adopted
ELI-ERIC	Adopted
ESS	Adopted
EuXFEL	Work in progress
FELIX	Planned
HZB	Planned
HZDR	Work in progress
ILL	Work in progress
ISIS	
Max IV	Under evaluation
PSI	Work in progress
PTB	Work in progress
SOLARIS	
SOLEIL	Work in progress
SESAME	Under evaluation

DMP – sustainability sheet (Marjolaine+Fredrik+Heike)

		Facility	Status of adoption (Oct. 2022)	
Solution	*Description of the solution introduced and the problem it solves* A data management plan, or DMP, is a formal document that outlines what you will do with your data during and after a research project. DSW is a collaborative tool to create DMPs.			
Target audiences	*Who benefits from this particular outcome?* •Beamline users •Facility staff (e.g. beamline scientists)	ALBA	Planned	
Benefits for target audiences	*In what way?* •Users: group together information on what data they will produce, information on tools they can use to treat data •Users: a DMP which they can submit to other funders •Facility: information on what users need for data management and processing planning	DESY	Work in progress	
		CERIC-ERIC	Work in progress	
		DIAMOND		
Competitors	*Other tools / services / projects that developed similar solutions or intend to* •RDMO	ELETTRA	Work in progress	
Technology readiness	*Prototype, pilot, in production?* In production	ESRF	Adopted	
		ELI-ERIC	Adopted	
Accessibility	*Where it is, who can access it?* Available at each institute: •ESRF: https://dmp.esrf.fr/	ESS	Adopted	
		EuXFEL	Work in progress	
Licence	•DSW: Apache License v2.0	FELIX	Planned	
		HZB	Planned	
Documentation	*Link to existing documentation for users and maintainers - missing documentation if any* •DSW: https://guide.ds-wizard.org/ •DSW integration at each facility: https://github.com/panosc-eu/wp2	HZDR	Work in progress	
		ILL	Work in progress	
EOSC integration status	*Link to the EOSC marketplace if already onboarded, status otherwise* https://marketplace.eosc-portal.eu/services/data-stewardship-wizard	ISIS		
Short-term maintenance	*Hosting infrastructure + personnel in charge now* •DSW is maintained by the DSW core team •The deployment at each institute and the used infrastructure are maintained by the IT staff of the institutes.	Max IV	Under evaluation	
		PSI	Work in progress	
		PTB	Work in progress	
Plans and conditions for long-term sustainability	*Hosting infrastructure + personnel in the future if known or FTE and hardware, costs vs. benefits in the long term* •Provide personnel to maintain the software and its integration with the other tools.	SOLARIS		
Feedback mechanism	*How can feedback / new requirements / bugs be reported and taken into account?* •DSW: issue tracker •Feedback/support at each institute: 　　•　ESRF: email or issue tracker	SOLEIL	Work in progress	
		SESAME	Under evaluation	
Exploitability potential	*What/who could benefit from this outcome and yet doesn't?* •Integration with existing ontologies •interfaces/integration with other IT systems			
Conditions to increase exploitability	*To-do list or pre-requisites to reach exploitability potential* •Improve interoperabarability between the DMP tool and the other systems			

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WP2 – Guidelines on FAIR Data Management

- PaNOSC **paper on best practices** published on zenodo
- **Multiple Presentations at various events**
  - **LaserLab, Users Meetings, Hercules, EIROForum, …**
- **FAIR Data Training**
  - **E-learning platform**
- **Future work –**
  - **Continue training data stewards + scientists + industry**
  - **Participate in schools e.g. African School Light Sources**
  - **Core Trust Seal certification of data repositories**
  - **Update FAIR Training material**

PaNOSC Guidelines on best practices implementing a research data policy

Gotz, Andy; Taylor, Jonathan; Dimper, Rudolf; Perrin, Jean-François; Gliksohn, Florian; Roccella, Dario; Wrona, Krzysztof; Ivănoaica, Teodor; Malka ,Janusz; Collins, Stephen

Project member(s)

Taylor, Jonathan; Dimper, Rudolf; Perrin, Jean-François; Gliksohn, Florian; Roccella, Dario; Wrona, Krzysztof; Ivănoaica, Teodor; Malka ,Janusz

A set of Guidelines on how to implement a research data policy at Photon and Neutron (PaN) sources and at Research Infrastructures (RI) in general. The document is organised as a set of annotated guidelines based on the experience of six PaN institutes who have either already implemented a data policy or are in the process of implementing a data policy.

The 6 institutes are - ESRF, ILL, EuXFEL, ESS, CERIC-ERIC and ELI. They are all members of the PaNOSC project.

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See more details...

A huge thank you to all the WP2 members of PaNOSC and ExPaNDS!

More Ideas for the future developments for WP2

Interactive session

- YOUR ideas …

PaNOSC Closing Event
Paving the way towards the PaN FAIR Data Commons

29-30 November 2022

Grenoble - France

Thank you

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