



"Persistent Identifiers in Academia: Risk and Trust" – The Knowledge Exchange Study

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The PID Graph

- Most recent (Aug 2020) detailed PID Graph snapshot at hand...
- ... but things have evolved quite a bit ever since: RORs/Ringgold IDs, DOI-based grant IDs, PIDINSTs, IGSNs, RAiDs...
- Some feeling of “building the plane as we fly it” – is it possible to keep track of this evolving snapshot?

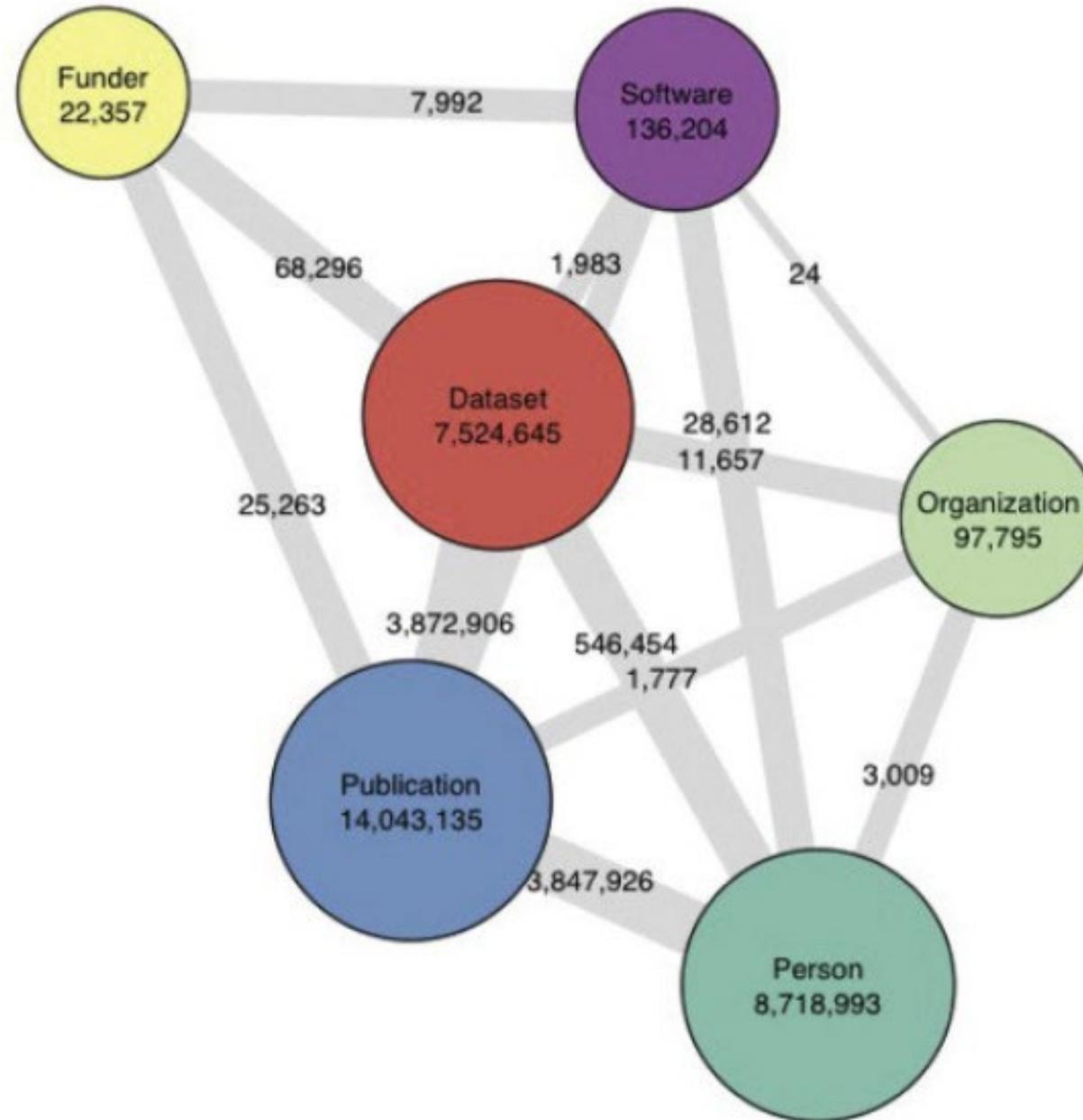


Figure: PID graph as described by FREYA in Aug 2020 – with a strong focus on research outputs

The “Building the Plane” report – and associated case studies



- “... to identify, through investigation, analysis and recommendations, the best possible **strategic and operational paths** to achieve a well-functioning PID infra for KE member states and beyond”
- “... to identify the **main risks** when pursuing a well-functioning PID infrastructure for research, and to better understand the most important elements of **trust** in creating said infrastructure”

The “Building the Plane” report – and associated case studies

Report:

Building the plane as we fly it: the promise of Persistent Identifiers, <https://zenodo.org/record/7258286>

Case studies:

- Adoption of the DAI in the Netherlands and subsequent superseding by ORCID/ISNI, <https://zenodo.org/record/7327505>
- The gradual implementation of organisational identifiers (OrgIDs), <https://zenodo.org/record/7327535>
- PIDs for research instruments and facilities: an emerging PID domain in need of coordination, <https://zenodo.org/record/7330372>
- IGSN – building and expanding a community-driven PID system, <https://zenodo.org/record/7330498>
- RePEc Author Service: An established community-driven PID, <https://zenodo.org/record/7330516>
- Failed PIDs and unreliable PID implementations, <https://zenodo.org/record/7330527>
- The role of research funders in the consolidation of the PID landscape, <https://zenodo.org/record/7258210>

The team behind the study

- Pablo de Castro
Physicist. Open Access Advocacy Librarian at the University of Strathclyde in Glasgow since Jan 2017. Technical Secretary of the Dutch non-profit association euroCRIS since Jan 2018. Former OpenAIRE project officer. Member of the EOSC Association Task Force for PID Policy and Implementation. Associate of scidecode science consulting.
- Ulrich Herb
Sociologist & Information Scientist, since 2001 Open Access expert/ project manager/ head of the Publication and Research Support Department at Saarland University, board member of the learned society for Information Science in the German-Speaking countries. Associate of scidecode science consulting.
- Laura Rothfritz
Research assistant and PhD candidate at the Berlin School of Library and Information Science at Humboldt University Berlin. Associate of scidecode science consulting.
- Joachim Schöpfel
Professor for Information Science at the University of Lille and independent consultant.

Plus the KE PID T&F Group: <https://www.knowledge-exchange.info/event/pids-risk-and-trust>

The team behind the study

The Task & Finish Group for PIDs Risk and Trust

The activity is led by KE representatives Frank Manista (Jisc) and Josefine Nordling (CSC). The Task & Finish Group for this activity consists of experts from across each of the six KE partner countries:

- Rene Belsø (Expert Lead), DeIC, Denmark
- Martin Matthiesen (Expert Co-lead), CSC, Finland
- Pascal Aventurier, IRD, France
- Nathalie Fargier, CNRS, France
- Gaëlle Béquet, ISSN, France
- Jessica Parland-von Essen, CSC, Finland
- Clifford Tatum, CWTS, Netherlands
- Laurents Sesink, Leiden University, Netherlands
- Gül Akcaova, SURF, Netherlands
- Stephanie Palek, Deutsche Nationalbibliothek, Germany
- Jürgen Kett, Deutsche Nationalbibliothek, Germany
- Britta Dreyer, Technische Informationsbibliothek, Germany
- Adam Vials Moore, Jisc, UK
- Hilda Muchando, Human Made / ALTIS, UK
- Kirsty Wallis, University College London, UK

The study

- **Analysis** of the current state of the PID landscape in the six Knowledge Exchange partner countries with a focus on the e-infrastructure for *the currently available PID entities* (eg researchers, institutions, outputs, etc) and *new PIDs* (eg conferences, research equipment, facilities)
- Data collection via **literature study & expert interviews**
- These fed into:
 - the production of seven **case studies** highlighting issues of risk and trust in the PID infrastructure, and
 - the formulation of **recommendations** for good practice and on the best possible strategic and operational paths to achieve a well-functioning PID infrastructure

The interviewees

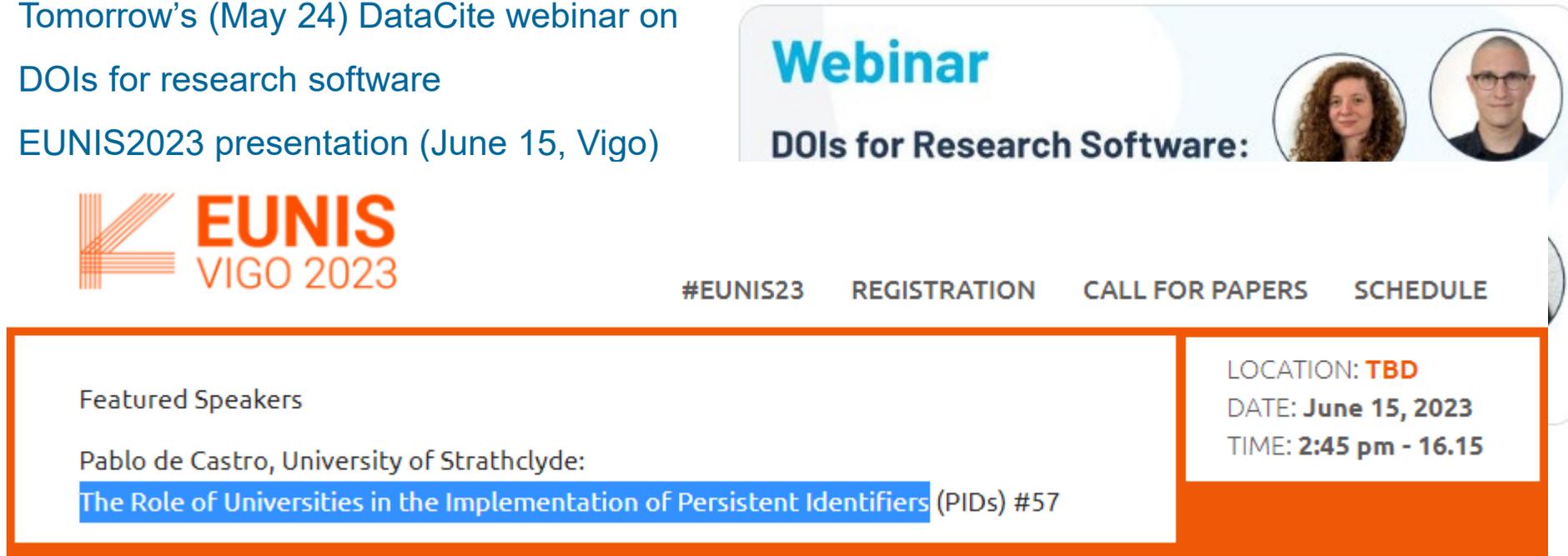
Mathias	Astell	Hindawi	GBR	PID Manager
David	Aymonin	ABES	FRA	PID Authority
Geoffrey	Bilder	CrossRef	GBR	PID Service Provider
Matt	Buys	DataCite	GBR	PID Service Provider
Maria	Cruz	NWO	NL	PID Manager
John	Doove	SURF	NL	PID User
Nathalie	Fargier	CNRS	FRA	PID Owner
Martin	Fenner	formerly Technical Director at DataCite, involved in the FREYA project	GER	PID Manager
Stephanie	Hageman-Wilholt	TIB Hannover/ConfIDent	GER	PID Authority
Juha	Hakala	URN representative, National Library of Finland	FIN	PID Service Provider
Lars	Holm Nielsen	Zenodo	CHE	PID Owner
Karen	Hytteballe Ibanez	DTU - Technical University of Denmark	DNK	PID User
Jens	Klump	IGSN	GER	PID Service Provider
Rachael	Lammey	CrossRef	GBR	PID Service Provider
Dan	Smith	Wellcome Trust	GBR	PID Owner
Mark	van de Sanden	SURF, systems architect	NL	PID Authority
Herbert	Van de Sompel	DANS	NL	PID User
Peter	Verhaar	Leiden University	NL	PID Owner

Some (selective) findings

- PIDs are considered **socio-technical** infrastructures. Trust in organisations or individuals seems to be more important for the acceptance of PIDs than the technology used, as the risks associated with the technology are considered amorphous
- Predominantly mentioned: **well-established PIDs** such as DOI, ORCID and ROR, to a lesser extent emerging PIDs (funder and grant IDs, RAiDs, ConfIDs), standards like URN and schemes like ARK
- Main benefits: **Interoperability, value-added services, availability/interconnectivity** of rich metadata
- Dichotomy of **'technical'** (bottom-up, researcher driven) and **'admin-oriented' PIDs** (top-down, uptake driven by institutions, publishers and research funders)
- **Open source** and **open data** are a key feature for trust and reliability
- Establishing a **community of PID** users is a key factor for success and trustworthiness
- The **implementation of PIDs** requires a strategic analysis
- Significant **PID landscape fragmentation** and **competing initiatives**, though this is not necessarily seen as a major issue

Further opportunities for discussion – mainly with institutions

- Technical discussion on actual PID implementation (UKCoRR – possible)
- Tomorrow's (May 24) DataCite webinar on DOIs for research software
- EUNIS2023 presentation (June 15, Vigo)



The screenshot shows a webinar announcement for 'DOIs for Research Software' at EUNIS VIGO 2023. The webinar is scheduled for June 15, 2023, from 2:45 pm to 16.15. The location is TBD. The featured speaker is Pablo de Castro, University of Strathclyde, presenting 'The Role of Universities in the Implementation of Persistent Identifiers (PIDs) #57'. The announcement includes navigation links for #EUNIS23, REGISTRATION, CALL FOR PAPERS, and SCHEDULE.

Webinar
DOIs for Research Software:

EUNIS VIGO 2023

#EUNIS23 REGISTRATION CALL FOR PAPERS SCHEDULE

Featured Speakers

Pablo de Castro, University of Strathclyde:
The Role of Universities in the Implementation of Persistent Identifiers (PIDs) #57

LOCATION: **TBD**
DATE: **June 15, 2023**
TIME: **2:45 pm - 16.15**

- ZBW OS Conference (June 29, online, <https://www.open-science-conference.eu/>)
- LIBER2023 presentation (July 7, Budapest, <https://liberconference.eu/programme/>)



More information:

www.knowledge-exchange.info

Continue the conversation:

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Thanks – Any questions?

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