

<u>Tim Wetzel</u>, Patrick Fuhrmann, Armando Bermudez Martinez, Uwe Jandt, Paul Millar, Sophie Servan, Peter van der Reest, Regina Hinzmann, Johannes Reppin, Christian Voss, Linus Pithan, Anton Barty, ... (DESY) Julia Kobus, Philipp Jordt, Linus Liedtke, Bridget Murphy (CAU Kiel)

Slides partly with courtesy from Patrick Fuhrmann



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The High Level View - a reminder











Spaces

Embargo'ed

Data

Synchrotron owned

**Storage Spaces** 







Out of

Embargo

SciCat **Access Controlled** internal Catalogue

**DESY HPC** System

We try to use standard protocols only to allow components to be replaced by components with similar functionality.





dCache

## The Publishing

sisyphos.desy.de

**User Space** 

Automatically or manually generated preliminary Metadata json Data **ORSO** NeXus HDF5

Daphne Sisyphos

PaN Reflectivity
Database
Upload Tool





Metadata validation against defined schemata enforced.

UI with field annotations

# HIFIS Staging Space



Curation Process

- Metadata verification
- Licence/Legal checks
- Data Quality verification

## **Open Data Portal**



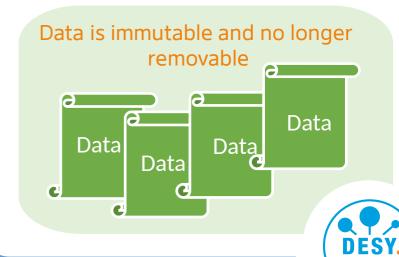


Final

Publishing

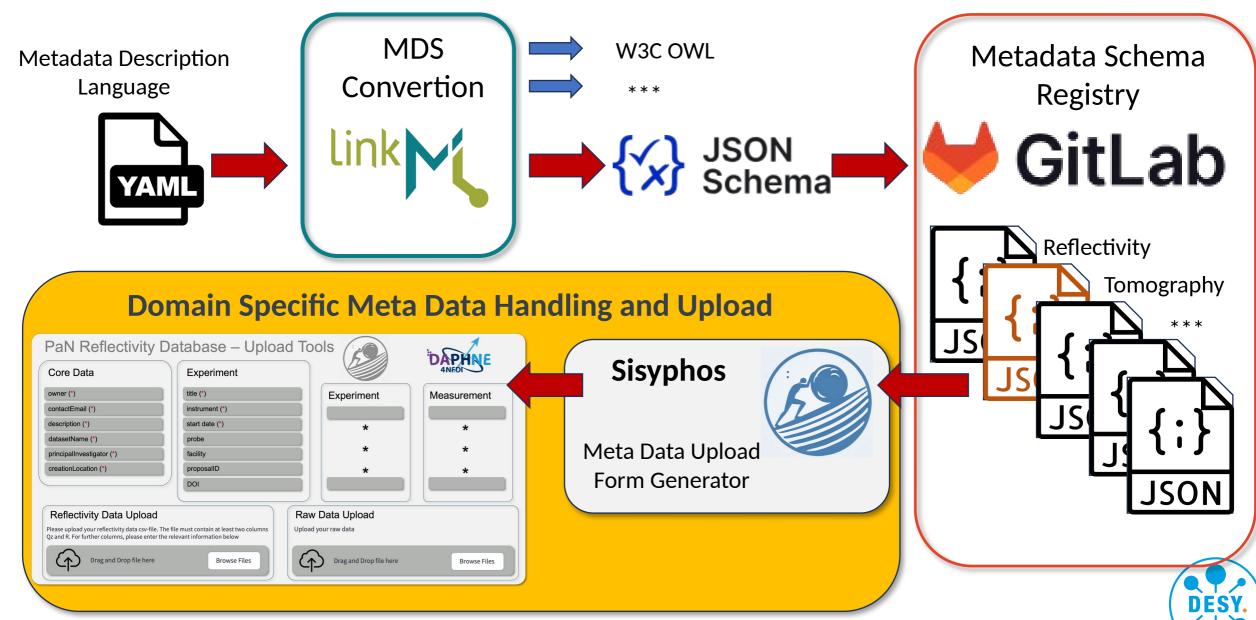


#### Persistent HIFIS Space





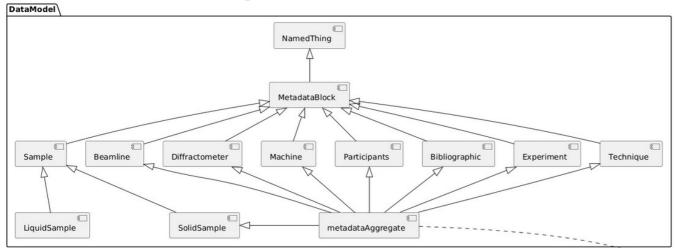
## **The Schemata**



11

**HELMHOLTZ** Scicat Technical, 20/10/25 DESY Open Data Portal Fuhrmann, Wetzel

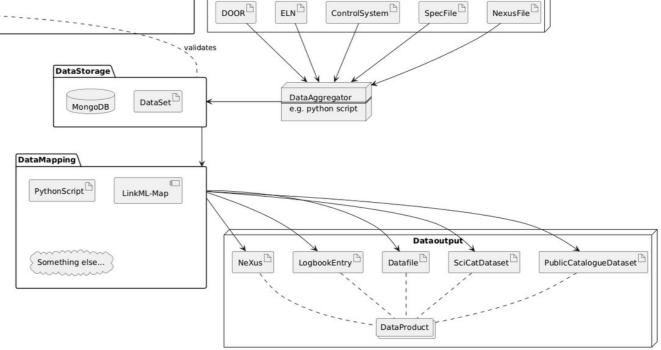
# The building blocks



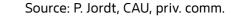
#### Building blocks make schemata

- more easily reusable
- better understandable
- highly modular
- interoperable by design

Scicat Technical, 20/10/25

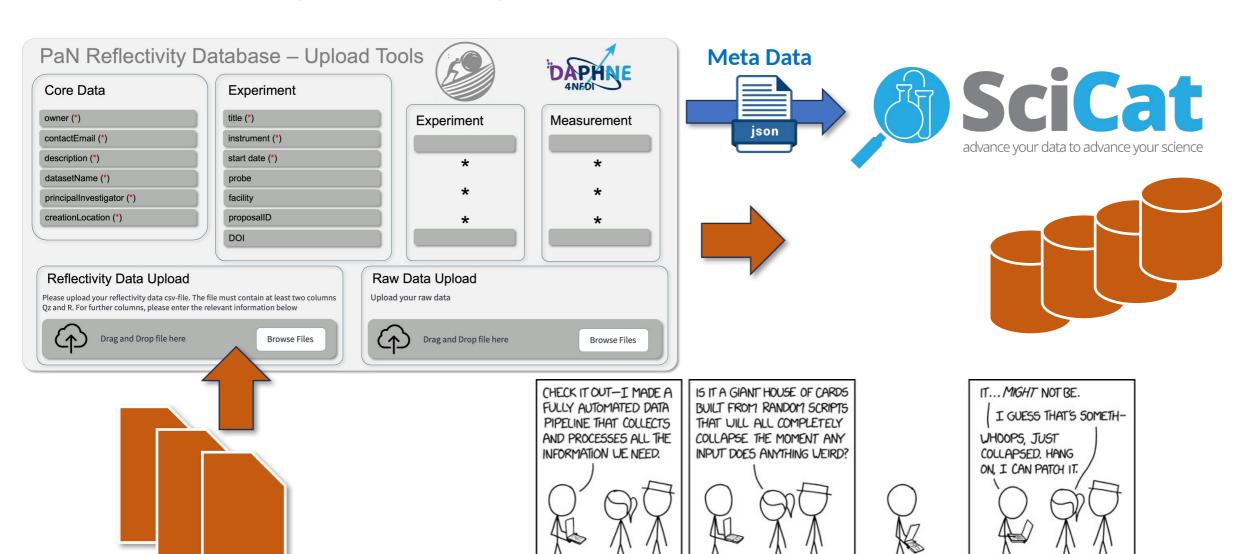


**DataSource** 





# The Form - sisyphos.desy.de

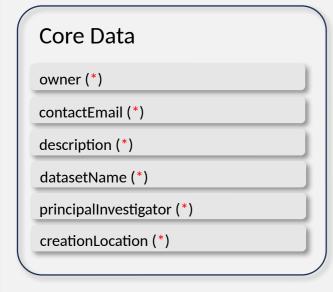




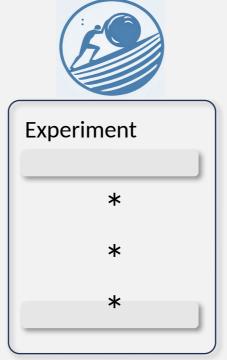
Scicat Technical, 20/10/25

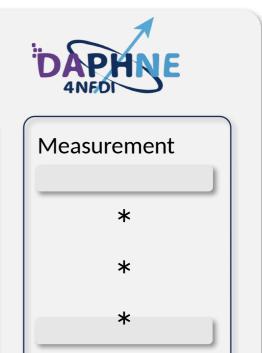
# The Form - sisyphos.desy.de

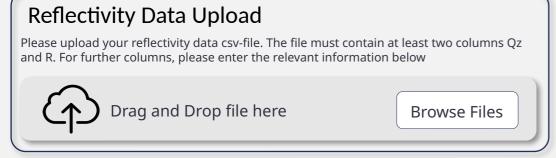
## PaN Reflectivity Database - Upload Tools

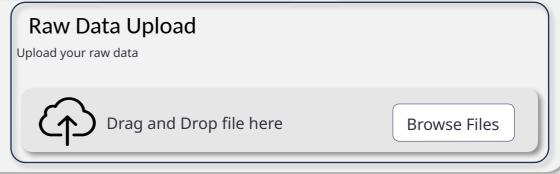






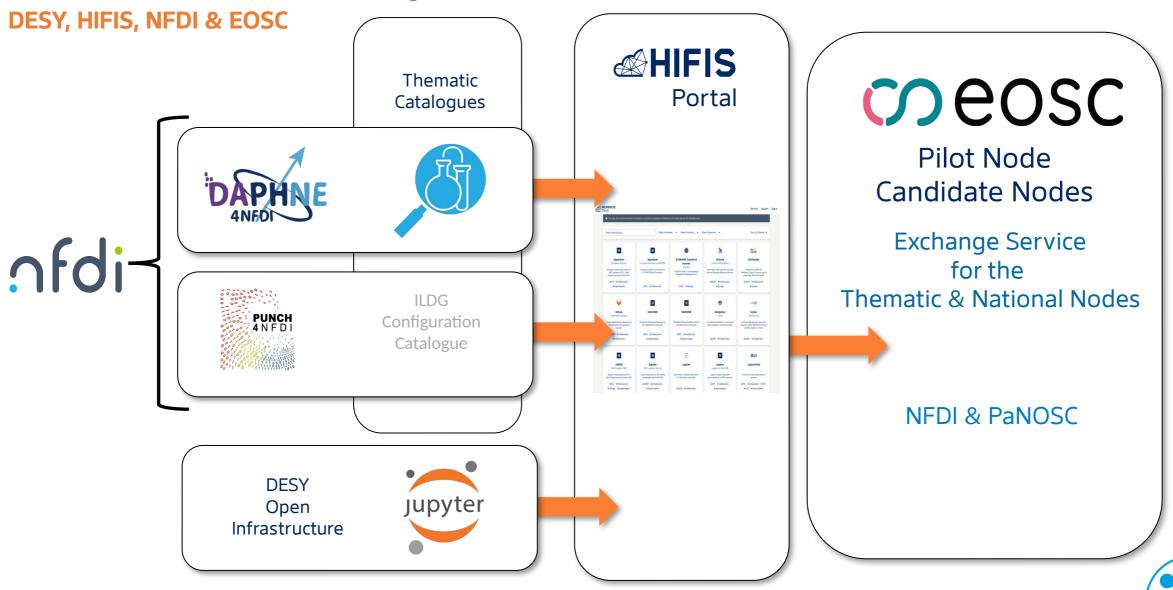






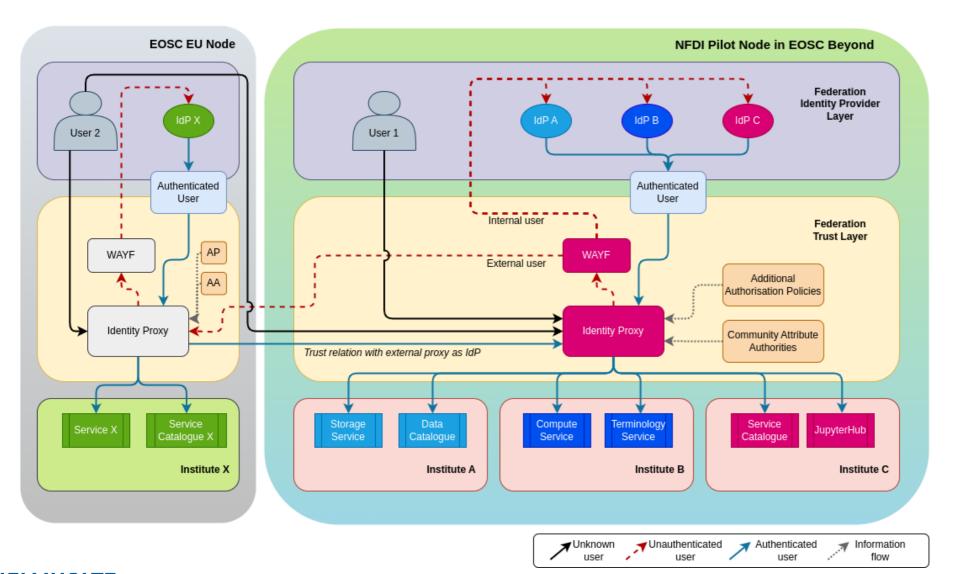


# The further Landscapes



## The Federations

#### Interfacing with other European communities and services - WIP



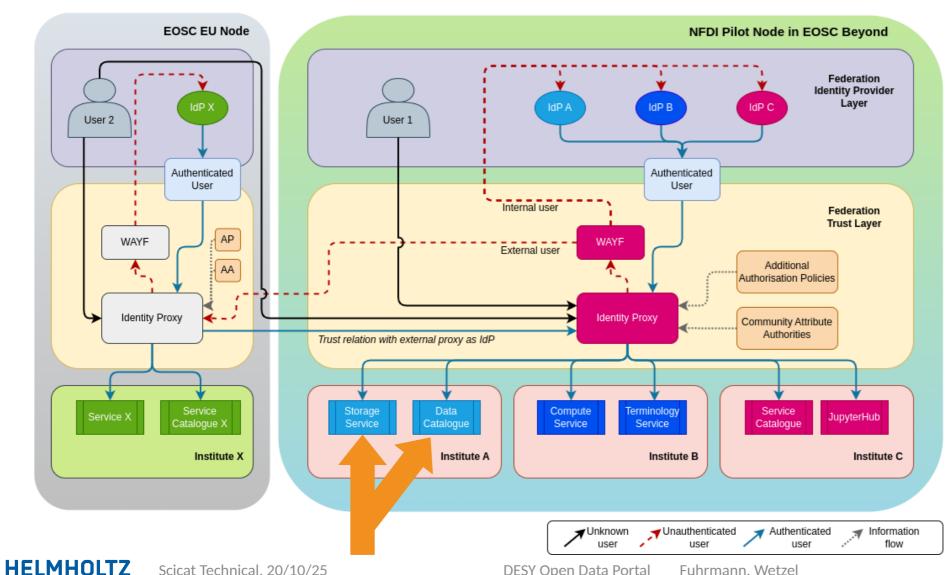
The European Open Science Cloud is currently being set up as a network of community-provided platforms ("Nodes")

Each node brings their own AAI and services behind it

The nodes are designed to be interoperable in order to bring synergies and interconnections for a more efficient scientific landscape

### The Federations

#### Interfacing with other European communities and services - WIP



Mutual trust for authentication and authorization between communities allows for crosscommunity usage of

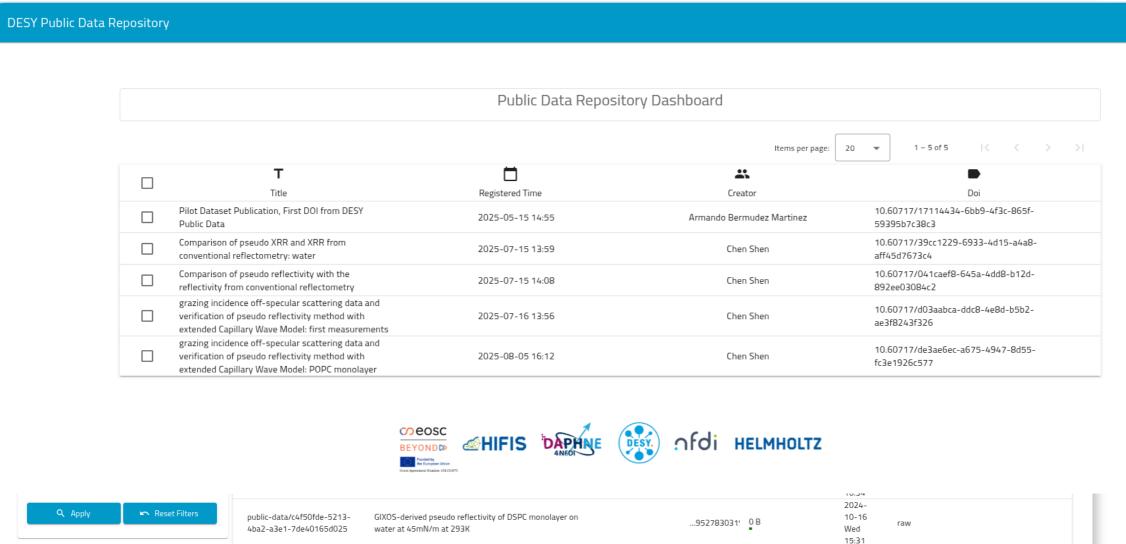
- Identities
- Services
- Data sources
- Infrastructure

In a modular, unified and transparent way to make it useful and easy for the scientists



## The Look

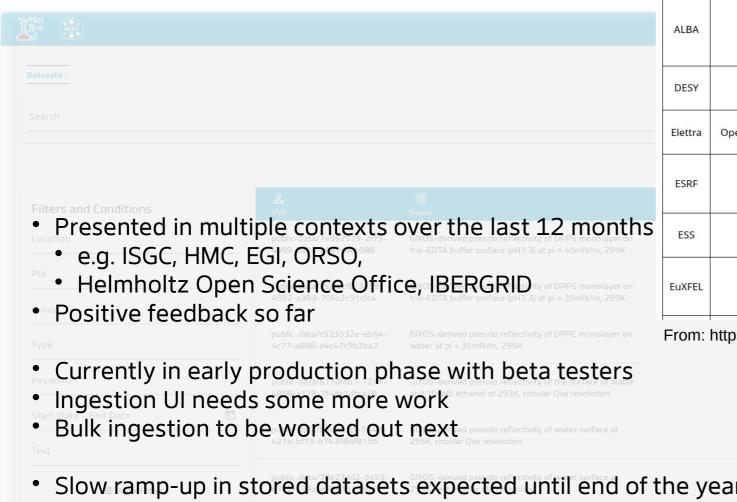
#### What does the catalogue look like?





## **The Outook**

#### Where do we go from here?



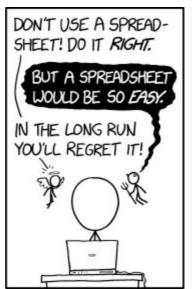
#### PaN facilities repositories

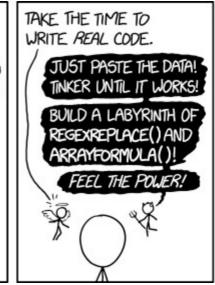
Facility	Repository	External records	OAI-PMH endpoint	PaN search API endpoint
ALBA	Data Portal	Pedada and Application Commons OpenAIRE EXPLORE	Endpoint: link [Identify] Items: <b>316</b> Sets: 2 ▶ Types ▶	Endpoint: link [count] Datasets: <b>214</b>
DESY	Public Data	♣ DatsCite Commons	Endpoint: link [Identify] Items: <b>5</b>	
Elettra	Open Access Data Portal		Endpoint: link [Identify] Items: <b>626</b>	Endpoint: link [count] Datasets: <b>625</b>
ESRF	Data Portal	Passon Commons OpenAIRE EXPLORE (Australinguis)	Endpoint: link [Identify] Items: 9,098 Types ►	Endpoint: link [count] Datasets: <b>702,314</b>
ESS	SciCat	Commons  OpenAIRE EXPLORE	Endpoint: link [Identify] Items: <b>100</b>	Endpoint: link [count] Datasets: <b>100</b>
EuXFEL	myMdC	Pedada and Pedadole Commons OpenAIRE EXPLORE	Endpoint: link [Identify] Items: 6 Sets: 1 ▶	Endpoint: link [count] Datasets: <b>123</b>

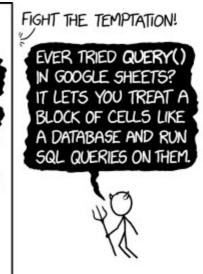
From: https://leaps-wg3.desy.de/open-data-resources.html

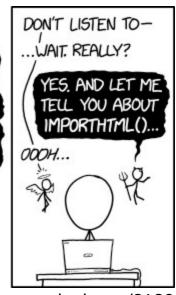
	0 B	23:35 2024- 10-16 Wed 16:55	
458237597.	0 B	2024- 10-16 Wed 16:48	
570538883	0 B	2024- 10-16 Wed 16:34	
	0 B	2024- 10-16 Wed 15:31	

# Thank you









xkcd.com/2180

Patrick Fuhrmann, Tim Wetzel

**DESY IT** 

Patrick.Fuhrmann@desy.de, <u>Tim.Wetzel@desy.de</u>

