THOR: Connecting People, Places, and Things

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Introduction

- Technical and Human infrastructure for Open Research
  - First year of 30 months EC funded H2020 project
- Goals
  - Place PIDs at the fingertips of researchers
  - Integrate PIDs into services researchers already use
  - Ensure PIDs are embedded in research outputs
- Focus areas
  - Biological and Medical Sciences
  - Environmental and Earth Sciences
  - Physical Sciences
  - Social Sciences and Humanities


BRITISH LIBRARY


ORCID


DataCite
FIND, ACCESS, AND REUSE DATA


EMBL-EBI


PANGAEA


CERN


ands
AUSTRALIAN NATIONAL DATA SERVICE


DRYAD


NON SOLUS
ELSEVIER


PLOS

THOR

PROJECT-THOR.EU

To ensure every researcher, at any phase of their career, or at any institution, will have seamless access to Persistent Identifiers (PIDs) for their research artefacts and their work will be uniquely attributed to them.

RESEARCH

Identifying challenges
Supporting standards
Designing workflows

DEVELOPMENT

Building tools
Setting up services
Connecting platforms

OUTREACH

Running bootcamps
Providing training
Aligning communities

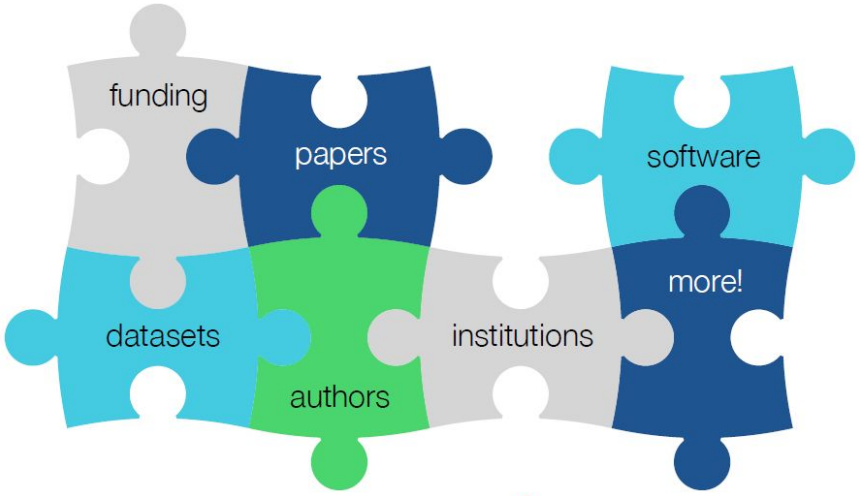
EVALUATION

Gauging sustainability
Developing metrics
Offering feedback

THOR Knowledge Hub @ project-thor.readme.io

THOR Research

- Establish interoperability between PID infrastructures
- Linking schemas for …
  - Artefact-contributor-organization relationships
  - Different identifier types



THOR Development

- Develop services to …
  - Capture artefact PID and ORCID iD
  - Support retrospective claiming
  - PIDs for dynamic data, data subsets

THOR Outreach

- Stimulate implementation, uptake and integration of PIDs
- Organize F2F events
- Develop training material
- Maintain THOR Knowledge Hub

THOR Evaluation

- Tools and metrics for assessing uptake of PID infrastructures
- Measure adoption of THOR outputs, e.g. on Twitter

http://dashboard.project-thor.eu

Earth and Environmental Sciences (EES)

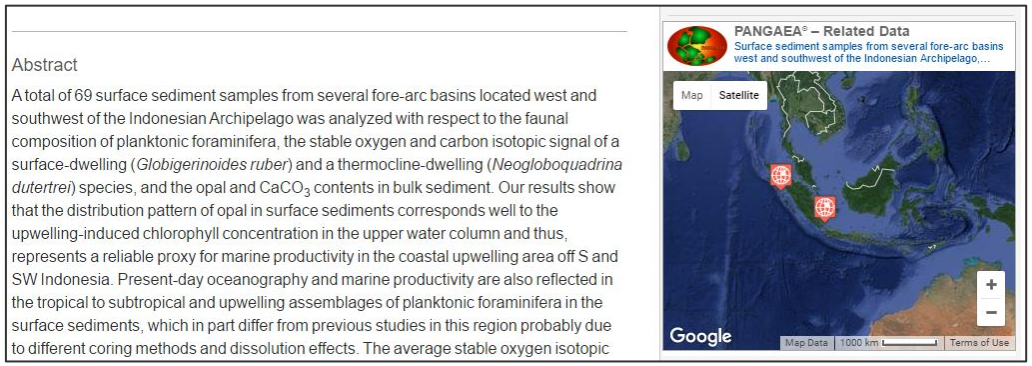
- Dataset is a key research artefact
- Valuable, if it can be accessed and reused
- Needs to be citable to enable attribution
- Hence, repositories assign PIDs to deposited data
- However, more complex than other artefacts

EES: PIDs for Datasets

- How to assign PIDs to …
  - Dataset collections
  - Dataset versions
  - Dataset subsets
  - Streamed data
- Various groups are working on these concerns, also THOR

EES: Capture Dataset Context

- Dataset-Article with publisher integration

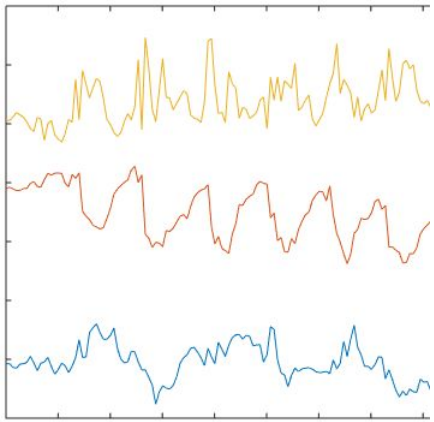


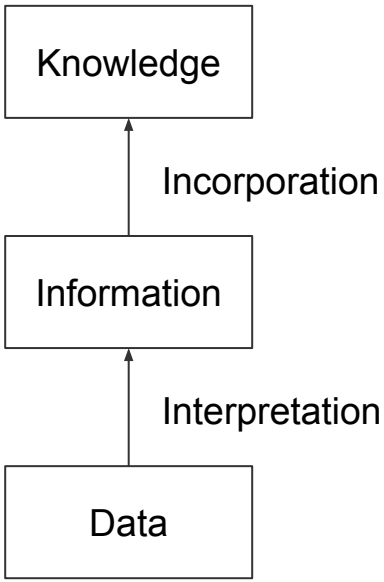
EES: Capture Dataset Context

- Dataset-Contributors with ORCID integration

EES: Possible Next Frontier?

- Data is interpreted with respect to goals
- We obtain information
- Information is incorporated into knowledge
- Assign PIDs to machine interpretable knowledge objects?





Conclusion

- PIDs key elements of scholarly infrastructure
- Not just articles but people, projects, organizations, funders, …
- THOR catalyzes PID adoption and embedding in research
- Integrate PIDs into existing services