

Application for WDS Membership

Regular Member Catalogue of Criteria

CORE TRUSTWORTHY DATA REPOSITORIES REQUIREMENTS

Background & General Guidance

The Core Trustworthy Data Repositories Requirements are intended to reflect the characteristics of trustworthy repositories. As such, all Requirements are mandatory and are equally weighted, standalone items. Although some overlap is unavoidable, duplication of evidence sought among Requirements has been keep to a minimum where possible. The choices contained in checklists (e.g., repository type and curation level) are not considered to be comprehensive, and additional space is provided in all cases for the applicant to add 'other' (missing) options. This and any comments given may then be used to refine such lists in the future.

Each Requirement in the Catalogue is accompanied by guidance text to assist applicants in providing sufficient evidence that their repositories meet the Requirement, outlining the types of information that a reviewer will expect in order to perform an objective assessment. Furthermore, the applicant must indicate a compliance level for each of the Requirements:

- 0 Not applicable
- 1 The repository has not considered this yet
- 2 The repository has a theoretical concept
- 3 The repository is in the implementation phase
- 4 The guideline has been fully implemented in the repository

Compliance levels provide a useful part of the self-assessment process, but all applicants will be judged against statements supported by appropriate evidence; not against self-assessed compliance levels. In this regard, if the applicant believes a Requirement is not applicable, the reason for this must be documented in detail. Note also that compliance levels 1 and 2 can be valid for internal self-assessments, while certification may be granted if some guidelines are considered to be at level 3—in the implementation phase—since the Requirements include an assumption of a repository's continuous improvement.

Reponses must be in English. Although attempts will be made to match reviewers to applicants in terms of language and discipline, this is not always possible. If evidence is in another language, an English summary must be provided in the self-assessment.

Because core certification does not involve a site visit, the Requirements should be supported by links to public evidence. Nevertheless, it is understood that for reasons such as security, it may not always possible to include all information on an organization's website, and provisions are made within the certification process for repositories who want sensitive parts of their evidence to remain confidential.

Repositories are required to be reassessed every three years. It is recognized that while basic systems and capabilities evolve continuously according to technology and user needs, they may not undergo major changes in this timeframe. However, the Trustworthy Repository ISO standard (ISO 16363) has a five-year review cycle, and a shorter period is considered necessary for a core trust standard to allow for possible modifications and corrections. Hence, an organization with well-managed records and business processes should reasonably expect to be able to submit an application with only minimal revisions after three years, unless the Requirements themselves have been updated within the intervening period.

Glossary of Terms

Please refer to the Core Trustworthy Data Repositories Requirements Glossary: https://goo.gl/rQK5RN.

BACKGROUND INFORMATION

Context
R0. Please provide context for your repository.
Repository Type. Select all relevant types from: Domain or subject-based repository Institutional repository National repository system; including governmental Publication repository Library/Museum/Archives Research project repository
Other (please describe)
Comments
Brief Description of the Repository's Designated Community.
Level of Curation Performed. Select all relevant types from: A. Content distributed as deposited B. Basic curation – e.g. brief checking; addition of basic metadata or documentation C. Enhanced curation – e.g. conversion to new formats; enhancement of documentation D. Data-level curation – as in C above; but with additional editing of deposited data for accuracy
Comments
Outsource Partners. If applicable, please list them.
Other Relevant Information.

(Optional) Supporting documents. $\label{eq:continuous} \begin{tabular}{ll} File Upload & No file chosen \end{tabular}$

Guidance: To assess a repository, reviewers need some information about the repository to set it in context. Please select from among the options and provide details for the items that appear in the Context requirement.

- (1) Repository Type. This item will help reviewers understand what function your repository performs. Choose the best match for your repository type (select all that apply). If none of the categories is appropriate, feel free to provide another descriptive type. You may also provide further details to help the reviewer understand your repository type.
- (2) Repository's Designated Community. This item will be useful in assessing how the repository interacts and communicates with its target community. Please make sure that the response is specific—for example, 'quantitative social science researchers and instructors'.
- (3) Level of Curation. This item is intended to elicit whether the repository distributes its content to data consumers without any changes, or whether the repository adds value by enhancing the content in some way All levels of curation assume initial deposits are retained unchanged and that edits are only made on copies of those originals. Annotations/edits must fall within the terms of the licence agreed with the data producer and be clearly within the skillset of those undertaking the curation. Thus, the repository will be expected to demonstrate that any such annotations/edits are undertaken and documented by appropriate experts and that the integrity of all original copies is maintained. Knowing this will help reviewers in assessing other certification requirements. Further details can be added that would help to understand the levels of curation you undertake.
- (4) Outsource Partners. Please provide a list of Outsource Partners that your organization works with, describing the nature of the relationship (organizational, contractual, etc.), and whether the Partner has undertaken any trustworthy repository assessment. Such relationships may include, but are not limited to: any services provided by an institution you are part of, storage provided by others as part of multicopy redundancy, or membership in organizations that may undertake stewardship of your data collection when a business continuity issue arises. Moreover, please list the certification requirements for which the Partner provides all, or part of, the relevant functionality/service, including any contracts or Service Level Agreements in place. Because outsourcing will almost always be partial, you will still need to provide appropriate evidence for certification requirements that are not outsourced and for the parts of the data lifecycle that you control. Qualifications/certifications—including, but not limited to, the DSA or WDS certifications—are preferred for outsource partners. However, it is not a necessity for them to be certified. We understand that this can be a complex area to define and describe, but such details are essential to ensure a comprehensive review process.
- (5) Other Relevant Information. The repository may wish to add extra contextual information that is not covered in the Requirements but that may be helpful to the reviewers in making their assessment. For example, you might describe:
- The 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.

ORGANIZATIONAL INFRASTRUCTURE

I. Mission/Scope

Compliance Level:

R1. The repository has an explicit mission to provide access to and preserve data in its domain.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: Repositories take responsibility for stewardship of digital objects, and to ensure that materials are held in the appropriate environment for appropriate periods of time. Depositors and users must be clear that preservation of, and continued access to, the data is an explicit role of the repository.

For this Requirement, please describe:

• Your organization's mission in preserving and providing access to data, and include links to explicit statements of this mission.

II. Licenses Compliance Level: TR2. The repository maintains all applicable licenses covering data access and use and monitors compliance. (Optional) Supporting documents. File Upload No file chosen Guidance: Repositories must maintain all applicable licenses covering data access and use, communicate about them with users, and monitor compliance. This Requirement relates to the access regulations and applicable licenses set by the data repository itself, as well as any codes of conduct that are generally accepted in the relevant sector for the exchange and proper use of knowledge and information. Reviewers will be seeking evidence that the repository has sufficient controls in place according to the access criteria of their data holdings, as well as evidence that any relevant licences or processes are well managed. For this Requirement, please describe: License agreements in use.
R2. The repository maintains all applicable licenses covering data access and use and monitors compliance. (Optional) Supporting documents. File Upload No file chosen Guidance: Repositories must maintain all applicable licenses covering data access and use, communicate about them with users, and monitor compliance. This Requirement relates to the access regulations and applicable licenses set by the data repository itself, as well as any codes of conduct that are generally accepted in the relevant sector for the exchange and proper use of knowledge and information. Reviewers will be seeking evidence that the repository has sufficient controls in place according to the access criteria of their data holdings, as well as evidence that any relevant licences or processes are well managed. For this Requirement, please describe:
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License agreements in use.
• Conditions of use (distribution, intended use, protection of sensitive data, etc.).
• Documentation on measures in the case of noncompliance with conditions of access and use
Note that if all data holdings are completely public and without conditions imposed on users—such as attribution requirements or agreement to make secondary analysis openly available—then it can simply be stated.
This Requirement must be read in conjunction with R4 (Confidentiality/Ethics) to the extent that ethical and privacy provisions impact on the licenses. Assurance that deposit licences provide sufficient rights for the repository to maintain, preserve, and offer access to data is covered under R10 (Preservation Plan).
III. Continuity of access
Compliance Level:
R3. The repository has a continuity plan to ensure ongoing access to and preservation of its holdings.
(Optional) Supporting documents. File Upload No file chosen Guidance: This Requirement covers the measures in place to ensure access to, and availability of, data holdings, both currently and in

Guidance: This Requirement covers the measures in place to ensure access to, and availability of, data holdings, both currently and in the future. Reviewers are seeking evidence that preparations are in place to address the risks inherent in changing circumstances.

For this Requirement, please describe:

- The level of responsibility undertaken for data holdings, including any guaranteed preservation periods.
- The medium-term (three- to five-year) and long-term (> five years) plans in place to ensure the continued availability and accessibility of the data. In particular, both the response to rapid changes of circumstance and long-term planning should be described, indicating options for relocation or transition of the activity to another body or return of the data holdings to their owners

(i.e., data producers). For example, what will happen in the case of cessation of funding, which could be through an unexpected withdrawal of funding, a planned ending of funding for a time-limited project repository, or a shift of host institution interests?

Evidence for this Requirement should relate more to governance than to the technical information that is needed in R10 (Preservation plan) and R14 (Data reuse), and should cover the situation in which R1 (Mission/Scope) changes. This Requirement contrasts with R15 (Technical infrastructure) and R16 (Security) in that it covers full business continuity of the preservation and access functions.

IV. Confidentiality/Ethics

Compliance Level:

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R4. The repository ensures, to the extent possible, that data are created, curated, accessed, and used in compliance with disciplinary and ethical norms.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: Adherence to ethical norms is critical to responsible science. Disclosure risk—for example, the risk that an individual who participated in a survey can be identified or that the precise location of an endangered species can be pinpointed—is a concern that many repositories must address. Evidence sought is concerned with not only having good practices for data with disclosure risks, but also the necessity to maintain the trust of those agreeing to have personal/sensitive data stored in the repository.

For this Requirement, responses should include evidence related to the following questions:

- How does the repository comply with applicable disciplinary norms?
- Does the repository request confirmation that data collection or creation was carried out in accordance with legal and ethical criteria prevailing in the data producer's geographical location or discipline (e.g., Ethical Review Committee/Institutional Review Board or Data Protection legislation)?
- Are special procedures applied to manage data with disclosure risk?
- Are data with disclosure risk stored appropriately to limit access?
- Are data with disclosure risk distributed under appropriate conditions?
- Are procedures in place to review disclosure risk in data, and to take the necessary steps to either anonymize files or to provide access in a secure way?
- Are staff trained in the management of data with disclosure risk?
- Are there measures in place if conditions are not complied with?
- Does the repository provide guidance in the responsible use of disclosive, or potentially disclosive data?

Evidence for this Requirement should be in alignment with provisions for the procedures stated in R12 (Workflows) and for any licenses in R2 (Licences).

V. Organizational infrastructure

Compliance Level:

R5. The repository has adequate funding and sufficient numbers of qualified staff managed through a clear system of governance to effectively carry out the mission.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: Repositories need funding to carry out their responsibilities, along with a competent staff who have expertise in data archiving. However, it is also understood that continuity of funding is seldom guaranteed, and this must be balanced with the need for

For this Requirement, responses should include evidence related to the following:

- The repository is hosted by a recognized institution (ensuring long-term stability and sustainability) appropriate to its Designated Community.
- The repository has sufficient funding, including staff resources, IT resources, and a budget for attending meetings when necessary. Ideally this should be for a three- to five-year period.
- The repository ensures that its staff have access to ongoing training and professional development.
- The range and depth of expertise of both the organization and its staff, including any relevant affiliations (e.g., national or international bodies), is appropriate to the mission.

Full descriptions of the tasks performed by the repository—and the skills necessary to perform them—may be provided, if available. Such descriptions are not mandatory, however, as this level of detail is beyond the scope of core certification.

VI. Expert guidance

Compliance Level:

R6. The repository adopts mechanism(s) to secure ongoing expert guidance and feedback (either in-house, or external, including scientific guidance, if relevant).

(Optional) Supporting documents.

File Upload No file chosen

Guidance: An effective repository strives to accommodate evolutions in data types, data volumes, and data rates, as well as to adopt the most effective new technologies in order to remain valuable to its Designated Community. Given the rapid pace of change in the research data environment, it is therefore advisable for a repository to secure the advice and feedback of expert users on a regular basis to ensure its continued relevance and improvement.

For this Requirement, responses should include evidence related to the following questions:

- Does the repository have in-house advisers, or an external advisory committee that might be populated with technical members, data science experts, and disciplinary experts?
- How does the repository communicate with the experts for advice?
- How does the repository communicate with its Designated Community for feedback?

This Requirement seeks to confirm that the repository has access to objective expert advice beyond that provided by skilled staff mentioned in R5 (Organizational infrastructure).

DIGITAL OBJECT MANAGEMENT

VII. Data integrity and authenticity

Compliance Level:

(Optional) Supporting documents.

File Upload No file chosen

Guidance: The repository should provide evidence to show that it operates a data and metadata management system suitable for ensuring integrity and authenticity during the processes of ingest, archival storage, and data access.

Integrity ensures that changes to data and metadata are documented and can be traced to the rationale and originator of the change.

Authenticity covers the degree of reliability of the original deposited data and its provenance, including the relationship between the original data and that disseminated, and whether or not existing relationships between datasets and/or metadata are maintained.

For this Requirement, responses on data integrity should include evidence related to the following:

- Description of checks to verify that a digital object has not been altered or corrupted (i.e., fixity checks).
- Documentation of the completeness of the data and metadata.
- Details of how all changes to the data and metadata are logged.
- Description of version control strategy.
- Usage of appropriate international standards and conventions (which should be specified).

Evidence of authenticity management should relate to the following questions:

- Does the repository have a strategy for data changes? Are data producers made aware of this strategy?
- Does the repository maintain provenance data and related audit trails?
- Does the repository maintain links to metadata and to other datasets? If so, how?
- Does the repository compare the essential properties of different versions of the same file? How?
- Does the repository check the identities of depositors?

This Requirement covers the entire data lifecycle within the repository, and thus has relationships with workflow steps included in other requirements—for example, R8 (Appraisal) for ingest, R9 (Documented storage procedures) and R10 (Preservation plan) for archival storage, and R12–R14 (Workflows, Data discovery and identification, and Data reuse) for dissemination. However, maintaining data integrity and authenticity can also be considered a mindset, and the responsibility of everyone within the repository.

VIII. Appraisal

Compliance Level:

R8. The repository accepts data and metadata based on defined criteria to ensure relevance and understandability for data users.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: The appraisal function is critical in determining whether data meet all criteria for inclusion in the collection and in establishing appropriate management for their preservation. Care must be taken to ensure that the data are relevant and understandable to the Designated Community served by the repository.

For this Requirement, responses should include evidence related to the following questions:

- Does the repository use a collection development policy to guide the selection of data for archiving?
- Does the repository have quality control checks to ensure the completeness and understandability of data deposited? If so, please provide references to quality control standards and reporting mechanisms accepted by the relevant community of practice, and include details of how any issues are resolved (e.g., are the data returned to the data provider for rectification, fixed by the repository, noted by quality flags in the data file, and/or included in the accompanying metadata?).
- Does the repository have procedures in place to determine that the metadata required to interpret and use the data are provided?
- What is the repository's approach if the metadata provided are insufficient for long-term preservation?
- Does the repository publish a list of preferred formats?
- Are quality control checks in place to ensure that data producers adhere to the preferred formats?
- What is the approach towards data that are deposited in non-preferred formats?

This Requirement addresses quality assurance from the viewpoint of the interaction between the depositor of the data and metadata and the repository. It contrasts with R11 (Data quality), which addresses metadata and data quality from the viewpoint of the Designated Community.

IX. Documented storage procedures

Compliance Level:

R9. The repository applies documented processes and procedures in managing archival storage of the data.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: Repositories need to store data and metadata from the point of deposit, through the ingest process, to the point of access. Repositories with a preservation remit must also offer 'archival storage' in OAIS terms.

For this Requirement, responses should include evidence related to the following questions:

- How are relevant processes and procedures documented and managed?
- What levels of security are required, and how are these supported?
- How is data storage addressed by the preservation policy?
- Does the repository have a strategy for backup/multiple copies? If so, what is it?
- Are data recovery provisions in place? What are they?
- Are risk management techniques used to inform the strategy?
- What checks are in place to ensure consistency across archival copies?
- How is deterioration of storage media handled and monitored?

This Requirement deals with high-level arrangements in respect of continuity. Please refer also to R15 (Technical infrastructure) and R16 (Security) for details on specific arrangements for backup, physical and logical security, failover, and business continuity.

X. Preservation plan

Compliance Level:

R10. The repository assumes responsibility for long-term preservation and manages this function in a planned and documented way.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: The repository, data depositors, and Designated Community need to understand the level of responsibility undertaken for each deposited item in the repository. The repository must have the legal rights to undertake these responsibilities. Procedures must be documented and their completion assured.

For this Requirement, responses should include evidence related to the following questions:

- Is a preservation plan in place?
- Is the 'preservation level' for each item understood? How is this defined?
- Does the contract between depositor and repository provide for all actions necessary to meet the responsibilities?
- Is the transfer of custody and responsibility handover clear to the depositor and repository?
- Does the repository have the rights to copy, transform, and store the items, as well as provide access to them?
- Are actions relevant to preservation specified in documentation, including custody transfer, submission information standards, and archival information standards?
- Are there measures to ensure these actions are taken?

XI. Data quality

Compliance Level:

R11. The repository has appropriate expertise to address technical data and metadata quality and ensures that sufficient information is available for end users to make quality-related evaluations.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: Repositories must work in concert with depositors to ensure that there is enough available information about the data such that the Designated Community can assess the substantive quality of the data. Such quality assessment becomes increasingly relevant when the Designated Community is multidisciplinary, where researchers may not have the personal experience to make an evaluation of quality from the data alone. Repositories must also be able to evaluate the technical quality of data deposits in terms of the completeness and quality of the materials provided, and the quality of the metadata.

Data, or associated metadata, may have quality issues relevant to their research value, but this does not preclude their use in science if a user can make a well-informed decision on their suitability through provided documentation.

For this Requirement, please describe:

- The approach to data and metadata quality taken by the repository.
- \bullet Any automated assessment of metadata adherence to relevant schema.
- The ability of the Designated Community to comment on, and/or rate data and metadata.
- Whether citations to related works or links to citation indices are provided.

Provisions for data quality are also ensured by other Requirements. Specifically, please refer to R8 (Appraisal), R12 (Workflows), and R7 (Data integrity and authenticity).

R12. Archiving takes place according to defined workflows from ingest to dissemination.
(Optional) Supporting documents. File Upload No file chosen
Guidance: To ensure the consistency of practices across datasets and services and to avoid ad hoc and reactive activities, archival workflows should be documented, and provisions for managed change should be in place. The procedure should be adapted to the repository mission and activities, and procedural documentation for archiving data should be clear.
For this Requirement, responses should include evidence related to the following:
Workflows/business process descriptions.
Clear communication to depositors and users about handling of data.
• Levels of security and impact on workflows (guarding privacy of subjects, etc.).
Qualitative and quantitative checking of outputs.
Appraisal and selection of data.
• Approaches towards data that do not fall within the mission/collection profile.
• The types of data managed and any impact on workflow.
• Decision handling within the workflows (e.g., archival data transformation).
Change management of workflows.
This Requirement confirms that all workflows are documented. Evidence of such workflows may have been provided as part of other task-specific Requirements, such as for ingest in R8 (Appraisal), storage procedures in R9 (Documented storage procedures), security arrangements in R16 (Security), and confidentiality in R4 (Confidentiality/Ethics).
XIII. Data discovery and identification
Compliance Level:
R13. The repository enables users to discover the data and refer to them in a persistent way through proper citation.

XII. Workflows
Compliance Level:

Guidance: Effective data discovery is key to data sharing, and most repositories provide searchable catalogues describing their holdings such that potential users can evaluate data to see if they meet their needs. Once discovered, datasets should be referenceable through full citations to the data, including persistent identifiers to ensure that data can be accessed into the future. Citations also provide credit and attribution to individuals who contributed to the creation of the dataset.

For this Requirement, responses should include evidence related to the following questions:

(Optional) Supporting documents.

File Upload No file chosen

- Does the repository offer search facilities?
- Does the repository maintain a searchable metadata catalogue to appropriate (internationally agreed) standards?
- Does the repository facilitate machine harvesting of the metadata?
- Is the repository included in one or more disciplinary or generic registries of resources?
- Does the repository offer recommended data citations?
- Does the repository offer persistent identifiers?

XIV. Data reuse

Compliance Level:

R14. The repository enables reuse of the data over time, ensuring that appropriate metadata are available to support the understanding and use of the data.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: Repositories must ensure that data can be understood and used effectively into the future despite changes in technology. This Requirement evaluates the measures taken to ensure that data are reusable.

For this Requirement, responses should include evidence related to the following questions:

- Which metadata are required by the repository when the data are provided (e.g., Dublin Core or content-oriented metadata)?
- Are data provided in formats used by the Designated Community? Which formats?
- Are measures taken to account for the possible evolution of formats?
- Are plans related to future migrations in place?
- How does the repository ensure understandability of the data?

The concept of 'reuse' is critical in environments in which secondary analysis outputs are redeposited into a repository alongside primary data, since the provenance chain and associated rights issues may then become increasingly complicated.

Reuse is dependent on the applicable licenses covered in R2 (Licenses).

TECHNOLOGY

XV. Technical infrastructure

Compliance Level:

R15. The repository 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.

(Optional) Supporting documents.

Guidance: Repositories need to operate on reliable and stable core infrastructures that maximizes service availability. Furthermore, hardware and software used must be relevant and appropriate to the Designated Community and to the functions that a repository fulfils. Standards such as the OAIS reference model specify the functions of a repository in meeting user needs.

For this Requirement, responses should include evidence related to the following questions:

- What standards does the repository use for reference? Are these international and/or community standards (e.g., Spatial Data Infrastructure (SDI) standards, OGC, W3C, or ISO 19115)? How often are these reviewed?
- How are the standards implemented? Are there any significant deviations from the standard? If so, please explain.
- Does the repository have a plan for infrastructure development? If so, what is it?
- Is a software inventory maintained and is system documentation available?
- Is community-supported software in use? Please describe.
- For real-time to near real-time data streams, is the provision of around-the-clock connectivity to public and private networks at a bandwidth that is sufficient to meet the global and/or regional responsibilities of the repository?

XVI. Security

Compliance Level:

R16. The technical infrastructure of the repository provides for protection of the facility and its data, products, services, and users.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: The repository should analyze potential threats, assess risks, and create a consistent security system. It should describe damage scenarios based on malicious actions, human error, or technical failure that pose a threat to the repository and its data, products, services, and users. It should measure the likelihood and impact of such scenarios, decide which risk levels are acceptable, and determine which measures should be taken to counter the threats to the repository and its Designated Community. This should be an ongoing process.

For this Requirement, please describe:

- Procedures and arrangements in place to provide swift recovery or backup of essential services in the event of an outage.
- Your IT security system, disaster plan, and business continuity plan; employees with roles related to security (e.g., security officers); and any risk analysis tools (e.g., DRAMBORA) you use.

This Requirement describes some of the aspects generally covered by others—for example, R12 (Workflows)—and is supplementary to R9 (Documented storage procedures).

WDS MEMBERSHIP

The following WDS membership requirements must be satisfied to be accredited as a WDS Regular Member. They are an embodiment of the articles in the WDS Bylaws approved by the WDS-SC at its 15th Meeting (September 2017) and in consultation with all WDS Member Organizations.

WDS I. Letter of Agreement

M1. The repository will sign a Letter of Agreement, Intent to Cooperate, or similar with ICSU. We will sign an agreement with ICSU

Guidance: The WDS Constitution states that an organization must agree to a model Consortium Agreement, Letter of Agreement, Intent to Cooperate, or other comparable agreement with ICSU. This will describe the commitment of the organization to the goals of ICSU-WDS. A template agreement can be found at: https://www.icsu-wds.org/community/membership/wds-template-agreement

WDS II. Members' Forum

M2. Repository representatives will attend WDS meetings every two years.

Our representatives will attend WDS biennial meetings

If you will not be able to attend meetings, please explain briefly why.

Guidance: To be fully integrated in ICSU-WDS, an organization must engage with other WDS Members, exchange expertise, review developments, and so on. The biennial WDS Members' Forum is one important mechanism for this Member interaction. An organization's agreement to join the Members' Forum also indicates that they have the requisite resources and funds available to support their participation.

WDS III. Conducting Reviews

M3. Repository representatives will perform application reviews as requested.

We agree to conduct the reviews of up to two WDS certifications per year

Guidance: WDS Regular Members may be invited by the WDS-SC to conduct a maximum of two membership certification reviews per year as a contribution to the WDS community effort. Applications for review will be selected according to an organization's scientific domains and training materials will be provided. A Member Organization will agree to ensure confidentiality and state conflicts of interest when conducting reviews, and it may nominate specific experts or review requests may be sent through the WDS Member Representative.

WDS IV. Data Sharing Principles

M4. The repository provides full, open, timely, nondiscriminatory, and unrestricted access to data, metadata, products, and information, at no cost or at the cost of dissemination.

Our repository and supplied services comply with the WDS Data Sharing Principles

If you comply with these Principles, please supply a reference to a supporting document or web address. If you will be unable to comply with the Data Sharing Principles, please explain briefly why.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: A WDS Member must provide data in accordance with the WDS Data Sharing Principles, which state

- Data, metadata, products, and information should be fully and openly shared, subject to national or international jurisdictional laws and policies, including respecting appropriate extant restrictions, and in accordance with international standards of ethical research conduct.
- Data, metadata, products, and information produced for research, education, and public-domain use will be made available with minimum time delay and free of charge, or for no more than the cost of dissemination, which may be waived for lower-income user communities to support equity in access.

- All who produce, share, and use data and metadata are stewards of those data, and have responsibility for ensuring that the authenticity, quality, and integrity of the data are preserved, and respect for the data source is maintained by ensuring privacy where appropriate, and encouraging appropriate citation of the dataset and original work and acknowledgement of the data repository.
- Data should be labelled 'sensitive' or 'restricted' only with appropriate justification and following clearly defined protocols, and should in any event be made available for use on the least restrictive basis possible.

WDS V. Periodic Assessment

M5. The repository has defined processes for responding to changing scientific requirements and to evolving technologies.

Please describe any formal, periodic assessment the organization undergoes to ensure its responsiveness to new scientific and technological developments.

(Optional) Supporting documents.

File Upload No file chosen

Guidance: A WDS Member must provide evidence that it has processes in place to appropriately and swiftly respond to scientific and technological advancements. For example, this might be through a strategy document or through documentation detailing datasets, products, or services. These documents should describe the organization's commitments and include a forward look.

A regular review of the organization should be conducted to ensure that its technologies are up-to-date and relevant to its target scientific domains and user communities. Such a formal, periodic review should involve people external to the organization and address both technical and scientific aspects. A WDS Member is furthermore required to provide the WDS-SC a Report every three years, following a template that covers planned responses to new scientific and technological developments. A Member's WDS certification will also be reviewed by the WDS-SC approximately every three years through the approved process.

APPLICANT FEEDBACK

Comments/feedback

These requirements are not seen as final, and we value your input to improve the core certification procedure. To this end, please leave any comments you wish to make on both the quality of the Catalogue and its relevance to your organization, as well as any other related thoughts.