



# FREYA

**Connected Open Identifiers for Discovery, Access  
and Use of Research Resources**

*RDA Plenary Meeting, Berlin, March 2018*

# PIDs



A Long-lasting stable reference to a resource

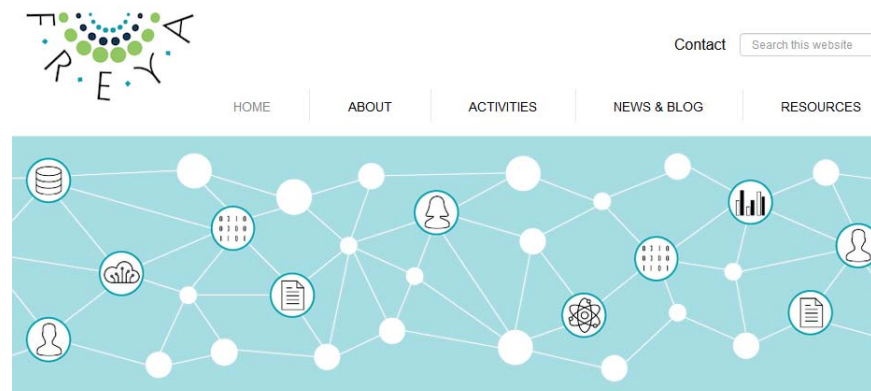
- To know what you are talking about really is what you are talking about
  - Especially when they are outside your control
- Maintaining integrity as
  - Resources change, versions, rewrites
  - Resources move around
- Publishing into the scholarly record
  - Citation
  - Credit
  - Reproducibility
  - Reuse

**The PID Graph forms a superstructure, holding the dynamic, moving parts of the EOSC in place**

# FREYA in a nutshell



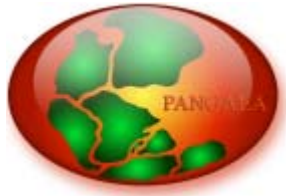
- FREYA = persistent identifiers
  - “... iteratively extend a robust environment for Persistent Identifiers (PIDs) into a core component of European and global research e-infrastructures”
- Builds on THOR (which in turn built on ODIN)
- Started 1 December 2017
- [www.project-freya.eu](http://www.project-freya.eu)



Welcome to FREYA

Connected Open Identifiers for Discovery, Access and Use of Research Resources

# The FREYA partners



*Data Archiving and Networked Services*



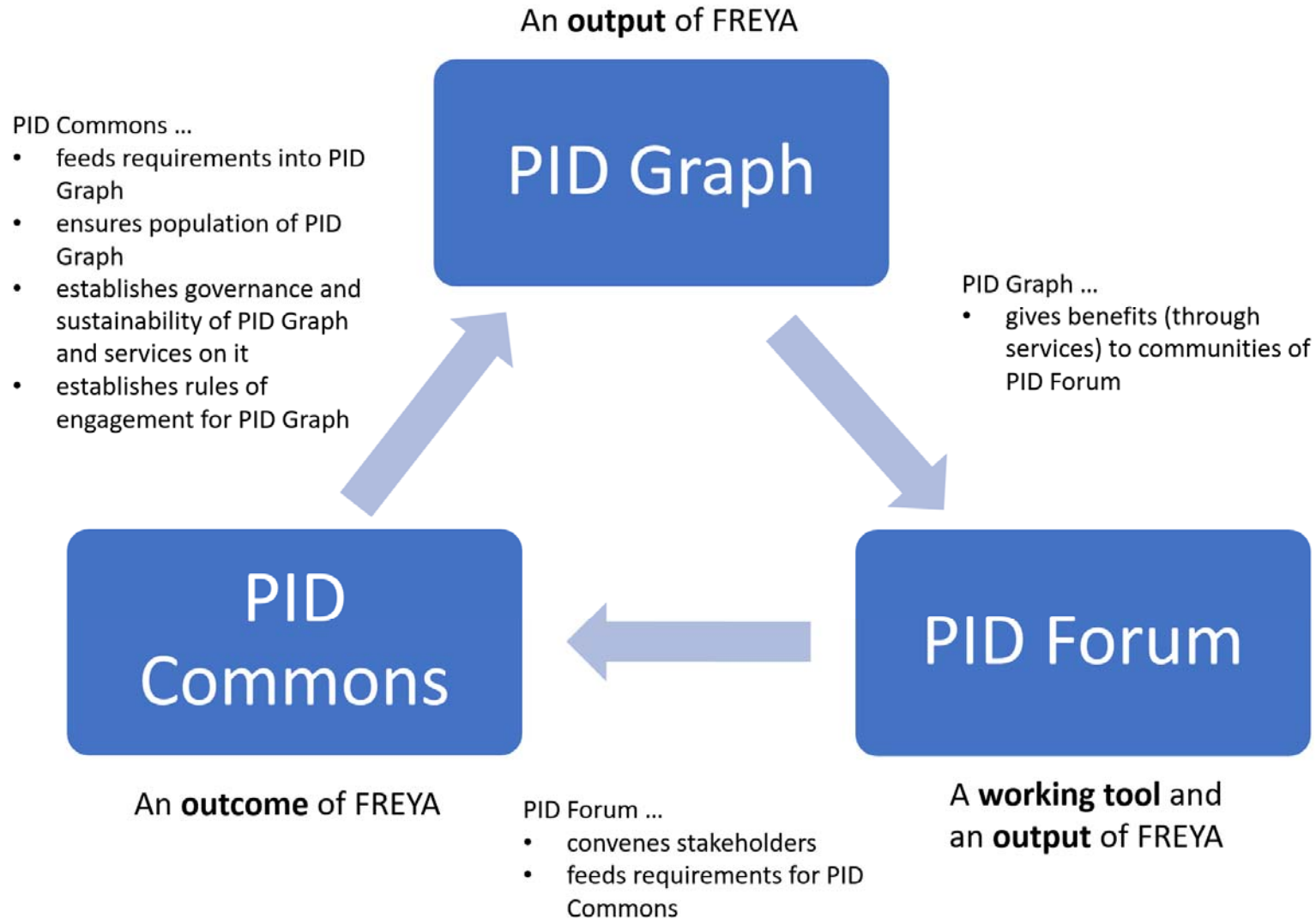
# Basic ideas of FREYA



- PID Graph as the driving vision
- Harmonising PID services and providers
- New types of entity with PIDs
  - E.g. Instrument pids
- Support for research workflows

**Goal of open and trusted PID infrastructure provision within  
European Open Science Cloud and globally**

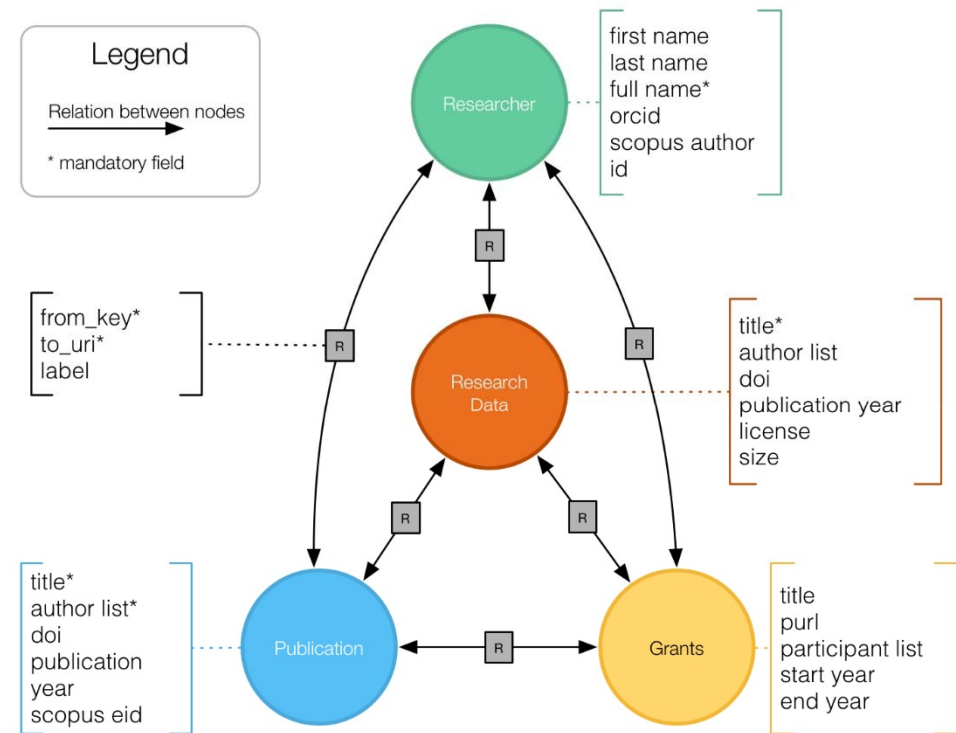
# Three pillars of FREYA



# Building the PID Graph



- Developing a schema and tools to represent and use the PID graph
- Amir Aryani (ANDS)
  - <http://researchgraph.org/>
- Developed by: RDA Data Description Registry Interoperability WG
  - <https://rd-alliance.org/groups/data-description-registry-interoperability.html>
- Should take into account other work:
  - Research Objects
  - PROV-O
  - DCAT
  - CERIF
  - ...



Research Graph Meta Model

Version 2.0 (Aug 2016)

# Disciplinary pilot applications



- FREYA's own disciplinary pilot applications
  - British Library, DANS: humanities and social sciences
  - CERN: high-energy physics
  - EMBL: life sciences
  - PANGAEA: earth and environmental sciences
  - STFC: facilities-based science
- Each building a part of the PID Graph ...



# The PID Forum



- FREYA's PID Forum will be closely linked to the RDA
  - “The PID Forum is a stakeholder community, whose members collectively oversee the development and deployment of new PID types; it will be strongly linked to the Research Data Alliance (RDA).”
- A foundation for the future PID Commons
- We look forward to working with you!