



HZDR Data and Software Management Days 2024

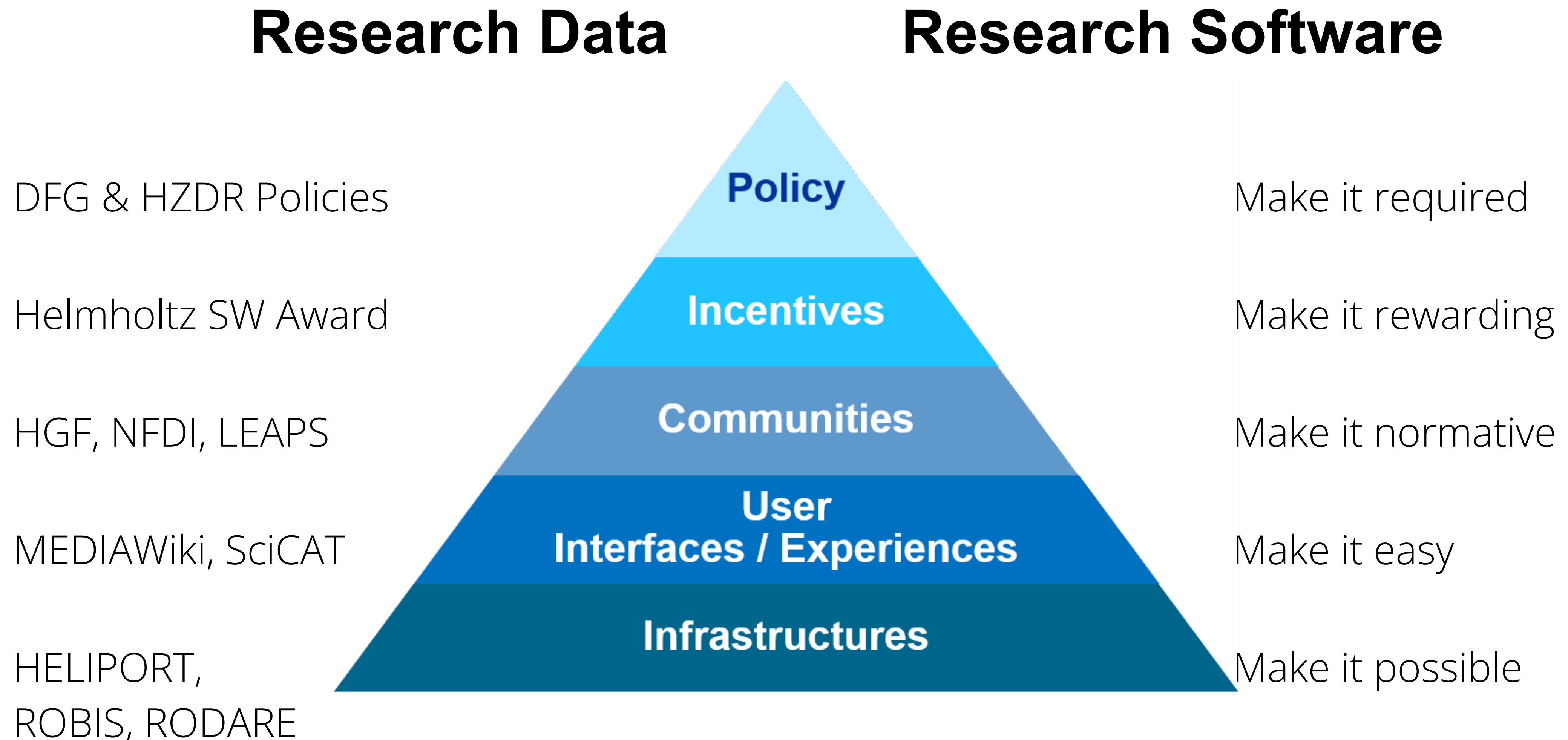
Welcome & Introduction

Oktober 2024

Uwe Konrad



Research Data and Software: hard work on all levels



Data & Software Management at HZDR and beyond

Over the course of the year, we have had numerous events that have shown that data and software management are becoming increasingly important:

- CoRDI: Conference on Research Data Infrastructures 2023
- RDA Germany 2024 in Potsdam
- DAPHNE4NFDI Annual Meeting 2024 at HZDR
- 5. SaxFDM Conference 2024 in Freiberg
- ROCK-IT Meeting 2024 at HZDR
- EOSC Symposium 2024

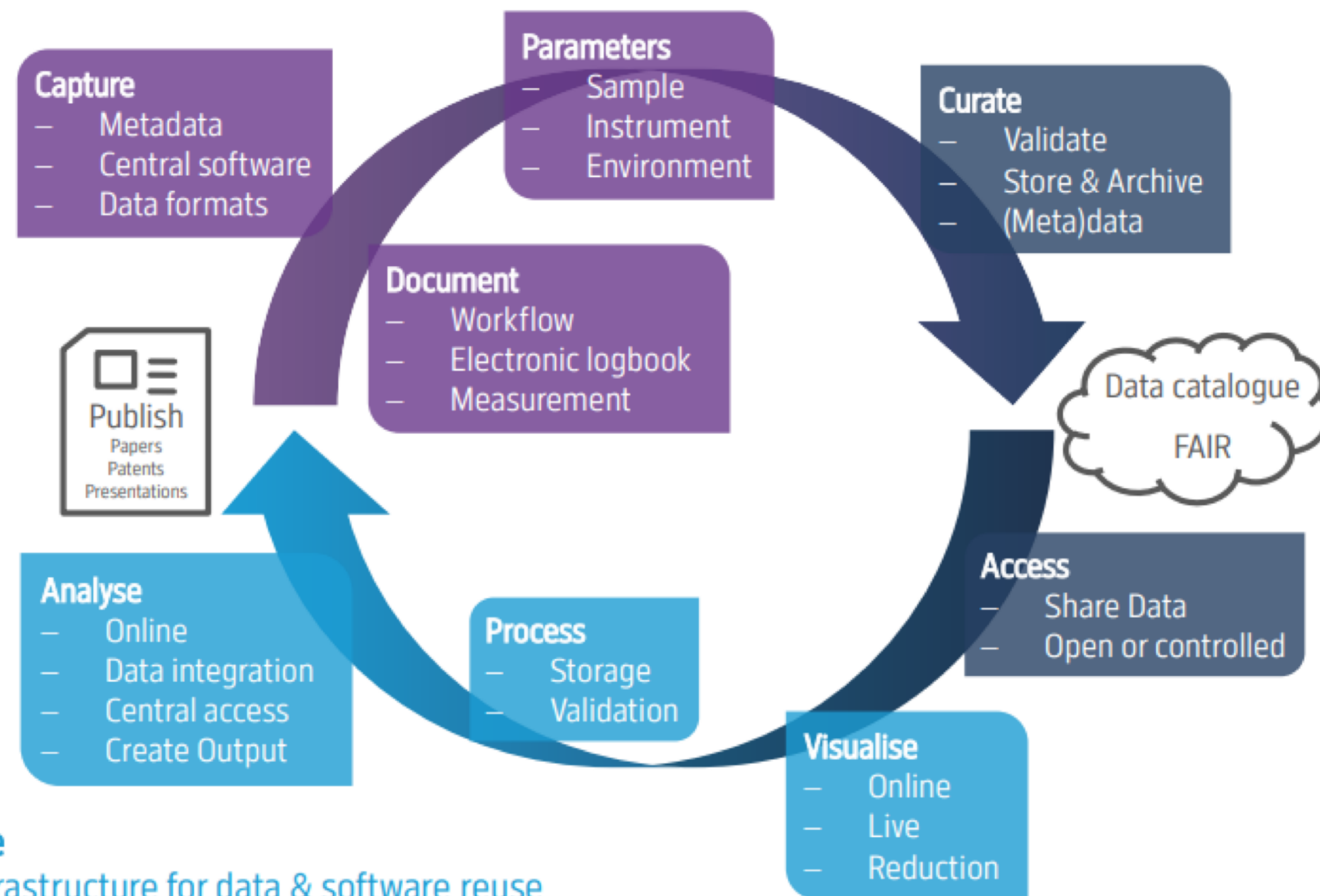


DAPHNE4NFDI Annual Meeting

Over 90 participants from all partners and far beyond!

Collect
TA1: Managing Data Production

Store
TA2: (Meta)data repositories & catalogues



Evaluate
TA3: Infrastructure for data & software reuse



ROCK-IT (Remote, Operando Controlled, Knowledge-driven, and IT-based)

- Remote access for experimental users
- Experiment automatisisation including the use of robots
- **Data management**
- Nearly realtime analysis and optimisation using machine learning (ML) and artificial intelligence (AI).



Data & Software - the foundation for AI

2024 Nature.com AI Index:

TOP 10 RISING INSTITUTIONS IN ARTIFICIAL INTELLIGENCE

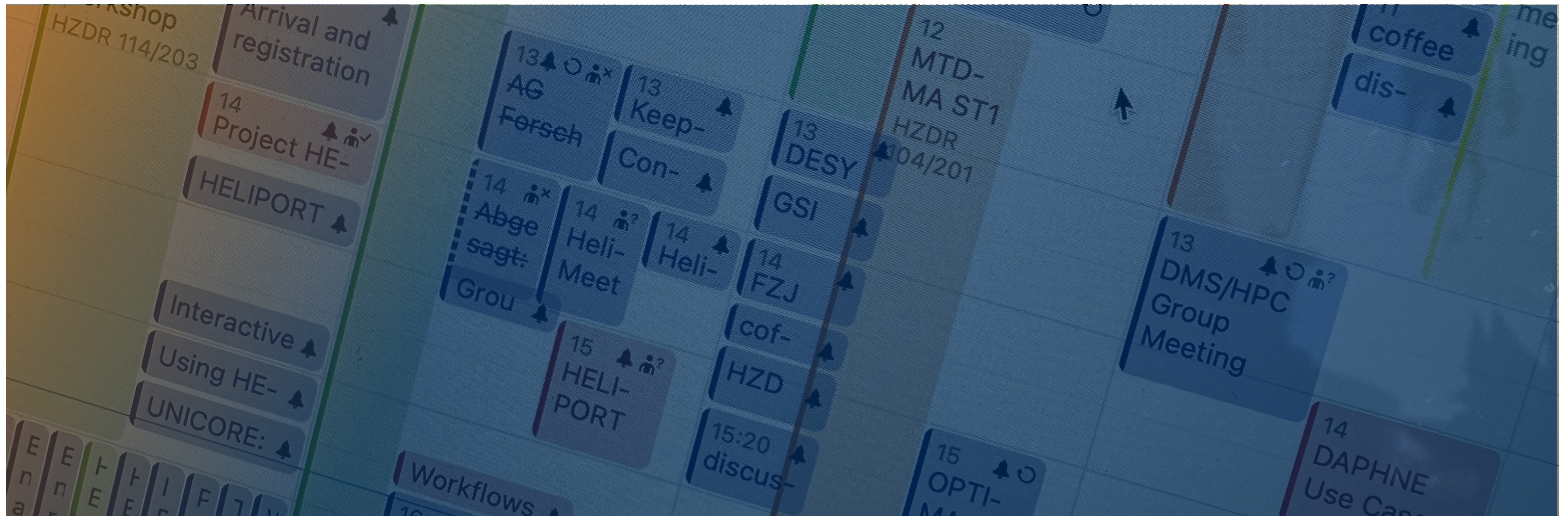
Among the institutions seeing the biggest increase in AI research output in the Nature Index is the [Helmholtz Association of German Research Centres](#), which has set up a specialist unit offering expertise and funding for researchers that are using AI in their work.



We can be world leaders with top quality data!

Based on: 2024 Nature.com-AI-Index

Rank	Institution	Country	Change in Share 2019–23
1	Chinese Academy of Sciences	China	158.04
2	Harvard University	United States	92.49
3	Peking University	China	71.06
4	Tsinghua University	China	66.80
5	Zhejiang University	China	63.95
6	Massachusetts Institute of Technology	United States	61.24
7	Max Planck Society	Germany	57.35
8	Helmholtz Association of German Research Centres	Germany	53.39
9	University of Science and Technology of China	China	49.99
10	Shanghai Jiao Tong University	China	49.04



Agenda Data and Software Management Days 2024

Data Management 2024 — Monday, October 28

13:00 → 15:00	Welcome and Invited Talks I	🕒 2h
	Introduction Speaker: Dr Uwe Konrad (HZDR)	🕒 5m
	Data Management Strategy Speaker: Oliver Knodel (Helmholtz-Zentrum Dresden-Rossendorf)	🕒 25m
	Research Data Management at GSI: An overview and an outlook Speaker: Andrew. K. Mistry (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))	🕒 25m
	Advancing Research Data Management at HZDR: Insights from the Helmholtz Metadata Collaboration Speaker: Markus Kubin (HMC, HZB)	🕒 25m
	Software Policy and Good Practices in Research Software Development at HZDR Speaker: Tobias Huste (Helmholtz-Zentrum Dresden-Rossendorf)	🕒 25m
15:00 → 15:30	Coffee Break	🕒 30m
15:30 → 17:00	Workshop Session I	🕒 1h 30m
	Workshop: "HZDR Research Data Strategy: Lifecycle, Roles, Requirements, and a Prototypical Experiment" Speaker: Oliver Knodel (Helmholtz-Zentrum Dresden-Rossendorf)	🕒 1h 30m
	Workshop: "Research Software Publication" Speakers: David Pape (Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Sophie Kernchen	🕒 1h 30m

Data Management 2024 — Tuesday, October 29

09:00 → 10:30	Workshop Session II	🕒 1h 30m
	Workshop: "Research Data Management in Practice: Identifying Needs and Developing Actionable Recommendations"	🕒 1h 30m
	Speakers: Alina Bastian (ZIH/SaxFDM), Johannes Sperling (SaxFDM), Maik Fiedler (HZDR), Oliver Knodel (Helmholtz-Zentrum Dresden-Rossendorf), Robert Müller (ZIH/Kontaktstelle FDM - TU Dresden), Torsten Gille (ZIH/Kontaktstelle FDM - TU Dresden)	
	Workshop: "FAIR Research Data Management in a git-like manner with Datalad"	🕒 1h 30m
	Speaker: Andreas Knuepfer	
10:30 → 11:00	Coffee Break	🕒 30m
11:00 → 12:30	Invited Talks II and Closing	🕒 1h 30m
	Advancing Open Science: Current Developments and Initiatives in Research Data Management at Helmholtz	🕒 25m
	Speaker: Steffi Genderjahn (Helmholtz Open Science Office)	
	Data Management Makes Machine Learning Easier	🕒 25m
	Speaker: Till Korten	
	Central research data management services provided by DRESDEN-concept and SaxFDM	🕒 25m
	Speakers: Alina Bastian (ZIH/SaxFDM), Dr Robert Müller (ZIH/Kontaktstelle FDM - TU Dresden), Dr Torsten Gille (ZIH/Kontaktstelle FDM - TU Dresden)	
	Closing	🕒 3m
	Speaker: Oliver Knodel (Helmholtz-Zentrum Dresden-Rossendorf)	