



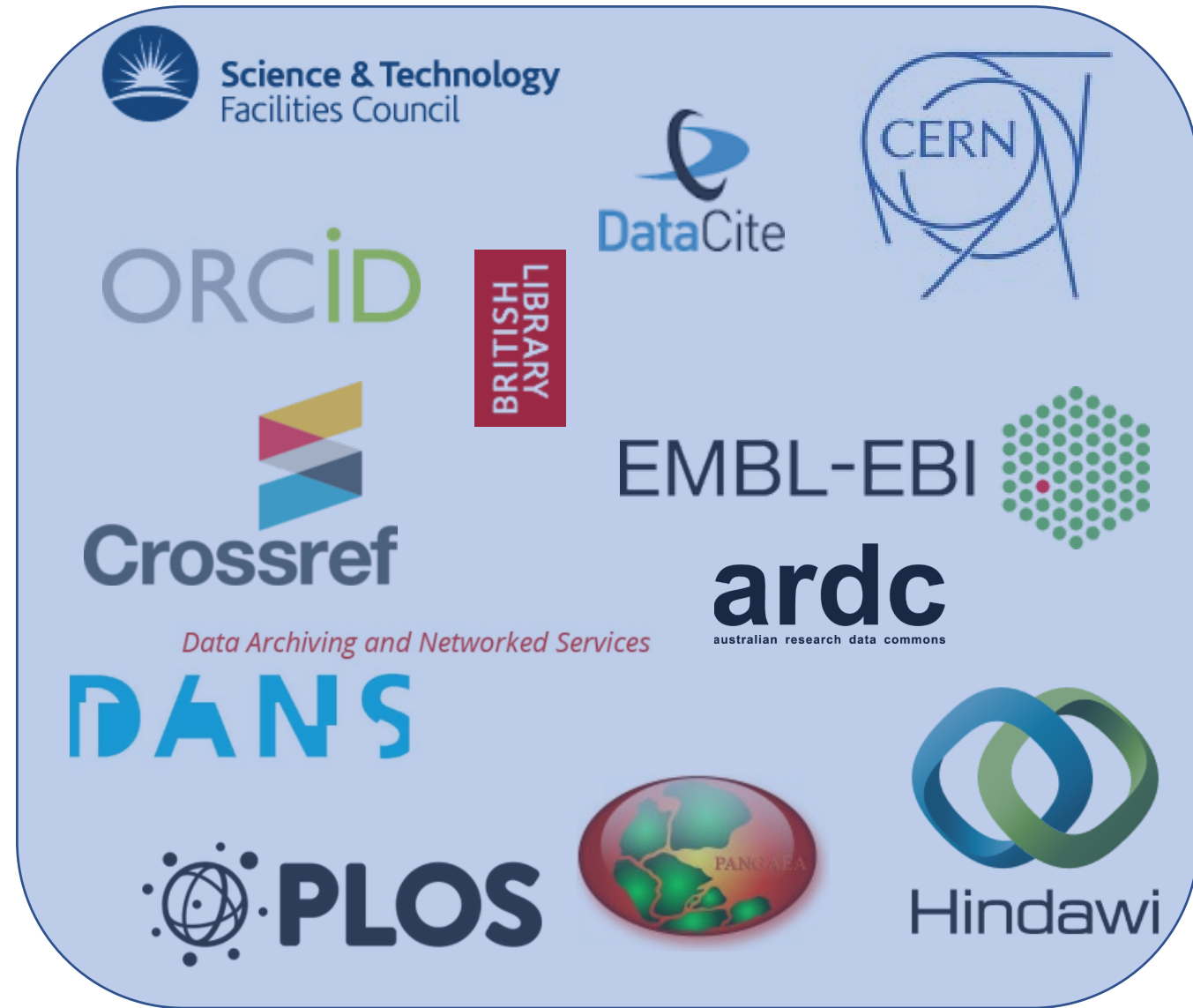
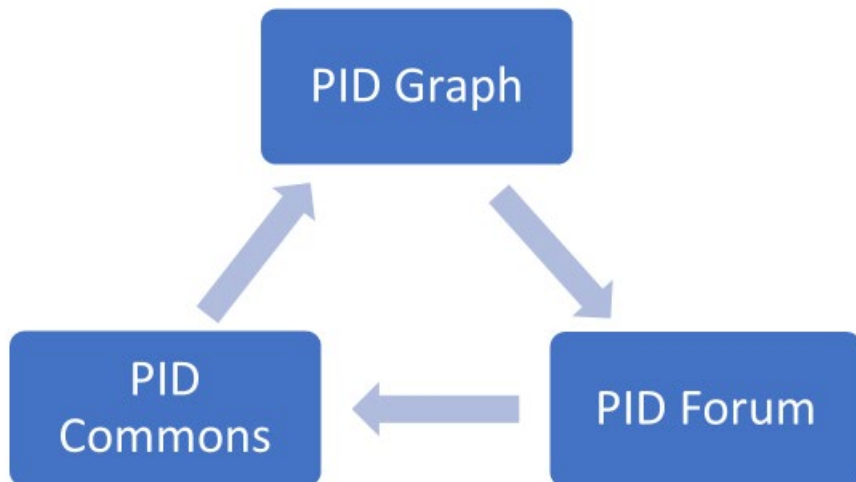
ESFRI Workshop on RIs and EOOSC

London, 30 January 2019

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UKRI-STFC
FREYA Project Coordinator

FREYA = infrastructure for persistent identifiers

- In the EOSC and globally
- Builds on THOR and ODIN
- Three pillars of FREYA



Persistent identifiers and FAIR data

- Findable / Accessible / Interoperable / Reusable

To be Findable:

F1. (meta)data are assigned a globally unique and eternally persistent identifier.

F2. data are described with rich metadata.

F3. (meta)data are registered or indexed in a searchable resource.

F4. metadata specify the data identifier.

TO BE ACCESSIBLE:

A1 (meta)data are retrievable by their identifier using a standardized communications protocol.

A1.1 the protocol is open, free, and universally implementable.

A1.2 the protocol allows for an authentication and authorization procedure, where necessary.

A2 metadata are accessible, even when the data are no longer available.

Persistent identifiers in the EOSC

- PIDs as core service
 - Identification and resolution to digital objects
- PIDs as end-user service
 - Following links, browsing and exploration
 - Range of real-world “objects”
- PIDs as building blocks for other services
 - PID graphs
 - Still wider range of “objects” of interest

What will FREYA offer to RIs?

Bases for
building PID
graphs to
satisfy needs

As a funder, I want to track down the outcomes and beneficiaries of PhD studentship awards that I granted. There are many possible questions to be answered (with the help of PID graph):

- whether the PhD studentship actually ended in thesis, how to find and how to cite this thesis,
- what organizations benefited from PhD during or soon after the PhD research period, e.g. by hiring the PhD that I sponsored,
- who co-funded or otherwise supported the PhD research,
- what artefacts (papers, data, software, samples, instruments, ...) can be identified that either contributed to the PhD research or are the PhD research outcomes.

This issue is related to [#35](#) and in part to [#68](#) (as facilities are frequent supporters of PhDs).

As a facility, I would like to track the published output related to the instruments provided. Also, i would like to be able to evaluate their impact.

What will FREYA offer to RIs?

- (New) types of PID and connections between PIDs
- Support through APIs, metadata, best practices, training, ...



Project Name **FREYA**
Project Title **Connected Open Identifiers for Discovery, Access and Use of Research Resources**
EC Grant Agreement No **777523**

D3.1 Survey of Current PID Services Landscape

Deliverable type Report
Dissemination level Public
Due date 31 May 2018
Authors Christine Ferguson, Jo McEntyre (EMBL-EBI)
Vasily Bunakov, Simon Lambert (STFC)
Stephanie van der Sandt (CERN)
Rachael Kotirani, Sarah Stewart, Andrew MacEwan (BL)
Martin Fenner, Patricia Cruise (DataCite)
René van Hork (DAMS)
Tina Dohna, Keril Kooz-Jacobsen, Uwe Schindler (PANGAEA)
Siobhan McCafferty (IANDS)
Abstract A comprehensive survey of the landscape of persistent identifiers across many disciplines is presented, with assessments of maturity of different PID types and conclusions for the future.
Status Submitted to EC 17 July 2018

The FREYA project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777523.



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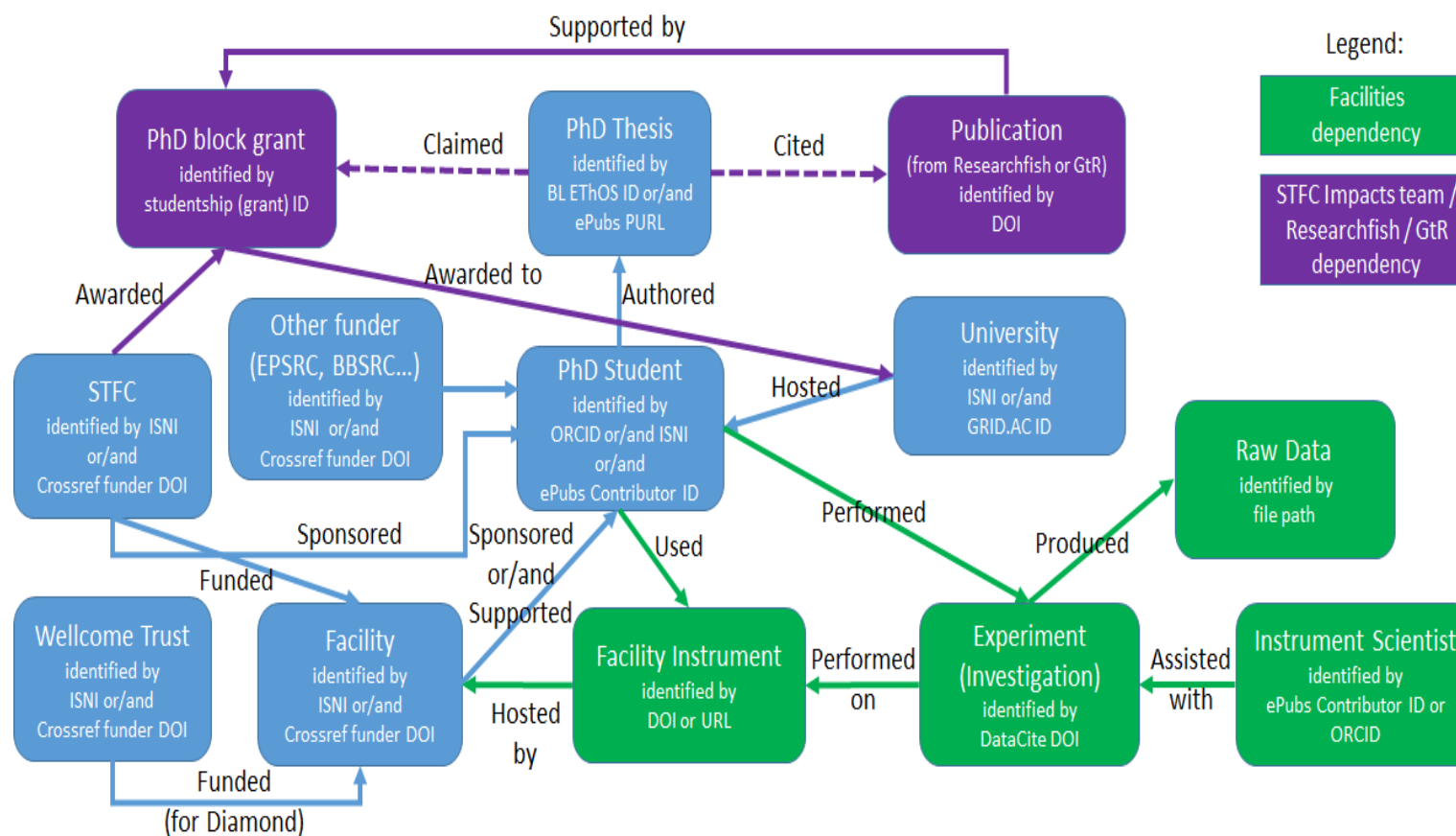
D2.1 PID Resolution Services Best Practices

Deliverable type Report
Dissemination level Public
Due date 31 May 2018
Authors Sarah Wimalaratne (EMBL-EBI)
Martin Fenner (DataCite)
Abstract This report describes approaches to PID resolution, and sets out best practices to be followed as well as future work in the area and a survey of the practices of different disciplines.
Status Submitted to EC 25 June 2018

The FREYA project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777523.

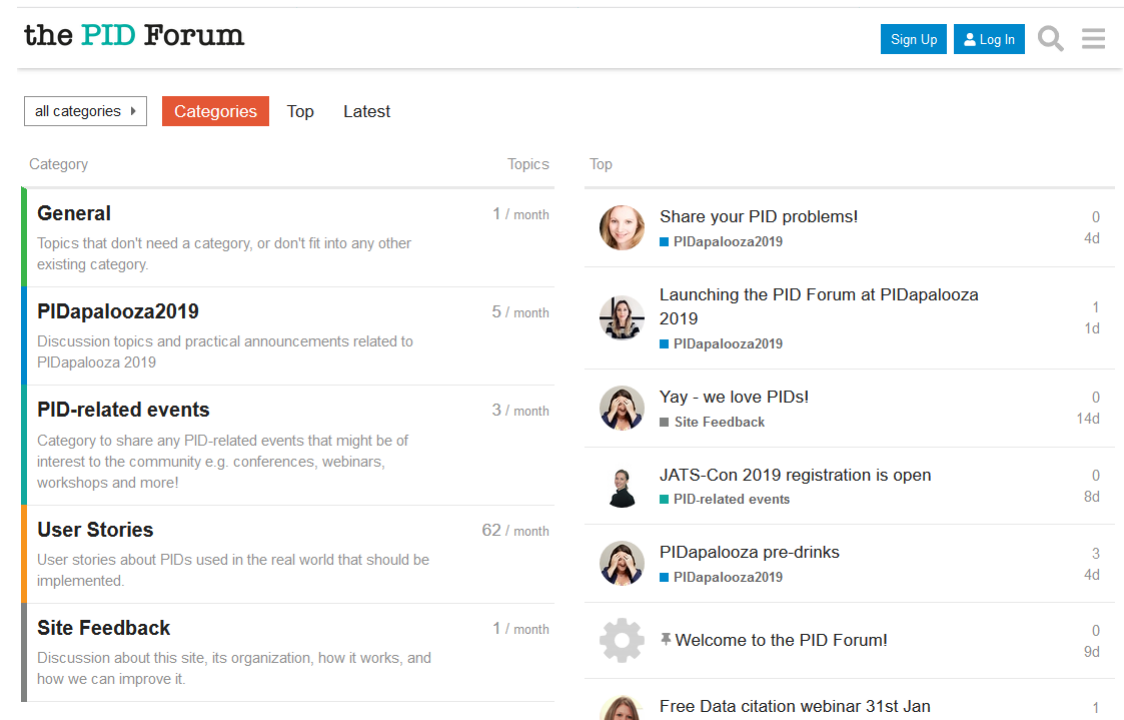


Example of extended PID graph



Engagement and sustainability

- Take a look at www.pidforum.org!
- Aspects of sustainability
 - Trust
 - Governance
 - Adaptability



The screenshot shows the 'the PID Forum' website. At the top right, there are links for 'Sign Up' and 'Log In', along with a search icon and a menu icon. Below the header, there is a navigation bar with 'all categories' (a dropdown menu), 'Categories' (a red button), 'Top', and 'Latest'. The main content area is divided into two columns: 'Category' and 'Top'. The 'Category' column lists several categories with their respective topic counts and descriptions:

Category	Topics
General Topics that don't need a category, or don't fit into any other existing category.	1 / month
PIDapalooza2019 Discussion topics and practical announcements related to PIDapalooza 2019	5 / month
PID-related events Category to share any PID-related events that might be of interest to the community e.g. conferences, webinars, workshops and more!	3 / month
User Stories User stories about PIDs used in the real world that should be implemented.	62 / month
Site Feedback Discussion about this site, its organization, how it works, and how we can improve it.	1 / month

The 'Top' column lists several recent topics with their authors and dates:

Topic	Author	Date
Share your PID problems!	PIDapalooza2019	4d
Launching the PID Forum at PIDapalooza 2019	PIDapalooza2019	1d
Yay - we love PIDs!	Site Feedback	14d
JATS-Con 2019 registration is open	PID-related events	8d
PIDapalooza pre-drinks	PIDapalooza2019	4d
Welcome to the PID Forum!		9d
Free Data citation webinar 31st Jan		1