

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

Vasily Bunakov (STFC UKRI, FREYA project)



DARE, DEEP and XDC clustering workshop in Athens, July 2019

FREYA in a nutshell

- FREYA is a Horizon 2020 project (grant agreement no. 777523)
- FREYA is about persistent identifiers and connections between them
 - “... 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)

www.project-freya.eu

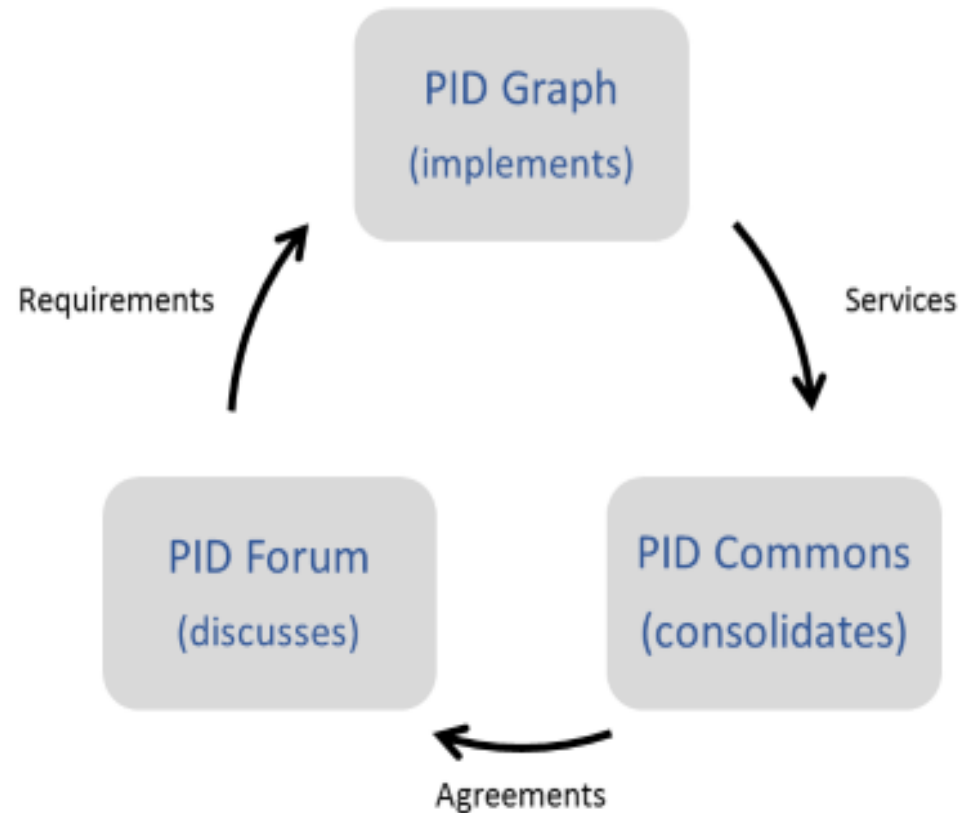


PID Forum: www.pidforum.org

FREYA partners



Key concepts of FREYA

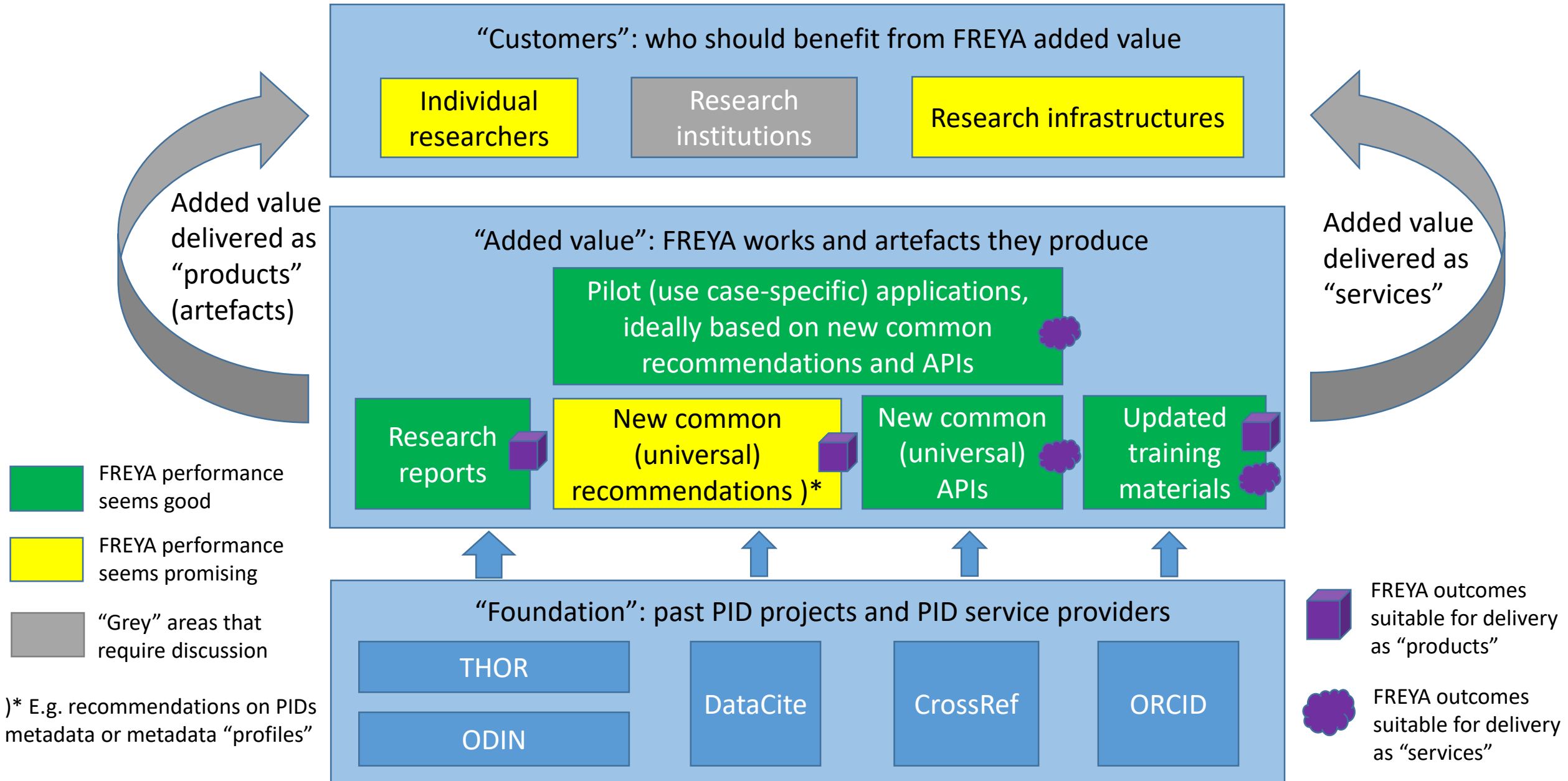


Your active participation in PID Forum will be very welcome.
Please join at www.pidforum.org

Important FREYA themes

- New types of entities with PIDs, e.g. Organizations, Grants, Instruments. Connections with RDA on some types, e.g. Persistent Identification of Instruments WG (nearing the end of the WG lifecycle and looking for pilots).
- PID Graph as the driving vision. A natural connection with RDA will be Open Science Graphs for FAIR Data IG (in community review at the moment).
- Goal of open and trusted PID infrastructure provision within European Open Science Cloud and globally (so FREYA delegates people in the EOSC WGs)

FREYA value proposition



How we develop pilots: with user stories

The screenshot shows a web browser window with two tabs: 'The PID Forum - The PID' and 'Tracking down PhD studentship outcomes, beneficiaries, co-funders and supporters #69'. The address bar shows the URL 'https://github.com/datacite/freya/issue'. The page content includes a title, a 'New issue' button, an 'Open' status, and a comment from user 'vasilyb' dated 14 Aug 2018. The comment contains a user story and a list of questions. A right-hand sidebar lists labels such as 'British Library', 'DataCite', 'PID Graph', 'STFC', 'WP3', 'article', 'data', 'funder', 'instrument', 'organization', 'person', 'researcher', 'software', and 'user story'. A bottom section shows a list of labels added by 'vasilyb' and 'uschindler'.

The PID Forum - The PID × Tracking down PhD studentship outcomes, beneficiaries, co-funders and supporters #69

GitHub, Inc. (US) | https://github.com/datacite/freya/issue Search

Tracking down PhD studentship outcomes, beneficiaries, co-funders and supporters #69

New issue

Open vasilyb opened this issue on 14 Aug 2018 · 1 comment

vasilyb commented on 14 Aug 2018 · edited

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).

Assignees
No one assigned

Labels
British Library
DataCite
PID Graph
STFC
WP3
article
data
funder
instrument
organization
person
researcher
software
user story

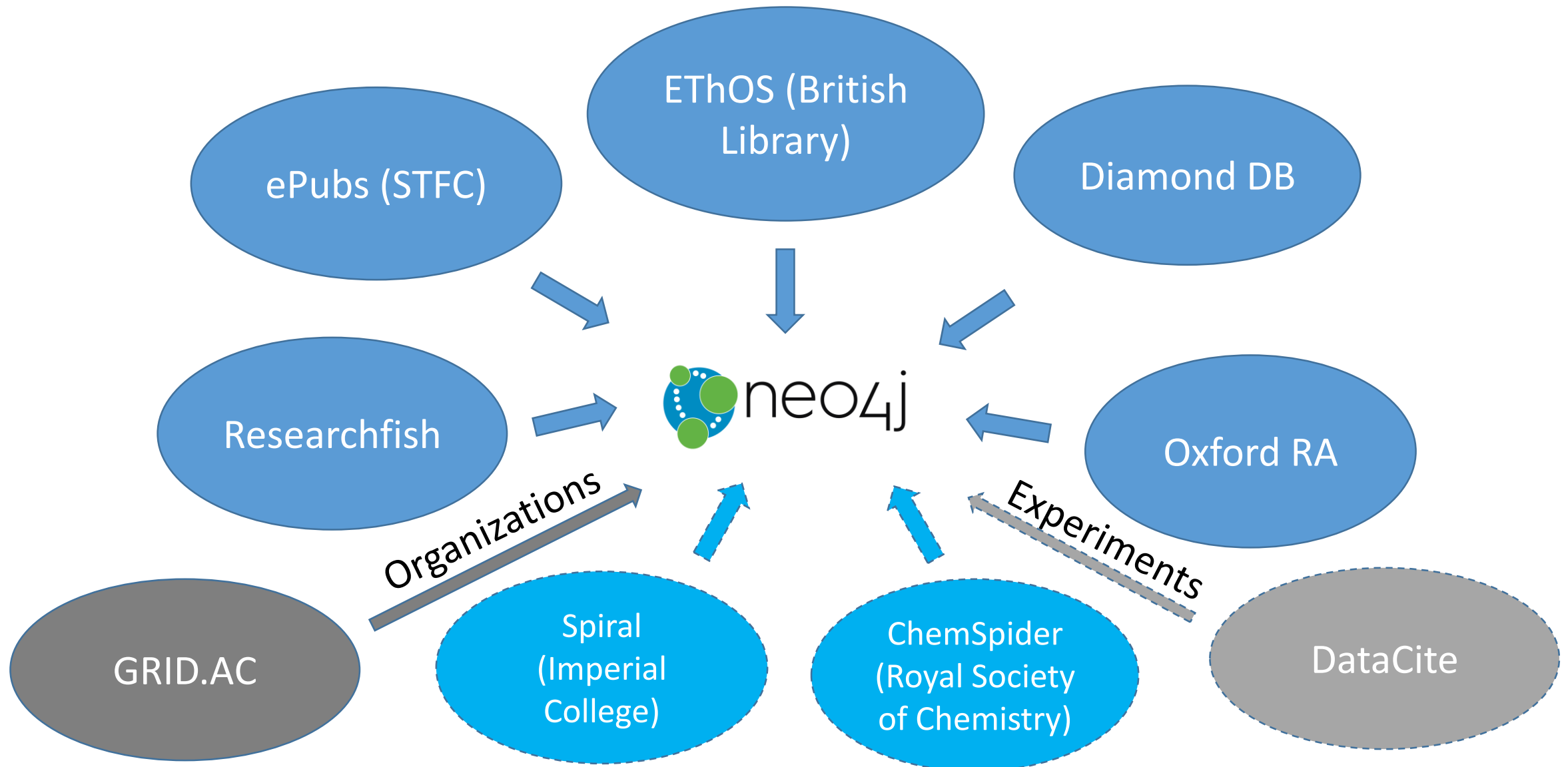
vasilyb added researcher STFC data instrument article person organization software funder labels on 14 Aug 2018

uschindler added the PID Graph label on 22 Aug 2018

Why the PhDs use case is important for FREYA (as an example of use case-driven approach)

- **Collaboration:** British Library and STFC are the FREYA partners and operate repositories that can be used for data integration
- **Validation** of new PID services – for Organizations and Instruments – and supplying feedback for their improvement
- **Demonstration** of PID graph value in a disciplinary context
- **Integration** of a disciplinary graph in a common PID graph via reasonable interfaces

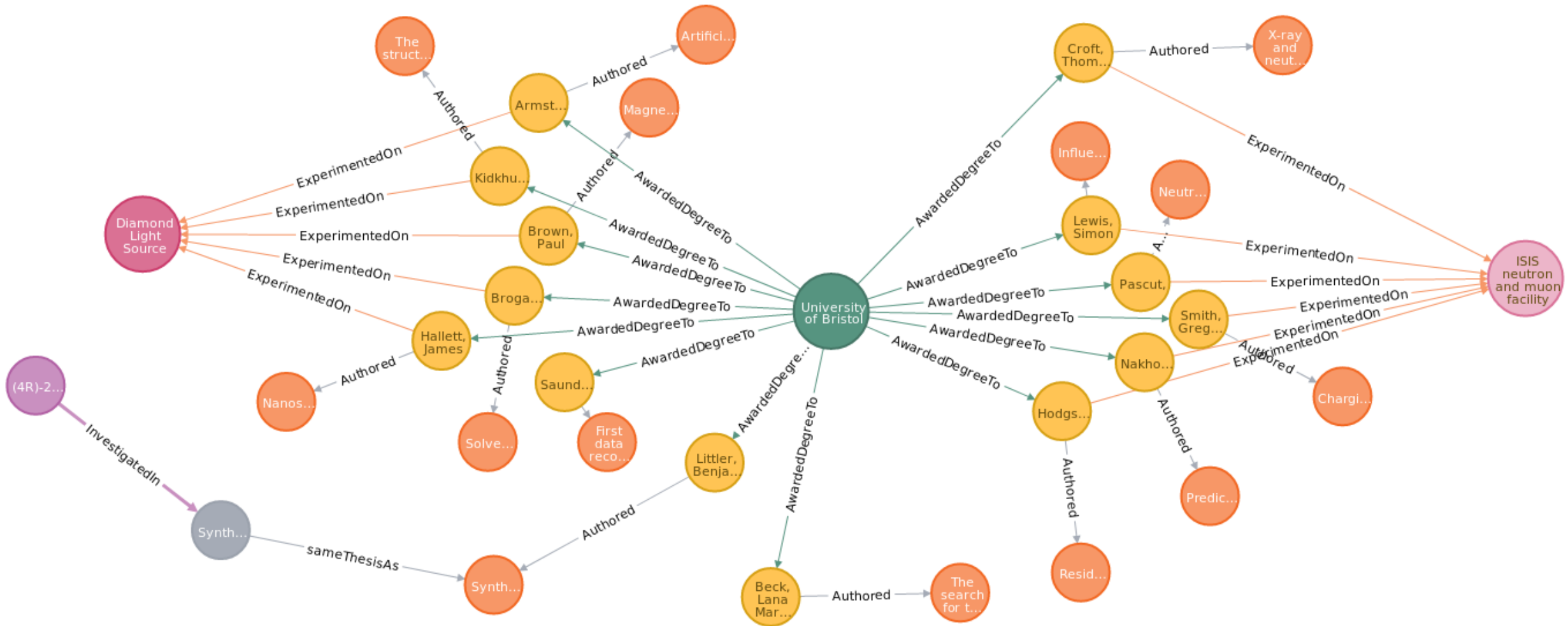
Data sources to integrate



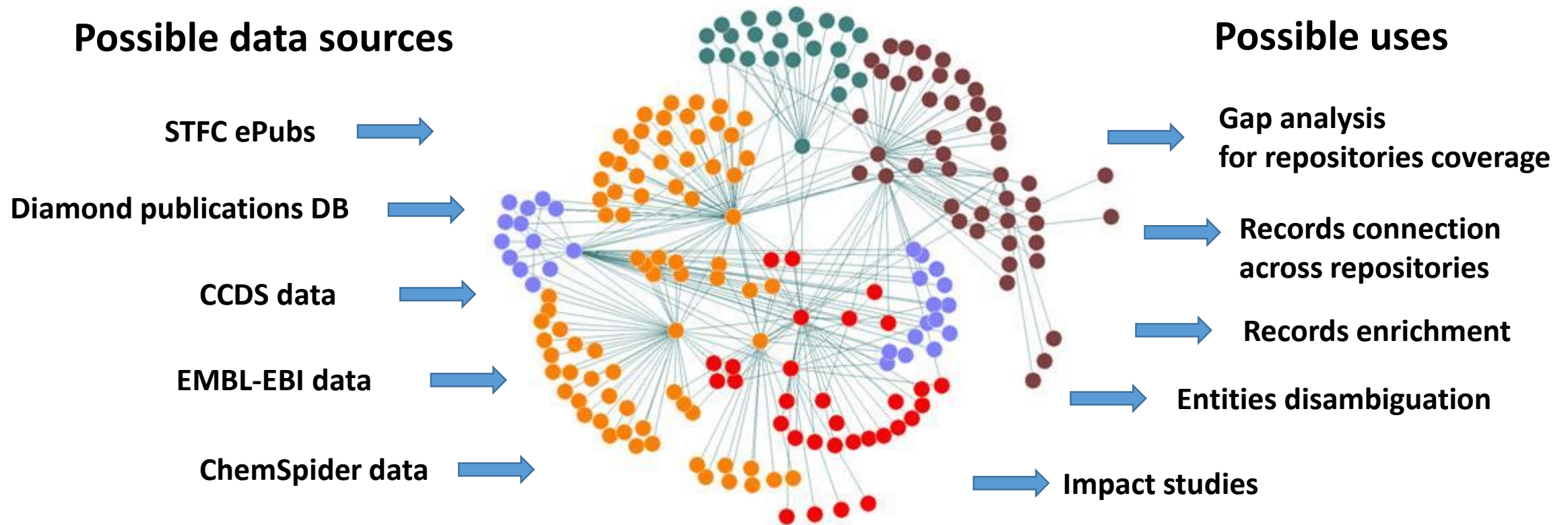
Imperial College PhDs who experimented on STFC facilities



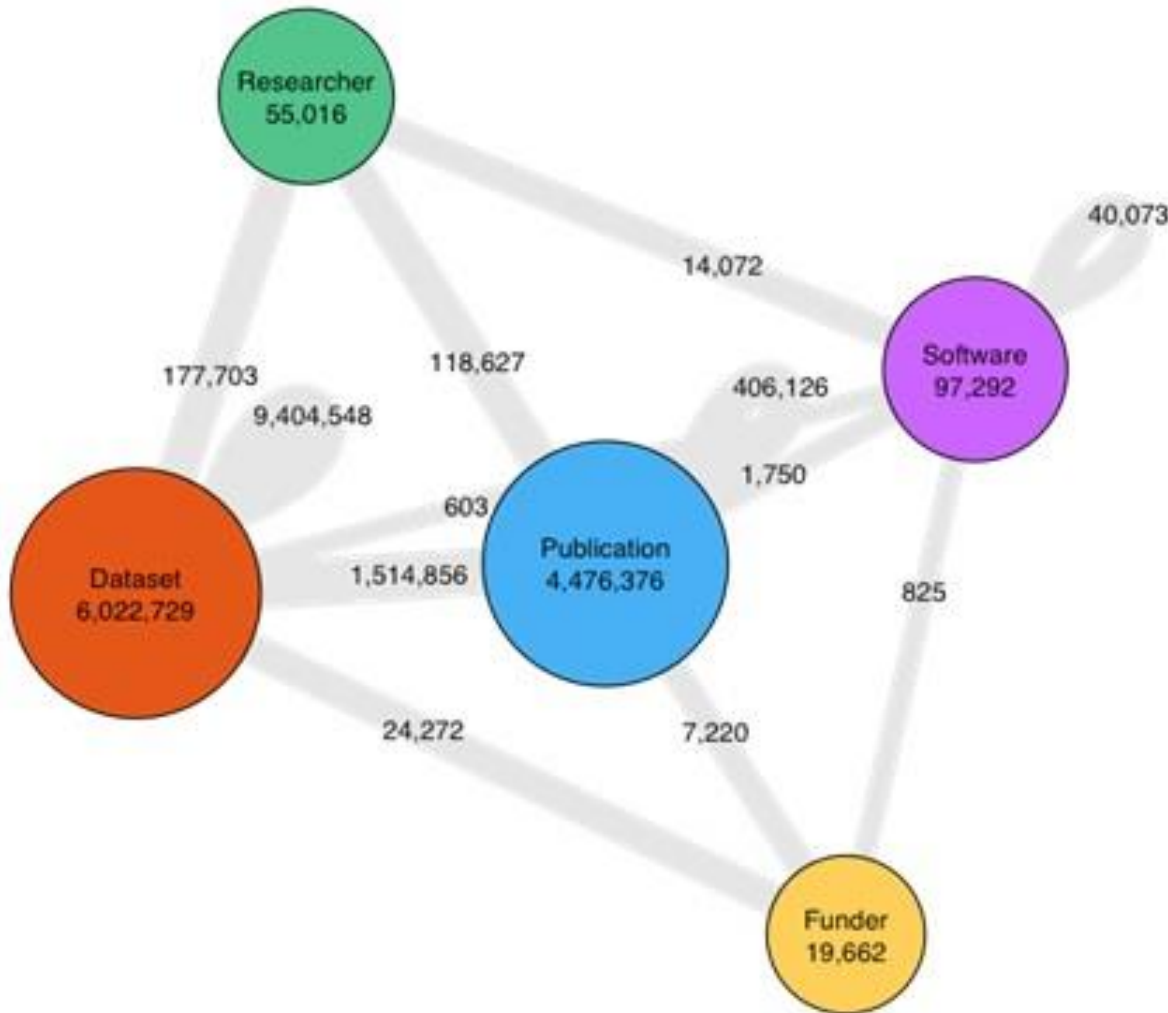
Another graph example (with connections to EThOS and ChemSpider)



Support of impact studies is not the only purpose,
also PhD theses records can be just a “seed” of a larger graph.
PID graph is a (new kind of) infrastructure for Open Science



Another vision of PID graph: a federation or services with a common GraphQL API



See Martin Fenner's blogpost:
<https://doi.org/10.5438/bv9z-dc66>

See also Jupyter notebooks:
<https://github.com/datacite/notebooks>

See also the section of PID Forum devoted to PID graphs: <https://www.pidforum.org/c/pid-graph>

Specific PID types of a potential interest for e-infrastructures

Emerging PID types

- Organizations
Research Organization Registry <https://ror.org/>
- Instruments
RDA Persistent Identification of Instruments WG

Established PID types

- Researchers
ORCID's for earlier stages of research lifecycle, e.g. for research resources used <https://orcid.org/organizations/research-orgs/resources>
- Datasets
More e-infrastructures datasets may require clear identification and at least basic metadata assigned

How e-infrastructures can contribute and benefit from the PID infrastructure

- Follow PID Forum at www.pidforum.org and contribute to it with your own best practices of PIDs use and integration
- Comment on FREYA pilot applications, and modify / bend them towards your own needs. Specifically, tell us whether you feel the GraphQL APIs can be a way forward for the integration of PIDs infrastructure in your community
- Contribute to one or more RDA groups, notably to Persistent Identification of Instruments WG (results adoption phase) and to Open Science Graphs for FAIR Data IG (community review and then the actual works of the group)
- Become a PIDs Ambassador, or nominate one in your project or organization. See FREYA Ambassador Programme at <https://www.project-freya.eu/en/ambassadors/ambassador-programme>
- Plan for joint training events, live and online?

Thank you!



Web: www.project-freya.eu

Email: info@project-freya.eu

Twitter: [@freya_eu](https://twitter.com/freya_eu)

PID Forum: www.pidforum.org



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