

FAIR self assessment for project: Indigenous Data Network National Survey: Indigenous-Controlled Research Organizations

Completed 8/10/2019

Questions for each FAIR component ↓		Answer options: Increasingly FAIR -->				
FINDABLE						
Q1	Does the dataset have any identifiers assigned?	No identifier	Local identifier	Web address (URL)	Globally unique, citable and persistent identifier (e.g. DOI, PURL, or Handle)	
A1	Start of project	<i>Two of the six organizations surveyed currently use a system of local identifiers, but these are not consistently applied to all data assets maintained by each organization.</i>				
	End of project	<i>As above.</i>				
	Two years time				<i>An ongoing objective of negotiations with collaborating organizations is to create consistently structured local identifiers and persistent global identifiers for a nationally integrated, interoperable datasets.</i>	
Q2	Is the identifier included in all metadata records or metadata files describing the data?	No	Yes			
A2	Start of project	<i>Among datasets maintained by two of the six organizations surveyed, the identifier is used in all relevant metadata.</i>				
	End of project	<i>As above.</i>				
	Two years time				<i>It is intended that in two years's time the metadata schema currently used by two of the six surveyed organizations will be extended to other collaborating organizations, using consistent, persistent, universally applicable identifiers.</i>	
Q3	Is the data described by a metadata record?	The data is not described	Brief title and description	Brief title and description, and multiple other fields filled out, albeit briefly.	Comprehensively (a min metadata template will be provided) using a formal machine-readable metadata schema.	
A3	Start of project	<i>Among datasets maintained by two of the six organizations surveyed, data is described by a metadata record.</i>				
	End of project	<i>As above.</i>				
	Two years time				<i>It is intended that in two years' time the metadata schema currently used by two of the six surveyed organizations will be extended to other collaborating organizations.</i>	

Q4	What type of repository or registry is the metadata record in?	The data is not described in any registry or repository	Local institutional repository	Domain-specific repository	Generalist public repository	Data is in one place but discoverable through several places (i.e. other registries, RDA, Google Data Search) Mutually exclusive: Data can be in multiple locations and (all) discoverable via several registries. Sometimes it's good to be in multiple places, as long as it's done right. This answer is also not in contrast to the other options.
A4	Start of project		<i>For two of the six organizations surveyed, metadata is stored as part of a the same RDBMS that stores the data.</i>			
	End of project		<i>As above.</i>			
	Two years time			<i>It is intended that in two years' time each collaborating organization will maintain a domain-specific registry over which it exercises autonomous control, but which can be appended to other registries using the consistent identifier and metadata schemas referred to above.</i>		
ACCESSIBLE						
Q5	How accessible is the data? Note: The access method (s) must be explicitly stated in the metadata record, e.g. if any authentication is needed, or there are any restrictions to access.	No metadata record	Access to metadata only	Unspecified access conditions e.g. "contact the data custodian to discuss access"	Embargoed access after a specified date; or A deidentified version of the data is publicly accessible	Fully accessible public, or to persons who meet and follow explicitly stated conditions and processes, e.g. ethics approval for sensitive data
A5	Start of project	<i>No data or metadata is currently accessible outside of the organizations surveyed.</i>				
	End of project	<i>As above.</i>				
	Two years time					
Q6	Is the data available online without requiring specialised protocols or tools once access has been approved?	No access to data	By individual arrangement	File download from online location	Non-standard web service (e.g. OpenAPI/Swagger/informal API)	Standard web service API (e.g. OGC)
A6	Start of project	<i>No data or metadata is currently accessible outside of the organizations surveyed.</i>				
	End of project	<i>As above.</i>				
	Two years time			<i>It is intended that in two years' time, each collaborating organization will operate a semi-automated publicly accessible portal though researchers can apply to access metadata registries. Following searches of those registries, applications can be made for access to specific data.</i>		
Q7	Does the repository/registry agree to maintain the persistence of the metadata record, even if the data product is no longer available?	No (or not applicable, if no metadata record exists)	Unsure	Yes		
A7	Start of project	<i>Out of scope.</i>				
	End of project	<i>Out of scope.</i>				

	Two years time		<i>Commitment of maintenance of persistent metadata records is a feature of continuing negotiations with prospective collaborating organizations.</i>			
INTEROPERABLE						
Q8	Are the data available in (an) open (file) format(s)?	Data are mostly available only in a proprietary format	Data are available in an open format	Data are available in an open, documented, widely-used standard format (i.e. NetCDF, CSV, JSON, XML, etc)		
A8	Start of project	<i>For two of the six organizations surveyed, metadata is available in a range of open formats.</i>				
	End of project	<i>As above.</i>				
	Two years time			<i>It is intended that in two years' time, all data will be available for exchange among collaborating organizations in at least one open format.</i>		
Q9	Are the data machine readable?	The data are unstructured	The data are structured and machine-readable (i.e. csv, JSON, XML, RDF, database files, etc)			
A9	Start of project		<i>For two of the six organizations surveyed, data are structured and machine readable in a range of formats.</i>			
	End of project		<i>As above.</i>			
	Two years time			<i>It is intended that in two years' time all data maintained by collaborating organizations will be consistently structured and machine-readable using common software platforms.</i>		
Q10	What best describes the types of vocabularies/ontologies/tagging schemas used to define the data elements?	Data elements are not described (i.e. fields or objects are labelled with codes or not at all)	Data elements are described (so that a human user can correctly interpret the data), but no standards have been used in the description	Recognised standards have been used in the description of data elements, but no published vocabularies with resolvable URIs are used	Published vocabularies using resolvable identifiers linking to explanations are used, so that the data can be read and understood by machines as well as humans.	Published vocabularies using persistent resolvable identifiers linking to explanations are used, so that the data can be read and understood by machines as well as humans.
A10	Start of project		<i>For two of the six organizations surveyed, data elements have been described and standardized, however some of the standards implemented are recognisable outside each organization.</i>			
	End of project		<i>As above.</i>			
	Two years time				<i>It is intended that in two years' time identifiers will be resolvable within and between all collaborating organizations, and that corresponding vocabularies will be published.</i>	
Q11	How is the relationship to other data and resources (e.g. related datasets, services, publications, etc) described in the metadata, to provide context around the data?	There are no links to other metadata or data	The metadata record includes URI links to related metadata, data and definitions	Qualified links to other resources are recorded in a machine readable format, e.g. a linked data format such as RDF		
A11	Start of project		<i>For two of the six organizations surveyed, all metadata records include URIs for metadata and data, together with corresponding definitions. However not all URIs are resolvable outside these organizations.</i>			
	End of project		<i>As above.</i>			

	Two years time			<i>It is intended that in two years' time all collaborating organizations will be using consistent, machine-readable URIs for all metadata, data and definitions.</i>		
	REUSABLE					
Q12	Which of the following best describes the license (usage rights) attached to the data?	No license is applied	Non-standard license applied, without a license deed URL encoded in a machine-readable format (e.g. RDF/XML) in the metadata record	Non-standard license applied, WITH the license deed URL encoded in a machine-readable format (e.g. RDF/XML) in the metadata record	Standard license applied (e.g. Creative Commons), without a license deed URL encoded in a machine-readable format (e.g. RDF/XML) in the metadata record	Standard license applied (e.g. Creative Commons), WITH the license deed URL encoded in a machine-readable format (e.g. RDF/XML) in the metadata record
A12	Start of project	<i>Usage rights are currently out of scope for all surveyed organizations.</i>				
	End of project	<i>As above.</i>				
	Two years time	<i>Although there is scope for usage rights to data held by collaborating organizations to be developed eventually, it is unlikely that this will occur in two years' time.</i>				
Q13	How much provenance information has been captured to facilitate data reuse? i.e. project objectives, data generation/collection (including from external sources) and processing workflows.	No provenance information is recorded	Partially recorded	Comprehensively recorded in a text format (i.e. TXT or PDF)	Comprehensively recorded in a machine readable format (i.e. in metadata record's schema or PROV, or in RDF, JSON, NetCDF, XML, etc)	
A13	Start of project		<i>Provenance information has been captured for most data assets across all organizations surveyed, however it is not consistently reliable.</i>			
	End of project		<i>As above.</i>			
	Two years time				<i>It is intended that in two years' time, a consistent, machine-readable provenance recording schema will be in use among all collaborating organizations.</i>	