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v	Property	Definition	Mandat, Recomm, Optional	Occurrency	Allowed values,	Note	DCAT	OpenAlex	OpenAIRE	DataCite	EUDAT-B2FIND	CERIF	OpenCitations Data Model	ORCID	Grossref	ResearchGraph	ORKG	Wikidata	Common Data Structure
0		Unique code identifying the Product in the OSG (if	Optional		Allowed values, examples, other constraints		(RL(FID)		ы Ц			internal Identifier	datache haaldentifier	x- specify the property name for the specific data	internal id	<u>kav</u>	resouce id, property id		
1	identifierz.	Unique code identifying the Product in the OSG (if any, otherwise "stateless identifier")	0	0			dclenna identifier		pid or originalid	1. Identifier		Enderste.	datacite hasidentifier	the specific data (cerual	ta.	atting fields			https://fevir.netFL1CommonDataStructureldentifier
1.1	identifierScheme		м		vocabulary of identifier		use skos.Concept in dolerms type for custom PID achemes		pid acheme	1. Identifier 10. Abernateldentifier 1.a identifierType 10.a abernatelidentifierTy	identifiers identifiers identifier.	<u>Federate</u> Identifier	datacile usesidentifierScherne			doi, ani, orcid	URI		https://fevir.netFL1CommonDataStructureldentifier
12	identifier/Value		м		vocabulary of identifier schemes? DOI, ArXiv,	We need to define/heter to	IRIs preferred but other PID/URLS accepted		pid.value	10.a alternatedidentifierT 1. identifier 10. Alternateidentifier	identifierType				<u>ta</u>	local id. scopus eid			https://fevir.netFLLCommonDataStructureldentifier
						We need to defineheter to existing vocabulary acheme multiple for multi- lingularn multiple for multi- lingularn					identifiers. Identifier		Neral hasLiteraValue dclaens:title				DOI		https://fevir.net/FL1/CommonDataStractureldentifier.
	Title Abstract		R	0.1	lat	multiple for multi- linguism multiple for multi-	dolenna tile dolenna: deecription			3. Title 19. Description	titles.title descriptions. description	Name Description	dclermatitle		alminect	226	ndfa tabel		https://fevir.net/FL1CommonDataStractureNamg
4	ProductType		м		Research Data,	Ingularn				10.a 10. ResourceType. resourceTypeGeneral	description resourceTypes. resourceType		rdftype			bpe-publication .			https://fevir.netFLLCommonDataStructureClassification
	We assume that all invo	wae functions from other	entities to Produc	ts are to be includ	Research														https://fevir.net/FLLCcommonDataStructureClassification
	haz_declared_contributi on (to Contribution)									2.5 Creator affiliation 9.5 Contributor affiliation	Creator		alivio-perori a foaf Person ; pro holdsRoleinTime :silvio-perori-at-unibo . :silvio-perori-at-unibo a nor BriefsTime ;						
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		pointer to a a pair +grant, funder+					use foat Group		is ProducedBy	110. FundingReference	FundingReference	-							
	Organization)	funder+					prov.waxAthbuledTo. With prov: qualifiedAthbulion you can use standardized role (e.g. ISO)		is ProducedBy (funder is part of the project modelling)						isFundedby, hasAward				Artifact relatedArtifact or Artifact.contribution
	hesSubject (to Topic)								implicit relation as subject is part of the result model	9. Subject	keyword				,				Artifact classification
	relatedWithProduct (to Product, semantics, local semantics)	Reference to another product, with semantics as "imposed" by TE and			Possible "imposed" semantics: DataCite semantics or		DCAT specifies dataset composability. I would say make each research renduct a dataset (node, vertex) and		implicit relation as subject is part of the result model datache relationships between results										
		Reference to another product, with semantics as "imposed" by TP and "local semantics" as originally provided by OSG			DataCite semantics or Scholx semantics		OCAT specifies dataset composability. I would say make each research product a dataset (node, verties) and waive them together is a Graph. Compose datasets hierarchically with dolerners tasPart for parents or dolerners tasPart/of for children.								various types, see				
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v Property Definition	Mandat, Occurrency Allowed values, examples, other Optional constraints	Note DCAT OpenAlex OpenAl	RE DataCite EUDAT-82/FIND CERIF	OpenCitations Data Model ORCID Crossed	ResearchGraph ORKG Wikidata	Common Data Structure

v Property Definition	Macolut, Occurrency Allowed value Recomm, examples, oth Optional constraints	ss, Note DCAT	OpenAlex OpenAIRE DataCite	EUDAT-82FIND CERIF	OpenCitations Data Model ORC	CED Crossref Re	searchGraph ORKG Wikidata	Common Data Structure
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v Property Definition	Mandat, Recomm, Optional Occurrency Allowed values, examples, other constraints	Note DCAT OpenAlex OpenAl	RE DataCite EUDAT-82FIND CERIF	OpenCitations Data Model ORCID Crosseef	ResearchGraph ORKG Wikidata	Common Data Structure

v Property Definition	Mandas, Occurrency Allowed values, Recomm, Optional constraints, examples, other Constraints, examples, etc.	Note DCAT OpenAlex Op	enAIRE DataCite EUDAT-B2FIND CERIF	OpenCitations Data Model ORCID Crossref	ResearchGraph ORKG Wikidata	Common Data Structure

۷	Property	Definition	Mandat., Recomm., Optional	Occurrency	Allowed values, examples, other constraints	Note	DCAT	OpenAlex	OpenAIRE	DataCite	EUDAT-B2FIND	CERIF	OpenCitations Data Model	ORCID	Crossef	ResearchGraph	ORKG	Wikidata	Common Data Structure
			Optional		constraints														
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۷	Property	Definition	Mandat., Recomm., Optional	Occurrency	Allowed values, examples, other constraints	Note	DCAT	OpenAlex	OpenAIRE	DataCite	EUDAT-B2FIND	CERIF	OpenCitations Data Model	ORCID	Crossref	ResearchGraph	ORKG	Wikidata	Common Data Structure			
5	Manifestation																					
<u>64</u>	Recource Type		3		Literature Research Data Research- Schware, Others					10.a 10. ResourceType. resourceTypeGen eral	ResourceType		rdf.type		12 types, see documentation	type=publication dataset			https://fevir.net/F	LI/CommonDat	aStructureClassific	ation
5.1.1	ProductLocalTyp e		R	1	free text (local vocabularies)					10. ResourceType	ResourceType					orcid_type			https://fevir.net/F	LI/CommonDat	aStructureClassific	ation
5.1.2	ProductLocalTyp eSchema		R	1	local schema, standard vocabulary																	
52	Dates		м	1_n			dcterms: PeriodOfTime { hasBeginning, hasEnd} Note: Use ISO 8061 timestamps with timezone		embargoenddate or publicationdate		- PublicationYear / - Temporal Coverage [startDate, endDate]		prism: publicationDate			publication_year			https://fevir.net/	ELI/CommonD	ataStructureCont	ribution
5.2.1	value	Date format	м		2022. 31/12/2022					9. Date	- YYYY - YYYY-MM- DDThh:mm: ssTZD				(year. month. day)				https://schema.or	g/DateTime		
522	type	Publishing date, Embargo Date	м							9.a Date. dateType	- published - covers				created. published-onine, published-print, updated, deposited, indexed						ata Structure Cont	ribution - definition
5.3	peer-review		м		blind, open, unavailable										100000				Ingole Chattering and			
5.4	metadata curation		м		true, false, unavailable																	
5.5	access rights		м	1	open, closed, embargo, restricted, unavailable																	
	license		R	1																		
		Schema used to describe license	R	1							Rights											
5.8	uri	the url where the resource can be found	м	1																		
5.9	pid	the pid for the	R	1																		
	biblio information	specific materialization	0																			
5.5.1			0						69						isan							
	start page		0						sp						page				1			
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	volume	for journals, books, conferences	0						vol						volume							
5.5.5	edition	for journals and books	0																1			
		for journals	ō																			
		for journals, books, conferences	0																			
5.5.8		for conferences, and books	0																			
		Il inverse function	s from other entiti	ies to Products are	e to be included																	
	published_in_ven ue (to Venue)																					
	hosted_by_datas ource (to Data Source)																					

		Definition	Mandat.	-	Allowed values, examples,	Note	DCAT	OpenAlex	OpenAIRE	DataCite	EUDAT-82FIND		OpenCitations Data Model	ORCID		ResearchGraph	
ID	Property	Definition	Recomm.	Occ	Allowed values, examples, other constraints	Note	DCAT	OpenAlex	OpenAIRE	DataCite	EUDAT-82FIND	CERF	OpenCitations Data Model	ORCID	Crossref		
			Optional														Common Data Structure
c	D Localidentifier	Unique code identifying the Person in the OSG (if any,	M	1			Note for column:		id								
		otherwise "stateless identifier")					Note for column: uses FOAF or PROV-0									key	https://fevir.net/FLI/CommonDataStructureIdentifier
1	1 Adentifiers		R	0.n			Any IRI (PID) eg. ORCID		ORCID				datacite haaldentifier		ORCID	string fields: ORCID, scopus_author	https://fevir.net/FLI/CommonDataStructureIdentifier
1.1	1 scheme	The scheme for the identifier	м	1	ORCID, Viaf	create a controlled vocabulary?			pid scheme								https://fevir.net/FLI/CommonDataStructureIdentifier
1.2	2 value	The value for the PID	м	1					pid value						ORCID		https://fevir.net/FLUCommonDataStructureIdentifier
2	2 Given name	The given name of a person	м	1					name				foaf:givenName		given	first_name	https://fevir.net/FLUCommonDataStructureName
3	3 Family name	The family name of a person	м	1					sumarrie				foaf familyName		family	last_name	https://fevir.net/FLI/CommonDataStructureName
4	4 Agent	The name of an agent	0	01	UNICEF		foaf:name (fullname)						foaf:name		name	fuli_name	https://fevir.net/FLI/CommonDataStructureName
Relationships																	
	We assume that al inver	se functions from other entities	to Person are to b	e included													
	is_affiliated_with (to Affiliation)			0. <i>n</i>											affiliation	organisation,researcher	https://fevir.net/FLI/CommonDataStructureEntity - affiliation
	has_contribution(to Contribution)			0.n												publication, grant, dataset	https://fevir.net/FLI/CommonDataStructureRelatedArtifact

ID	Property	Definition	Mandat., Recomm., Optional	Occ	Allowed values, examples, other constraints	Note	DCAT	OpenAlex	OpenAIRE	DataCite	EUDAT-B2FIND	CERIF	OpenCitations Data Model	ORCID	Crossref	ResearchGraph	ORKG
0	Localldentifier	Unique code identifying the DeclaredAffiliation in the OSG (if any, otherwise "stateless identifier")	м	1													
1	Roles	specific role of the Person	м	1	CREDIT ontology	list of roles											
2	Rank		R	1	int												
Relationships																	
	We assume that all inverse functions from	other entities to Contribution	are to be included	4													
	related_product (to Product)	available if Creditships relates to Products, not avilable if it relates to Venues	0	01													
		available if Creditships relates to Venues, not avilable if it relates to Products	0	01													
	related_person (to Person)		м	01											affiliation		
	related_person_affiliation (to Organization)	0	0n													
	related grant		0	01													

ID	Property	Definition	Mandat., Recomm., Optional	Occ	Allowed values, examples, other constraints	Note	DCAT	OpenAlex	OpenAIRE	DataCite	CERIF	OpenCitations Data Model	ORCID	Crossref	ResearchGraph	ORKG
0		Unique code identifiying the Affiliation in the OSG (if any, otherwise "stateless identifier")	м	1												
2	start date		R	1		YYYY-MM-GG										
3	end date		R	1		YYYY-MM-GG										
Relationships																
	We assume that all inverse functions fro	m other entities to Affiliation	s are to be include	d												
	related_person(to Person)		м	1										affiliation		
	related_organization (to Organization)		м	1												

ID	Property	Definition	Mandat.	Occ	Allowed values.	Note	DCAT	OpenAlex	OpenAIRE	DataCite	EUDAT-B2FIND	CERIE	OpenCitations	ORCID	Crossref	ResearchGraph	
-			Recomm., Optional		examples, other constraints								Data Model				Common Data Structure
0		Unique code identifying the Organization in the OSG (if any, otherwise "stateless identifier")	м	1			Note for column: uses FOAF or		id							key	https://fevir.net/FLI/CommonDataStructureIdentifier
		Persistent identifiers for the organization	R	1		list of identifiers	0.02		211							string fields: grid id. doi. oroid, wikipedia. isni, wikipedia. isni, timeshighereduca tion	https://fevir.net/FLUCommonDataStructureIdentifier
1.1	scheme	The scheme for the identifier	м	1	ISNI, ROR	create a controlle	d vocabulary?		pid.scheme						ROR		https://fevir.net/FLI/CommonDataStructureIdentifier
1.2	value	The value for the PID	м	1					pid.value							local_id	https://fevir.net/FLUCommonDataStructureIdentifier
2	Name	The legal name of the organization	м	1					legalname						name	name	https://fevir.net/FLI/CommonDataStructureName
3	Short Name	the abbreviation of the name of the organization	0	0.1					legalshortname								https://fevir.net/FLI/CommonDataStructureName
4	Other Names	Other names to refer to the organization	0	01		list			alternativenames								https://fevir.net/FLI/CommonDataStructureName
5	Website	The website Url of the organizaiton	м	1	URL				websiteurl								https://fevir.net/FLI/CommonDataStructureLocation - url
6	CountryCode	the country of the organization	м	1	п	ISO 3166-1alpha- 2			country.code or country.label							country	https://fevir.net/FLI/CommonDataStructureLocation
7	Organization Type	type of organization	R		Archive, Company, Education, Facility, Government, Healthcare, Nonprofit, Funder, Other												
Relationships																	
	We assume that a	I inverse functions from other entities to Organization	on are to be includ	ed													
																grant	https://fevir.net/FLI/CommonDataStructureRelatedArtifact

ID	Property	Definition	Recomm.,		Allowed values, examples, other	Note	DCAT	OpenAlex	OpenAIRE	DataCite	EUDAT-B2FIND	OpenCitations Data Model	ORCID	Crossref	ResearchGraph	
			Optional		constraints											Common Data Structure
0	Localidentifier	Unique code identifying the Grant in the OSG (if any, otherwise "stateless	м	1			FOAF (groups)		id						key	
		identifier")														https://fevir.net/FLI/CommonDataStructureIdentifier
1	Identifiers		R	1		List									string fields	https://fevir.net/FLI/CommonDataStructureIdentifier
1.1	scheme		м	1											arc, crossref	https://fevir.net/FLI/CommonDataStructureIdentifier
1.2	value		м		DOIs, Funder code E.g. EC grant agreement										local_id	https://fevir.net/FLI/CommonDataStructureIdentifier
2	Title		м	1					title						title	https://fevir.net/FLI/CommonDataStructureName
3	Abstract		R	1					summary							https://fevir.net/FLI/CommonDataStructureClassification
4	Acronym		0	1		Mandatory if title is not present			acronym							https://fevir.net/FLI/CommonDataStructureName
5	Funder		м	1												
	Funding stream			01					funding. funding_stream						arc_scheme_nam e	https://fevir.net/FLI/CommonDataStructureContribution - definition
	Currency		-	01		Mandatory if funded amount is given			granted.currency							https://fevir.net/FLI/CommonDataStructureContribution - definition
8	Funded amount		0	01					granted. fundedamount						arc_funding_at_a nnouncement, funding_amount	https://fevir.net/FLI/CommonDataStructureContribution - definition
9	keywords		0	01		list			keywords						anoung_anount	https://fevir.net/FLI/CommonDataStructureClassification
10	start date		R	01		YYYY-MM-GG			startdate						start year	https://fevir.net/FLI/CommonDataStructureContribution - start
11	end date		R	01		YYYY-MM-GG			enddate						end year	https://fevir.net/FLI/CommonDataStructureContribution - end
12	website		R	01					websiteurl						url	https://fevir.net/FLI/CommonDataStructureLocation - url
Relationships																
	We assume that al i	nverse function	s from other entitie	es to Grants are to	be included											
	primelnvestigator (to Creditship)						Unique code identifying the Grant in the OSG (if any, otherwise "stateless identifier")									
	fundedProducts (toResearchProduct)								produces							https://fevir.net/FLI/CommonDataStructureRelatedArtifact
	beneficiary (toOrganization)								hasParticipant						relatedTo	https://fevir.net/FLI/CommonDataStructureRelatedArtifact
	hasSubject (to Topic)															https://fevir.net/FLI/CommonDataStructureClassification
															researchers	
	1	1			1											

ID			Mandat., Recomm., Optional		Allowed values, examples, other constraints	Note	DCAT	OpenAlex	OpenAIRE (publication. container)	DataCite	CERIF	OpenCitations Data Model	ORCID	Crossref	ResearchGraph
		Unique code identifiying the Journal in the OSG (if any, otherwise "stateless identifier")	м	1											
1	Identifiers		0	01		list	dcterms:identifier eg DOI		•			datacite:hasIdentifier		ISSN	
	scheme		м	1	ISSN, EISSN, LISSN, ISBN, OpenDOAR ID, re3data.org ID										
1.2	value		м	1											
2	name		м	1			dcterms:title		name			dcterms:title		container-title	
3	Acronym		R	1											
4	type		м		Journal, Book, Conference, Repository, Others, Uknown										
5	isCurrentlyFullOA	if set to True, the venue is currently accepting only Open Access research products	м	1	True, False										
6	Creation date		R	1	YYYY-MM-DD										
Relationships															
	We assume that al inv	verse functions from other entitie	s to Venues are to	be included											
	Editors and authors (to Person)		R	0n		not have authors	We could model Journals as foaf: Groups from their publisher								

ID	Property	Definition	Mandat., Recomm., Optional	Occ	Allowed values, examples, other	Note	DCAT	OpenAlex	OpenAIRE	DataCite	EUDAT-B2FIND	CERIF	OpenCitations Data Model	ORCID	Crossref	ResearchGraph	EOSC Data Model
	Localldentifier	I felore ande I de etificione des	Optional		constraints												model
	Localidentiller	Unique code identifying the Conference in the OSG (if any, otherwise "stateless	Recomm., Optional														
1	Identifiers	identifier")	0	01		List											
	name		м	1													
	Submission policy URL	ECSE: Data Source Profile This policy provides a comprehensive framework for the contribution of research products. Oriteria for submitting content to the repository as well as product preparation guidelines can be stated. Concepts for quality assurance may be provided.	R	01	URL												
D\$1.2	Preservation policy URL	ECSE: Data Source Profile This policy provides a comprehensive framework for the long-term preservation of the research products. Principles aims and responsibilities must be clarified. An important aspect is the description of preservation concepts to ensure the technical and conceptual utility of the content	R	01	URL												DS1.2
DS1.3	Version control	EOSC Data Source Profile If data versioning is supported: the data source explicitly allows the deposition of different	0	1	Boolean												DS1.3
DS1.4	Persistent Identity Systems	versions of the same object EOSC Data Source Profile The persistent identifier systems that are used by the Data Source to identify the ProductType it supports	R	01		List											D\$1.4
DS1.4.1	Persistent Identity ProductType	EOSC Data Source Profile Specify the ProductType to which the persistent identifier is referring to.	м	1	Vocabulary: Research Product Type												DS1.4.1
DS1.4.2	Persistent Identity ProductType Scheme	EOSC Data Source Profile Specify the list of persistent identifier schemes used to refer to ProductTypes	м	1	Vocabulary: Persistent Identity Scheme	list											DS1.4.2
DS2.1	Jurisdiction	EOSC Data Source Profile The property defines the jurisdiction of the users of the data source, based on the vocabulary for this property	м	1	Vocabulary: Jurisdiction												DS2.1
DS2.2	Data Source Classification	EOSC Data Source Profile The specific type of the data source based on the vocabulary defined for this property	м	1	Vocabulary: Data Source, Classification												DS2.2
DS2.3	Research Product Types	The types of OpenAIRE entities managed by the data source, based on the vocabulary for this property	м	1	Vocabulary: Research Product Type	list											DS2.3
DS2.4	Thematic	EOSC Data Source Profile Boolean value specifying if the data source is dedicated to a given discipline or is instead discipline agnostic	M	1	Boolean												DS2.4
DS3.1	Research Product Licensing	ECSC Data Source Profile Licenses under which the research products contained within the data sources can be made available. Repositories can allow a license to be defined for each research product, while for scientific databases the database is typically provided under a single license.	R	01		list											DS3.1
DS3.1.1	Research Product		м	1	String												DS3.1.1
DS3.1.2	Research Product License URL		м	1	URL												DS3.1.2
DS3.2	Research Product Access Policy		R	01	Vocabulary: COAR Access Rights 1.0	list											DS3.2
DS4.1	Research Product Metadata Licensing	EOSC Data Source Profile Metadata Policy for information describing items in the repository: Access and re-use of metadata	R	01	INVERTING LLV	list											DS4.1
DS4.1.1	Research Product Metadata License Name		м	1	String												DS4.1.1
DS4.1.2	Research Product Metadata License URL		м	1	URL												DS4.1.2
DS4.2	Research Product Metadata Access Policy		R	01	Vocabulary: COAR Access Rights 1.0	list											DS4.2
Relationships	M/a approx the	al inverse functions from ot	her entities to F	Pourson ti	included												
	we assume that	a myerse functions from of	arer entrues to Data	sources are to be	a metuaed												
-	1		+														
			1														

ID	Property		Mandat., Recomm., Optional	Occ	Allowed values, examples, other constraints	Note	DCAT	OpenAlex	OpenAIRE (result.subjects)	DataCite	EUDAT-B2FIND	CERIF	OpenCitations Data Model	ORCID	Crossref	ResearchGraph
		Unique code identifiying the Topic in the OSG (if any, otherwise "stateless identifier")	М.	1												
1	Identifier		0	01		list			-							
	scheme		М	1					subject.scheme		https://github. com/EUDAT- B2FIND/md- ingestion/blob/ma ster/etc/b2find_di sciplines.json					
1.2	value		м	1					subject.value		keywords. keyword disciplines. discipline					
4	provenance		R	01		list										
4.1	type		м	1		string			provenance. provenance							
4.2	trust		м	1		number			provenance.trust							
Relationships																
	We assume that a	al inverse function	s from other entitie	es to Topics are to	be included											
							topic/category dcterms:subject, formal vocabularies dcat:theme (like in INSPIRE/GEMINI or ISO 19115). For custom vocab with skos also dcat:theme									
		1														

[1] /Equipment

[2] Software is described by the OpenCitations Data Model, but there are no software entities in the OC indexes, yet. However, there are ongoing plans to have such entities in the future

[3] But mainly datasets, only few texts and publications

- [4] Creator
- [5] Creator
- [6] Creator
- [7] Keywords, Discipline
- [8] Discipline and Keywords