

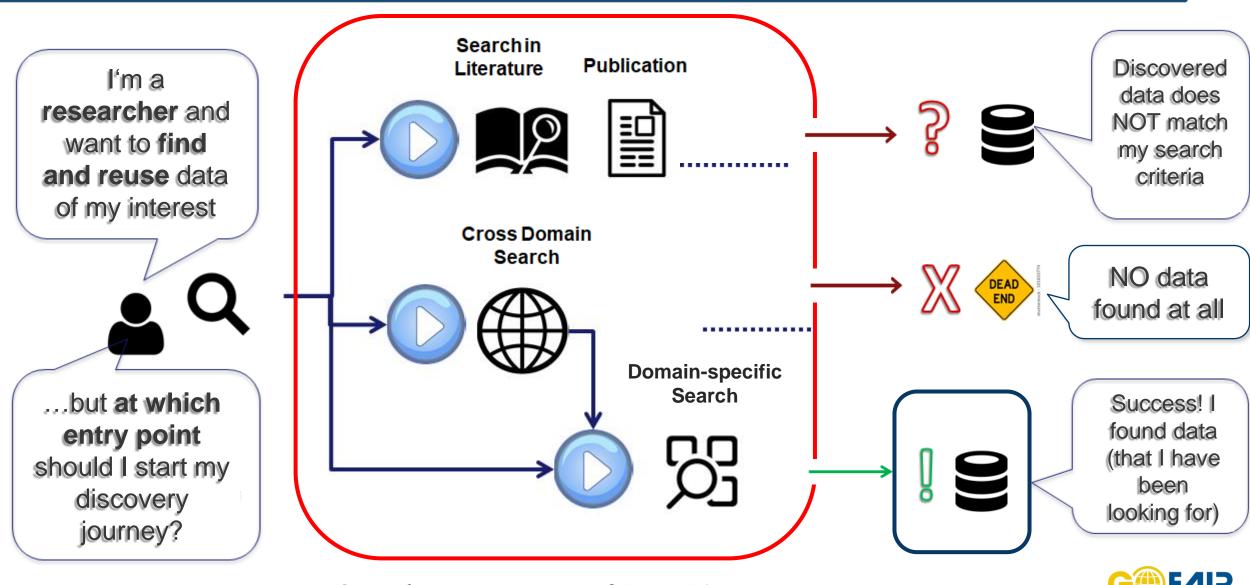
# GO FAIR in Practice: The Discovery Implementation Network

Peter Kraker (Open Knowledge Maps)





#### Motivation



Complex ecosystem of Data Discovery



#### Motivation

Up to 85% of datasets are not reused (Peters et al. 2016)

→ Discoverability is a key challenge when it comes to research data

Lack of adequate user interfaces for data discovery

- Simple reuse of existing interface concepts for publications
- Design from the system's rather than the user's perspective

New market entrants following a closed/proprietary model

- Not suitable for the Internet of FAIR Data and Services
- Creates new (pay)walls and prevents innovation



## FAIR DSCOVERY





























































#### **GO FAIR Implementation Network Discovery**

#### **Topic:** Open User Interfaces for Increased Visibility of Research Results

#### Membership:

#### Personal members:

Julien Colomb - Humboldt-Universität zu Berlin Tina Heger - University of Potsdam and Technical University of Munich

Francesca Di Donato - CNR Aaron Tay - Singapore Management University

#### Organisational members:

Open Knowledge Maps (chair) HIIG

GESIS - Leibniz Institute for the Social Sciences (co-chair) Hypothes.is

OpenAIRE (co-chair) IGB - Leibniz-Institute of Freshwater Ecology and Inland Fisheries

AfricArxiv Impactstory

BASE Know-Center

Berlin School of Library and Information Science, HU Berlin Net7

Bioschemas NIOO-KNAW

CESSDA ERIC OPERAS

CORE ORCID

DataCite ReFigure

DARIAH-EU Scholia

Elixir-fr TIB - Leibniz Information Centre for Science and Technology

EUDAT ZB MED - Information Centre for Life Sciences

Helmholtz Centre for Infection Research (HZI)

ZBW - Leibniz Information Centre for Economics



#### Purpose

Provide user interfaces and other user-facing services for data discovery across disciplines

Explore new and innovative ways of enabling discovery (e.g. visualizations, recommender systems, semantics, content mining, annotation, responsible metrics)

Apply user involvement and participatory design, going beyond academia



#### **Objectives**

Improve visibility and discoverability of research data across disciplines

Increase reuse of FAIR data and therefore efficiency and effectiveness of research

Provide open alternatives to closed and proprietary infrastructures for data discovery



### Workplan

Stocktaking of relevant use cases as well as indices, interfaces and services

Structuring: Defining the standards and structure of an open ecosystem for discovery that fulfils the use cases

Implementation: Working towards implementation of the ecosystem







#### Large-scale Use Case Collection

"As a [role] I want to [goal] so that [benefit]"

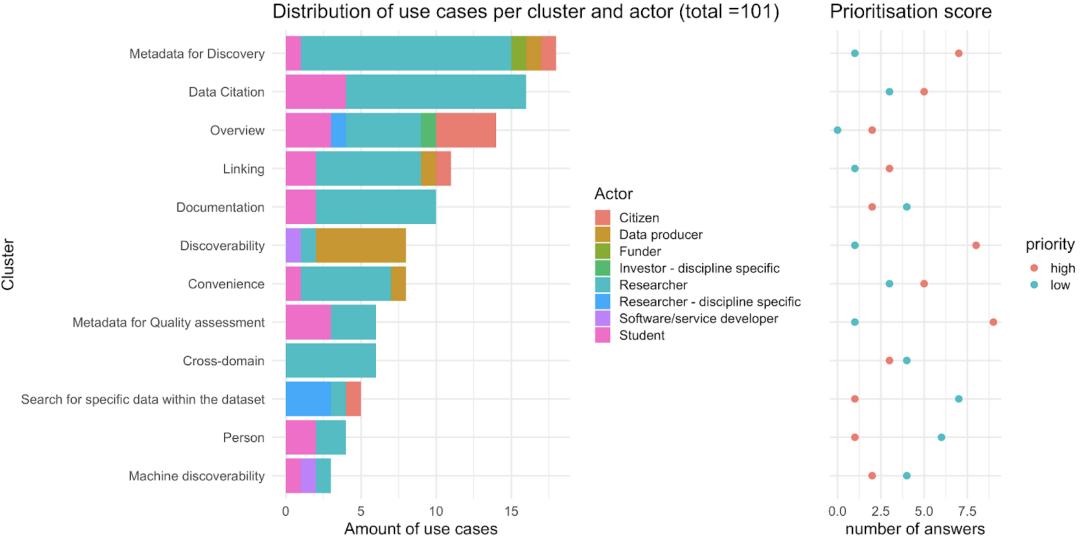
"As a researcher, I want to get an overview of datasets in my field so that I can determine which data I can reuse"

Over 100 such use cases were collected since 2019 Sources: own input, workshops, studies, interviews, existing use case collection from the RDA IG Data Discovery

Elaborate analysis: annotation with entities, thematic clustering, and initial community prioritization



#### Results





#### Summary/conclusions

Most use cases described scenarios that current infrastructure do not provide or provide badly

Example: "As a researcher, I want to find datasets that are similar to those that I used before, so that I can expand and compare my studies"

Reveals Crucial Requirements for the Data Discovery Infrastructure

Open dataset with accompanying paper will soon be published







### The cosmos of discovery services





#### Research infrastructures \*DARIAH-EU Collaborative EUDAT Data Infrastructure **OPERAS D4SCIENCE**















**Aggregators** 











services

















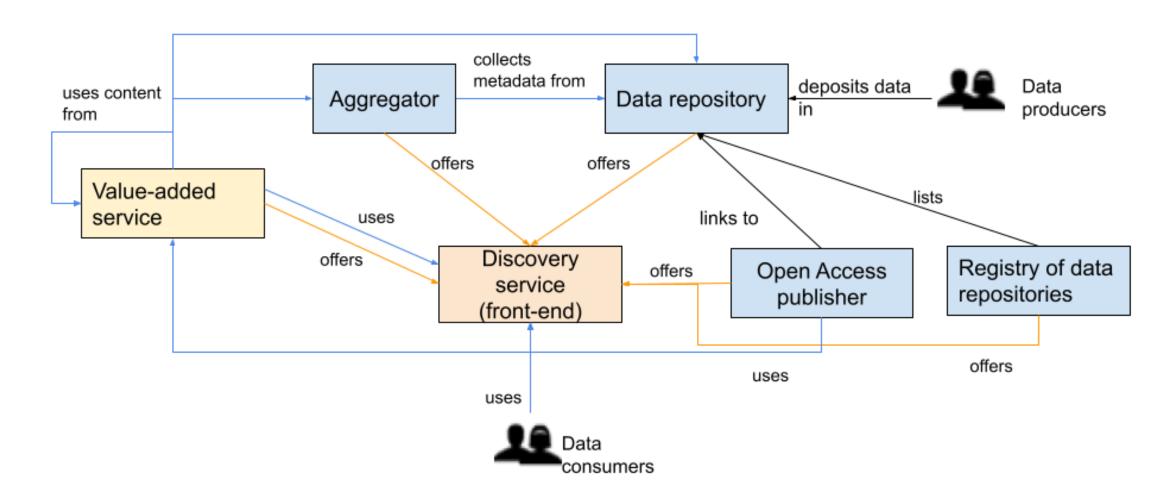


## Actions of the IN

01	Analyse	the open e-infrastructures for data discovery
02	Categorize	actors and their services, highlight their relationships
03	Identify gaps	in the data discovery workflow
04	Suggest	guidelines for users and implementers



#### Interactions among the actors in the system





#### Next steps

Stocktaking of relevant use cases as well as indices, interfaces and services

Structuring: Defining the standards and structure of an open ecosystem for discovery that fulfils the use cases

Implementation: Working towards implementation of the ecosystem





## How YOU can get involved



## How YOU can get involved

Join an existing Implementation Network: <a href="https://www.go-fair.org/implementation-networks/overview/">https://www.go-fair.org/implementation-networks/overview/</a>

Start your own Implementation Network

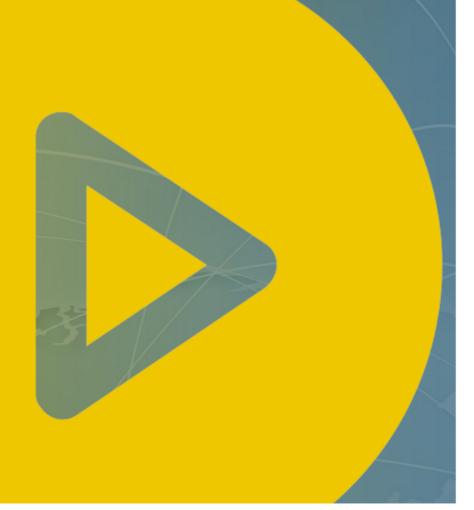
- Gather your collaborators and register your interest with GO FAIR
- Prepare a manifesto (brief, high-level description in 2 pages)
- Submit your manifesto to GO FAIR for approval

For more information, join us for the FAIR Festival, 21-23 June!





... starts
where
you stop!





## THANK YOU FOR YOUR ATTENTION!

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