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Research in Context

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Research in Context

In the light of recent results from OpenAIREplus and from the Library perspective

OpenAIRE

In a Nutshell

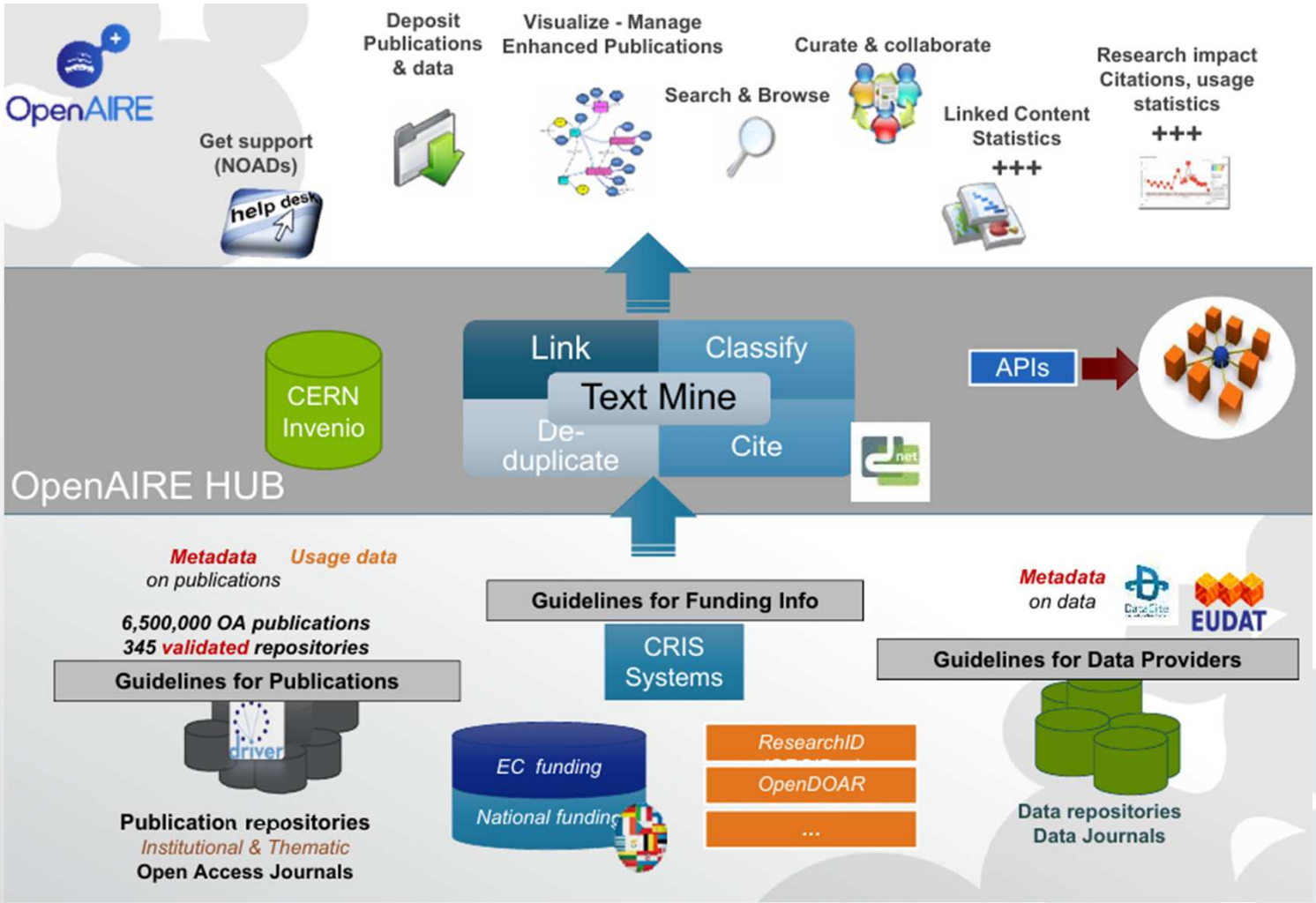
- European Scholarly Communication Data Infrastructure
  - FP7-OpenAIREplus (11/2011-05/2014) building on DRIVER and OpenAIRE
  - Implementing FP7 OA pilot; expanding to further funders
  - Support discovery of
    - funded research output
    - content from the netwok of Open Access repositories throughout Europe
- Human network support desk and technical infrastructure
- Working with three scientific partners
  - DANS for Social Sciences & Humanties
  - EMBL-EBI for Life Sciences
  - BADC for Earth Observational Data

Aims

And some numbers

- Promoting Open Access to publications and data of European Research (and beyond)
  - ~6 mio publications (de-duplicated); ~60,000 linked to EC funding
  - ~26,000 projects from EU-FP7 & Wellcome Trust
  - Research data gets started to collect from Zenodo, DataCite, …
- Measuring Impact for funders and research initiatives

Interoperable Infrastructure



Collecting Data from External Sources

Authority Information from entity registries

Authoritative Information

- Project & Organization information
  - From EC CORDA
  - From Wellcome Trust
- Repository information
  - From OpenDOAR about institutional & thematic repositories
  - From re3data about research data repositories & archives

External Sources - Scientific Content

Scientific content from literature and data repositories, CRIS - data sources need to be Guidelines compatible with OpenAIRE Profile

- Bibliographic metadata about publications (OAI-DC)
  - From the network of institutional and thematic repositories; aggregators
- Bibliographic metadata about research datasets (OAI-DataCite)
  - From Zenodo (being OpenAIRE's repository for "long-tail" data)
  - From DataCite metadata store; more to come

Inferring Content

Inference Framework complementing OpenAIRE's Information Space

- Given metadata and fulltext files as input
- Applying classification and text-mining algorithms
- To find relationships
  - Of publications to funded projects
  - Of publications with research datasets (!need of persistent identification)
  - Of publications with citations (list of bibliographic references)
  - Of publications with similar publications
- To find properties
  - Like title, author(s), affiliated organization(s)

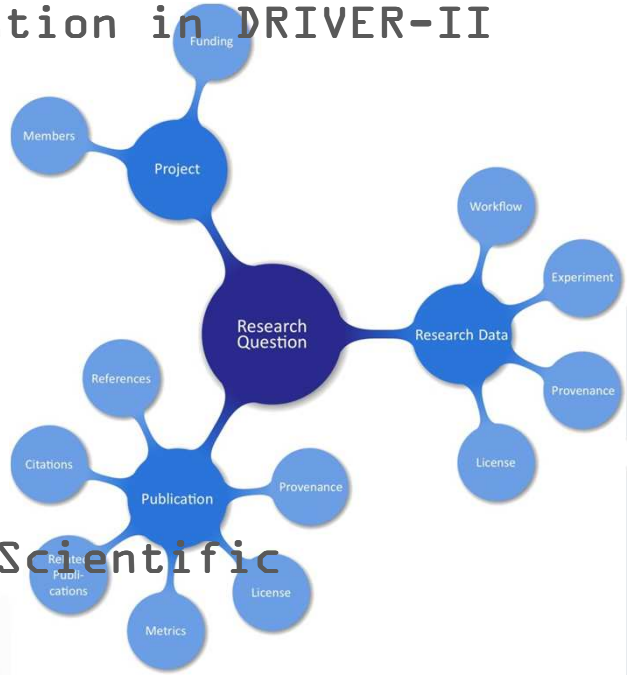
Publications to Research in Context

Extend the Definition of Enhanced Publication in DRIVER-II

- Publication that is enriched with
  - Research data
  - Extra materials
  - Post-publication data (e.g. comments)

By Provision of Context

- Links to funding information
- Classification of the Scientific Area (Scientific Context)
- Impact Measurements



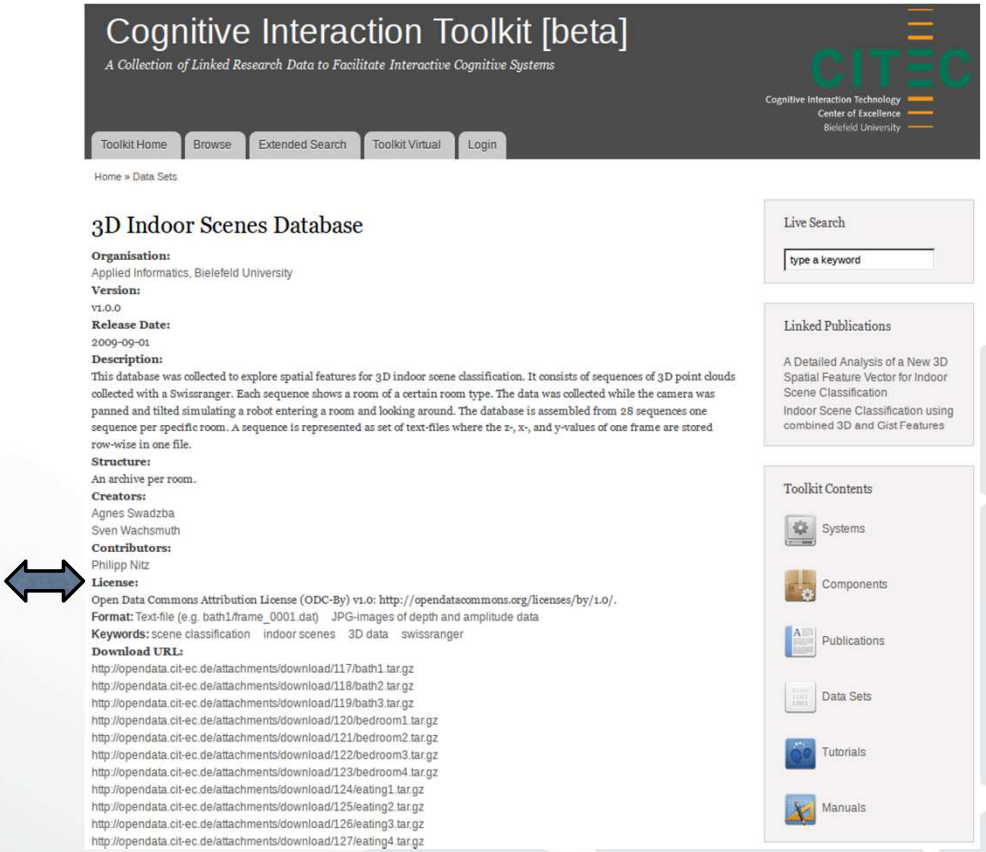
What can Research Libraries do ?

Excursus on the approach at Bielefeld University

- Institutional repository / academic bibliography for publication management
- Part of campus networked research infrastructure
- Link to external bibliographic resources (e.g. WOS, EuropePMC)
  - For import (e.g. Open Access copies) and information enrichment (e.g. research data references)
- Link to research data services at the campus
- Consider future requirements on research data management of "long-tail" data

What can Research Libraries do ?

Linking with CITEC's Cognitive Interactive Toolkit



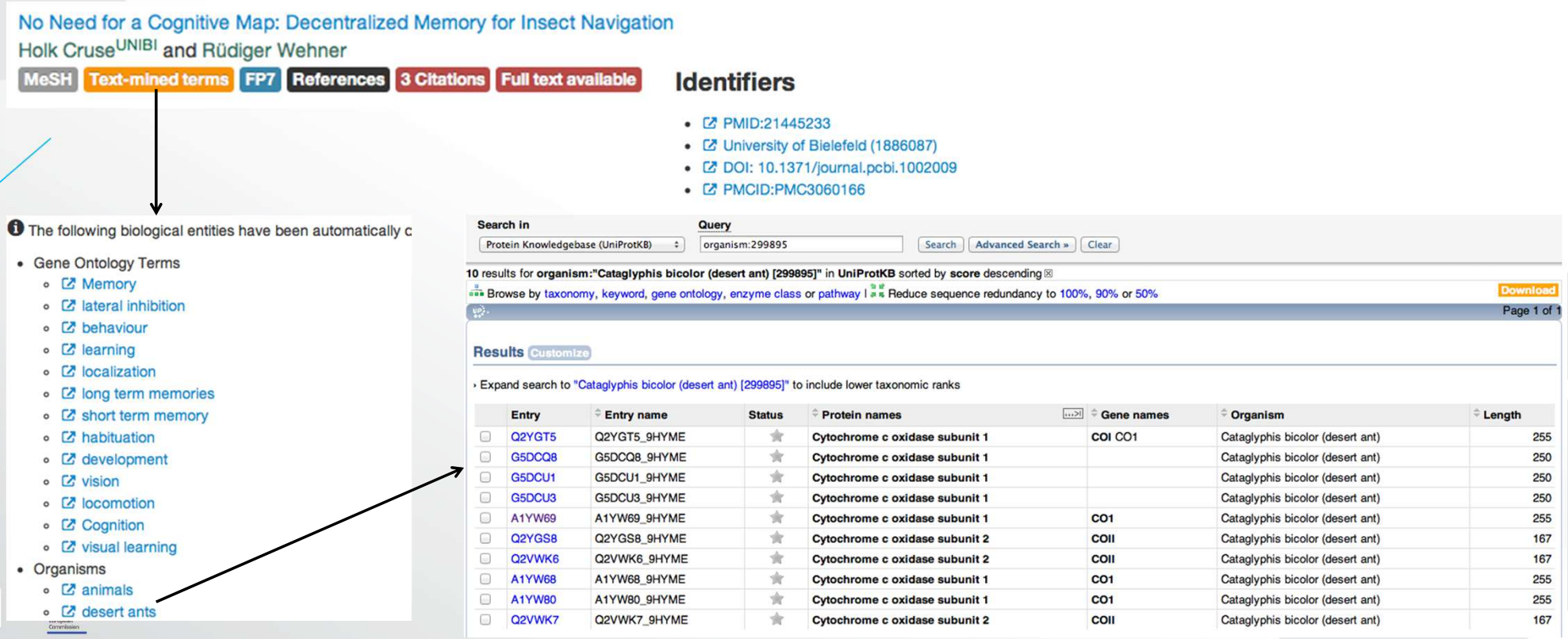
Subject Specific Pilots first

Since generic - cross-disciplinary infrastructures are much more complex, challenging

- Investigation of Data & Publication management in different disciplines (Life Sciences, Social Sciences & Humanities)
- Learn how to connect research data from disciplinary infrastructures with publications in OpenAIRE
- Demonstration of challenges, issues & opportunities

Subject Specific Pilots

Life Sciences Demonstrator

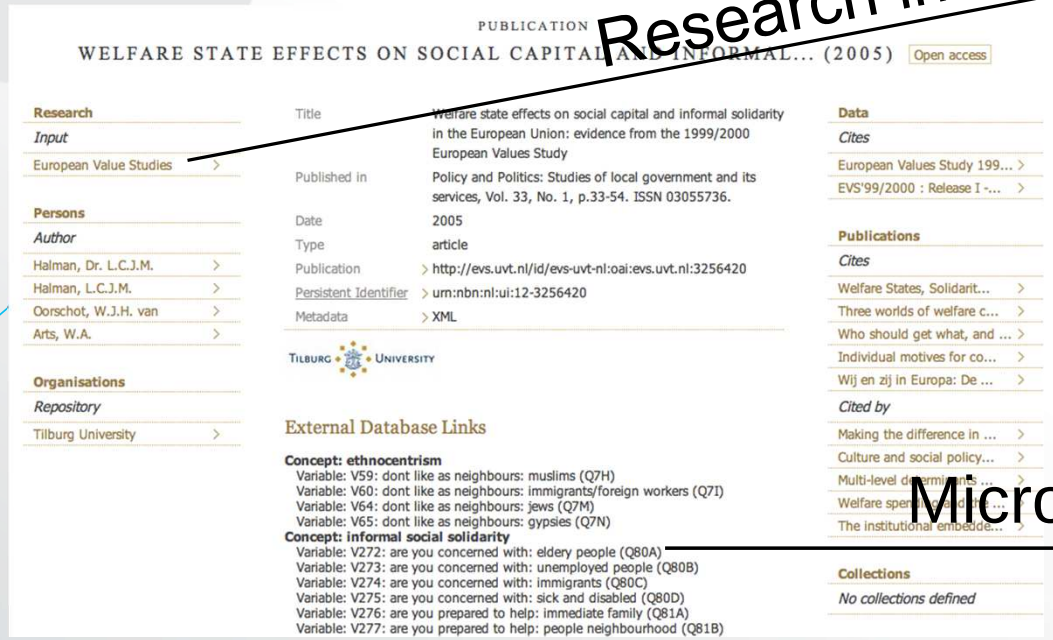


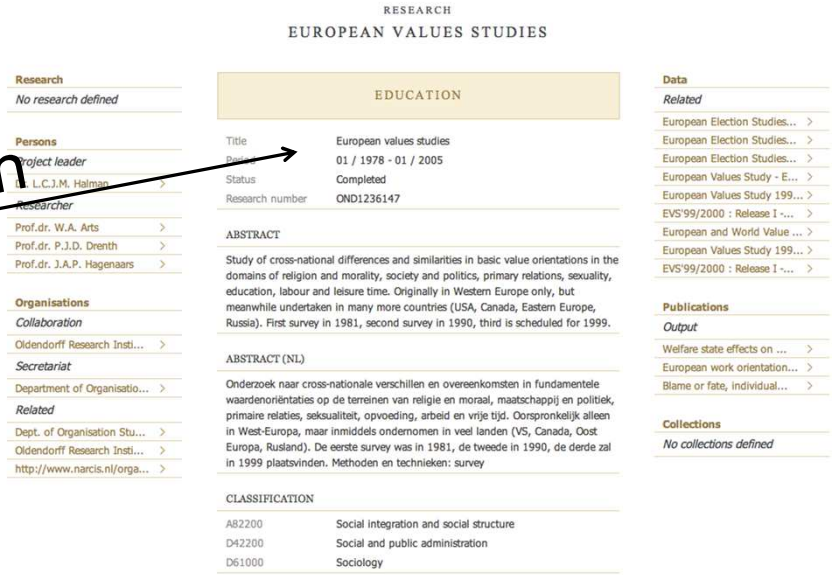
Subject Specific Pilots

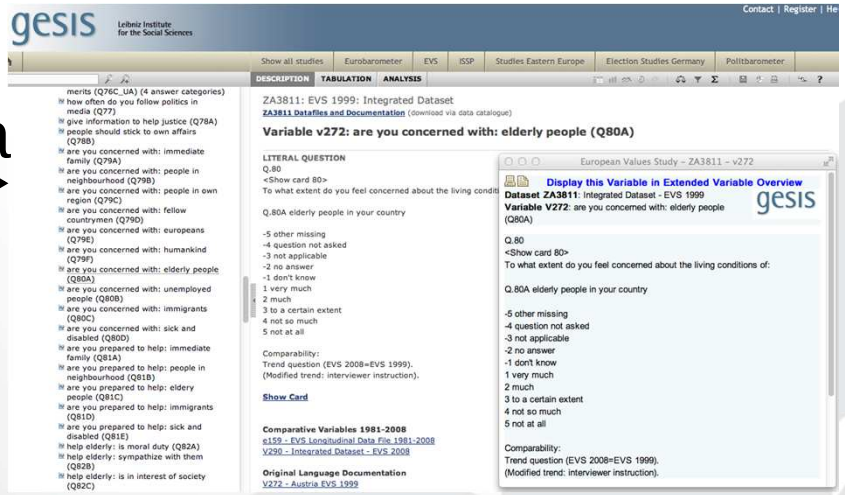
Social Sciences & Humanities Demonst

Research information

Microdata







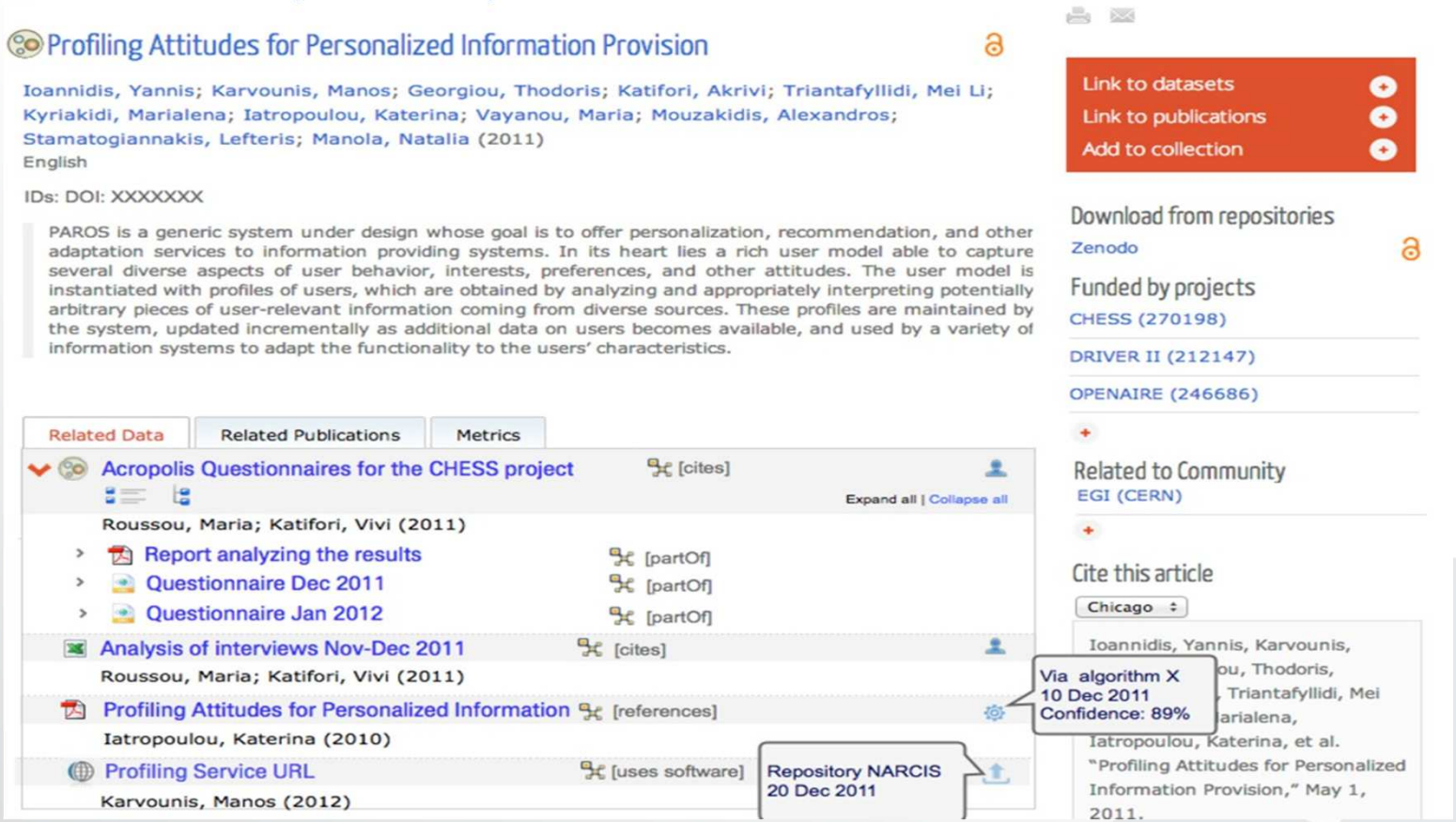
Publications & Data across Infrastructures

What to consider when connecting subject-specific infrastructures with OpenAIRE

- Interfaces of subject-specific infrastructures
  - Designed for community needs; seldom for generic purposes
- Metadata descriptions about research data
  - Diversity of subject-specific metadata formats
  - Seldom general purpose metadata (e.g. DataCite metadata kernel)
  - Persistent identification of datasets is a long-term task
  - Data citation in publication metadata is an ongoing

Enriched Publication View

In the new OpenAIRE portal



Time for Questions!

Find out more about OpenAIRE:

OpenAIRE portal:	http://www.openaire.eu
OpenAIRE "Lab":	http://beta.openaire.eu
OpenAIRE Guidelines:	https://guidelines.openaire.eu
Zenodo repository:	http://zenodo.org
D-Net software:	http://dnet.research-infrastructures.eu