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)
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

The research DR is either certified or supports a repository standard