

Introduction

HMC Vision and Mission

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
- S0 Use Semantic (S) Resources
 - S1.0 Enrich data with rich metadata
 - S2.0 Decompose metadata according to community-recognized frameworks
 - S3.0 Annotate your metadata with terms from community-recognized controlled vocabularies
 - S3.1 Define your needs and derive requirements for controlled vocabularies
 - S3.2 Reuse existing controlled vocabularies wherever possible
 - S3.3 Evaluate the suitability of controlled vocabularies based on defined criteria and available tools
 - S3.4 Adopt recommended controlled vocabularies
 - S3.5 Adopt recommended terminology services
 - S3.6 Carefully consider how to deal with missing terms
 - S4.0 Use metadata schemata that are semantically usable
 - S4.1 Use Schema.org compliant code with datasets
 - S4.2 Repos should implement Schema.org compliant code
 - S4.3 ETC
 - S5.0 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

Stakeholder Instructions

- for [organizational data management implementation](#)
- 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](#)

* [Glossary](#)

* [Template for recommendations](#)

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