THOR - Technical and Human Infrastructure for Open Research

From 2015-06-01 to 2017-11-30 | THOR Website

Objective

Five years ago, a global infrastructure to uniquely attribute to researchers their scientific artefacts (articles, data, software…) appeared technically and socially infeasible. Since then, DataCite has minted over 3.5m unique identifiers for data. ORCID has deployed an open solution for identification of contributors with over 850,000 registrants in less than 2 years.

THOR will leverage these emerging global infrastructures to support the H2020 goal to make every researcher ‘digital’ and increase creativity and efficiency of research, while bridging the R&D divide between developed and less-developed regions. We will establish interoperability between existing resources, linking digital identifiers across platforms and propagating attribution information.

We will integrate PID services across the research lifecycle and data publishing workflows in four advanced research communities, and then roll-out core services and service building blocks for the wider community. These open resources will foster an open and sustainable e-infrastructure across stakeholders to avoid duplications, give economies of scale, richness of services and the ability to respond rapidly to opportunities for innovation.

THOR is not just relevant to the EINFRA-7-1024 Call, but will become a pervasive element of the EINFRA family of e-Infrastructure resources over the next 3 years. It will allow data-management and curation services to exploit knowledge of data location and attribution; provide robust and persistent mechanism for linking literature and data; enable search and resolving services and generate incentives for Open Science; deliver provenance and attribution mechanisms to underpin data exchange; and provide minting and resolving services for data citation workflows.

Its impact will enable third-party services, no-profit and commercial, to leverage the scholarly record.

Related information

Report Summaries

Periodic Reporting for period 1 - THOR (THOR – Technical and Human Infrastructure for Open Research)
**Coordinator**

THE BRITISH LIBRARY BOARD  
96 EUSTON ROAD  
NW1 2DB LONDON  
United Kingdom  

*EU contribution:* EUR 556 000

**Activity type:** Research Organisations

[Contact the organisation]

---

**Participants**

MONASH UNIVERSITY  
Wellington Road  
3800 VICTORIA  
Australia  

*EU contribution:* EUR 0

**Activity type:** Higher or Secondary Education Establishments

[Contact the organisation]

---

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH  
ROUTE DE MEYRIN CERN  
1211 GENEVA 23  
Switzerland  

*EU contribution:* EUR 854 500

**Activity type:** Research Organisations

[Contact the organisation]

---

DATACITE – INTERNATIONAL DATA CITATION INITIATIVE  
WELFENGARTEN 1 B TECHNISCHE  
30167 HANNOVER  
Germany  

*EU contribution:* EUR 441 000

**Activity type:** Other

[Contact the organisation]

---

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
"AIRPORT DRIVE 104 SUITE 2200 CB #1350"  
27599 CHAPEL HILL  
United States  

*EU contribution:* EUR 0

**Activity type:** Higher or Secondary Education Establishments

[Contact the organisation]
EUROPEAN MOLECULAR BIOLOGY LABORATORY
Meyerhofstrasse 1
69117 HEIDELBERG
Germany

Activity type: Research Organisations

Contact the organisation

EU contribution: EUR 587 000

ELSEVIER BV
RADARWEG 29
1043NX AMSTERDAM
Netherlands

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

EU contribution: EUR 0

ORCID EU
RUE DUPRE 15
1090 BRUXELLES
Belgium

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

EU contribution: EUR 739 875

UNIVERSITAET BREMEN
Bibliothekstrasse 1
28359 BREMEN
Germany

Activity type: Higher or Secondary Education Establishments

Contact the organisation

EU contribution: EUR 277 875

PUBLIC LIBRARY OF SCIENCE
1160 BATTERY STE 100
94111 SAN FRANCISCO CA
United States

Activity type: Other

Contact the organisation

EU contribution: EUR 0

Last updated on 2017-06-02
Retrieved on 2019-08-23
