Process to map DataCite Metadata Schema to Dublin Core: opportunities and challenges

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FAIR IMPACT Event: Documenting mapping community practices

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DataCite to Dublin Core Mappings

A tradition to map to other schemes (eg DDI, OECD, FORCE 11 Software Principles, CodeMeta..) since the inception of the DataCite Metadata WG

Coordination by DataCite staff and DataCite Metadata WG. Suggestions by the broader community are welcome, discussed and followed up.

Earlier DataCite-Dublin Core mappings released with v4.4 and v2.1 of DataCite Metadata Schema

Motivations:
- Many DataCite customers also use Dublin Core standard for different legacy/institutional/policy reasons
- Foster further interoperability between 2 broadly used discipline-agnostic schemes

2 new mappings together with v 4.5 of DataCite Metadata Schema:
- Mapping to Dublin Core 'Qualified' from the /terms/ namespace
- Mapping to a local DataCite Dublin Core extension to include more properties/subproperties specific to DataCite

Mappings process: challenges, analysis, solutions

- **Goal** is to map as many DataCite properties and subproperties as possible.

- **Landscape scan** to identify standards, guidelines and recommendations within the repositories community (eg award information in OpenAire Guidelines, third party controlled lists, schemes etc)

- **Some challenges on the way**
  - no exact match of semantics and/or usage of elements from the 2 schemes
  - no corresponding values for specific attributes (eg different controlled values for "contributorType" or "relationType" used in each schema)
  - several DataCite properties/subproperties mapped into same Dublin Core element

- **How to map identifiers with respective agent**

The 2 new mappings make use of the "pid" attribute from the proposed Scholarly Resources Application Profile (SRAP).

Based on DCMI's draft proposal of using the XML id attribute to match identifiers with the agent names (but using attribute pid instead of id so that the same person or organization may have multiple unique identifiers)
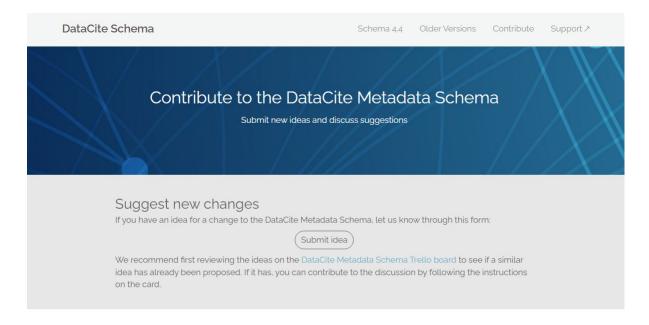
Opportunities for collaboration

- Many existing local extensions of Dublin Core schema

- Other local DataCite-Dublin Core mappings out there

- Challenges to pack certain PIDs/IDs associated with values

- Need for further controlled vocabularies interoperability

- Need for close collaboration with communities working on solutions for more granular and semantic description of scholarly outputs in Dublin Core format, e.g. we are working with the National Library of Finland and the DCMI on the Scholarly Resources Application Profile (DC-SRAP) which proposes some new Dublin Core terms

- Need to engage repository softwares communities to facilitate adoption of metadata mappings

Feedback is welcome any time!

[DataCite Schema](#)

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