Webinar Persistent IDs: Best Practices

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Research Data Canada – Données de Recherche Canada

Research Data Canada is supported by CANARIE, an organization dedicated to advancing Canada's knowledge and innovation infrastructure.



> Unique Identifiers: Current Landscape and Future Trends

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Download Link







Research Data Canada works with stakeholders to ensure research data is available to support innovation that benefits all Canadians.







International Agencies and Collaborators

The DCC Curation Lifecycle Model: http://www.ijdc.net/index.php/ijdc/article/viewFile/69/48.





> Vision Canadians have access to national and international collections of publicly-funded research data.





> Mission

Work with stakeholders to ensure research data is re-usable in support of innovation that benefits all Canadians.



Strategy Development of a collection of integrated National Data Services that support researchers through all stages of the research lifecycle and promote compliance.

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Best Practices Series

- >New Document Series intended to provide guidance & recommendations on best practices for research data management
- >Documents produced by Working Groups, which get direction from Committees and ED
- >Anticipate 3-4 per year

Definitions

- >Identifier (ID): provides a unique label for an Object
- >Persistent ID (PID): provides a long-lasting reference to an Object, regardless of that Object's location
- >PID System: provides a framework (i.e. software) facilitating discovery and access to Objects
- >PID Minting Service: provides a framework (i.e. software) for creating unique PIDs



Identifiers

>Key goal is to uniquely describe each type of input/output in the research lifecycle to facilitate:

- Discoverability
- Citability
- Linkability
- Preservation
- Quality control

Standard and ubiquitous ID approach is key to creating a rich research data/information discovery system at the national level in Canada



Researchers

- >RIDs: Researcher IDs
- >Many systems (e.g. a Research Information System, the Canadian Common CV) use their own internally generated RID
- >Facilitates unambiguous identification of a researchers and by association, their outputs
 - When researcher changes name
 - When researcher changes institution
 - Regardless of type of output

ORCID

>Open Researcher and Contributor ID

- ORCID Organization maintains ORCID system
- ORCID Identifier is the unique PID
- ORCID Registry provides access to ORCID IDs

>Researchers controls what goes into their record

- Information, Education, Employment, Funding Works
- External access via ORCID site, API, 3rd party system integration

>Potential "glue" that binds researchers and their outputs regardless of where the digital asset is



ORCID CA

>Effort to create an ORCID Canada Consortium

- ORCID CA Implementation Group moving ahead to define details
- CRKN providing business lead; informal request made to CANARIE to provide technical support
- Goal to launch for January 2017
- <u>Website</u> has more information

>Will provide best level of access for organizations at the best price

>Goal is to have as many Canadian researchers as possible create ORCID IDs



Objects

>OIDs: Object Identifiers

- >Many systems assign a unique ID in metadata to described objects – too many to count
- >Various standard PIDs for Objects: PURL, Handle, ARK, GUID, DOI, etc.
- >Which OID system used can often be an institutional decision, or determined by digital asset management software being used



DOI

>DOI: Digital Object Identifier

- Based on Handle system
- Useful and de facto standard for describing traditional outputs like journal articles
- Also describes elements like images/SW not common

>DataCite Canada is national DOI provider

Register to obtain/manage DOIs

>UBC DOI Minting software

 Works with DataCite Canada to create one-off or mass DOIs along with metadata records





ARK

>ARK: Archival Resource Key

- Developed by California Digital Library
- Can be used to provide IDs for any type of object, digital, physical, living or intangible
- Useful for describing individual digital elements, e.g. within a journal article (e.g. tables, images)
- System provides metadata record along with the ID

>ARKs for research data recommended by ANDS



Organizations

>OrgIDs: Organizational Identifiers

- >Less clear as to leading system for OrgIDs
 - Ringgold commercial OrgID system
 - GRID Open system from Digital Science
 - ISNI: International Standard Naming Identifier
 - Currently describes over 575,000 unique organizations
- >Decision will need to be made soon to facilitate a standard approach to OrgIDs
- >A combination of ISNI with a de facto Registry will likely be solution – ISNI+



Equipment

- >EIDs: Equipment IDs
- >Identifies a piece of research equipment or subcomponent
- >equipment.data Project
 - Currently defining common record UNIQUIP
 - Focus on equipment, current methodology

>MERIL Project

 Currently used in EU to describe research projects, but looking at how to describe key research equipment



Other

>Listing of additional ID approaches for

- Specimens (geo, bio)
- Chemicals, molecules
- Other Objects

>More domain-specific in efforts

>Key to long-term goal of providing unique identifiers to any input/output in research



Key Recommendations

>Commit to the adoption of best practice PIDs

- >Join the ORCID-CA consortium to develop a comprehensive national solution
- >Require researchers to have an ORCID all levels
 >Integrate ORCID into CCV
- >Require DOIs for deposit in response to funder OA mandates (funder, institution, publisher, etc.)

>Adopt ISNI as standard for OrgIDs

RDC Actions

>Created PID Working Group to follow progress

- >Develop communications strategy to facilitate broad adoption of standard PIDs in Canada
- >Engage with the international research data management community on PID efforts
- >Facilitate development of ORCID CA
- >Promote use of PIDs by Canadian publishers
- Promote use of DataCite DOIs and UBC tools





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