



# Second EOSC Stakeholders Forum

## Vienna, 21–22 November 2018

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# The FREYA partners



# 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

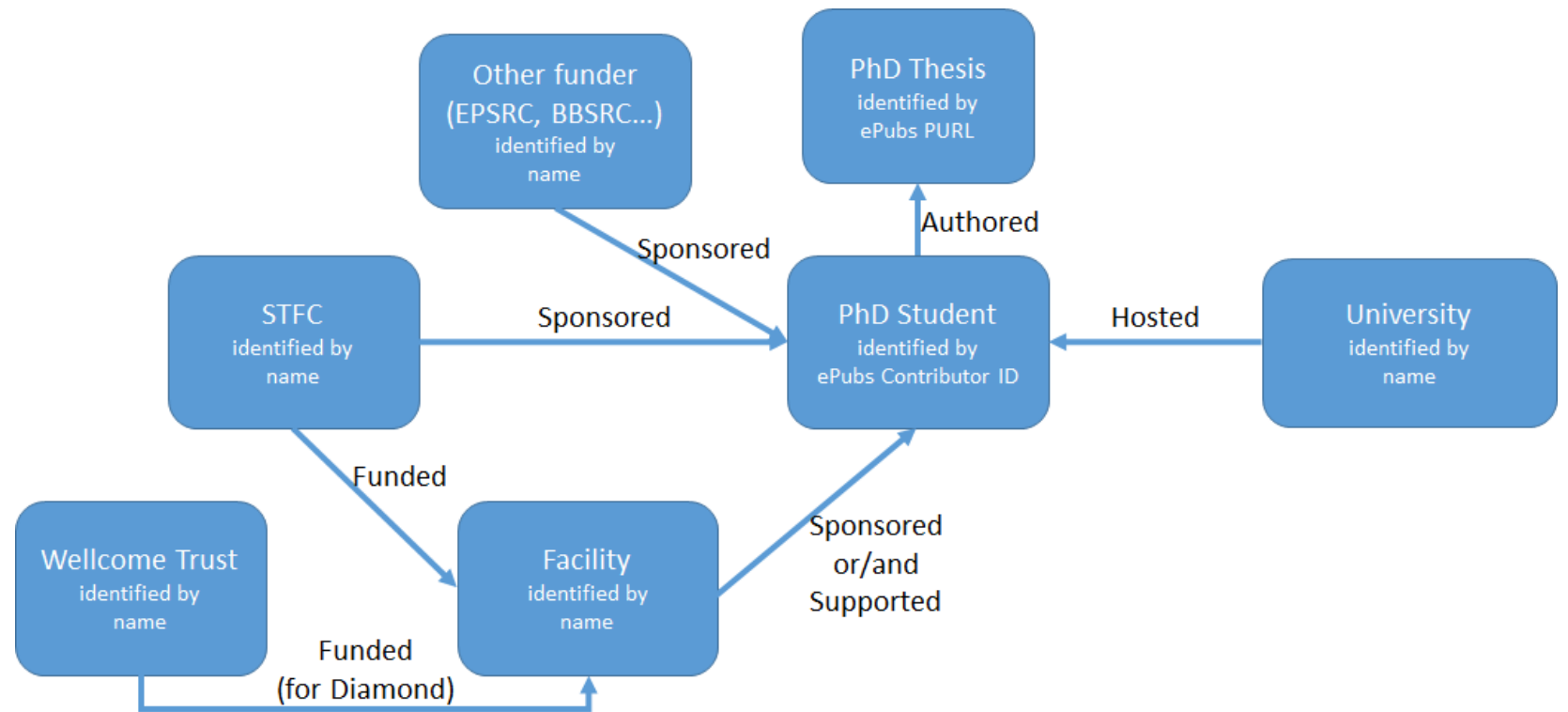
- PIDs as core service
  - Identification and resolution to digital objects
- PIDs as end-user service
  - Following links, browsing and exploration
  - Range of real-world “objects”
- PIDs as building blocks for other services
  - PID graphs
  - Still wider range of “objects” of interest

*FREYA's overall goal: “... iteratively extend a robust environment for Persistent Identifiers (PIDs) into a core component of European and global research e-infrastructures”*

# The PID Graph

- Basis for new services in multiple domains

*A PID graph around PhD theses at STFC*



# Some areas of work for FREYA

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



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 Kolarik, Sarah Stewart, Andrew MacEwan (BL)  
Martin Fenner, Patricia Cruise (DataCite)  
René van Hork (DAMS)  
Tara Dolera, Ketil Kopp-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.



# The three pillars of FREYA

