

Internet of Research Ecosystem Task Force

Industry sector: [Industrials](#) | Sub-industry: Research & Consulting Services

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Introduction

In academia there is a need to be able to identify resources used by the community such as culture collections, instruments, projects and work packages, collaborative groups, datasets etc. Current systems of resource identification are difficult to establish and DIDs have the potential to allow more widespread uptake and use of permanent identifiers.

Meetings

All discussions including meeting planning occurs on the slack channel [#efwg-research-tf](#), please join us there.

Zoom Meeting & Password to be available on the [ToIP calendar](#).

Mission

Enable the implementation of academic resource identifiers.

Create a package to enable academic communities to deliver their own resource identifiers. An example would be where a community of researchers have established a series of microbiome libraries. They would like to establish and govern a set of resource identifiers that would enable these samples to be traced, cited, and permanently identified.

The package should help academic communities:

- determine if the tools best meet their needs
- provide knowledge that will assist them in developing funding justifications and forming community buy-in
- help them understand and develop appropriate governance structures
- and identify technological solutions and determine lifecycle costs

Related Documents

[2021-05-06 Ecosystem WG presentation](#)

Deliverables

Current deliverables under development:

1. [White Paper: Decentralized Resource Identifiers in the Research Landscape](#)

A series of whitepapers and implementation plans which may include the following:

1. Description of current state of the art models e.g. DOI, ORCID, Genbank accession numbers etc.
2. Description of DID technologies as they apply to resource identification
3. Descriptions of potential use cases
4. Pros/Cons description of DID solutions
5. Examples of ecosystem requirements to help organizations form their own
6. Examples of governance structures for organizations that will enable the resource identifiers
7. A workflow of how an organization would build this ecosystem and what a potential ecosystem end would look like
8. Technical architectures with guidance on how to determine costs

First draft of the White Paper can be found [here](#). Dedicated wiki to the White Paper is located in the Ecosystem Foundry WG White Paper TF page [here](#).

How to join

Please come join us in accelerating Trust Over IP compatible academic resource identifiers

Participation

Edit the table below....

Name	Affiliation	Ice Breaker (Comments, Interest, Objectives, Opportunities...
Carly Huitema	Unaffiliated	Working at the University of Guelph and the University of Waterloo I am interested in making resource identifiers more available to many academic use cases.

References & Links

<https://www.oclc.org/research/publications/2020/oclcresearch-transitioning-next-generation-metadata.html> - The article goes well beyond STEM fields, but offers a strong description of the problem of academic resource identification from the point of view of librarians and their efforts of cataloguing etc.

<https://sage-bionetworks.github.io/governanceGreenPaper/> - Mechanisms to Govern Responsible Sharing of Open Data: A Progress Report.

<https://www.sciencedirect.com/science/article/pii/S0966842X20301888> - example end user of distributed resource identifiers

Passive identifiers in ToIP.

<https://science.sciencemag.org/content/368/6492/719> - blockchain and DIDS in R&D published in Science

https://www.dropbox.com/s/49ihdcccrymfhxr/Final_WILDSI_White_Paper_Oct7_2020.pdf?dl=0 - how to enable sharing of genetic data (typically open access) to include monetization