

Table S1. FAIR levels of assessment

FINDABLE	
FsF-F1-01D	Data are assigned a globally unique identifier.
FsF-F1-01D-1	The identifier is resolvable and follows a defined unique identifier syntax (IRI, URL)
FsF-F1-01D-2	Identifier is not resolvable but follows an UUID or HASH type syntax
FsF-F1-02D	Data are assigned a persistent identifier.
FsF-F1-02D-1	The identifier follows a defined persistent identifier syntax
FsF-F1-02D-2	The persistent identifier is resolvable
FsF-F2-01M	Metadata includes descriptive core elements (creator, title, data identifier, publisher, publication date, summary, and keywords) to support data findability.
FsF-F2-01M-1	Metadata has been made available via common web methods
FsF-F2-01M-2	The core data citation metadata is available
FsF-F2-01M-3	Core descriptive metadata is available
FsF-F3-01M	Metadata include the identifier of the data described.
FsF-F3-01M-1	Metadata contain data-content related information (file name, size, type)
FsF-F3-01M-2	Metadata contain a PID or URL that indicates the location of the downloadable data content
FsF-F4-01M	Metadata are offered in a way that they can be retrieved programmatically.
FsF-F4-01M-1	Metadata are given in a way that major search engines can ingest it in their catalogues (JSON-LD, Dublin Core, RDFa)
FsF-F4-01M-2	Metadata are registered in major research data registries (DataCite)
ACCESSIBLE	
FsF-A1-01M	The metadata contains the access level and access conditions of the data.
FsF-A1-01M-1	Information about access restrictions or rights can be identified in metadata
FsF-A1-01M-2	Data access information is machine readable

FsF-A1-01M-3	Data access information is indicated by (not machine readable) standard terms
FsF-A1-03D	Data are accessible through a standardised communication protocol.
FsF-A1-03D-1	Metadata includes a resolvable link to data based on standardised web communication protocols.
FsF-A1-02M	Metadata is accessible through a standardised communication protocol.
FsF-A1-02M-1	The landing page link is based on standardised web communication protocols.
INTEROPERABLE	
FsF-I1-01M	Metadata are represented using a formal knowledge representation language.
FsF-I1-01M-1	Parsable structured metadata (JSON-LD, RDFa) are embedded in the landing page XHTML/HTML code
FsF-I1-01M-2	Parsable graph data (RDF, JSON-LD) is accessible through content negotiation, typed links or sparql endpoint
FsF-I2-01M	Metadata uses semantic resources
FsF-I2-01M-1	Vocabulary namespace URIs can be identified in metadata
FsF-I2-01M-2	Namespaces of known semantic resources can be identified in metadata
FsF-I2-01M	Metadata uses semantic resources
FsF-I3-01M-1	Related resources are explicitly mentioned in metadata
FsF-I3-01M-2	Related resources are indicated by machine readable links or identifiers
REUSABLE	
FsF-R1-01MD	Metadata specifies the content of the data.
FsF-R1-01MD-1	Minimal information on available data content is given in metadata
FsF-R1-01MD-2	Verifiable data descriptors (file info, measured variables, or observation types) are specified in metadata
FsF-R1-01MD-3	The data content matches the file type and size specified in metadata
FsF-R1-01MD-4	Data content matches, measured variables, or observation types specified in metadata

FsF-R1.1-01M	Metadata includes licence information under which data can be reused.
FsF-R1.1-01M-1	The licence information is given in an appropriate metadata element
FsF-R1.1-01M-2	Recognised licence is valid (community specific or registered at SPDX)
FsF-R1.2-01M	Metadata includes provenance information on data creation or generation.
FsF-R1.2-01M-1	Metadata contain elements that hold provenance information and can be mapped to PROV
FsF-R1.2-01M-2	The metadata contains provenance information using formal provenance ontologies (PROV-O)
FsF-R1.3-01M	Metadata follow a standard recommended by the data-target research community.
FsF-R1.3-01M-1	Community-specific metadata standard is detected using namespaces or schemas found in the provided metadata or metadata services outputs
FsF-R1.3-01M-2	The community-specific metadata standard is listed in the re3data record of the responsible repository
FsF-R1.3-01M-3	The multidisciplinary community-endorsed metadata standard (RDA Metadata Standards Catalogue, Fair Sharing) is listed in the re3data record or detected by namespace
FsF-R1.3-02D	The data are available in a file format recommended by the target research community.
FsF-R1.3-02D-1	The format of a data file given in the metadata is listed in the long-term file format, open file formats, or scientific file formats controlled list
a	The format of the data file is an open format
b	The format of the data file is a long term format
c	The format of the data file is a scientific format

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