Идентификаторы в менеджменте научных данных

Ирина Радченко

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THOR-EU (Ambassador)
FREYA-EU (Ambassador)

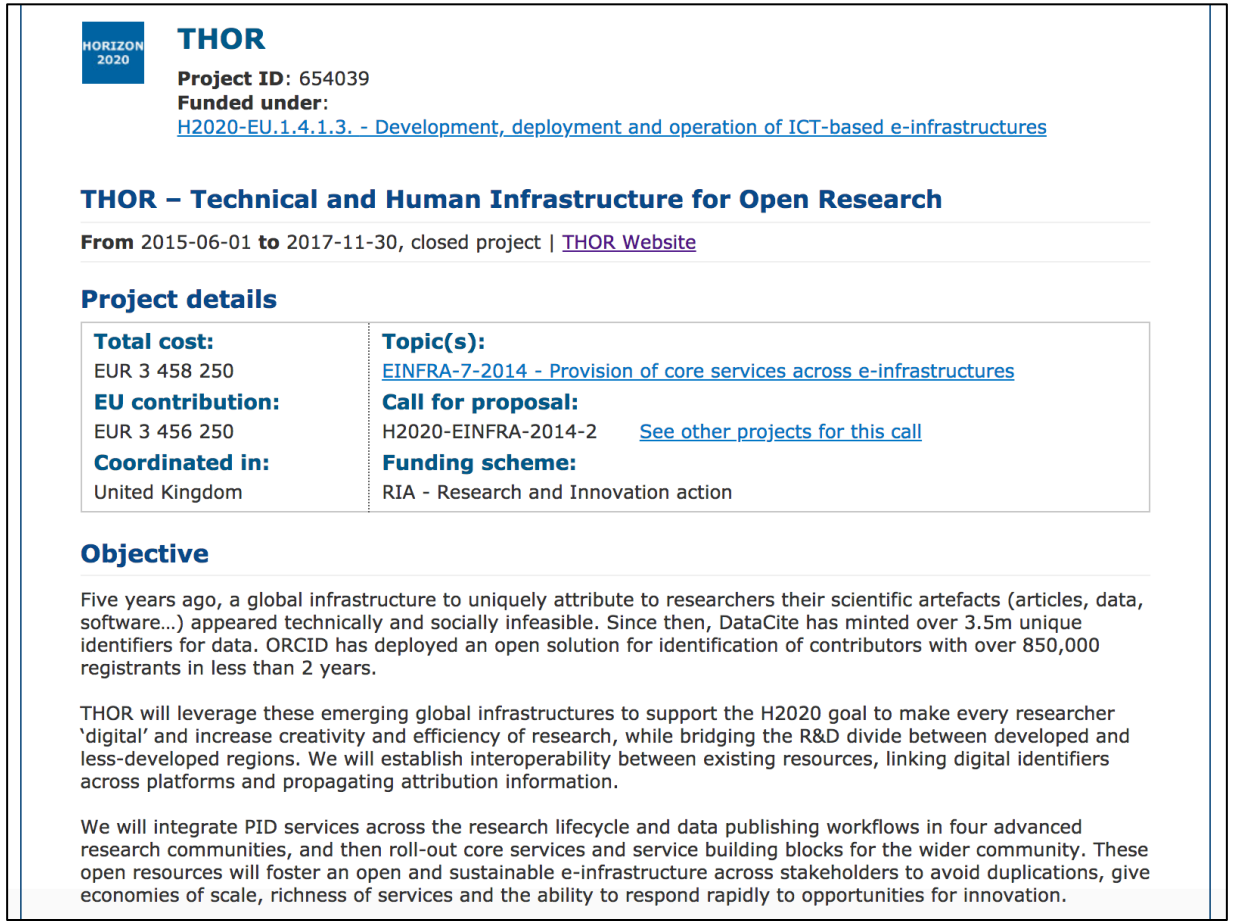
Since 2013 trainings and consulting on Open Data, Data Science and Open Education:

- United Nation
- World Bank
- ITMO University
- Higher School of Economics
- European University
- St. Petersburg State University

Workshops and lecturing both in English and Russian
Guest lecturing in foreign universities, webinars and hackathons

Open Knowledge Foundation – 2012
Open Data Institute (ex-Moscow ODI Node,
St. Petersburg ODI Node) – 2013
Open Data School – 2013 (Moscow)
School of Data – Data Expedition – 2013
Webinar on Linked Open Data for FAO United Nation – 2013
Open Knowledge Festival (Open Education working group,
Open Science working group) – 2014
Open Data day in Oxford – 2014 (Open Science working group)
Central Asian Hackathon (World Bank) – 2015
Hackathon in Uzbekistan (United Nation) – 2016
International Workshop on Open Data (SPb State University) – 2016

Проект THOR (Technical and Human Infrastructure for Open Research)



THOR

Project ID: 654039
Funded under:
H2020-EU.1.4.1.3. - Development, deployment and operation of ICT-based e-infrastructures

THOR – Technical and Human Infrastructure for Open Research

From 2015-06-01 **to** 2017-11-30, closed project | THOR Website

Project details

Total cost:	**Topic(s):**
EUR 3 458 250	EINFRA-7-2014 - Provision of core services across e-infrastructures
EU contribution:	**Call for proposal:**
EUR 3 456 250	H2020-EINFRA-2014-2 See other projects for this call
Coordinated in:	**Funding scheme:**
United Kingdom	RIA - Research and Innovation action

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.

https://cordis.europa.eu/project/rcn/194927_en.html

Проект THOR. Участники

Participants	Expand all
MONASH UNIVERSITY	Australia
EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH	Switzerland
DATACITE – INTERNATIONAL DATA CITATION INITIATIVE	Germany
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	United States
EUROPEAN MOLECULAR BIOLOGY LABORATORY	Germany
ELSEVIER BV	Netherlands
ORCID EU	Belgium
UNIVERSITAET BREMEN	Germany
PUBLIC LIBRARY OF SCIENCE	United States

https://cordis.europa.eu/project/rcn/194927_en.html

Проект FREYA

FREYA

Project ID: 777523
Funded under:
H2020-EU.1.4.1.3. - Development, deployment and operation of ICT-based e-infrastructures

Connected Open Identifiers for Discovery, Access and Use of Research Resources

From 2017-12-01 **to** 2020-11-30, ongoing project

Project details

Total cost:	**Topic(s):**
EUR 5 246 117,50	EINFRA-21-2017 - Platform-driven e-infrastructure innovation
EU contribution:	**Call for proposal:**
EUR 4 998 650	H2020-EINFRA-2017 See other projects for this call
Coordinated in:	**Funding scheme:**
United Kingdom	RIA - Research and Innovation action

Objective

The goal of the FREYA consortium is to iteratively extend a robust environment for Persistent Identifiers (PIDs) into a core component of European and global research e-infrastructures. The resulting FREYA services will cover a wide range of resources in the research and innovation landscape and enhance the links between them so that they can be exploited in many disciplines and research processes. This will provide an essential building block of the European Open Science Cloud (EOSC). Moreover, the FREYA project will establish an open, sustainable, and trusted framework for collaborative self-governance of PIDs and services built on them.

FREYA capitalises on the successes of the THOR project and will build on the core services of the existing trusted PID systems of the project partners, developing them in the context of established community-based services and more widely through the EOSC. The FREYA e-infrastructure components will be built on technologies and services that are already well proven. New services, and new PID types, will be introduced and moved up the scale of Technology Readiness Levels, so that the emerging e-infrastructure services are prototyped and positioned for evolution beyond the end of the FREYA project.

https://cordis.europa.eu/project/rcn/212959_en.html

Проект FREYA. Участники

Participants	Expand all
THE BRITISH LIBRARY BOARD	United Kingdom
MONASH UNIVERSITY	Australia
EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH	Switzerland
DATACITE – INTERNATIONAL DATA CITATION INITIATIVE	Germany
EUROPEAN MOLECULAR BIOLOGY LABORATORY	Germany
UNIVERSITAET BREMEN	Germany
PUBLIC LIBRARY OF SCIENCE	United States
PUBLISHERS INTERNATIONAL LINKING ASSOCIATION INC NON PROFIT CORPORATION	United States
ORCID INC.	United States
KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN - KNAW	Netherlands
HINDAWI LIMITED	United Kingdom

https://cordis.europa.eu/project/rcn/212959_en.html

Задачи The European Open Science Cloud

- Создание удобных сервисов:
- scientific instruments;
- data;
- applications, workflows, software;
- storage, compute and network connectivity;
- written knowledge (e.g scientific publications, educational and training resources);
- services for enabling federated access, like federated identity service provisioning, authentication, authorization, and accounting; and
- collaborative services enabling the sharing, use and reuse of digital capabilities.

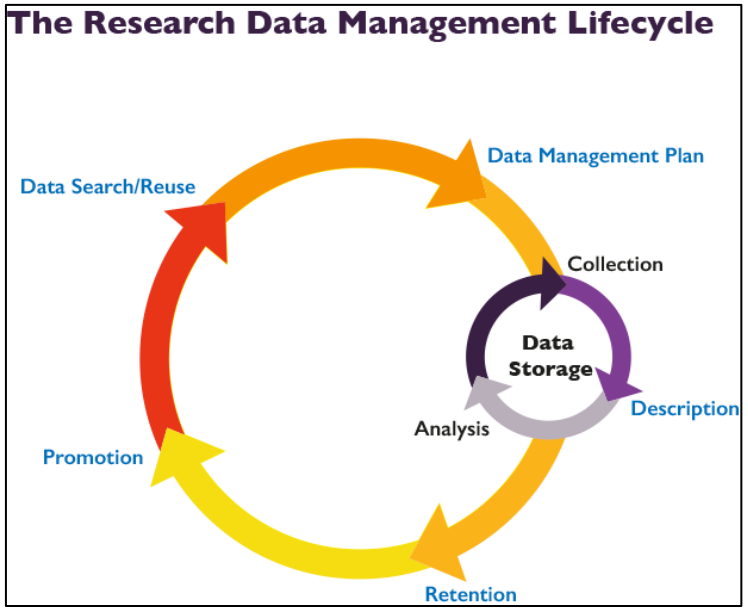
https://eoscpilot.eu/about/eoscpilot-brief

Идентификаторы ORCID и DOI

ORCID - Система учета ORCID (Open Researcher and Contributor ID) предоставляет две основных возможности:

1. Реестр, в котором можно получить **уникальный идентификатор** и управлять записью результатов исследовательской работы.

2. Интерфейсы разработки (API), предназначенные для **обеспечения передачи данных** между различными системами учета и установления авторства научных работ в каждой из них.

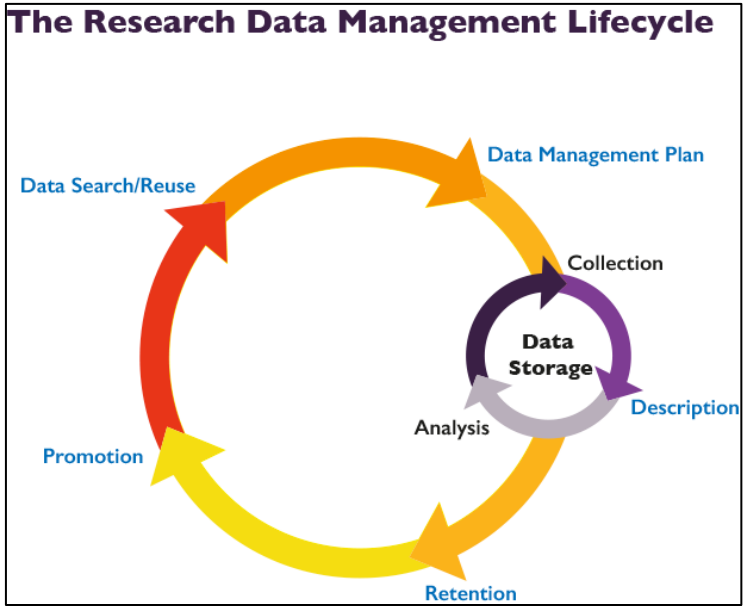


https://guides.library.ucsc.edu/data management

Идентификаторы ORCID и DOI

DOI - **DOI (Digital Object Identifier)** — цифровой идентификатор объекта. Имя DOI является идентификатором (а не местоположением) объекта в цифровых сетях.

Он обеспечивает систему для постоянной и действенной идентификации и интероперабельного обмена управляемой информацией в цифровых сетях.



https://guides.library.ucsc.edu/data management

Кто поддерживает ORCID?

- Springer
- Elsevier
- Emerald
- F1000
- Hindawi
- IOS Press
- Oxford University Press
- PNAS
- CERN
- Clarivate Analytics
- Fraunhofer Research Institute
- ProQuest
- SAGE
- SciELO
- Taylor & Francis
- The Royal Society
- Wiley
- …

Кто поддерживает DOI?

- Zenodo (GitHub)
- British Library
- Australian National Data Service
- Caltech Library
- Cyberleninka
- CERN
- Dryad
- Figshare
- Harvard University
- IEEE
- National University of Singapore
- Политехнический университет Петра Великого
- ResearchGate
- …

Обсуждение и ответы на вопросы:

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