Introduction

HMC Vision and Mission

Implementation examples

FAIR building blocks

- K0 Use PID Metadata (K)
  - K1.0 use ORCID
    - K1.1 Centers encourage
    - K1.2 Employees maintain
    - K1.3 Data infrastructures implement
  - K2.0 Use ROR
    - K2.1 Centers maintain ROR
    - M2.2 Repos refer to ROR
  - K3.0 Use PIDInst
    - K3.1 Techs Maintain PIDInst
    - K3.2 Researchers refer to PIDInst
    - K3.3 Repos refer to PIDInst
  - K4.0 Use IGSN
    - K4.1 Organizations support use of IGSN
    - K4.2 Sample Curators register IGSN
    - K4.3 Researchers assign IGSNs to samples
    - K4.4 Repos record and refer to IGSN
  - K5.0 Use Crossref DOI
    - K5.1 Publication Repos register Crossref DOI
    - K5.2 Repos refer to Crossref DOI
  - K6.0 Use DataCite DOI
    - K6.1 Repos register and refer to DataCite DOI
    - K6.2 Publisher and Authors refer to DataCite DOI
  - Comments on other PID Types
- S0 Use Semantic (S) Resources
  - S1.0 Decompose compolex semantic metadata according to community-recognized frameworks
    - S1.1 Measurable quantities
    - S1.2 Measurement devices
  - S2.0 Annotate your metadata with terms from community-recognized controlled vocabularies
    - S2.1 Define your needs and derive requirements for controlled vocabularies
    - S2.2 Reuse existing controlled vocabularies wherever possible
    - S2.3 Evaluate the suitability of controlled vocabularies based on defined criteria and available tools
    - S2.4 Adopt recommended controlled vocabularies
    - S2.5 Adopt recommended terminology services
    - S2.6 Carefully consider how to deal with missing terms
  - S3.0 Use metadata schemata that are semantically usable
    - S3.1 Use Schema.org compliant code with datasets
    - S3.2 Repos should implement Schema.org compliant code
    - S3.3 ETC

    - S4.0 Ensure to address essential criteria when building a vocabulary
- I0 Provision of Interfaces (I) and Exchange Formats
    - I1.0 Agree on Protocol
        - I1.1 Define REST Interface
        - I1.2 Define OAI-PMH Interface
        - I1.3 Define CSW Interface
    - I2.0 Define Exchange Format
        - I2.1 Use DataCite Metadata Format for Exchange
        - I2.2 Use ISO 19115 Metadata Format for Exchange
        - I2.3 Use schema.org Metadata Format for Exchange
        - I2.4 Use DCAT v3 Metadata Format for Exchange
- B0 Which data do we want to harmonize
- C0 Define Data Containers
- F0 Implementation of Data Formats
    - F1.0 NETCDF Guidelines
- L0 Use Licenses
- Q0 Implement Quality Information
- P0 Track Provenance
- R0 Define Stakeholder Roles
- V0 Value Data Publications


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Stakeholder Instructions

- for data management implementation on an organizational (multi center) level
- for center management
    - for technicians (lab / experiments)
    - for center administration
- for researchers (data producers)
- for data stewards / managers / repositories
- for librarians

* Instructions for Re-using data

Schema.org

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* Glossary

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* Template for recommendations

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