

Measuring the Impact of Digital Repositories

Core Trustworthy Data Repository Requirements

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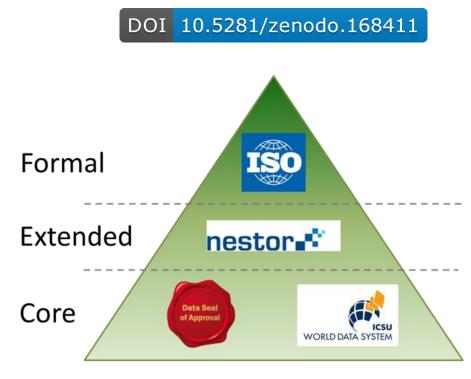
Core Trustworthy Data Repository Certification

Catalogue of requirements:

- 1. Context (1)
- Usage and impact of the repository data holdings (citations, use by other projects, etc.).
- A national, regional, or global role that the repository serves.
- Any global cluster or network organization that the repository belongs to.
- 2. Organizational infrastructure (6)
- 3. Digital object management (8)
- 4. Technology (2)
- 5. Applicant feedback (1)

Procedures for assessment:

- 1. Self-assessment, public evidence, compliance level
- 2. Peer-review (2 reviewers)
- 3. Periodic review (3 years)



Context Repository type, designated community, Level of curation performed, Outsource partners, Impact

Organizational infrastructure

- R1. DR has an explicit mission to provide access to and preserve data in its domain.
- R2. DR maintains all applicable **licenses** covering data access & use & monitors compliance
- R3. DR has a **continuity plan** to ensure ongoing access to and preservation of its holdings.
- R4. DR ensures that data are created, curated, accessed, and used in compliance with **disciplinary and ethical norms**.
- R5. DR has adequate funding and sufficient numbers of qualified staff managed through a clear system of governance
- R6. repository adopts mechanism(s) to secure ongoing **expert guidance** and feedback (either in-house, or external, scientific guidance).

Digital object management

- R7. DR guarantees the integrity and authenticity of the data.
- R8. DR accepts data & metadata based on defined criteria to ensure relevance and understandability for users.
- R9. DR applies documented processes and procedures in managing archival storage of the data.
- R10. DR assumes responsibility for long-term preservation and manages this function in a planned and documented way.
- R11. DR has appropriate expertise to address **technical data and metadata quality** sufficient to make quality evaluations.
- R12. Archiving takes place according to **defined workflows** from ingest to dissemination.
- R13. DR enables users to discover the data and refer to them in a persistent way through proper citation.
- R14. DR enables reuse of the data over time, ensuring that appropriate metadata support the understanding and use of the data.

Technical infrastructure

- R15. DR functions on **well-supported operating systems and other core infrastructural software** and is using hardware and software technologies appropriate to the services it provides to its Designated Community.
- R16. The technical infrastructure of the repository provides for **protection** of the facility and its data, products, services, and users.

Impact of Core Certification

- Builds stakeholder confidence (funders, publishers, etc.)
- Raises awareness about digital preservation
- Improves communication inside the repository
- Improves repository processes
- Ensures transparency (public assessments)
- Differentiates the repository from others

