e-IRG Workshop during Czech EU Presidency - Session 4

Zoom link:
https://cesnet.zoom.us/j/91629168367?pwd=VTRMbk9XeVpXMjVZZ0tNUkh1T3FRdz09
Meeting ID: 91629168367
Passcode: 210104

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4th Session

Topic: Interlinking - interaction between data, publications and PIDs
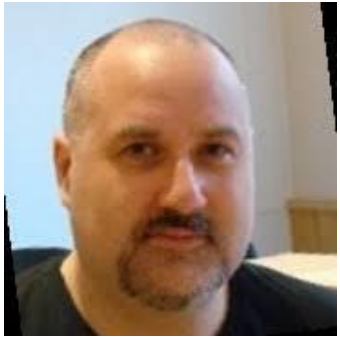**Keywords: metadata, FAIR Digital Objects, DMPs, publications, DOIs, PIDs**

Research Data Management (RDM) highlights the (best) practices referring to data-related activities, mostly tied to scientific publications where the data have been used, and contain relevant information such as software, hardware and policies ruling their use and decisions. Data Management Plans (DMPs) capture RDM activities along with the tools, actors and outputs that have managed and produced them, thus gathering all necessary information for research to be explainable and reproducible. FAIR principles, and PIDs in particular, provide unique means for registration, findability and provenance of data and other research outputs. Knowledge Graphs grow by consuming such information in a contextualised manner that allows proper indexing, retrieval, and links to be created across collected scientific information. The session will discuss possible approaches of interlinking and interconnecting services, workflows and outputs in evolving Open and FAIR ecosystems focusing on automations and machine actionability. Experts will reflect on all these topics and on policy approaches for their harmonisation and interoperability.
Request to the speakers: address policy issues in 1-2 sentences closing their presentation.

Moderator: Xavier Engels (French e-IRG Delegate)(remote), Paolo Budroni (e-IRG Chair)

13:30 - 15:45	presentation	speaker
13:30 - 13:35	Opening and Welcome	Jan Gruntorad, Paolo Budroni
13:35 - 13:50	FAIRDO Forum Conference outcome	Larry Lannom (remote) (confirmed)
13:50 - 14:05	Experiences with the Earth System Science Data	Hans Pfeiffenberger
14:05 - 14:20 (15)	The PID Graph	Gabriela Mejias (DataCite) (remote, confirmed)
14:20 - 14:35 (15)	FAIR scientific information with the Open Research Knowledge Graph	Markus Stocker (TIB) (remote, confirmed)
14:35 - 14:50 (15)	Machine-Actionable DMPs	Tomasz Miksa, TU Wien/RDA WG (confirmed)
14:50 - 15:05 (15)	The OpenAIRE DMP Argos tool and the OpenAIRE Research Graph	Natalia Manola (OpenAIRE) (confirmed)
15:05 - 15:35 /15:25- 50/	Panel discussion (make a bridge to the European Common Data Spaces activities)	
15:35 - 15:45 /50 closing	Closing (Paolo Budroni, Jan Gruntorad)	

Moderators

Xavier Engels	
	Xavier Engels is policy development manager and policy consultant at the French ministry for higher education and research (MESR). Xavier Engels is a French delegate at the e-Infrastructure Reflection Group. Xavier Engels has previously been project manager at the GO FAIR French Support and Coordination office.
Paolo Budroni	

Paolo Budroni is a member of staff of University Library of Technical University of Vienna, in charge of International Projects. Member of the EOSC Secretariat. He is counselling Partner of University of Vienna, H2020 Project EOSC Pillar. Paolo Budroni is chair of the e-Infrastructure Reflection Group (E-IRG) , member of board of the Austrian RDA National Node, chair of the General Assembly of E-Infrastructures Austria.

Speakers

Larry Lannom
Larry Lannom is Director of Information Management Technology and Senior Vice President at the Corporation for National Research Initiatives (CNRI), where he works with organizations in both the public and private sectors to develop experimental and pilot applications of advanced networking and information management technologies. Mr. Lannom's current work is focused on CNRI's Digital Object Architecture, which is based on the concept of the digital object, a uniform approach to representing digital information across computing and application environments, both now and into the future.
Hans Pfeiffenberger
Hans Pfeiffenberger is an independent consultant on scientific data infrastructures and policies. Until recently, he led the IT Infrastructure Department at the Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research in Germany. Hans has been chair of the Helmholtz Open Science working group, has advised the Knowledge Exchange and chaired the Science Europe policy working group on Access to Research Data. He is also founder and now member of the advisory board of the journal Earth System Science Data, an early data journal providing quality assurance to published data through peer review.
Gabriela Mejias

	Gabriela Mejias is DataCite's Community Manager and leads their participation in the FAIR-IMPACT and FAIRCORE4EOSC projects. In her role, she also contributes to DataCite outreach and collaborates with the research community. She's interested in shaping a more open research infrastructure.

Markus Stocker

	Markus Stocker leads a research group at the Leibniz Information Centre for Science and Technology in Hannover, Germany. His research interests lie at the intersection between research infrastructures and research communities, and how such infrastructures acquire, maintain, and share scientific knowledge about human and natural worlds.

Tomasz Miksa

	Tomasz Miksa is a senior researcher and an expert in data management and design of research data repositories. His areas of expertise include reproducibility of computational workflows, auditability and digital preservation. He chairs the DMP Common Standards working group at the Research Data Alliance that works to realise machine-actionable Data Management Plans and coordinates their deployment at major Austrian universities within the FAIR Data Austria project.

Natalia Manola

	Natalia Manola is a research associate in "Athena" Research and Innovation Center and in the University of Athens, Department of Informatics & Telecommunications. She is the managing director of OpenAIRE (www.openaire.eu) since 2009, a pan European e-Infrastructure supporting open access in all scientific results, the coordinator of OpenMinTeD (www.openminted.eu) an infrastructure on text and data mining, and is now involved in the implementation of HELIX, the Greek e-Infrastructure for research. She has expertise in Open Science policies and implementation and she served in Open Science Policy Platform, an EC High Level Advisory Group to Commissioner Moedas to provide advice about the development and implementation of open science policy in

	Europe. Natalia has also served in the EC Future Emerging Technology (FET) Advisory Group (2013-2017).

Statement

about your presentation (1-2 sentences)

FAIRDO Forum Conference outcome
This talk reviews the lead-up to the first FAIRDO conference this past October, including the problems that the Forum was created to address and the short history of the Forum to date, followed by a description of the conference, its outcomes, and the future intentions and goals of the Forum.

Experiences with the Earth System Science Data
This talk summarizes 10 years of experience – successes and bottlenecks – with the linking of journal articles and datasets (with a brief excursus on the linking ecosystems of publishers). The publisher's early attempts at enabling "executable research compendia" offer a peek into what will be expected of the global e-infrastructure.

Machine-actionable DMPs
In this talk I will outline the key differences between traditional DMPs and machine-actionable DMPs. You will get to know what the current status is and in what way maDMPs can improve the current practice of research data management.

The PID Graph
Persistent identifiers and their associated metadata form a graph. This presentation will introduce the PID Graph developed by DataCite and will discuss how the community can both contribute and benefit from this important infrastructure.

FAIR scientific information with the Open Research Knowledge Graph
Scientific information is buried in natural language text documents. The reuse of scientific information is therefore insufficiently supported by machines. The Open Research Knowledge Graph (ORKG) aims to shape a future scholarly publishing and communication where the contents of scholarly articles are FAIR research data. This presentation will introduce ORKG and motivate its development.

Questions

for the panel discussion (what would you like to be asked?)

- What is needed to roll-out machine-actionable DMPs on a large scale? What can we do as a community to help?
- In a completely interoperable, contextualized, and machine-navigable dataspace, what could be accomplished that can not be accomplished now?

- How can the research community contribute to the PID Graph growth?
- How do we produce rich FAIR scientific information at scale?
- How will a global e-infrastructure enable reliability (i.e., quality, persistence, integrity) of research outputs of all kinds?