Argos adoption of RDA ma-DMP standard and integration with the OpenAIRE ecosystem

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Machine-actionable DMPs - tell us your story! | RDA VP16 in Costa Rica, 12/11/2020
Overview

Compliance
- Models
- How / where it is met
- Challenges
- Adjustments

Exploitation
- OpenAIRE Research Graph
- DMP Discoverability
Compliance
Challenges:
• Systemic / fixed fields vs custom / flexible fields
• DMPs -> multiple Datasets
• Different levels (datasets vs DMPs)

Adjustments:
• New feature in template model / editor: semantic tags
• Tweaks on import / export mechanism: heuristics, cardinality etc
• New elements: Contact, Cost, Language, License etc
Exploitation
Mapping between models – RDA x RG

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--- data management plan ---

<table>
<thead>
<tr>
<th>URI</th>
<th><a href="http://purl.org/coar/resource_type/c_ab20">http://purl.org/coar/resource_type/c_ab20</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Definition (en)</td>
<td>A formal document that outlines how and where data will be collected and managed, both during and after a research project (Adapted from Wikipedia)</td>
</tr>
</tbody>
</table>

**data management plan**

- plan de gestión de datos
- pla de gestió de dades
- plan de gestion de données

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#### OpenAIRE Guidelines

- Search docs

**CURRENT GUIDELINES**
- OpenAIRE Guidelines for Literature Repositories
- OpenAIRE Guidelines for Data Archives
- OpenAIRE Guidelines for CRIS Managers
- Draft OpenAIRE Guidelines for Software Repository Managers
- Draft OpenAIRE Guidelines for Other Research Products

**HOW TO CONTRIBUTE**
- Contributing

**APPENDIX**
- How the Horizon 2020 Open Access requirements are met

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Discoverability 2/2

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New entities and relationships

OpenAIRE Research Graph
- “hasDMP”/“hasProject”
- “hasDataset”
- “hasDMP”

Argos to enrich the RG with ma-DMPs providing extra metadata for datasets (e.g. ethics, security, quality, and preservation)
Sum up of findings

• Tool’s models may not map directly to maDMP entities
  • Absence of elements
  • Different level of abstraction / Not fully aligned semantics
    (contributors at various levels)
  • Different context of elements
  • Different cardinality
• Solutions applied
  a. Use more abstract/general fields of OpenAIRE or Argos,
     though diverged in cardinality and / or data type (e.g. use primary)
  b. Omit elements
  c. Use extra area for additional data
• DMPs are mainstream entities now!
• Adoption of term “data-management-plan” by repositories
• Schema versioning is essential
Useful Resources

• What’s New: https://www.openaire.eu/openaire-welcomes-argos-new-version

• User Guide: https://argos.openaire.eu/user-guide

• Factsheet: https://argos.openaire.eu/splash/assets/media-kit/Factsheet.pdf

• FAQs: https://argos.openaire.eu/splash/about/faqs.html

• Contact us: argos@openaire.eu
Data Management Plans and Linked Open Data: exploiting machine actionable data management plans through Open Science Graphs

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