Link It, Find It, Count It: Open Research Infrastructure Programs at LYRASIS

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Welcome

Chat
Please use the Q & A feature to ask questions. We will do Q&A at the end of the session.

Sound & Video
Your microphone and video have been disabled for this session. Please use the Q&A feature to ask questions.

Live Transcript
We are using Zoom’s auto-transcription for subtitles, which can be enabled or hidden on your own Zoom window.

Recording
This session will be recorded and made available for future viewing.
Open Research Infrastructure Community Programs at LYRASIS

IRUS-US
COUNT IT

DataCite
FIND IT

ORCID
LINK IT
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Program Leader for Persistent Identifier Communities

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ORCID US Community (LYRASIS)
ORCID US Community Specialist
IRUS US Community
What is IRUS?

- Institutional
- Repository
- Usage
- Statistics
What is IRUS?

• It is a usage statistics aggregation service enabling institutional repositories (IRs) to share and expose usage statistics, down to the individual item level, based on the global COUNTER standard

• IRUS collects raw download data from IRs for all item types and processes that data into COUNTER-conformant statistics

• The IRUS service provides repositories with comparable, authoritative standards-based usage data
What is COUNTER?

• An international standard that ensures vendors and publishers can provide their library customers with consistent, credible and comparable usage data.

• Libraries already expect COUNTER statistics from their paywalled electronic resource publishers

• COUNTER statistics allow libraries to evaluate how they are spending their money based on usage

https://www.projectcounter.org/about/counter-for-libraries/
About IRUS

Benefits:

• Standards based usage statistics
• Ability to benchmark against peers
• OA platform for authors, institution, and funding agencies to see
About IRUS

1. Gather data
   - Repositories
   - Send logs via tracker protocol

2. Process into COUNTER conformant stats
   - Filter out robots and rogue usage and double-clicks
   - Add metadata

3. Present and surface data
   - View reports and visualisations through website

4. Export, embed, reuse
   - API, widget, and manual export
   - CSV, TSV, JSON
About IRUS
# About IRUS

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About IRUS
Integrated Software

https://irus.jisc.ac.uk/r5/participate/implement/
LYRASIS DataCite US Community
What is DataCite?

DataCite = a DOI (digital object identifier) registration agency

- Global non-profit membership organization working with 2300+ repositories in the world to provide DOIs for data and other research outputs.

- Started in 2009 as part of an effort to make data more citable

- One of 10 official DOI registration agencies worldwide
What is DataCite?

DataCite member organizations can create DOIs for their own local, unique content/objects, including:

- Audiovisual
- Book / Book Chapter
- Collection
- Conference Paper/Proceeding
- Dataset / Data Paper
- Data Management Plan
- Dissertation
- Event
- Image
- Interactive Resource
- Journal / Journal Article
- Peer Review
- Physical Object
- Preprint
- Report
- Service
- Software
- Sound
- Standard
- Text
- Workflow
- Other

https://support.datacite.org/v1.3/docs/what-are-the-resource-types-for-datacite-dois
LYRASIS is a DataCite consortium lead for non-profits in the US.
What is a DOI?

DOI = Digital Object Identifier

Example DOI: https://doi.org/10.5281/zenodo.3862918

- DOI points to URL: https://zenodo.org/record/3862919#.YCW9RGhKg2w
- If the URL changes, the DOI stays the same.
DOI Metadata

Every DOI is associated with metadata about the “object”

https://zenodo.org/record/3862919#.YCW9RGlKg2w

https://schema.datacite.org/
404 Page Not Found
DOI System

1. User clicks link to DOI
   https://doi.org/10.5061/dryad.br15dv8h

2. DOI system finds the record for that DOI

3. User is sent to the URL currently listed in the DOI record
DOIs and FAIRness

DOIs (and other Persistent Identifiers) support open research infrastructure and make research and scholarly materials more FAIR:

- **Findable**
- **Accessible**
- **Interoperable**
- **Reusable**


[https://gofair.us/principles/](https://gofair.us/principles/)
DOI metadata is publicly available and indexed by multiple services including:

- Clarivate Data Citation Index
- Mendeley Data
- Dimensions
- Ex Libris Primo
- Proquest Summon
- Google Dataset search
- OpenAire
- Scholix
- Etc.

DataCite: DOIs and Beyond

Not just DOI registration…

Commons/PID Graph
https://commons.datacite.org
Discover connections between different PIDs, ex: works related to an organization, datasets related to a publication

REST API & harvesting services
We develop open tools and services for aggregators and software developers who incorporate DOI metadata into their products.

Citation & usage metrics
We produce/consume Event Data in order to provide citation stats, and we consume COUNTER-compliant data to provide usage stats. We develop new metrics tools and services as part of the Make Data Count project.
LYRASIS DataCite US Community = national DataCite consortium for non-profits in the US that are new to DataCite

• Goals:
  • Lower the barrier of participation and provide on-ramp for getting started with DOIs
  • Build/contribute to community of practice around DOIs in the US and globally
  • Support open research/scholarly infrastructure and resource FAIRness

https://www.lyrasis.org/programs/Pages/DataCite-US-Community-Membership.aspx
LYRASIS DataCite US Community

Benefits:

- Assign DOIs to local objects
- Dedicated support
- Participation in community of practice
  - Community calls, discussion, listserv, webinars, etc.
- Cost sharing based on # of DOIs created per year:
  - 1-1,999 DOIs = $1,625 plus $1.00 per DOI
  - 2,000-10,000 DOIs = flat rate of $3,600
  - Organizations creating more than 10,000 DOIs per year would need to operate as a direct member with DataCite

https://www.lyrasis.org/programs/Pages/DataCite-US-Community.aspx
https://datacite.org/feemodel.html
Considerations - Objects

Datasets?  
ETDs?  
Collections?  
Images?

What objects do you want to create DOIs for?

Data Management Plans?  
OERs?  
Audio/Visual?  
Other?
Considerations - DOI Creation Workflow

DOI Creation Options:

1. Manual entry via form
2. Upload XML
3. DataCite API:
   a. RESTful
   b. Endpoint: https://api.datacite.org/dois
   c. Supported metadata formats:
      i. DataCite XML
      ii. Schema.org JSON-LD
      iii. Crossref Unixref
      iv. Citeproc JSON
      v. RIS
      vi. BibTeX

1) https://support.datacite.org/docs/create-a-doi-via-form
2) https://support.datacite.org/docs/fabrica-create-doi-file-upload
3) https://support.datacite.org/docs/api
Considerations - Software

Certified Service Providers (DataCite API):

https://datacite.org/service-providers.html
Considerations - Software

Other software options:

- **Bepress** - metadata crosswalk to export DataCite XML
- **Islandora** - plugin
- **OJS & OMP** - plugin
- **Samvera** - some organizations have used custom code
- **Invenio** (same underlying software as Zenodo)

You can always create DOIs with manual form entry if your software does not support the API or XML export.

**Contact us for more specifics!**

[https://datacite.org/service-providers.html](https://datacite.org/service-providers.html)
Website

Information is available online:
https://www.lyrasis.org/programs/Pages/DataCite-US-Community.aspx
Communication Channels

- LYR-Open Listserv: http://lyralists.lyrasis.org/mailman/listinfo/lyropen
- Global PID Forum: https://www.pidforum.org/
ORCID US Community
What is ORCID?

- Open Researcher and Contributor ID
- Global
- Not for profit
- Community-built
- ORCID’s vision is a world where all who participate in research, scholarship, and innovation are uniquely identified and connected to their contributions across disciplines, borders, and time.
What is ORCID?

Three Components of ORCID

The ORCID iD

ORCID record

APIs
What is ORCID?

The ORCID iD: a unique, persistent identifier free of charge to researchers

ORCID iD: https://orcid.org/0000-0001-5727-2427
What is ORCID?

An ORCID record connected to the ORCID iD

- Affiliations
  - Employment
  - Education and Qualifications
  - Invited Positions and Distinctions
  - Membership and Service

- Funding
- Research Resources
- Works
- Peer Review
What is ORCID?: ORCID Record
What is ORCID?: ORCID Record

DOIs and Other PIDs
- ROR, Ringgold
- Metadata
- Manual and/or Search Link Wizards

Integrations with other Systems
- Crossref
- DataCite
- PubMed
- Scopus
- And many others
What is ORCID?: API

A set of Application Programming Interfaces (APIs), as well as the services and support of communities of practice that enable interoperability between an ORCID record and member organizations so researchers can choose to allow connection of their iD with their affiliations and contributions.
Member API Benefits

• Gather authenticated ORCID iDs
  • Mitigate confusion caused by name ambiguity

• Read data from ORCID
  • Streamline info gathering to assess & track individual contributions & measure institutional impact

• Write data to ORCID
  • Assert trustworthy & accurate affiliations, contribute to metadata integrity

• All of the above + auto-updates
  • Save time & reduce administrative burden (for both researchers and administrators)
Saving Time
Linking via APIs

- Funding System
- Research Reporting System
- API (Application Programming Interface)
- Publishing System
- Institutional Repository
Vendor Systems and Custom Systems

BUILT-IN INTEGRATIONS

CUSTOM INTEGRATIONS

- Central ID Management
- Faculty Reporting
- Institutional Repositories
- US Exemplars - ORCID US Community (lyrasis.org)
What is ORCID US Community?

- Consortium of Non-profit ORCID members in the US
- Created in 2018
  - Big Ten Academic Alliance
  - Greater Western Library Alliance
  - LYRASIS
  - NorthEast Research Libraries
- LYRASIS as administrative home
What is ORCID US Community?

- 170+ Members
  - Universities
  - Research Institutes
  - Funding Agencies
What is ORCID US Community?

Community of Practice

- Community Calls
- Webinars
- Community Showcase
- Discussion Forums
- Blogs
- Outreach Resources
Benefits of ORCID US Membership

- Discounted Fee
- Dedicated Support Staff
- Community
- 5 Premium API Keys
- ORCID Built-in Tools
Value of ORCID and ORCID US Community

• **Goal:** Uniquely identifying researchers and linking them to their contributions across different systems.

• **Benefits:**
  - Disambiguate researchers using a unique persistent identifier
  - Link researchers
  - Connect Organizations
  - Save Time
  - Recognize & Promote

https://orcidus.lyrasis.org/
Thank you!

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