

Metadata Specification to support Innovation Gateway Minimum Viable Product (MVP)

November 2019

## **Purpose**

The following document has been developed to define the metadata needed for the Innovation Gateway MVP stage of the onboarding process.

The specification is initially focused on Summary and Business level metadata (see proposed metadata levels in principles below)

The metadata specification has been created and generated from:

 $\underline{https://hdronboard.metadata.works/\#/122894/dataClass/123142/main?path=122894-all-123142/main?path=122894/main?path=122894/main.path=12289/main.path=12289/main.path=12289/main.path=12289/main.path=12$ 

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#### Metadata Specification to support Innovation Gateway Minimum Viable Product (MVP)

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### Introduction

As part of the development of the Innovation Gateway Minimum Viable Product (MVP), Health Data Research UK (HDR UK) must complete an initial onboarding activity to collect high level information that describes the datasets that are available for research and innovation across members of the UK Health Data Research Alliance and the seven health data research hubs. This information must be human and machine-readable allowing researchers to understand the data that is available and allowing the Gateway to index the information to return relevant search results.

HDR UK's initial requirements have been used as a baseline specification and iterated based on feedback and suggestions from IBM (supporting MVP portal), Oxford University (providing the Metadata catalogue) and HDR UK. This is part of an MVP. We have tried to provide coverage for organisation who are already collecting metadata and would like to provide it to the gateway, but we expect as the project progresses there will be further iterations of the specification.

The following principles have governed the work and decisions made:

- Specification that will be distributed in first iteration will be "good enough MVP" rather than perfect
- Metadata should be based on a user need and a user story
- Metadata should use standard terminologies whenever possible and 2.1. DCAT is the de-Facto standard and links to schema.org should be provided where available
  - o If an identified need does not have an equivalent DCAT entry, another standard should be selected, including ONS standards
  - o Only if no standard can be found should we create a new metadata entry
- Naming convention: Metadata "titles" will be lowercase, underscore separated (note that in the human readable specification we are using Capitalised for ease of reading)
- Prioritisation of Metadata has been based on Impact vs Effort (effort needs to consider potential for automation in the longer-term vs manual in nearer term) however, this will be easier to quantify as the project progresses

The following different levels of metadata quality have been defined:

- Summary Metadata (Mandatory)
- Business Metadata
  - o Required
  - Recommended
- Technical Metadata (variable level metadata i.e. data elements, types etc.)
  - Required
  - Recommended
- Enhanced Metadata (not in scope for initial on boarding)
  - Profiling
  - Quality
  - o Other

As the project progresses metadata will be categorised accordingly based on use need.

# **Summary metadata**

As A [user]

I Want To

So That

Researcher

know the name of the dataset

I can identify and find it

Summary metadata must be completed for  $\underline{\text{data custodians}}$  onboarding metadata into the Innovation Gateway MVP.

Identifier	Completion Guidance: Please provide a local identifier used to identify the dataset (if available).  Note: if a DOI is available this can be provided in the Attribution section.  Definition: A unique identifier of the item.  Note: The identifier might be used as part of the URI of the item, but xs:string still having it represented explicitly is useful.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dc:identifier  Range: rdfs:Literal  Source: dct:identifierdct:resource_identifier	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher	
I Want To	know the name of identifier for the dataset	
So That	I can identify, refer to it	
<u>Title</u>	Completion Guidance: This is the name of the dataset.  Definition: A name given to the item.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dc:title  Range: rdfs:Literal  Source: dct:title  See also: schema.org Dataset/name	Min Occurs: 1 Max Occurs: 1

Abstract	Completion Guidance: Provide a short summary of the dataset (limited to 256 characters)  Definition: A summary of the resource. xs:string				
	Vocabulary: DCMI Metadata Terms	// min 5	Min Occurs: 1		
	RDF Property: rdf-syntax-ns#Property	// max 256	Max Occurs: 1		
	Refines: dc:description	x ==~ /^.{5,256}\$/			
	Source: dc:abstract				
	See also: schema.org Dataset/abstract				
As A [user]	Researcher				
I Want To	read a plain English summary of the dataset				
So That	I can decide if I want to find out more				

<u>Publisher</u>	Completion Notes: This is the organisation that is the data custodian. They are responsible for the data access request process, as well as publishing and maintaining the metadata  Definition: The entity responsible for making the item available.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dc:publisher  Source: dct:publisher  See also: schema.org Dataset/publisher	:string	Min Occurs: 1 Max Occurs: 1
As A [user]	Researcher		
I Want To	know the publisher		
So That	I can understand the context of the dataset		
Contact Point	Completion Guidance: A URL with the information for and/or the email address of, the person or role within the data custodian organisation, who is responsible for the data access process and metadata maintenance  Definition: Relevant contact information for the catalogued resource. Use of vCard is recommended [VCARD-RDF].  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dct:contactPoint  Range: vcard:Kind  Source: dct:contact point	tring	Min Occurs: 1 Max Occurs: 1
As A [user]	Researcher		
I Want To	contact person		
So That	I can understand the datasets and request access		
Access Rights	Completion Guidance: Text or link to website/documentation where data access request process and/or guidance is provided  Definition: Information about who can access the resource or an indication of its security status.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dct:accessRights  Range: dct:RightsStatement  Usage note: Access Rights MAY include information regarding access or restrictions based on privacy, security, or other policies.  Source: access rights  See also: schema.org Dataset/conditionsOfAccess	tring	Min Occurs: 1 Max Occurs: *
As A [user]	Researcher		
I Want To	know what I can do with the data		
So That	I have a legal and ethical basis for analysing it in my research		

<u>Group</u>	of another by means of usage, start, end, generation, invalidation, xs:string	Occurs: 0
As A [user]	Researcher	
I Want To	know whether the dataset is part of a wider group	
So That	I can find other datasets of the group	

## **Business Metadata**

Business metadata provides context for datasets that improve their discoverability through the Innovation Gateway. HDR UK has two categories of business metadata they ask data custodians to provide.

- **Required**: this information is required as part of the onboarding process and is key to making your data more discoverable for researchers
- **Recommended**: this information is recommended for the onboarding process as it gives researchers key contextual information and will improve the dataset rank

#### Required

This information is required as part of the onboarding process and is key to making your data more discoverable for researchers

<b>Description</b>	Completion Guidance: A free-text account of the data (limited to 50000 characters) and/or a resolvable URL of a document (webpage, pdf, word) that describing the dataset. This provides detailed context about the dataset.  Definition: A free-text account of the record.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dc:description  Range: rdfs:Literal  Source: dcat:record description  See schema.org Datasset:description	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher	
7.57.[6561]	Tresear office	
I Want To	know the description	
So That	I can understand information about the dataset	

	Completion Guidance: Date of the latest release of the dataset. If this is a regular release i.e. quarterly, please complete this alongside periodicity. Periodicity will be used to determine when the next update is expected. Definition: Date of formal issuance (e.g., publication) of the distribution.	
Release Date	<b>Definition</b> : Date of formal issuance (e.g., publication) of the distribution, encoded using the relevant ISO 8601 Date and Time compliant string [DATETIME] and typed using the appropriate XML Schema datatype [XMLSCHEMA11-2] (xsd:gYear, xsd:gYearMonth, xsd:date, or xsd:dateTime).	Min Occurs: 0 Max Occurs: 1
	Usage note: This property SHOULD be set using the first known date of issuance.	
	Vocabulary: Data Catalog Vocabulary (DCAT)	
	RDF Property: dc:issued	
	Range: rdfs:Literal	
	Source: dcat:distribution_release_date	
	See schema.org <u>Dataset/datePublished</u>	
As A [user]	Researcher	
I Want To	publication date	

So That	I know how recent and relevant the dataset is	
Access Request Cost	Completion Guidance: Please provide a free text description of the cost, or an indication of the range/calculation of costs, for processing a data access request.  Definition: Indication of cost (in GBP) for processing each data access request by the data custodian.  Source: Schema.org Offer:price	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher	
I Want To	know how much it will cost to process my data access request	
So That	So that I can budget and decide accordingly	
Access Request Duration	Completion Guidance: Please provide an indicative value and/or estimate of the typical processing time.  Definition: Indication of the typical duration of a data access xs:duration request.  Source: Schema.org Offer:deliveryLeadTime	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher	
I Want To	know how much time it will take to process my data access request	
So That	I can plan and decide accordingly	
<u>Data</u> <u>Controller</u>	Data Controller means a person who (either alone or jointly or in common with other persons) determines the purposes for which and the way any Data Subject data, specifically personal data or are to be processed.  Please complete if the data custodian is not the Data Controller. xs:string  Source: ICO Key Terms: Controllers and Processors, Article 4.7 of GDPR  Vocabulary: Data Privacy Vocabulary  Source: dpv:DataController	Min Occurs: 0 Max Occurs: 1
As A [user]	Processor	
I Want To	know who has ultimately responsibility for the dataset (if not the publisher)	
So That	I can continue to process their data	
<u>Data</u> <u>Processor</u>	A Data Processor, in relation to any Data Subject data, specifically personal data, means any person (other than an employee of the data controller) who processes the data on behalf of the data controller.  Please complete if the data custodian is the Data Processor.  Source: ICO Key Terms: Controllers and Processors, Article 4.7 of GDPR  Vocabulary: Data Privacy Vocabulary	Min Occurs: 0 Max Occurs: *

	Source: dpv:DataProcessor	
As A [user]	Administrator	
I Want To	know who the data processor is	
So That	I that can understand the legal basis for processing	
<u>License</u>	Definition: A legal document under which the distribution is made available.  Usage note: Information about licenses and rights SHOULD be provided on the level of Distribution. Information about licenses and rights MAY be provided for a Dataset in addition to but not instead of the information provided for the Distributions of that Dataset. Providing license or rights information for a Dataset that is different from information provided for a Distribution of that Dataset xs:string SHOULD be avoided as this can create legal conflicts.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dct:license  Range: dct:LicenseDocument  Source: dcat:distribution license  Source: Dataset/license	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher	
I Want To	know the license that applies to the data	
So That	I know the legal information that describes how the distribution is made available	ole
Derived Datasets	Completion Guidance: indicate if derived datasets are available and type of derivation available  Definition: A derivation is a transformation of an entity into another, an update of an entity resulting in a new one, or the construction of a new entity based on a pre-existing entity. If this is Entity :e, then it can qualify how it was derived using prov:qualifiedDerivation [a prov:Derivation; prov:entity :e; :foo :bar ].  Vocabulary: PROV-O: The PROV Ontology  RDF Property: prov:qualifiedDerivation  Sub-property of: prov:qualifiedInfluence  Domain: prov:Entity  Range: prov:Derivation  PROV-DM term: prov:wasDerivedFrom  See also: Schema.org Dataset/isBasedOn	Min Occurs: 0 Max Occurs: *
As A [user]	Researcher	
I Want To	Know if there are any derivations	
So That	I can reuse pre-processed information	

<u>Linked</u> <u>Dataset</u>	Completion Guidance: if applicable, describe other datasets that have previously been linked to this dataset and their availability. If no datasets have currently been linked, please indicate if there is the possibility to link the datasets as part of the data access request process.  Definition: Link to a description of a relationship with another resource.  Usage note: Used to link to another resource where the nature of the relationship is known but does not match one of the standard [DCTERMS] properties (dct:hasPart, dct:isPartOf, dct:conformsTo, dct:isFormatOf, dct:hasFormat, dct:isVersionOf, dct:hasVersion, dct:replaces, dct:isReplacedBy, dct:references, dct:isReferencedBy, xs:string dct:requires, dct:isRequiredBy) or [PROV-O] properties (prov:wasDerivedFrom, prov:wasRevisionOf, prov:badPrimarySource, prov:alternateOf, prov:specializationOf).  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dcat:qualifiedRelation  Sub-property of: prov:qualifiedInfluence  Domain: dcat:Resource  Range: dcat:Class:Relationship  Source: dcat:resource qualified relation	ccurs: 0 ccurs: *
As A [user]	Researcher	
I Want To	know if there are any datasets that have already been linked	
So That	I can use more pre-processed data in my research	

#### Recommended

This information is recommended for the onboarding process as it gives researchers key contextual information and will improve the dataset rank:

#### **Coverage and detail**

Geographic coverage	Definition: The geographical area covered by the dataset.  Usage note: The spatial coverage of a dataset may be encoded as an instance of dct:Location or may be indicated using a URI reference (link) to a resource describing a location. It is recommended that links are to entries in a well-maintained gazetteer such as Geonames.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dct:spatial  Range: dct:Location (A spatial region or named place)  Source: dcat:dataset spatial  See also: schema.org Dataset/spatialCoverage	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher	
I Want To	know the geographic are covered by the dataset	
So That	I can contextualise my research	

Periodicity	Completion guidance: please indicate the frequency of publishing and/or the rate that the whole dataset is updated.  Definition: The frequency at which dataset is published.  Usage note: The value of dct:accrualPeriodicity gives the rate at which the dataset-as-a-whole is updated. This may be complemented by dct:temporalResolution to give the time between collected data points in a time series.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dct:accrualPeriodicity  Range: dct:Frequency (A rate at which something recurs)  Source: dcat:dataset frequency  See also: Schema.org Dataset/temporalCoverage
As A [user]	Researcher
I Want To	know the frequency of the dataset
So That	I know when the next release is

	Completion Cuidones. The end of the time newled that the detectable		
	<b>Completion Guidance:</b> The end of the time period that the dataset provides coverage for.	I	
	<b>Definition:</b> The end of the period.		
	Vocabulary: Data Catalog Vocabulary (DCAT)		
	RDF Property: dcat:endDate		
<u>Dataset</u>	Domain: dct:PeriodOfTime	xs:date	Min Occurs: 0
end date	Source: dcat:period_end_date	Xoraacc	Max Occurs: 1
	Range: <u>rdfs:Literal</u> encoded using the relevant ISO 8601 Date and Time compliant string [DATETIME] and typed using the appropriate XML Schema datatype [XMLSCHEMA11-2] ( <u>xsd:gYear, xsd:gYearMonth, xsd:date</u> , or <u>xsd:dateTime</u> ).  Source: Schema.org <u>Dataset/temporalCoverage</u>		
As A [user]	researcher		
I Want To	Know the time period for which data is available		
So That	I can use data that is within the time period I am interested in /kno	w there is en	ough history.

Dataset start date	Completion Guidance: The start of the time period that the dataset provides coverage for.  Definition: The start of the period.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dcat:startDate  Domain: dct:PeriodOfTime xs:date  Range: rdfs:Literal encoded using the relevant ISO 8601 Date and Time compliant string [DATETIME] and typed using the appropriate XML Schema datatype [XMLSCHEMA11-2]  Source: dcat:period start date  See also: Schema.org Dataset/temporalCoverage	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher	
I Want To	know about potential constraints on the data due to jurisdiction	
So That	I can tailor my request and research accordingly (or realise the data isn't suitable)	

<u>Jurisdiction</u>	Completion Guidance: Please use ISO country code for country under whose laws the data subjects' data is collected, processed and stored  Definition: A named and identified geospatial area with defined borders which is used for exercising the action of the Rule. An IRI MUST be used to represent this value.  Note: A code value for the area and source of the code must be xs:string presented in the Right Operand. Example: the [iso3166] Country Codes or the Getty Thesaurus of Geographic Names. Narrower terms: spatialCoordinates.  Vocabulary: ODRL Vocabulary & Expression  Source: odrl:spatial  See also: Schema.org Dataset/locationCreated	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher	
I Want To	know about potential constraints on the data due to jurisdiction	
So That	I can tailor my request and research accordingly (or realise the data isn't suitable)	
Population Type	Completion Guidance: Please provide a description(s) of the primary population type within the dataset i.e. participants in a study, or images with certain characteristics.  Usage Note: Used with Statistical Population, which is the number xs:string of instances of a certain population type that satisfy some set of constraints.  Source: Schema.org Population Type	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher	
I Want To	Know the population type within the data	
So That	I can understand whether data is suitable for my need	
Statistical Population	Completion Guidance: Please provide the primary population size within the dataset i.e. x number of participants in a study, or y number of images with certain characteristics.  Usage Note: Used with Population Type, which specifies the type of the population in the dataset. Statistical Population is the number of instances of a certain population type that satisfy some set of constraints.  Source: Schema.org Statistical Population	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher	
I Want To	Know the population size and type within data	
So That	I can understand whether data is suitable for my need	

Age Band	Harmonised Principle Age Band Groups 1 & 2 Source: gss.civilservice.gov.uk	xs:string	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher		

I Want To	Know the age range of individuals included within data
So That	I can understand whether data is suitable for my need

Physical Sample Availability	Availability of physical samples associated with the dataset as Yes/No. If Yes provide descriptions of the samples available and process for access.  Please provide this only if the dataset has any associated samples, otherwise omit this property.  Min Occurrence Max Occurrence Occurrence Max Occurrence Occurrence Max Occurrence Occurrence Max Occurrence Occurrence Occurrence Max Occurrence Oc	
As A [user]	Researcher	
I Want To	Know whether physical samples are available	
So That	I can understand if they can be requested for further research	

<u>Keywords</u>	Definition: A keyword or tag describing the resource.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dcat:keyword  Range: rdfs:Literal  Source: dcat:resource_keyword	xs:string	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher		
I Want To	know the keywords		
So That	I can navigate to it easily		

#### **Format and Structure**

	Completion Guidance: data standard such as OMOP or FHIR  Definition: An established standard to which the described resource conforms.  "A basis for comparison; a reference point against which other things can be evaluated." [DCTERMS])
Conforms To	Usage note: This property SHOULD be used to indicate the model, schema, ontology, view or profile that the catalogued resource content conforms to."  Min Occurs: 0  Max Occurs: 1
	Vocabulary: <u>Data Catalog Vocabulary (DCAT)</u>
	RDF Property: dct:conformsTo
	Range: dct:Standard
	Source: dcat:resource_conforms_to
As A [user]	Researcher
I Want To	Know which standards the data set conforms to
So That	I can use it to link to other datasets that use the same standards
	Completion Guidance: Standard terminology / Ontology /

**Definition**: The nature or genre of the resource. Usage note: The value SHOULD be taken from a well governed and broadly recognised controlled vocabulary, such as: DCMI Type vocabulary [DCTERMS] [ISO-19115-1] scope codes DataCite resource types [DataCite] PARSE. Insight content-types used by re3data.org [RE3DATA-SCHEMA] (see item 15 contentType) MARC intellectual resource types Some members of these controlled vocabularies are not strictly suitable for datasets or data services (e.g. DCMI Type Event, PhysicalObject; [ISO-19115-1] CollectionHardware, CollectionSession, Initiative, Sample, Repository), but might be used in the context of other kinds of catalogues defined in DCAT profiles or applications. Usage note: To describe the file format, physical medium, or dimensions of the resource, use the dct:format element. Vocabulary: <u>Data Catalog Vocabulary (DCAT)</u> RDF Property: dct:type Sub-property of: dc:type Range: rdfs:Class Source: dcat:resource type As A [user] Researcher I Want To Know which vocabulary does the dataset use or provide So That I can use it to link to other datasets that use the same vocabularies Definition: A language of the item. This refers to the natural language used for textual metadata (i.e. titles, descriptions, etc) of a catalogued resource (i.e. dataset or service) or the textual values of a dataset distribution. Resources defined by the Library of Congress (ISO 639-1, ISO 639-2) SHOULD be used. If an ISO 639-1 (two-letter) code is defined for language, then its corresponding IRI SHOULD be used; if no ISO 639-1 code is defined, then IRI corresponding to the ISO 639-2 (three-letter) code SHOULD be used. Usage note: Repeat this property if the resource is available in multiple languages. Usage

Language

dataset or service) override the value(s) provided for the catalogue xs:language if they conflict. Usage note: If representations of a dataset are available for each language separately, define an instance of dct:Distribution for each language and describe the specific language of each distribution using dct:language (i.e. the dataset will have multiple dct:language values and each distribution will have just one as the value of its dct:language property).

note: The value(s) provided for members of a catalogue (i.e.

Vocabulary: Data Catalog Vocabulary (DCAT)

RDF Property: <a href="https://dct:language">dct:LinguisticSystem</a>
Source: <a href="https://dct.language">dcat:language</a>

As A [user] Researcher

I Want To Know the language of the dataset

So That I understand the contents using that language

Min Occurs: 0

Max Occurs: 1

Format	Completion Guidance: If multiple formats are available please specify  Definition: The file format of the distribution.  Usage note: dct:mediaType SHOULD be used if the type of the distribution is defined by IANA [IANA-MEDIA-TYPES].  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dct:format  Range: dct:MediaTypeOrExtent  Source: dcat:format	xs:string	Min Occurs: 0 Max Occurs: 1
As A [user]	Researcher		
I Want To	know the format		
So That	I know how to analyse it		

File size	<b>Completion Guidance:</b> Typical extract file size range i.e. typically 1TB or 10GB or 100MB etc.		
	Usage note: The size in bytes can be approximated (as a decimal) when the precise size is not known.	xs:string	Min Occurs: 0 Max Occurs: 1
	Related Definition: The size of a distribution in bytes.		
	Vocabulary: Data Catalog Vocabulary (DCAT)		
	RDF Property: dct:byteSize		
	Domain: dct:Distribution		
	Range: rdfs:Literal typed as xsd:decimal		
	Source: <u>byteSize</u>		
	See also: <u>Dataset/contentSize</u>		
As A [user]	Researcher		
I Want To	know the file size		
So That	I can make provisions for storage, compute, transfer etc.		

#### **Attribution**

Creator	Completion Guidance: Please provide the text that you would like included as part of any citation that credits this dataset.  Definition: The entity responsible for producing the resource.  Usage note: Resources of type foaf:Agent are recommended as values for this property. See also: § 6.11 Class: Organization/Person  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dct:creator  Range: foaf:Agent  Source: dcat:resource creator  See also: Schema.org Dataset/resource creator
As A [user]	Researcher
I Want To	know the creator
So That	I can understand the context and for attribution

Citations	Completion Guidance: Please provide a list of known citations, if available  Definition: A related resource, such as a publication, that references, cites, or otherwise points to the catalogued resource.  Usage note: In relation to the use case of data citation, when the catalogued resource is a dataset, the dct:isReferencedBy property allows to relate the dataset to the resources (such as scholarly publications) that cite or point to the dataset. Multiple dct:isReferencedBy properties can be used to indicate the dataset xs:string has been referenced by multiple publications, or other resources.  Usage note: This property is used to associate a resource with the resource (of type dct:Resource) in question. For other relations to resources not covered with this property, the more generic property dct:qualifiedRelation can be used.  Vocabulary: Data Catalog Vocabulary (DCAT)  RDF Property: dct:isReferencedBy  Source: dcat:resource is referenced by
As A [user]	Researcher
I Want To	know how to cite the asset
So That	I can appropriately cite the resource in my research publications

DOI	Completion Guidance Please provide a Digital Object Identifier if available  Definition Digital Object Identifier. Provides an actionable, interoperable, persistent link Actionable – through use of identifier syntax and network resolution mechanism (Handle System®)  Persistent – through combination of supporting improved handle infrastructure (registry database, proxy support, etc) and social infrastructure (obligations by Registration Agencies) Interoperable – through use of a data model providing semantic interoperability and grouping mechanisms.  Vocabulary: DOI Data Dictionary  Source: DOI
As A [user]	Researcher
I Want To	know the persistent link
So That	I can cite and discover the asset

# **Technical Metadata**

In the phase 1 we will ask sites to provide a data dictionary of technical metadata that includes the following information:

Table Name	Name of the table in the dataset. Use a fully qualified name if appropriate.		Min Occurs: 1 Max Occurs: 1
Table Description	Description of the table in the dataset.	xs:string	Min Occurs: 1 Max Occurs: 1
Column Name	Name of the column in the table dataset.	xs:string	Min Occurs: 1 Max Occurs: 1
Column Description	Description of the column in the table dataset.	xs:string	Min Occurs: 1 Max Occurs: 1
Data Type	Type of data contained in the column.	xs:string	Min Occurs: 1 Max Occurs: 1
Sensitive	Completion guidance: Please indicate (True / False) whether the information must be treated as sensitive and may need additional constraints / removal / anonymisation / masking through the data access request process.  Definition: An ODRL conformant policy expressing the rights associated with the resource.  Usage note: Information about rights expressed as an ODRL policy [ODRL-MODEL] using the ODRL vocabulary [ODRL-VOCAB] MAY be provided for the resource.  Vocabulary: ODRL Vocabulary & Expression  RDF Property: odrl:hasPolicy  Range: odrl:Policy  See also guidance at § 8 License and rights statements, § 6.4.19  Property: license, § 6.4.1 Property: access rights, § 6.4.20  Property: rights	Max Occurs: 1 Min Occurs: 1	