

DataCite Open Infrastructure

Connecting research,
identifying knowledge

Matt Buys, DataCite

Oxford Festival of Open Scholarship

March 17, 2022



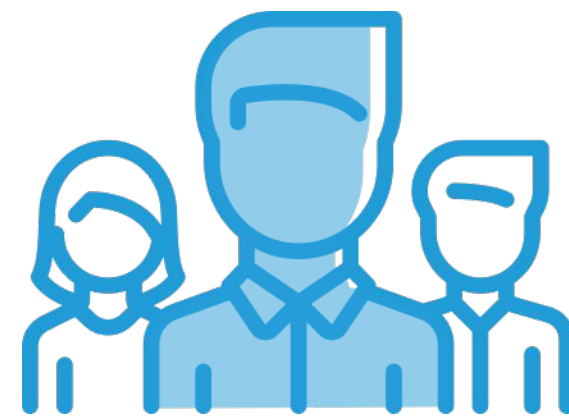
[@mjbuys](https://twitter.com/mjbuys)
[@datacite](https://twitter.com/datacite)

Community



- DataCite is a community led organization that since our founding in 2009, has been open to participation from members around the world. We work with research organizations (including research funders and facilities) from over 50 countries to provide the means to create, find, cite, connect, and use research.
- It is our collective effort as a community that protects the investment in open infrastructure. The strength of DataCite is in its active community membership!
- Our vision at DataCite is **Connecting Research, Identifying Knowledge.**

Our community



2400+
Repositories

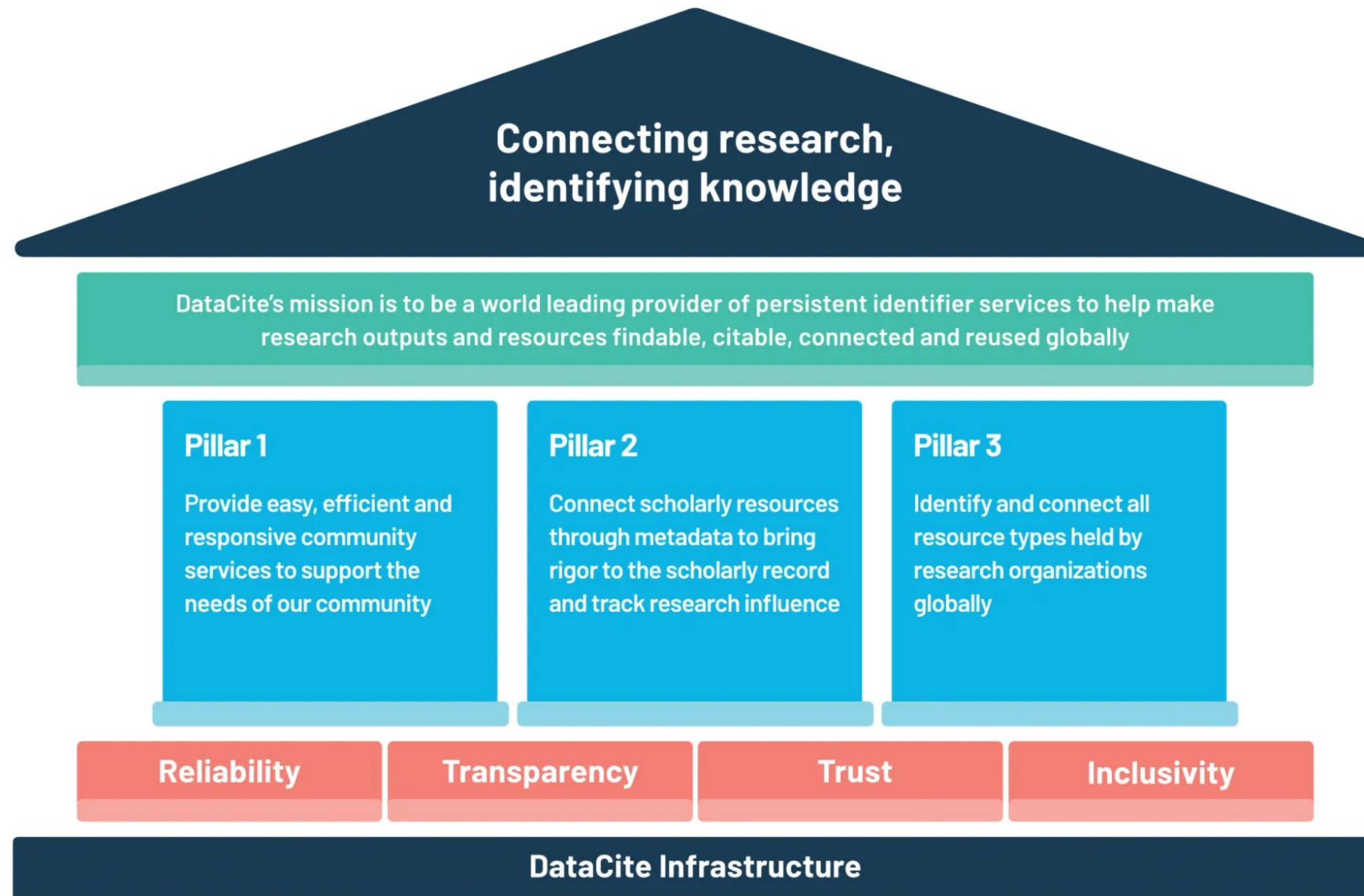
250+
Members

50
Countries

33m+
DOIs

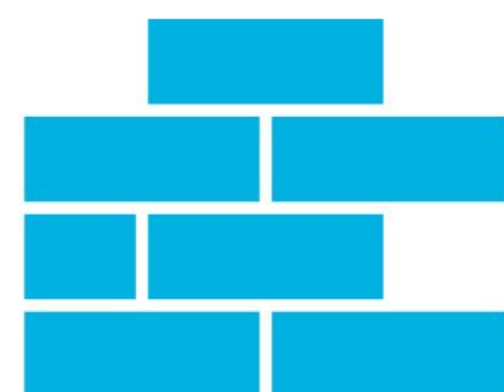
1100+
Organizations

Vision to Reality



Values

- **Reliability:** We develop and support reliable persistent identifier services.
- **Transparency:** We make transparent decisions and engage openly with the community in all that we do.
- **Trust:** We seek to be a trusted partner for our members and other community stakeholders by delivering services that uphold community principles.
- **Inclusivity:** We support a global community and value diverse perspectives.



Reliability



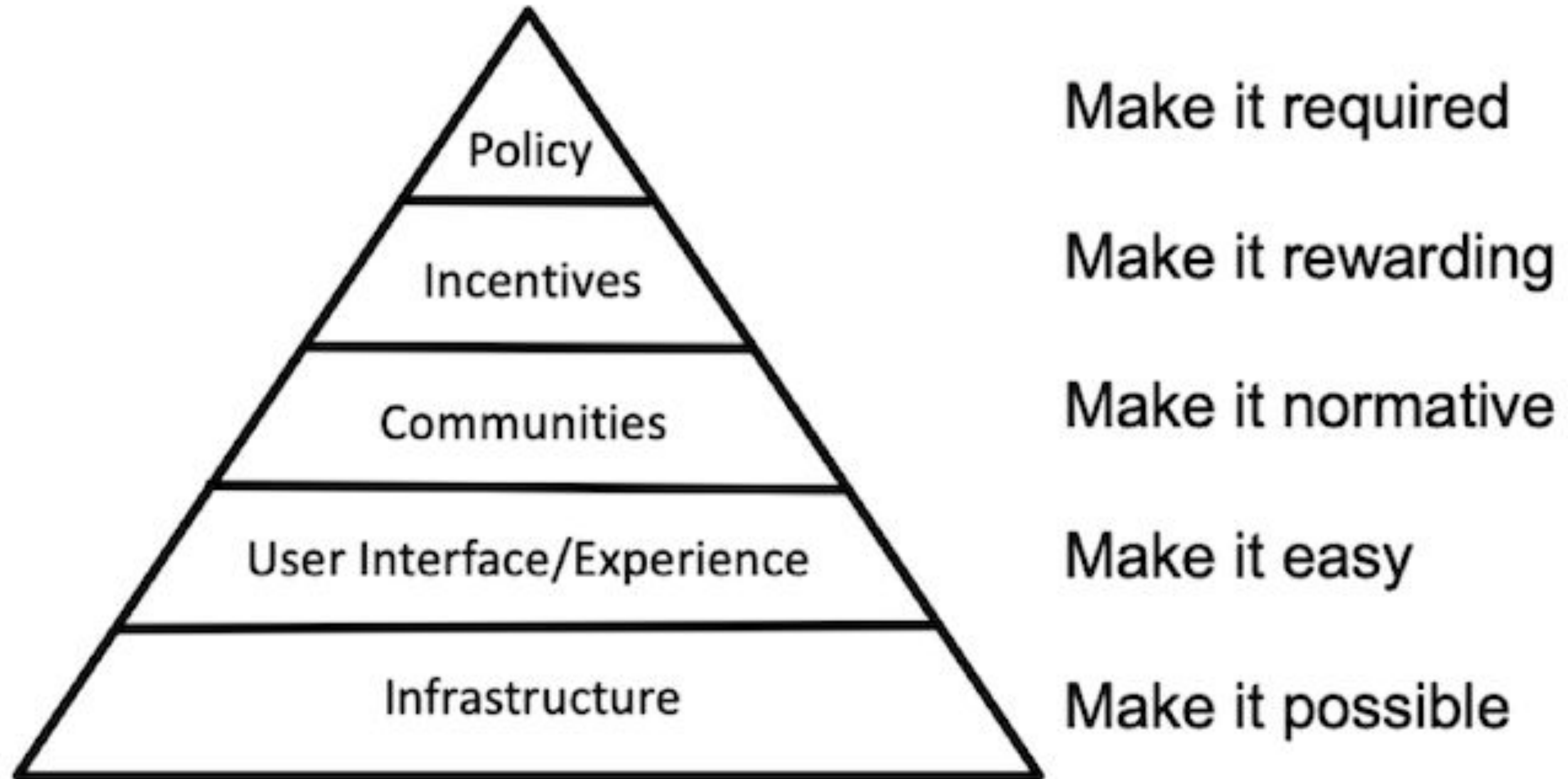
Transparency



Trust



Inclusivity



Source: <https://www.cos.io/blog/strategy-for-culture-change>

DataCite Services

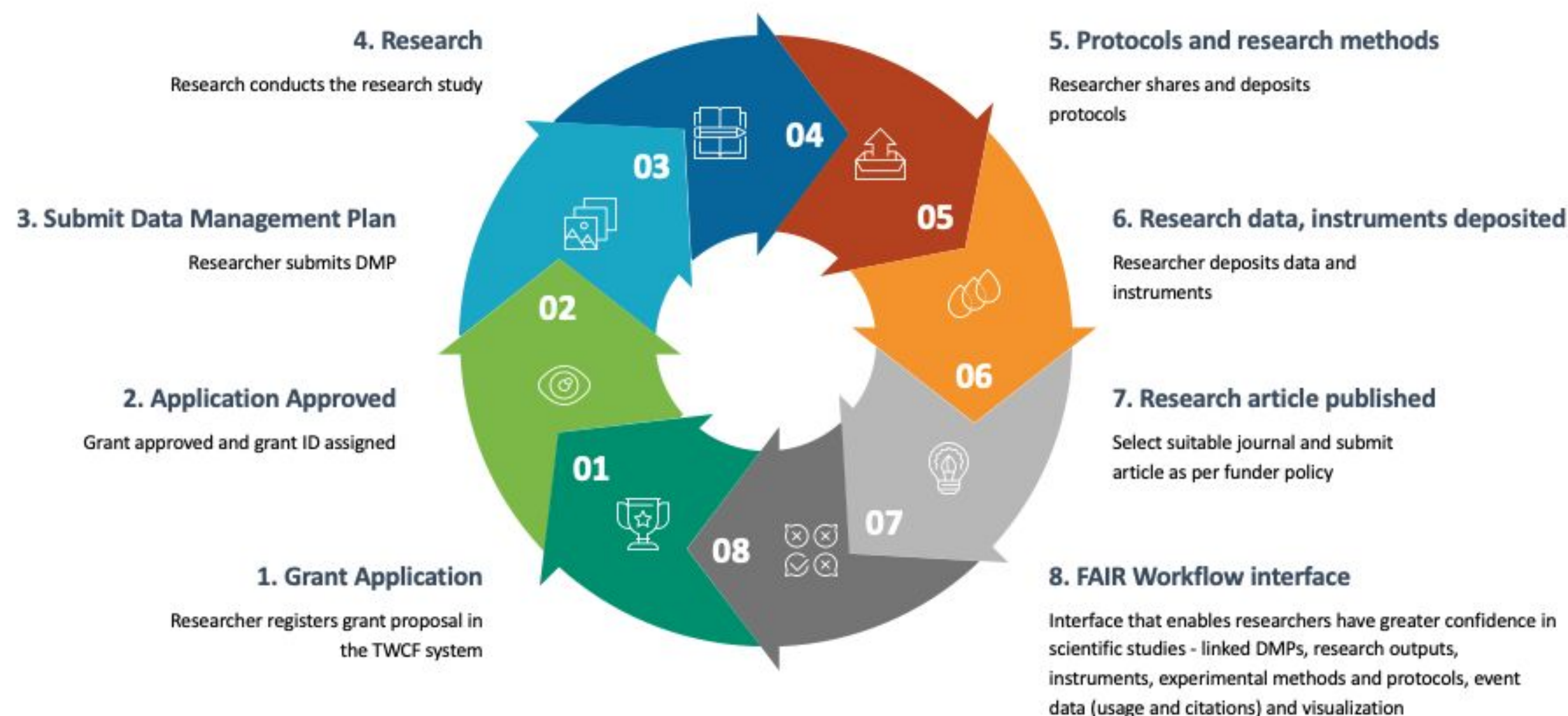
DataCite is a global community of organisations and researchers identifying and citing research outputs and resources. We provide services to **create persistent records** of research, **enable discovery and reuse**, and support **integration** workflows throughout the research lifecycle.

As such, we have over the years supported various identifier communities in scaling their efforts to a global community.

This includes PIDs across **28 resource types** (supporting datasets, samples, preprints, software, DMPs, events etc etc.)

The research lifecycle

We focus on the entire research lifecycle, bringing together disparate pieces of the research study together: using PIDs and metadata



Why are we talking about this?

PIDs like DOIs, ORCID iDs and ROR IDs increase
discovery, access, citation, reuse, and recognition
of resources



VALUE

Create and Manage



DataCite membership allows you to create and manage DOIs for your outputs and resources. You can do this through:

- Our primary REST API that supports JSON and enables automated DOI registration
- Our manual interface that enables you to register DOIs in less than a minute.
- Registered DataCite Service providers that provide a platform where you can register DOIs.



DataCite Fabrica is the one place for you to create and find, connect and track every single DOI from your organization. Fabrica complements the [REST](#), [MDS](#), [EZ](#), [OAI-PMH](#), and [GraphQL](#) APIs. Fabrica includes all the functionalities needed to manage repositories, prefixes, DOIs and their metadata. Please sign in to use the service.



Repositories
Use Fabrica to manage your repositories.



Prefixes
Use Fabrica to manage your prefixes.



DOIs
Register and manage DOIs and their metadata through Fabrica.

About DataCite

What we do
Governance
Members
Steering groups
Staff
Job opportunities

Services

Assign DOIs
Metadata search
Event data
Profiles
re3data
Citation formatter

Resources

Metadata schema
Support
Fee Model

Community

Members

Contact us



Imprint
Terms and conditions
Privacy policy



▲ All Systems Operational



Discover and Connect Research








Find Research
with DataCite Commons

Type to search... 

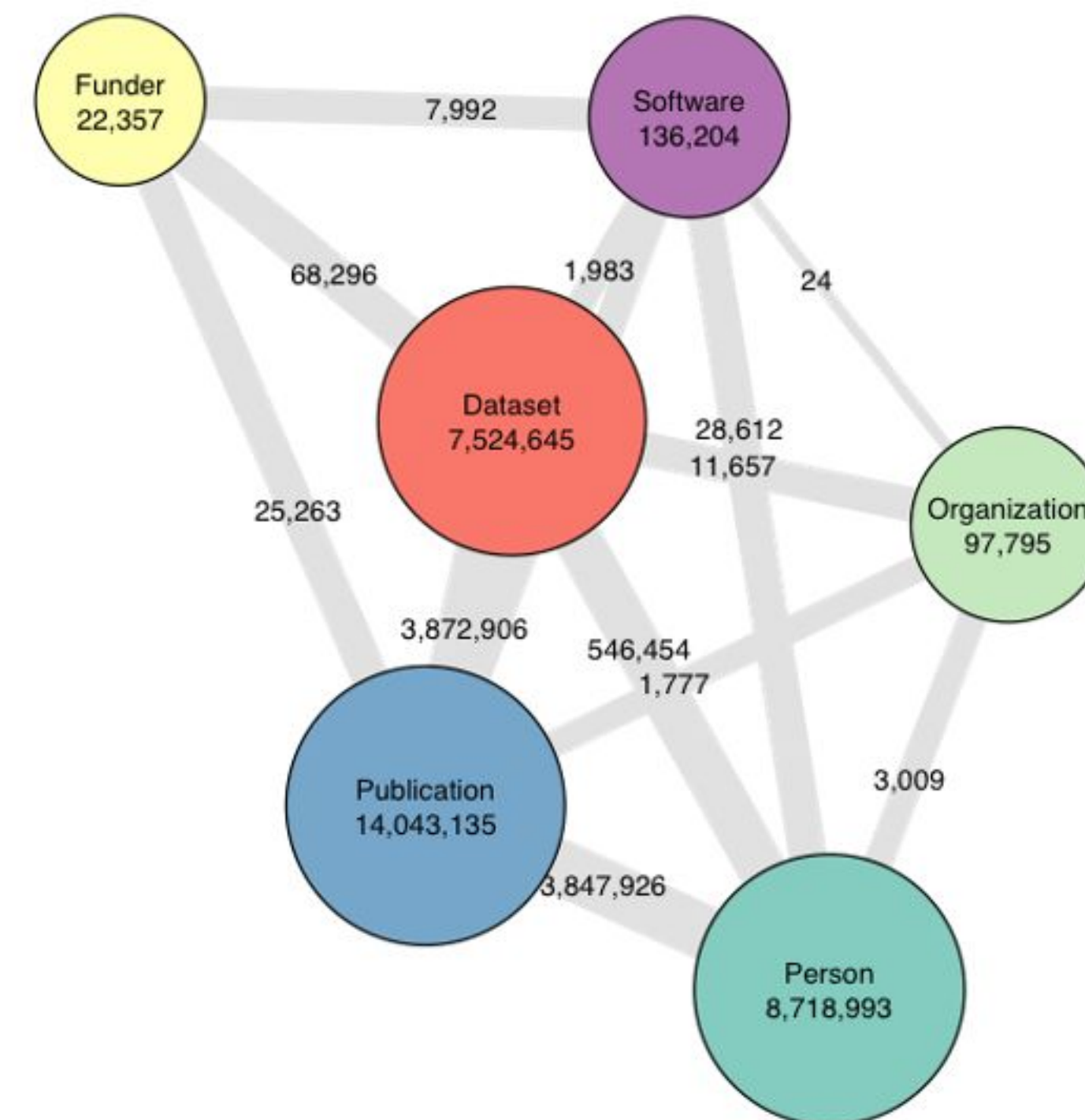
 Works  People  Organizations


 DataCite  Crossref 

Explore connections in the PID Graph



Integrate with our APIs



 [Feedback](#) [Home](#)

[Home](#) [Guides](#) [API Reference](#)

REST API

REST API

activities >

client-prefixes >

clients >

dois >

events >

heartbeat >

prefixes >

provider-prefixes >

providers >

reports >

MDS API

MDS API

/dois >

/metadata >

/media >

EZ API

EZ API

/id >

/shoulder >

GRAPHQL API

Getting Started With Your API

REST API

SUGGEST EDITS

Version History

- v.1: June 25, 2016, first draft.
- v.1.1: October 10, 2016, follow JSONAPI spec for side-loading associations
- v.1.2: December 9, 2017, follow JSONAPI spec for pagination
- v.2.0: January 7, 2019, new API endpoints, using camelCase for attributes

Overview

The DataCite REST API returns information about DataCite content. The API is RESTFUL and returns results in JSON. It follows the [JSONAPI](#) specification. The mime-type for API results is `application/vnd.api+json`.

More information about the DataCite REST API can be found in the [REST API Guide](#).

Principles

- DataCite was founded in 2009 on the principle of being an open stakeholder governed community that is open to participation from organizations around the world. Today, that continues to be true.
- Although our services have expanded, we continue to remain grounded to our roots. DataCite's umbrella was formed with the aim to safeguard common standards worldwide to support research, thereby facilitating compliance with the rules of good scientific practice.
- DataCite's identifier registration, Data File, and services are foundational components of the scholarly ecosystem. As the ecosystem continues to evolve, governance, sustainability and living-will insurance have become increasingly important components of the open infrastructure.

Governance

- The strength of DataCite is based on its active membership. DataCite is governed by its members and Executive Board directed by our statutes.
- There are currently approximately 80 seats across our Executive Board, Steering Groups and Working Groups that form our governance structures.
- DataCite Members are the voting body of the organization.
- Members meet annually to approve DataCite's revenue and expenditures, stand and/or vote for the Executive Board, guide DataCite's strategy, put forth resolutions and modifying the association's statutes.
- See <https://datacite.org/governance.html>

Governance cont.

ANNUAL REPORTS

DataCite prepares an annual report in advance of our annual General Assembly meeting that describes our activities for the past year.

1. [Annual Report 2017](#)
2. [Annual Report 2018](#)
3. [Annual Report 2019](#)
4. [Annual Report 2020](#)

BOARD MEETING SUMMARIES

As a nonprofit, the DataCite Board meets several times each year, either remotely or in-person. The Board meeting summaries can be found below:

- [2022 Board Meeting Summaries](#)
- [2021 Board Meeting Summaries](#)
- [2020 Board Meeting Summaries](#)

STATUTES

As a nonprofit, DataCite is governed by a set of statutes that are approved by our board and members. The latest approved version of our statutes is below.

- [Statutes](#)

Sustainability

- DataCite is sustainable through membership and service fees from organisations around the world. Our fee model adheres to the following principles:
 - Predictability through graded and fixed tiers
 - Scalability as we continue to support the growing demands of our community
 - Sustainability by aligning with DataCite's core cost drivers
 - Inclusivity in providing low fees for small organizations
- There are options to join the DataCite community as part of a Consortium or Direct Membership.

Insurance

- To the extent possible under law, DataCite has waived all copyright and related or neighboring rights to DataCite Data File under a CC0 license. The DataCite Data File includes all DOIs and deposited metadata in our database.
- All of DataCite's code and software processes are openly managed on Github and the development roadmap and prioritization are discussed in regular communications with members. As part of this, all code is published openly on Github under a fully permissible MIT License.
- We operate on an open and transparent basis to ensure accountability within our governance structures.

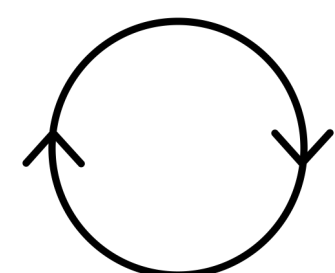
POSI

DataCite has conducted an audit against the POSI principles and would like to affirm our commitment to upholding these:

(see our POSI self audit <https://doi.org/10.5438/vy7h-g464>)



Governance



Sustainability



Insurance

Get involved

Encourage other organisations or initiatives to adopt POSI (see <https://openscholarlyinfrastructure.org/posse/>)

Organisations and initiatives that have adopted POSI collaborate and share best practice about the principles

Get involved in the DataCite community and discussions (info@datacite.org)



Get in touch!



Email us:

matt.buys@datacite.org
info@datacite.org



Follow us:

[@mjbuys](https://twitter.com/mjbuys)
[@datacite](https://twitter.com/datacite)



Talk to us:

pidforum.org



Read about us:

datacite.org



Get support:

support.datacite.org
support@datacite.org