DMP Common Standards WG

Tomasz Miksa, Paul Walk, Peter Neish
Challenge – why do we need this WG?

Shortcomings of existing DMPs

- manually completed, vague, not updated, ...

Machine-actionable DMPs

- living documents
- automate data management
  - collect information from systems
  - trigger actions in systems
- facilitate validation

This requires

- well-defined RDM workflows
- data management infrastructure
- common data model

https://doi.org/10.3897/rio.3.e13086
Common data model for machine-actionable DMPs

- to model information from standard DMPs
- NOT a template
- NOT a questionnaire
- modular design
  - core set of elements
  - domain specific extensions

Reference implementations

- ready to use models
  - JSON, XML, RDF, etc.

Guidelines for adoption of the common data model

- requirements for supporting systems
- pilot studies
Example

• Current DMPs – model questionnaires

<administrative_data>
  <question>Who will be the Principle Investigator?</question>
  <answer>The PI will be John Smith from our university.</answer>
</administrative_data>

• Machine-actionable DMPs – model information

"dc:creator": [ {
  "foaf:name": "John Smith",
  "@id": "orcid.org/0000-1111-2222-3333",
  "foaf:mbox": "mailto:jsmith@tuwien.ac.at",
  "madmp:institution": "AT-Vienna-University-of-Technology"
} ],
Example

• Currently available – not very useful

<administrative_data>
  <question>Who will be the Principle Investigator?</question>
  <answer>The PI will be John Smith from our university.</answer>
</administrative_data>

Relevant DMP

"dc:creator": [ {
  "foaf:name": "John Smith",
  "@id": "orcid.org/0000-1111-2222-3333",
  "foaf:mbox": "mailto:jsmith@tuwien.ac.at",
  "madmp:institution": "AT-Vienna-University-of-Technology"
} ],

Reuse existing standards, e.g. Dublin Core, PREMIS, etc.
Example

• Currently available – not very useful

<administrative_data>
   <question>Who will be the Principle Investigator?</question>
   <answer>The PI will be John Smith from our university.</answer>
</administrative_data>

• Machine-actionable DMP

"dc:creator": [ 
   { 
      "foaf:name": "John Smith",
      "@id": "orcid.org/0000-1111-2222-3333",
      "foaf:mbox": "mailto:jsmith@tuwien.ac.at",
      "madmp:institution": "AT-Vienna-University-of-Technology"
   }
],

Use PIDs whenever possible, e.g. ORCID
Example

• Currently available – not very useful

<administrative_data>
  <question>Who will be the Principle Investigator?</question>
  <answer>The PI will be John Smith from our university.</answer>
</administrative_data>

• Machine-actionable DMP

"dc:creator":[ {
  "foaf:name":"John Smith",
  "@id":"orcid.org/0000-1111-2222-3333",
  "foaf:mbox":"mailto:jsmith@tuwien.ac.at",
  "madmp:institution":"AT-Vienna-University-of-Technology"
}
]

Use controlled vocabularies
Example

• Currently available – not very useful

<administrative_data>
  <question>Who will be the Principle Investigator?</question>
  <answer>The PI will be John Smith from our university.</answer>
</administrative_data>

• Machine-actionable DMP

"dc:creator": [ {
   "foaf:name": "John Smith",
   "@id": "orcid.org/0000-0001-111-2222-3333",
   "foaf:mbox": "mailto:jsmith@tuwien.ac.at",
   "madmp:institution": "AT-Vienna-University-of-Technology"
 } ],

Develop own concepts and vocabularies only when needed
Join us now!

- We need inputs from all of you!
  - researchers, infrastructure operators, funders, developers, managers, PhD students, ...

- Join our DMP Common Standards WG
  - [https://www.rd-alliance.org/groups/dmp-common-standards-wg](https://www.rd-alliance.org/groups/dmp-common-standards-wg)

- Mailing list
  - dmp-common@rda-groups.org

- GitHub - issue tracker for discussion
  - [https://github.com/RDA-DMP-Common/IdeasOpenDiscussion](https://github.com/RDA-DMP-Common/IdeasOpenDiscussion)

- Monthly calls
  - 2 time slots – ‘friendly for each time zone’

- RDA Europe Workshop in Vienna
  - [http://www.ifstuwien.ac.at/dp/rda17-workshop-vienna/](http://www.ifstuwien.ac.at/dp/rda17-workshop-vienna/)