FAIR **DIGITAL OBJECTS** FORUM

International FAIR Digital Objects Implementation Summit

Slides and Recordings are available!

Program

Date: March 20/21, 2024

	Wednesday, 20.3.24	**Thursday, 21.3.24**
9.00	S1: Opening Session	S6: Project presentations
10.30	Coffee	Coffee
11.00	S2: Paper Presentations	S7: Paper Presentations
12.30-	Lunch	Lunch
13.30	S3: Paper Presentations	S8: Lightning talks
14.00		S9: Panel 3
15.00	Coffee	Coffee
15.30	S4/S5: Panels 1 and 2	S10: Closing Session
17.15	Guided Tour through the Museum	
18.30	Reception	

weitere Informationen unter**:** https://fairdo.org/

S1: Opening Session – 20.3 / 9.00 – 10.30

Chair: Christine Kirkpatrick

9.00 - 9.15	Christine Kirkpatrick	Co-Chair FDOF, Division Director - Research Data Services SDSC	Welcome and state report of the FDO Forum
9.15 – 9.30	Jana Hoffmann	Head of Dept. Collection Future at MfN	Welcome and the Digital Transformation at the Museum für Naturkunde
9.30 – 10.00	Robert Hanisch	Director of the Office of Data and Informatics, NIST	The fast-changing landscape of data infrastructures and the work in the US
10.00 - 10.30	Philipp Wieder	Vice-Director of GWDG	FDO activities in EOSC, NFDI and FDO-iP and the role of the GWDG

S2: Paper Presentations - 20.3 / 11.00 - 12.30

Chair: Wouter Addink (tbc)

11.00	Andrei Vukolov, Erik van Winkle, Christopher Hill, et al.	An Overview of Decentralised Web Technologies as a Foundation for Future IPFS-centric FDOs
11.10	Christophe Blanchi	Extensible Access Control using FDO Operations
11.20	Barbara Magagna, Luiz. O. Bonino, et al.	Are Nano-Publications FDOs?
11.30	Discussion	
11.45	Mikiko Tanifuji, Masahara Hayashi, et al.	An FDO Approach to SDGs knowledge Graphs – a case Study of battery-related topic through a multidiscipl. approach using global datasets
11.55	Daan Broeder, Willem Elbers, et al.	FDOs and service Brokering, the CLARIN Switchboard Use-Case
12.05	Soulaine Theocharidis, Wouter Addink, et al.	Cooking with DOIs: A Recipe for FAIR Digital Specimens using FDOs
12.15	Discussion	

S3: Paper Presentations – 20.3 / 13.30 – 14.00

Chair: Karsten Peter-von Gehlen

13.30	Claus Weiland, Maya Beukes, et al.	Employing webby FDOs to support large-scale ecosystem monitoring and mitigation of biodiversity loss in the Anthropocene
13.40	Rohitha Ravinder, Nelson Quinones, et al.	A lightweight Approach to FDOs via Bioschemas, ROCrate and Signposting on Github Pages
13.50	Julian Gordillo, Sharif Islam	FDO as an Interoperability Framework for the Biodiversity Digital Twin Project
14.00	Discussion	
14.15	Benedikt Heinrichs, Sirieam Hunke	Combining FDO Implementation Concepts in a Real-Life Application
14.25	Yudong Zhang, Claus-Peter Klas, et al.	An FDO-based Implementation for a Standardised Data Exchange
14.35	Jonas Grieb, Claus Weiland, et al.	Implementing FAIR Semantic Mappings leveraging on RO-Crate
12.45	Discussion	

S4: Panel 1 – 20.3 / 15.30 – 16.15

Title: Essential Factors for enabling FDOs

Moderator: Anne Fouilloux (Simula Research Laboratory)

Participants: Sara El-Gebali (DataCite & FAIRPoints), Batool Almarzouq (Alan Turing Institute & Open

Science community Saudi Arabia-OSCSA), Wouter Schallier (UNESCO), Joy Owango (Africa PID Alliance), Dimitris Koureas (FDO Forum, Naturalis)

Description

This panel is dedicated to exploring the vital elements necessary for the successful implementation and growth of the FAIR Digital Objects (FDOs) community and related activities. The FDO forum, which began as an initiative of a small group of technology experts, has now gained global attention, moving from theoretical discussions to practical applications. At this critical phase of expansion, it's important to identify and prioritize the activities that are fundamental for the growth and success of the FDOcommunity. **The ultimate goal of this panel is to identify focus areas, and develop a grounded strategy for the future of the FDO community.**

S5: Panel 2 – 20.3 / 16.15 – 17.00

Title: How to move ahead with the FDO Forum and FDOs?

Moderator: Paolo Budroni (TU-Wien)

Participants: Dimitris Koureas (Naturalis), Barend Mons (GOFAIR), Stefan Hanslik (eIRG), NN (EC, tbc),

Mikiko Tanifuji (Research Center for Open Science and Data Platform (RCOS) at National Institute of Informatics), Robert Hanisch (NIST)

Description

The FD strategic directions of the FDO Forum need to be broadly discussed by the interested community to help identify a suitable direction forward. Due to the transregional developments currently taking place and the interdisciplinary links, expectations of the FDO Forum are also growing. The time is ripe to work out a strategy for its future development. A strategy group has identified the maintenance of the FDO specifications as the most important task. Several members of the FDO Forum are now in favour of setting up a formal entity. An engineering task force, which is known from the Internet, could send an important signal to the interested parties involved (science, industry, politics) to signal commitment and competence development. As a possible solution, the FDO Forum discussed criteria for the establishment of such a structure, the definition of a governance model, either as an independent legal entity or by joining an existing organization. In this panel, we invite a number of experienced experts from different backgrounds to make statements and then engage in a wide-ranging discussion.

Guided Tour through the Museum (17.15)

Venue: Museum für Naturkunde (100 meter distance to Leibniz)

Those who are interested to participate will get a guided tour at the MfN which will start at 18.15

Reception (18.30)

Venue: Museum für Naturkunde (100 meter distance to Leibniz)

Every participant is welcome to join in the reception at the MfN, Dinosaur Hall. During the reception we will have an interaction with a distinguished expert about the perspectives and possible limitations of this new wave of generative AI. Erik Schultes will moderate the discussion.

S6: Project Presentations – 21.3 / 9.00 – 10.35

Chair: Philipp Wieder

9.00	FDOs for Data Economy	
	Philipp Wieder, Peter Wittenburg, Sven Bingert, Henrik tom Wörden, Christoph Lange, Tobias Kleinert, et al.	Overview, global Testbed and Basic Infrastructure
		Bridge Building Use Case
		Bridge Building with Eclipse Data Connector
		Bridge Building with I4.0 Asset Administration Shell
9.45	Stian Soiland-Reyes, Herbert v.d. Sompel	Signposting and RO Crate – experience and lessons learned
10.00	Dominik Rohrmus	Manufacturing X – Solutions for Production Industry
10.15	Robert Hanisch	Developing the Concept of Units and Implementing Thoughts
10.30	Discussion	

S7: Paper Presentation 21.3 / 11.00 - 12.30

Chair: Claus Weiland

11.00	Luiz. O. Bonino, Claudenir Morais, et al.	Predictable Resolution Behaviour for FDO Identifiers
11.10	Markus Stocker, Claudia Biniossek, Dirk Betz, et al.	Towards machine-actionable scientific knowledge as FAIR Digital Objects
11.20	Roland Johannes, Fidan Limani, et al.	An FDO-based Exchange Interface for Research Data
11.30	Discussion	
11.45	Tomasz Miksa	Turning Machine-Actionable DMPs into FDOs
11.55	Rory MacNeil, Tilo Mathes	Implementation of PIDs and Plans for FDOs in the RSpace digital research platform
12.05	Claudia Biniossek, Dirk Betz, Björn Grüning, et al.	FDOs for seamless research data Management for Researchers and Higher Education Institutions
12.15	Discussion	

S8: Lightning Talks - 21.3 / 13.30 - 14.00

Chair: Jana Hoffmann

13.30	Shuai Wang	FAIR Implementation Profiles for the Social Sciences and Their Use Cases
13.33	Carole Goble	Five Safes RO-Crate: FDOs for Trusted Research Environments for Health Data Research
13.36	Wouter Addink	A Primer for FDO Profile Creation based on Early Experience
13.39	Maximilian Inckmann, Nicolas Blumenröhr, Thomas Jejkal	PID Component – A Web Component for Visualising FDOs
13.42	Marco Kulüke, Karsten Peters-von Gehlen, Ivonne Anders	Improving the Findability of Digital Objects in Climate Science by Adopting the FDO Concept
13.45	Henrik tom Wörden, Timm Fitschen, Sven Bingert, et al.	Meet the FDO Manager
13.48	Anne Fouilloux, Adil Hasan	Enhancing FAIR Data Practices in the Norwegian Research data Archive
13.51	Reyna Jenkins (virt)	FDO Assessment and Acceleration Approaches at World data Systems
13.54	Dario de Angelis, Irene Modolo, et al. (virt)	FDO-based FAIR-by-design upgrade of an interdisciplinary research infrastructure for nanoscience
13.57	Zachary Trautt (virt)	FDOs and Materials Science and Engineering

S9: Panel 3 – 21.3. / 14.15 – 15.00

Title: Flavors of FDOs

Moderator: Christine Kirkpatrick

Participants: Luiz Bonino (University of Twente, Leiden University Medical Center), Carole Goble (University of Manchester, ELIXIR), Christophe Blanchi (CNRI), George Strawn (US Acad)

Description

Clarify the mystery about flavours of FDO, check compliance with specifications and identify conversion. It is obvious that during the last months there were ongoing discussions about flavours of FDOs, but not all were checked against the FDO specifications which were created after 3 years of intensive community discussions (https://zenodo.org/records/7782262). We need to identify what the flavours are and what the differences to the specifications are. It may be that we need to extend or improve the specifications, but there is a wide agreement that we should have ONE official document with specifications to not confuse anyone and to not open the pandora box and lose the degree of convergence which will be needed.

S10: Closing Session – 21.3. / 15.30 – 16.30

Chair: Philipp Wieder

15.30 – 15.40	Dimitris Koureas	Co-Chair FDOF	FDOF strategy given the increasing Investments in FDO
15.40 – 15.45	Erik Schultes	FDOF, GO-FAIR	FDO Compliance Profiles
15-45 – 15.50	Robert Hanisch	FDOF, NIST	FDO Sonnet by OpenAI
15.50 – 16.05	Anita De Waard, Tshiamo Motshegwa	STM Publishers, Director African Open Science Platform	Panel on Trust, Robustness and Persistence
16.05 – 16.15	Philipp Wieder	GWDG	Prizes for the best 3 Lightning talks
16.15 – 16.25	George Strawn, Peter Wittenburg	US Academy	Summary of this FDO Summit and how further
16-15 – 16.20	Anna Petschulies, Philipp Wieder	GWDG, DIN	Closing the Summit