

# A Collection of Crosswalks from Fifteen Research Data Schemas to Schema.org



RDA Supporting Output

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**Version:** 1.0

**Abstract:** The RDA Research Metadata Schemas Working Group has collected and aligned crosswalks from 15 source research metadata schemas to Schema.org. The source schemas include discipline agnostic schemas Dublin Core, Data Catalogue Vocabulary (DCAT), Data Catalogue Vocabulary - Application Profile (DCAT-AP), Registry Interchange Format - Collections and Services (RIF-CS), DataCite Schema, Dataverse; and discipline schemas ISO19115-1, EOSC/EDMI, Data Tag Suite (DATS), Bioschemas, B2FIND, Data Documentation Initiative (DDI), European Clinical Research Infrastructure Network (ECRIN), Space Physics Archive Search and Extract (SPASE); as well as CodeMeta for software.

The collection can serve as a reference for data repositories when they develop their crosswalks, as well as an indication of semantic interoperability among the schemas. [The visualisation tool](#) (developed by the World Data System - International Technology Office) provides a user-friendly interface to inspect the crosswalks, by querying either an individual property or a schema name.

The dataset:

The collection of the crosswalks is available in the following formats:

- The xlsx file has all information about the revision history and the same crosswalks in two sheets with different classifications. The first classification (labelled “crosswalks”) includes categories: properties as recommended by [the Google dataset search guidelines](#) (A), DCAT properties that can be mapped to Schema.org (B) and DCAT properties that are unable to be mapped to Schema.org. The second classification (labelled “NISO classification”) organises the mapped Schema.org properties with the categories from [the NISO metadata type](#), including Descriptive Metadata, Technical Metadata, Preservation Metadata, Rights Metadata and Structural Metadata.
- The “crosswalks” sheet is also available in the csv file and the pdf file. The CSV file is accessible via the group's git repository, [here](#).

**Impact:** The collection of crosswalks provides an important insight into semantic interoperability of metadata schemas commonly used for research data. The collection can serve as a reference for data repositories when they develop their own crosswalks or for projects that develop common metadata frameworks.

**Language:** English

**License:** [Attribution 4.0 International \(CC BY 4.0\)](#)

**RDA webpage:** <https://www.rd-alliance.org/group/research-metadata-schemas-wg/outcomes/collection-crosswalks-fifteen-research-data-schemas>

**Citation and Download:** Wu, M., Hagan, P., Cecconi, B., Richard, S. M., Verhey, C., & RDA Research Metadata Schemas WG. (2021). A Collection of Crosswalks from Fifteen Research Data Schemas to Schema.org. *Research Data Alliance*. <https://doi.org/10.15497/RDA00069>

This is a collection of crosswalks from 15 metadata schemas to [Schema.org](https://schema.org)

### Revision history

#### 2019-11-20

ARDC intern Penelope Hagan (CSU student) aligned the 13 crosswalks against mapped [Schema.org](https://schema.org) properties, in the sheet labelled "crosswalks".

Rows in green color are covered by the Google dataset search guide - they are 20 in total. The rows in **dark green** are "Required", the other rows in **light green** are "Recommended".

#### 2020-09-04

\* Mingfang Wu (ARDC) re-adjusted the schema.org columns (B-E), the version before this date is named: V0.2 - before-alignment 20200903. The Keep properties from the v0.2 are largely from the CodeMeta Properties.

\* After the adjustment, keep the 20 properties from google, added properties from DCAT & DCAT-AP (dataset, datacatalogy and distribution) - the properties that can be mapped to schema.org are in orange color, the properties can't find proper mapping to shema.org are in light orange color.

\* Baptiste Cecconi (Observatoire de Paris - PSL) added the SPASE column. SPASE data model is available at: <https://spase-group.org/data/model/index.html> Baptiste Cecconi (LESIA, Observatoire de Paris, CNRS, PSL Research University) contributed the mapping here.

#### 2021-10-4

\* Mingfang Wu checked latest version of Google dataset guidelines, DCATV3, BioSchema, DataCite, adding more property mappings, more property mappings are also added for the dc&dc terms, RIF-CS, Dataverse ECRIN.

\* Mingfang Wu created the Tab NISO classification for classifying mapped Schema.org properties into the NISO categories: Descriptive Metadata (rows in green), Administrative Metadata (rows in yellow) and Structure Metadata (rows in pink). NISO classification reference is available: <http://www.niso.org/press-releases/2017/01/niso-publishes-understanding-metadata-primer>

#### 2021-11-13

\* Stephen M. Richard (US Geoscience Information Network, USGIN) added the mapping from ISO19115-1

For ongoing updated version, please visit: <https://github.com/rd-alliance/Research-Metadata-Schemas-WG>

**Visualisation tool** (<https://rd-alliance.github.io/Research-Metadata-Schemas-WG>)

The World Data System (International Technology Office) has developed a visualisation tool, which provides a user-friendly interface to inspect the crosswalks, by querying either an individual property or a schema name.

RDA Crosswalks from schemas to schema.org (V1.0, 2021-12-16)

	Schema.org																			
Parent Type	Property R: Required	Type	Description (text in bracket is from the <a href="#">Google dataset search guide</a> )	<a href="#">DCAT-AP</a>	<a href="#">DCATv3</a>	<a href="#">Datacite</a>	ISO19115-1	<a href="#">EOSC/EDM</a>	<a href="#">Dataverse</a>	<a href="#">DATS</a>	<a href="#">RIF-CS</a>	<a href="#">DC and DC Term</a>	<a href="#">BioSchema</a>	<a href="#">B2FIND</a>	<a href="#">DDI</a>	<a href="#">ECRIN Clinical Research Metadata Schema</a>	<a href="#">CodeMeta</a>	<a href="#">SPASE</a>		
A. From Google dataset search recommendation	schema:Thing	description (R)	Text	A description of the item.	dct:description(M)	dcterms:description	Description (R)	MD_Identifier/abstract (M)	description (M)	Description; DescriptionValue (M)	description (R)	collection/description[@type='brief'] OR collection/description[@type='full']	Description - dcterms:description	description (M)	Description (R)	abstract	Description (R)	description	ResourceHeader/Description	
	schema:Thing	name (R)	Text	A descriptive name of the item (e.g. dataset, software, Organization).	dct:title(M)	dcterms:title	Title (M)	MD_Identifier/citation/title(M)	name (M)	Title (M)	title (M)	registryObject.collection.name	Title - dcterms:title	name (M)	Title (M)	titl	Object Title (M)	name	ResourceHeader/ResourceName	
	Schema:DataDownload	distribution.contentUrl	URL	(The link for the download.)	dct:accessURL (M) dct:downloadURL (O)	dc:downloadURL		MD_Metadata/distributionInfo/online/linkage [function = download]	accessURL				location/address/electronic @type="url" @ target="directDownload"		distribution					AccessInformation/AccessURL/URL
	schema:Thing	identifier	Text	The identifier property represents any kind of identifier for any kind of Thing, such as ISBNs, GTIN codes, UUIDs etc. Schema.org provides dedicated properties for representing many of these, either as textual strings or as URL (URI) links. See background notes for more details.	dct:identifier	dcterms:identifier	Identifier (M)	MD_Identifier/citation/identifier/code	identifier (M)	Dataset Persistent ID	identifier (R)		collection/citationInfo/citationMetadata/identifier AND/OR collection/identifier		identifier (M)	Identifier (M)	IDNo	DOI (M)	identifier	ResourceHeader/DOI ResourceID
	schema:Thing	alternateName	Text	An alias for the item (Alternative names that have been used to refer to this dataset, such as aliases or abbreviations.)		rdfs:label skos:altLabel	titleType	MD_Identifier/citation/alternateTitle(O)		Alternative title					alternateName		altTitl			ResourceHeader/AlternateName
	schema:Thing	sameAs	URL	URL of a reference Web page that unambiguously indicates the item's identity. E.g. the URL of the item's Wikipedia page, Wikidata entry, or official website.		owl:sameAs skos:exactMatch	RelatedIdentifier (R) AlternateIdentifier (O)*	MD_Identifier/citation/identifier/code (use authority or codespace in MD_Identifier to indicate context for this alternate identifier)	sameAs (O)	Alternative URI	alternateIdentifier (O)							Related resource identifiers, with relation type indicator (R)	sameAs	ResourceHeader/InformationURL/URL
	schema:Thing	url	URL	URL of the item. (Location of a page describing the dataset.)	foaf:homepage	dc:endPointURL	valueURL	distributionInfo/transferOptions/online/linkage [function = information]	url (M)		identifier (R)		RDA key= URL of record. "https://researchdata.ands.org.au/view?key=<insert key>"	dc:identifier (if URL)	url (M)		accsPlac		url	AccessInformation/AccessURL/URL
	schema:CreativeWork	citation	CreativeWork or URL	A citation or reference to another creative work, such as another publication, web page, scholarly article, etc. (Identifies academic articles that are recommended by the data provider be cited in addition to the dataset itself. Provide the citation for the dataset itself with other properties, such as name, identifier, creator, and publisher properties. For example, this property can uniquely identify a related academic publication such as a data descriptor, data paper, or an article for which this dataset is supplementary material for.)		dcterms:bibliographicCitation	isReferencedBy isDocumentedBy	MD_Identifier/associatedResource/CI_Citation (suggest using associationType from dataCite vocabulary)	citation (O) referenceCitation(O)	Related Publication	primaryPublication/ citations (O)		collection/relatedInfo[@type='publication'] OR relatedObject.collection where related collection [@type='publication']	dcterms:isReferencedBy dc:relation	citation (R)		relPub(bibliCit)		citation	ResourceHeader/PublicationInfo
	schema:CreativeWork	keywords	Text	Keywords or tags used to describe this content. Multiple entries in a keywords list are typically delimited by commas.	dct:keyword (R)	dc:keyword	Subject(R)*	MD_Identifier/descriptiveKeywords/keyword	keywords (R)	Subject (M); Topic Classification Term; Keywords		keywords (O)	collection/subject	Subject - dcterms:subject	keywords (M)		keywords		keywords	keyword
	schema:CreativeWork	license	CreativeWork or URL	A license document that applies to this content, typically indicated by URL. (A license under which the dataset is distributed.)	dct:license	dct:license	Rights	MD_Identifier/resourceConstraints/reference/CI_Citation, or text in MD_LegalConstraints/useLimitation [restrictionCode = license]	license (R)			licenses (R)	collection/rights/licence[@rightsURI] AND/OR collection/rights/licence[@type] AND collection/rights/licence	Rights	license (R)	Rights (O)	rights	Rights (O)	license	
schema:CreativeWork	creator	Organization or Person	The creator/author of this CreativeWork (dataset). This is the same as the Author property for CreativeWork. (To uniquely identify individuals, use ORCID ID as the value of the sameAs property of the Person type. To uniquely identify institutions and organizations, use ROR ID. )	dct:creator	dcterms:creator	Creator (M)	MD_Identifier/citation/creditedResponsibleParty/name [role = one of {author, coAuthor, originator, editor}]	creator (M)	Author; authorName (M)	creator (M)		collection/citationInfo/citationMetadata/contributor OR relatedObject.relatedInfo party/name where relation=PrincipalInvestigatorOf OR relatedObject.relatedInfo party/name where relation=author OR relatedObject.relatedInfo party/name where relation=coInvestigator OR relatedObject.relatedInfo party/name where relation=hasCollector	Creator	creator (R)	Creator (R)	AuthEnty*	Creators (M)	author	ResourceHeader/Contact [@role=PrincipalInvestigator] ResourceHeader/Contact [@role=DataProducer]	
schema:CreativeWork	isPartOf	CreativeWork	Indicates a CreativeWork that this CreativeWork is (in some sense) part of. Reverse property hasPart. If the dataset is a collection of smaller datasets, use the hasPart property to denote such relationship. Conversely, if the dataset is part of a larger dataset, use isPartOf.	dct:isPartOf (R)	dcterms:isPartOf	isPartOf	MD_Identifier/associatedResource/CI_Citation [associationType = 'largerWorkCitation']	includedIn(Dataset) (R)				relatedObject.relatedInfo collection where relation[@type='isPartOf']				isPartOf		isPartOf	ParentID (only for Granule resource type)	
schema:CreativeWork	hasPart	CreativeWork	Indicates a CreativeWork that is (in some sense) a part of this CreativeWork. Reverse property isPartOf	dct:hasPart (R)	dcterms:hasPart	hasPart	MD_Identifier/associatedResource/CI_Citation [associationType = 'isComposedOf']	includes(Dataset) (R)		hasPart (O)		relatedObject.relatedInfo collection where relation[@type='hasPart']				hasPart		hasPart		

	Schema.org																	
Parent Type	Property R: Required	Type	Description (text in bracket is from the <a href="#">Google dataset search guide</a> )	DCAT-AP	DCATv3	Datacite	ISO19115-1	EOSC/EDM	Dataverse	DATS	RIF-CS	DC and DC Term	BioSchema	B2FIND	DDI	ECRIN Clinical Research Metadata Schema	CodeMeta	SPASE
schema:CreativeWork	version	Number or Text	The version of the CreativeWork embodied by a specified resource.	owl:versionInfo	owl:versionInfo	Version (O)	MD_Identifier/citation/edition	version (O)	Version	version (R)	registryObject:collection:citationInfo:citationMetadata:version		version (R)		version	version (O)	version	ProviderVersion
schema:CreativeWork	temporalCoverage	Text	The temporalCoverage of a CreativeWork indicates the period that the content applies to  (The data in the dataset covers a specific time interval. Only include this property if the dataset has a temporal dimension.)	dct:temporal	dcterms:temporal	Date	MD_Identifier/extent/temporalElement/extent/TM_Primitive	temporalCoverage (O)	Time Period Covered		collection/coverage/temporal	dcterms:temporal (start); dcterms:temporal (end)		Temporal Coverage (O)	temporal			TemporalDescription/TimeSpan
schema:CreativeWork	spatialCoverage	Text, Place	The spatialCoverage of a CreativeWork indicates the place(s) which are the focus of the content.  (You can provide a single point that describes the spatial aspect of the dataset. Only include this property if the dataset has a spatial dimension.)	dct:spatial	dcterms:spatial	GeoLocation(R)	MD_Identifier/extent/geographicElement . EX_GeographicBoundingBox or EX_BoundingBox with GM_Object is Point for centroid (yukkk! :). Some profiles recommend putting place names in keywords, keywordTypeCode = 'place'. Many possibilities--will have to configure for particular ISO profile...	spatialCoverage (O)			collection/coverage/spatial	dcterms:coverage (spatial)		Spatial Coverage (O)	geogCover geoBndBox coverage			ObservedRegion
schema:Dataset schema:DataCatalog schema:DataDownload	measurementTechnique	Text, URL	A technique or technology used in a Dataset (or DataDownload, DataCatalog), corresponding to the method used for measuring the corresponding variable(s)		<a href="#">sosa:usedProcedure</a>		MD_Metadata/resourceLineage/statement	measurementTechniques (R)*					measurementTechnique (R)		instrumentDevelopment			MeasurementType
schema:Dataset	variableMeasured	Property Value, Text	The variableMeasured property can indicate (repeated as necessary) the variables that are measured in some dataset, either described as text or as pairs of identifier and description using PropertyValue.  (The variable that this dataset measures. For example, temperature or pressure.)		<a href="#">sosa:observedProperty</a>		MD_Metadata/contentInfo/featureCatalogue [requires import of ISO 19110]	variableMeasured (R)		dimensions (O)				variablesMeasured (R)	measure			Parameter
schema:Dataset	includedInDataCatalog	DataCatalog	A data catalog which contains this dataset.  (The catalog to which the dataset belongs.)		dcterms:isPartOf	publisher	MD_Identifier/associatedResource/name/CI_Citation [associationType = 'collectiveTitle']	includedIn (R)		distribution.storedIn (O)				includedInDataCatalog (M)				
Schema:Dataset	distribution	DataDownload	A downloadable form of this dataset, at a specific location, in a specific format (The description of the location for download of the dataset and the file format for download.)	dct:distribution (R)	dc:at:distribution	distribution	MD_Metadata/distributionInfo/MD_Distribution/transferOptions	distribution (R)		distribution (R)	location/address/electronic @type="url" @ target="directDownload"			dcterms:isPartOf	distribution		distribtr (URI)	
Schema:DataDownload	distribution.encodingFormat		(The file format of the distribution.)	dcterms:format	dc:at:mediaType dcterms:format	format	MD_Metadata/distributionInfo/MD_Distribution/transferOptions//distributionFormat								encodingFormat			AccessInformation/Format
schema:CreativeWork	funder	Organization or Person	A person or organization that supports (sponsors) something through some kind of financial contribution.		<a href="#">dcterms:contributor</a>	contributor with ContributorType/Sponsor(O)*	MD_Identifier/credit or MD_Identifier/citation/citedResponsibleParty//name [role = funder]		Grant information	acknowledges (O)	relatedObject[relatedInfo party/name where relation=IsFundedBy		dcterms:contributor		grantNo (agency)		funder	ResourceHeader/Funding/Agency
catalogue, dataset and distribution) that can be mapped to <a href="#">schema.org</a>	schema:CreativeWork	publisher	Organization or Person  The publisher of the creative work	dct:publisher (R)	<a href="#">dcterms:publisher</a>	Publisher (M)	MD_Identifier/citation/citedResponsibleParty//name [role = publisher]		Dataset Publisher		registryObject:collection:citationInfo:citationMetadata:publisher OR registryObject@Group		Publisher - dcterms:publisher		publisher	Publisher/Provider (M)	publisher	ResourceHeader/Contact [@role=Publisher]
	schema:Thing	contactPoint	Telephone, email, Place (etc)  A contact point, e.g. email, telephone, address	dct:contactPoint (R)			MD_Identifier/pointOfContact//name (for the resource); MD_Metadata/contact//name						dcterms:mediator	dct:contactPoint	dct:contactPoint	contact	Access Contact (M)	ResourceHeader/Contact
	schema:CreativeWork or schema:Thing	about or subjectOf	CreativeWork, Event, Communication  The subject matter of content	dc:at:theme (R) dct:subject(O)		Subject*	MD_Identifier/topicCategory ; additional categories in MD_Identifier/descriptiveKeywords//keyword [type = subTopicCategory]					collection/subject						
	schema:Thing	inLanguage	Language or Text  The language of the content or performance or used in an action. Please use one of the language codes from the IETF BCP 47 standard.	dct:language (R)	dcterms:language	Language (O)	MD_Metadata/language (for metadata record content language); MD_DataIdentification/language (for resource content language)		Language			(default to English) "en"	Language - dcterms:language		Language (O)	language	Language (R)	
	schema:CreativeWork	dateCreated	Date or DateTime  The date on which the CreativeWork was created or the item was added to a DataFeed.	dct:created (O)	dcterms:created(O)	Date (R)/Created	MD_Metadata/dataInfo [dateType = creation] for metadata record; MD_Identifier/citation//date [dateType = creation] for the described resource	dateCreated (M)	Date of collection			collection/citationInfo/citationMetadata/date[@type= 'created'] OR collection/dates[@type='created']		dcterms:created	dateCreated	created	Dates (date type) (O)	datedCreated

RDA Crosswalks from schemas to schema.org (V1.0, 2021-12-16)

	Schema.org																			
	Parent Type	Property R: Required	Type	Description (text in bracket is from the <a href="#">Google dataset search guide</a> )	DCAT-AP	DCATv3	Datacite	ISO19115-1	EOSC/EDMI	Dataverse	DATS	RIF-CS	DC and DC Term	BioSchema	B2FIND	DDI	ECRIN Clinical Research Metadata Schema	CodeMeta	SPASE	
							M: Mandatory R: Recommended O: Optional		M: Minimum R: Recommended O: Optional											
B. Properties from DCAT/DCAT-AP (cat)	schema:CreativeWork	datePublished	Date	Date of first broadcast/publication.	dct:issued (R)	dcterms:dateAccepted	PublicationYear (M)	same as above, dateType = publication	datePublished (O)	Publication Date		collection/citationInfo/citationMetadata/date[@type="publicationDate"] OR collection/citationInfo/citationMetadata/date[@type="issued"] OR collection/dates[@type="dc.issued"] OR collection/dates[@type="dc.available"] OR date the record was ingested into RDA	dcterms:dateAccepted		PublicationYear (R)	distDate (for export)	Creation Year (M)	datePublished	ReleaseDate	
	schema:CreativeWork	dateModified	Date or DateTime	The date on which the CreativeWork was most recently modified or when the item's entry was modified within a DataFeed.	dct:modified (O)	dcterms:modified	Date (R)/Updated *	same as above, dateType = lastUpdate	dateModified (M)	Version Date			dcterms:modified	dateModified		version (date)	Dates (date type) (O)	dateModified	RevisionHistory/RevisionEvent/ReleaseDate*	
	schema:CreativeWork	copyrightHolder	Organization or Person	The party holding the legal copyright to the CreativeWork.	dct:rightsHolder (O)	dcterms:rightsHolder		MD_Identifier/resourceConstraints/responsibleParty/name [restrictionCode = copyright]						dcterms:rightsHolder					copyrightHolder	
	schema:CreativeWork	mentions	Thing	Indicates that the CreativeWork contains a reference to, but is not necessarily about a concept.	dct:relation	dct:relation		MD_Identifier/associatedResource/name/CI_Citation [associationType = 'crossReference']						dcterms:relation						
	schema:CreativeWork	isBasedOn	CreativeWork, Product, URL	A resource from which this work is derived or from which it is a modification or adaption	dct:source(O)	dct:source(O)	isContinuedBy isCompiledBy isOriginalFromOf isSourceOf isDerivedFrom	MD_Metadata/resourceLineage/source/sourceCitation						dc:source			derivation			
	schema:Thing	isRelatedTo	Product, Service	A pointer to another, somehow related product (or multiple products).	dct:relation	dct:relation	relationType	MD_Identifier/associatedResource/name/CI_Citation [associationType = 'crossReference']						dct:relation						
	schema:CreativeWork	encodingFormat	Text, URL	Media type typically expressed using a MIME format	dct:format (R) dct:mediaType(O)	dct:format (R) dct:me	Format(O)*	MD_Metadata/distributionInfo/transferOptions/distributionFormat/medium/name	format (R)		distribution. format		collection/address/electronic [target="directDownload"]/mediaType	dct:format (R) dct:mediaType(O)			format medium		encodingFormat	AccessInformation/Format
	schema:MediaObject	contentURL	URL	Actual bytes of the media object, for example the image file or video file.	dc:accessURL (M) dc:downloadURL(O)	dc:downloadURL		MD_Metadata/distributionInfo/online/linkage [function = download]			access (M)									
	schema:MediaObject	contentSize	Text, URL	File size in (mega/kilo) bytes.	dct:byteSize(O)	dct:byteSize	Size(O)*	MD_Metadata/distributionInfo/transferOptions/transferSize (and unitsOfDistribution)	size(R)					coilSize						
	schema:Thing:Schedule	repeatFrequency	Duration, text	This term is proposed for full integration into <a href="#">Schema.org</a> * Defines the frequency at which Events will occur according to a schedule Schedule. The intervals between events should be defined as a Duration of time.	dcterms:accrualPeriodicity	dcterms:accrualPeriodicity		MD_Metadata/distributionInfo/transferOptions/transferFrequency						dcterms:accrualPeriodicity						
schema:CreativeWork	funder	Organization or Person	A person or organization that supports (sponsors) something through some kind of financial contribution.	dcterms:contributor	dcterms:contributor	contributor with ContributorType/Sponsor(O)*	MD_Identifier/citation/creditedResponsibleParty/name [role = funder]		Grant information	acknowledges (O)	relatedObject[relatedInfo party/name where relation=isFundedBy]	dcterms:contributor						funder	ResourceHeader/Funding/Agency	
schema:CreativeWork	contributor	Organization or Person	A secondary contributor to the CreativeWork or Event.	dcterms:contributor	dcterms:contributor	Contributor (R)	MD_Identifier/citation/creditedResponsibleParty/name [role = contributor]		Contributor			Contributor - dcterms:contributor (Depositor)		Contributor (O)	contributor	Contributors (O)	Contributor	ResourceHeader/Contact [role=Contrib		
schema:CreativeWork	producer	Organization or Person	The person or organization who produced the work (e.g. music album, movie, tv/radio series etc.).	dcterms:contributor	dcterms:contributor	contributor with contributorType="Producer"	MD_Identifier/citation/creditedResponsibleParty/name [role = https://schema.org/producer]		Producer			dcterms:contributor			producer		producer			
schema:CreativeWork	editor	Person	Specifies the Person who edited the CreativeWork.				MD_Identifier/citation/creditedResponsibleParty/name [role = editor]											editor		
schema:CreativeWork	copyrightYear	Number	The year during which the claimed copyright for the CreativeWork was first asserted.	dcterms:dateCopyrighted	dcterms:dateCopyrighted	Copyrighted	MD_Identifier/citation/date [dateType = https://schema.org/copyrightYear]						dcterms:dateCopyrighted					copyrightYear		
schema:CreativeWork	isAccessibleForFree	Boolean	A flag to signal that the publication is accessible for free.														aviStatus dataAccs	isAccessibleForFree		
C. Properties from DCAT/DCAT-AP have no mapping in <a href="#">schema.org</a>				rights	dct:rights(O)	dct:rights	Rights(O)*	MD_Identifier/resourceConstraints/MD_LegalConstraints				collection/rights	rights			rights disclaimer				
		in proposing: <a href="https://github.com/schemaorg">https://github.com/schemaorg</a>		access rights	dct:accessRights(O)	dct:accessRights		MD_Identifier/resourceConstraints/MD_LegalConstraints					dct:accessRights			accessRights			AccessRights*	
				conformance result / conformity (data quality)	dct:conformsTo	dct:conformsTo		MD_Metadata/dataQualityInfo/DQ_DataQuality (import ISO19157)												
				has version	dct:hasVersion	dct:hasVersion	hasVersion	MD_Identifier/associatedResource									hasVersion			
				is version of	dct:isVersionOf	dct:isVersionOf	isVersionOf	MD_Identifier/associatedResource									isVersionOf			
				provenance	dct:provenance	prov:qualifiedAttribution		MD_Metadata/resourceLineage									method relation software			RevisionHistory*

RDA Crosswalks from schemas to schema.org (V1.0, 2021-12-16)

Schema.org																			
Parent Type	Property R: Required	Type	Description (text in bracket is from the <a href="#">Google dataset search guide</a> )	<a href="#">DCAT-AP</a>	<a href="#">DCATv3</a>	<a href="#">Datacite</a>	ISO19115-1	<a href="#">EOSC/EDM</a>	<a href="#">Dataverse</a>	<a href="#">DATS</a>	<a href="#">RIF-CS</a>	<a href="#">DC and DC Term</a>	<a href="#">BioSchema</a>	<a href="#">B2FIND</a>	<a href="#">DDI</a>	<a href="#">ECRIN Clinical Research Metadata Schema</a>	<a href="#">CodeMeta</a>	<a href="#">SPASE</a>	
						M: Mandatory R: Recommended O: Optional		M: Minimum R: Recommended O: Optional											
													also referenced: <a href="https://bioschemas.org/profiles/">https://bioschemas.org/profiles/</a>						