

- personal ORCID as a reference to themselves in technical infrastructures
- Recommendation to data infrastructures to allow to assign IGSNs to data records
- Recommendation to decompose complex semantic metadata according to community-recognized frameworks
- Recommendation to define your needs and derive requirements for controlled vocabularies
- Recommendation to evaluate the suitability of controlled vocabularies based on defined criteria and available tools
- Recommendation to Helmholtz data stewards, repository maintainers and developers to implement personal ORCID as a reference to people in technical infrastructures
- Recommendation to Helmholtz data stewards, repository maintainers and developers to implement PIDInst as a reference to measuring devices and instruments in technical infrastructures
- Recommendation to Helmholtz data stewards, repository maintainers and developers to implement ROR as a reference to organizations in technical infrastructures
- Recommendation to implement harmonized interfaces and exchange formats to harvest and exchange metadata and data
- Recommendation to

Organizations to support IGSN deployment

- Recommendation to provide metadata export via API in DataCite ≥ 4.5 format
- Recommendation to provide metadata export via API in DCAT v3 format
- Recommendation to provide metadata export via API in ISO191XX format
- Recommendation to provide metadata export via API in schema.org format
- Recommendation to repositories to implement schema.org compatible code with data requests
- Recommendation to researchers to record IGSNs when taking samples
- Recommendation to Reuse existing controlled vocabularies wherever possible
- Recommendation to Sample curators to train staff in handling IGSN

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- Recommendation to the center managements to implement measures to actively encourage the use of ORCID by their staff
- Recommendation to the center managements to implement measures to record, publish and maintain their ROR record
- Recommendation to the technical personnel to implement measures to register and maintain metadata for measuring devices and instruments with PIDInst
- Recommendation to use

- CrossRef DOI as the standard reference in technical infrastructures to journal/article publications where appropriate
- Recommendation to use DataCite DOI as the standard reference in technical infrastructures to data sets where appropriate
- Recommendation to use IGSN as the standard reference in technical infrastructures to samples where appropriate
- Recommendation to use ORCID as the standard reference in technical infrastructures to persons where appropriate
- Recommendation to use PIDINST as the standard reference in technical infrastructures to measuring devices or instruments where appropriate
- Recommendation to use ROR as the standard reference in technical infrastructures to organizations where appropriate
- Recommendation to use stable PID systems to refer to frequently used redundant metadata wherever possible
- Recommendation use Schema.org compliant code with datasets
- Recommendations for administrations:
- Recommendations for anyone related to data production (researchers, technicians, data managers, and others):
- Recommendations for data

curators:

- Recommendations for organizations to implement consistent data management practices
- Recommendations for organizations:
- Recommendations for researchers:

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- [stakeholder_instructions](#)

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