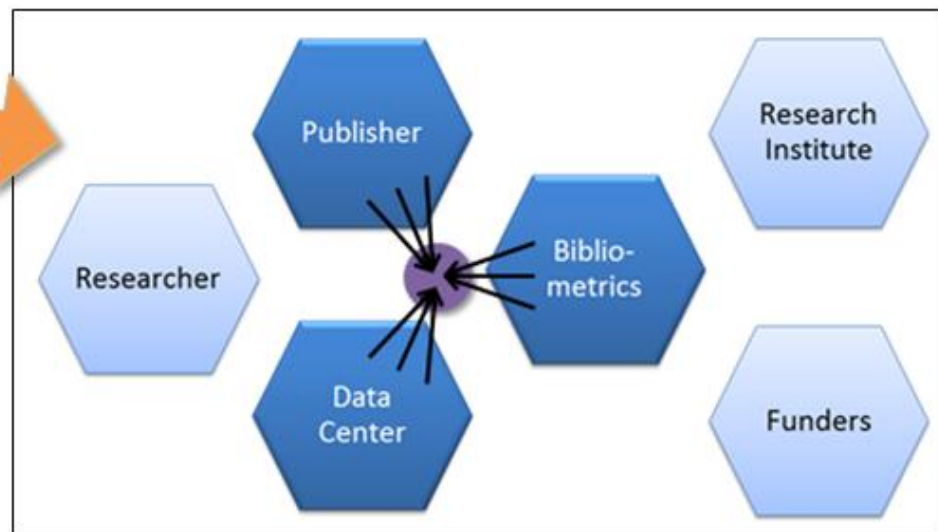
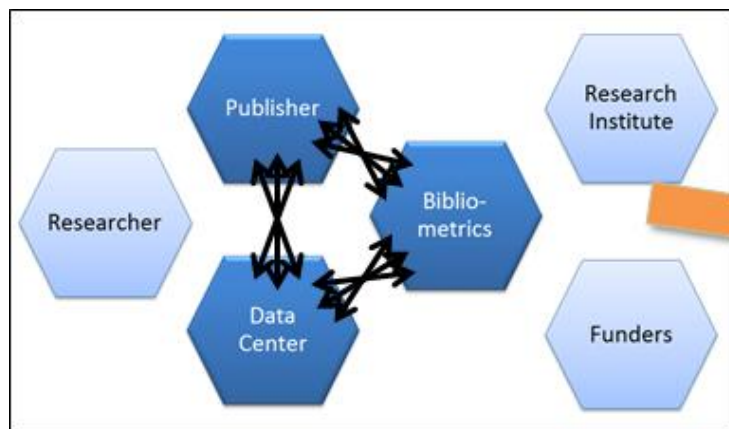




# ICSU-World Data System & RDA Data Publication Services WG

research data sharing without barriers  
[rd-alliance.org](http://rd-alliance.org)

*How to move from a plethora of (mostly) bilateral arrangements to a one-for-all service model infrastructure for the research data publication landscape?*



- Increase interoperability
- Decrease systemic inefficiencies
- Power new tools and functionalities to the benefit of researchers

## Primary Focus: Universal literature – data cross-linking service

- Given article A, what relevant data D exists – and vice versa
- Additional metadata about the nature of the relationship, e.g. supplementary data, related data, formal citation.
- Additional metadata for article and/or data set

## Why? Improve visibility, discoverability, re-use and reproducibility

Many organizations are already doing this – for example:

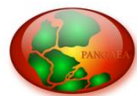
- Data repositories keep track of articles that cite, or refer to, their data
- Publishers devise applications to link the articles they publish with data hosted externally
- Providers of bibliographic information (i.e. repositories) are increasingly looking at data alongside the traditional article output
- Organizations such as CrossRef, DataCite and OpenAIRE are developing systems to track or infer relationships between data and the literature

But it's all very scattered, which limits the value!

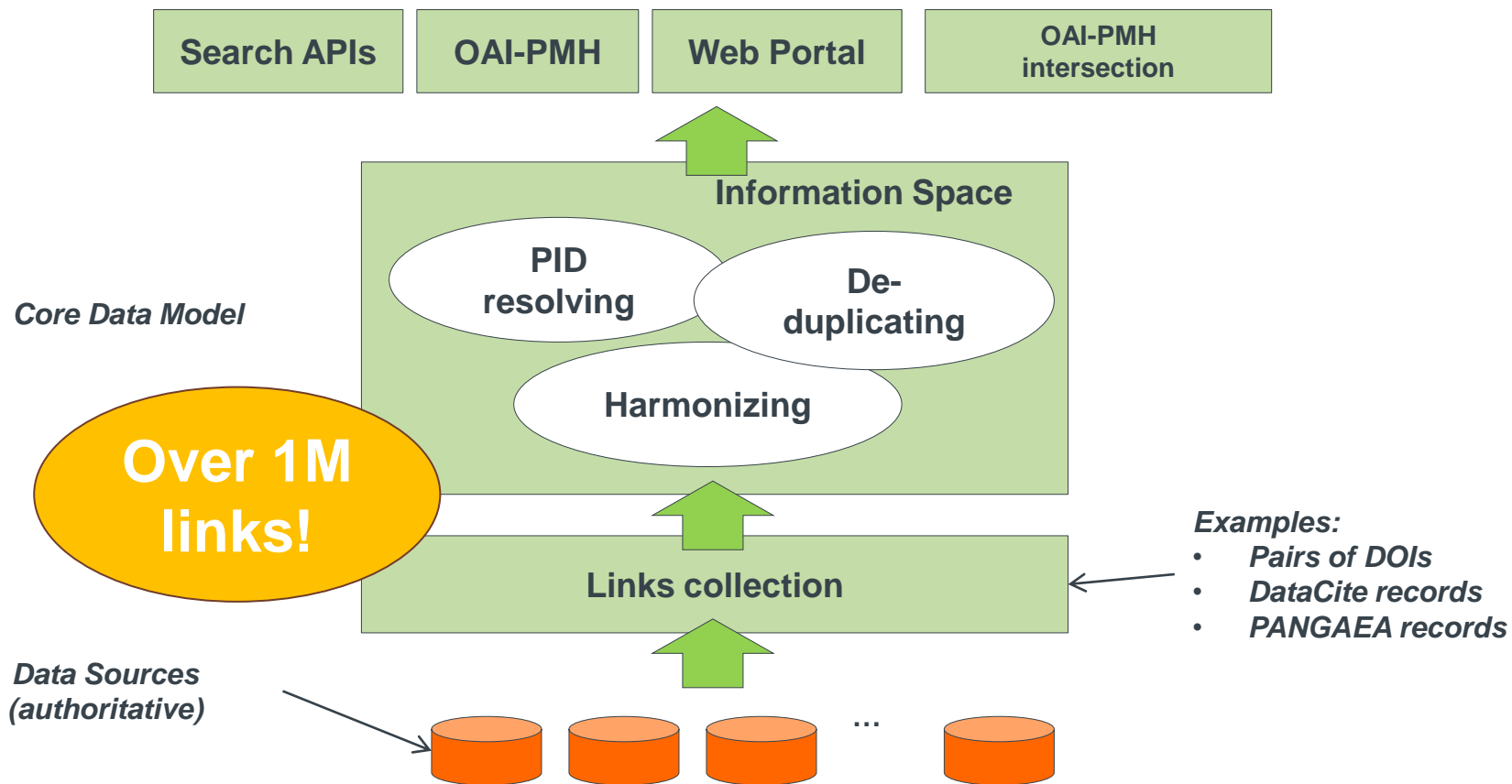
Deliverable: We want to bring existing article/data links together, normalize them using a common schema, and expose the full set as an open service

## Philosophy:

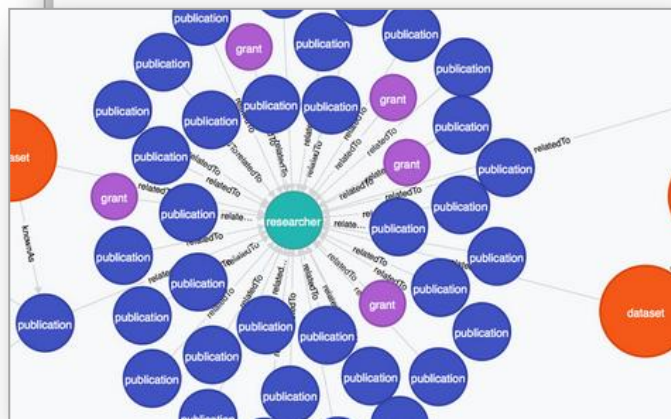
- Open, collaborative & inclusive, cross-stakeholder
- Domain-agnostic, (aim for) comprehensiveness
- Quality and provenance is key
- Flexible, test & learn, hands-on



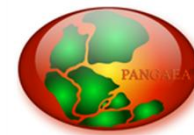
# High-level architecture



# Data-Linking Service – prototype



Powered by OpenAIRE  
D-NET software and  
PANGAEA search  
engine



Connected to  
RD-switchboard

Give it a spin: <http://dliservice.research-infrastructures.eu>



- Develop tailored API's and services to meet use cases from prospective users: data centers, publishers, etc.
- Embed service in real-life situation
- Additional article-data link contributors
- De-duplication

Hope to see you at the WG session, today @ 15:30 pm