

## Agenda Overview

All sessions occurring within a time period are parallel

Wednesday 26 October Registration & Information Desk

All times in CEST 9:00

10:30

11:00

12:30

15:00

17:00

17:30

20:00

Fletcher downstairs lobby 12:30 - 15:00 Naturalis ground floor foyer 15:00 - 17:30

**3A FDO Perspectives** 

Thursday 27 October

Registration & Information Desk

Fletcher downstairs lobby 08:15 - 12:30

Naturalis ground floor foyer 12:30 - 17:00

Location: Fletcher Hotel (Johannes Vermeerzaal)

Moderator: Daan Broeder

• 95975 Are Fair Data Objects and Digital Twins the same thing? - Mark Wharton

• 95268 The Vision of the FDO Machine and Ubiquitous FDO Services - Peter Wittenburg • 95119 On the Nature of Information: How FAIR Digital Objects are Building-up Semantic Space -

Hans-Günther Döbereiner • Implementing FDOs Using the Digital Object Interface Protocol - Christophe Blanchi

• 94150 The Comparative Anatomy of Nanopublications and FAIR Digital Objects - Erik Schultes • 95806 FDO Project for Germany - Stefan Weisgerber

3B FDO Applications I

Location: Fletcher Hotel (Frans van Mieriszaal)

Moderator: Barbara Magagna • 94501 Updating Linked Data practices for FAIR Digital Object principles - Stian Soiland-Reyes

• 95724 How does software fit into the FDO landscape? - Carlos Martinez-Ortiz

• 96005 Current Developments in the Research Data Repository RADAR - Felix Bach • 96075 Agile Research Data Management with FDOs using LinkAhead - Henrik tom Wörden

• 94758 Realising FAIR Digital Objects for the German Helmholtz Association of Research Centres -Rainer Stotzka and Andreas Pfeil

• 95/153 Connecting Repositories to one Integrated Domain - Peter Wittenburg

3C FDO Applications II

Moderator: Amirpasha Mozaffari

Location: Fletcher Hotel (Willem van der Veldezaal)

• 93815 From Green Deal to Cultural Heritage: FAIR Digital Objects and European Common Data Spaces - Sharif Islam, Andreas Weber and Erzsébet Tóth-Czifra

 95856 Computable phenotypes for cohort identification: core content for a new class of FAIR Digital Objects - Marisa Conte

• 94544 Biospecimens in FDO world - Sara El-Gebali, Rory Macneil

• 94485 FAIR Digital Objects in Official Statistics - Olav ten Bosch • 93709 Taxonomic Treatments as Open FAIR Digital Objects - Lyubomir Penev

• 93940 FAIR Research Objects for realising Open Science with RELIANCE EOSC project-Anne Fouilloux

Naturalis ground floor foyer 08:15 - 17:00

Registration & Information Desk

7A FAIR and FIPP

Friday 28 October

Location: Naturalis Tribunezaal Moderators: Barbara Magagna, Erik Schultes

How can FIPs (FAIR Implementation Profiles) as technical components support FDO behaviours, and might the FIP be a fundamental or essential feature of FAIR implementations in general, and of

the FDO specification in particular?

9:40 Moderated discussion

9:00 Welcome and introductions 9:05 Introduction to the FIP and the FIPP WG - Erik Schultes

9:10 Introduction to FAIR Enabling Resources - Barbara Magagna

9:15 Opening remarks by the panellists (5 minutes each) Tobias Kuhn (Starting Entrepreneur and Assistant Professor, Department of Computer

Science, VU University Amsterdam NL)

 Arofan Gregory (Standards Expert, CODATA, Paris FR) Luiz Bonino (Associate Professor, Services, Cybersecurity & Safety and Digital Society Institute, University of Twente, Enschede and BioSemantics group, Leiden University

Medical Centre, Leiden NL) • Sharif Islam (Data Architect, Naturalis Biodiversity Center, Leiden NL)

• Yann Le Franc (e-Science Data Factory, Paris FR)

7B Lightning Talks & Research Panel 'FDO-based solutions to foster data science' **Location:** Naturalis Auditorium

Moderators: Christine Kirkpatrick, Peter Wittenburg Lightning Talks 'Personal stories: The pros, cons, and challenges of implementing FDOs in data

driven research.' • Erik Schultes (GO FAIR International Support and Coordination Office NL)

Ivonne Anders [German Climate Computing Centre - NFDI4Earth DE] Sara El-Gebali (SciLifeLab Data Centre SE)

Amir Mozaffari (Research Center Jülich DE)

(Industry, Research, Policymakers, Funders)

Moderators: Barend Mons, Paolo Budroni

Dimitris Koureas (FDO Forum Executive Board)

**Location:** Naturalis Auditorium

Dominik Rohrmus (Siemens)

**Panellists:** 

Jan Schweikert (Karlsruhe Institute of Technology DE)

 Mark Wharton (IOTICS US) Panellists:

• Hans-Günther Döbereiner (Professor Physics, University of Bremen DE) Anne Fouilloux [Head, Nordic Earth System Modelling Hub] [NordicESMhub]

Zeyd Boukhers (Research Fellow, Fraunhofer Institute for Applied Information Technology DE) (FIT)

Coffee Break (Naturalis Auditorium Foyer)

8 Policy I 'Policies and governance of data spaces: priorities, roles, adoption and

Christian Cuciniello (European Commission Contact, European Open Science Cloud) (EOSC)

 Line Pouchard (Senior Researcher, Brookhaven National Laboratory US) (BNL) **Open Discussion** 

impact of FDOs in society, industry and academic environments'

Karel Luyben (Rector Magnificus Emeritus, Delft University of Technology)

Coffee Break (Fletcher Hotel)

4A FDO Technology I

**Location:** Fletcher Hotel (Johannes Vermeerzaal)

**Moderator:** Rainer Stotzka

• 94835 Challenges for Implementing Fair Digital Objects with High Performance Workflows-Line Pouchard

 94113 FAIR Digital Object Application Case for Composing Machine Learning Training Data Nicolas Blumenröhr

• 95152 Interacting FDOs for Secure Processes - Christophe Blanchi

• 94408 A FAIR Digital Object Lab Software Stack - Andreas Pfeil

• 95966 An Introduction to Cordra - Robert Tupelo-Schneck

96014 Two Examples on How FDO Types can Support Machine and Human Readability - Tibor Kálmán

4B FDO Technology II

Location: Fletcher Hotel (Frans van Mieriszaal)

**Moderator:** Wouter Addink

• 94856 Advancing caching and automation with FDO - Amirpasha Mozaffari

• 94438 Linked Metadata for FAIR Digital Objects Carrying Computable Knowledge - Marisa Conte • 93929 Implementation of a Photovoltaic System Model Using FAIR Digital Objects - Jan Schweikert

• 94386 Towards FAIR Data Access - Daan Broeder 93816 From data pipelines to FAIR data infrastructures: A vision for the new horizons of bio- and

geo-diversity data for scientific research - Sharif Islam

 95817 Facing the Challenges in simulation-based Earth System Sciences and the Role of FDOs -Karsten Peters-von Gehlen

**4C FAIRness of FDOs** 

Location: Fletcher Hotel [Willem van der Veldezaal]

Moderators: Koenraad de Smedt, Peter Wittenburg

**Moderator:** Ivonne Anders

Location: Naturalis Auditorium

Norwegian Neuroinformatics Node)

• 96082 FAIR Begins at home: Implementing FAIR via the Community Data Driven Insights -Carlos Utrilla Guerrero

• 94149 Emerging FAIR Ecosystem(s): A Practical Perspective - Erik Schultes • 94451 FIPs and Practice - Barbara Magagna

• 94244 FAIR Points: From sdo:LearningResource to FAIR Digital Object - Donald Winston

• 95943 Challenges for FAIR Digital Object Assessment - Esteban Gonzalez • 94988 Towards an extensible FAIRness assessment of FAIR Digital Objects - Vincent Emonet

Lunch Break (Naturalis Room 10)

Infrastructure Director of the EU Human Brain Project, leader of the EBRAINS Data services, and Head of the

5 Research Keynote and Panel Discussion 'Challenges in the evolving Data Science'

Keynote: Jan Bjaalie (Professor Institute of Basic Medical Sciences, University of Oslo, Norway,

• Niklas Blomberg (Director, European Life Science Infrastructure) (ELIXIR ERIC)

• Maaike van de Kamp (Scientific Director, Naturalis Biodiversity Center, Leiden NL)

• Sae Dieb (Data Scientist, National Institute for Materials Science JP) (NIMS)

Lunch Break (Naturalis Room 10)

Ingrid Dillo (Deputy Director, Data Archiving and Networked Services NL) (DANS)

• Mark Leggott (Director International Relations, Digital Research Alliance, CA)

infrastructures. The possible roles of the FDO Forum.'

Moderators: Paolo Budroni, Christine Kirkpatrick

Franciska de Jong (Executive Director, CLARIN ERIC)

Location: Naturalis Auditorium

9 Policy II 'Governance of data spaces: control and ownership of data services and

Sven Bingert (Datacenter of the Society for scientific data processing, University of Göttingen, DE)

13:30

1A Joint BIG/TSIG/CWFR Working Group Session 1 [Basic Infrastructure, Technical Specification and Implementation, and the Canonical Workflow

Framework for Research Groups) **Location:** Fletcher Hotel (Johannes Vermeerzaal)

Moderators: Ivonne Anders, Christophe Blanchi, Larry Lannom, Ulrich Schwardmann, Claus Weiland,

Arrival & Registration

13:30 Implementation of Attributes, Types, Profiles and Registries - Ulrich Schwardmann

14:15 The Full FDO Specification - Peter Wittenburg

(Semantics) Location: Fletcher Hotel (Frans van Mieriszaal)

1B SEM WG

Moderator: Adamantios Koumpis on behalf of Yann Le Franc & Peter Mutschke

The focus will be the FAIR Digital Object Framework (FDOF), as an approach to represent FDOs and its attributes in a semantically unambiguous and machine-actionable way, and its application to a real-world use case from NFDI consortium NFDI4DS. We will discuss the approach presented and use audience feedback in future discussions on a semantic model for FDOs. 13:30 Welcome and Introduction - Adamantios Koumpis on behalf of Peter Mutschke

13:40 FDO-SEM: Motivation, Objectives, State of Discussion - Peter Mutschke & Yann Le Franc 13:50 The FAIR Digital Objects Framework (FDOF) - Luiz Bonino 14:10 A test case for applying a fast track approach for FDOs in the health domain - Oya Beyan,

14:30 Discussion - Yann Le Franc, Adamantios Koumpis on behalf of Peter Mutschke 4:55 Wrap Up and Next Steps - Adamantios Koumpis on behalf of Peter Mutschke

Coffee Break (Fletcher Hotel, 'To Go' Bar)

2 Joint Working Groups Location: Naturalis Auditorium

Moderators: Ivonne Anders, Larry Lannom

Special FDO Issues 15:30 Notion of Collections (RDA, RO Crate) - Stian Soiland-Reyes

15:45 Relation between FDO (Types) and Operations - Christophe Blanchi, Peter Wittenburg Invited Guest and view on FDOs

16:00 95679, Visualization of Materials Science Topics in Publications of Institutional Repository using Natural Language Processing - Sae Dieb

Reflection / Discussion

16:15 What have we achieved and what still needs to be done? Roadmap Document - Larry Lannom

Coffee Break (Naturalis Auditorium Foyer)

6 Technical Keynote and Panel Discussion 'The Role of FDOs in the Next Revolution in

Computing and Data Management' Location: Naturalis Auditorium

Moderators: Stian Soiland-Reyes, Rainer Stotzka

**Keynote:** 'One Computer, One Dataset' - George Strawn (Emeritus Director, Board on Research Data and Information at the National Academies of Sciences, Engineering, and Medicine US)

Carole Goble (Professor, Computer Science University of Manchester UK)

 Sharif Islam (Naturalis Biodiversity Center, Leiden NL) Beth Plale (Professor, Computer Engineering Indiana University US)

Break (Naturalis Auditorium Foyer)

Coffee Break (Naturalis Auditorium Foyer)

10 Closing Plenary Summaries and 'Leiden Declaration' a statement of community consensus regarding the global need for and adoption of FAIR Digital Objects. **Location:** Naturalis Auditorium

Moderator: Christine Kirkpatrick Summaries from the three Conference streams

 Research - Peter Wittenburg Technical - Stian Soiland-Reyes

Policy - Paolo Budroni

The Leiden Declaration (Barends Mons), a statement of community consensus regarding the global need for and adoption of FAIR Digital Objects

'Closing words from an FDO Forum Co-Founder' - George Strawn [Emeritus Director, Board on Research Data and Information at the National Academies of Sciences, Engineering, and Medicine US]

Reception (Naturalis Auditorium Foyer)

Location: Naturalis Auditorium Moderator: Dimitris Koureas (FDO Forum Executive Board)

Keynotes - Robert E. Kahn, (virtual) Co-Inventor of TCP-IP protocols and responsible for originating U.S. Defense Advanced Research Projects Agency (DARPA's) Internet Program. Recipient of numerous

Internet (co-recipeint with colleague Vincent Cerf), 2004 A.M. Turing Award from the Association of Computing Machinery (the 'Nobel Prize of Computer Science'), 2004 Presidential Medal of Freedom, and 2013 Queen Elizabeth Prize for Engineering. In 1986, Prof. Kahn founded (and remains Chair/CEO of the Corporation for National Research Initiatives (CNRI) providing technical leadership and funds for research and development of emerging information infrastructure components, such as digital object identifiers.

Dear data, how do you decide my future? - Julia Janssen. Julia is an Amsterdam based artist, designer and public speaker. Through her art, she researches the influence of digitization on our physical world. Julia's recent work includes award-winning art projects such as Bank of Online Humanity, 0.0146 seconds. or Why: i:like Green, creating awareness of the potential implications of developments such as targeted advertisements and AI on individual safety, fairness, autonomy, freedom, and promoting data sovereignty for a safer, fairer, more transparent, more sustainable and democratic Internet. She is the host of the 'The HyperClick' podcast about the future of data. • Closing vvoras - Dimitris Koureas

19:00 Reception Location: Naturalis Auditorium Foyer

Last updated 25 Oct 2022

Raymond Drewry (VP, EMEA Operations and Principal Scientist, MovieLabs US)

Break (Naturalis Auditorium Foyer)

17:30 Opening Ceremony

Interview with Peter Wittenburg (FDO Forum Co-Founder and EB) and Barend Mons (GO FAIR Board and FDO Forum EB)

distinctions including 1997 National Medal of Technology for founding and developing the