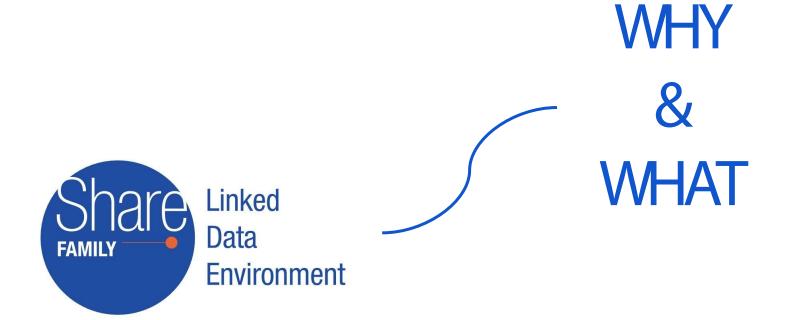




Tiziana Possemato @Cult - Casalini Libri

Linking entities for connecting content Facilities of linked open data







Share-VDE institutions

Share-VDE platform hosts the data of the full member institutions:

- Berkeley Law Library www.law.berkeley.edu/library/₪
- Duke University www.duke.edu ₪
- Library of Congress www.loc.gov ₪
- National Library of Finland www.kansalliskirjasto.fi/en ₪
- National Library of Norway www.nb.no/en/the-national-library-of-norway/

 ✓
- New York University www.nyu.edu/ ₪
- Smithsonian Institution www.si.edu/ ₪
- Stanford University www.stanford.edu
- The British Library www.bl.uk ₪
- University of Alberta / NEOS Library Consortium www.ualberta.ca
- University of Chicago www.uchicago.edu ₺
- University of Michigan Ann Arbor www.umich.edu
- University of Pennsylvania www.upenn.edu
- Vanderbilt University www.vanderbilt.edu/ ₪
- Yale University level 1, former Cohort member, www.yale.edu



Knowledge is shared by member libraries

Why Share...



supports libraries, archives and museums in the transition from traditional cataloging environments to innovative models based on entity management



exploits the potential of linked open data to connect and present library information in enriched, integrated and dynamic ways



improves visibility of all resources, including those that may previously have remained hidden in a traditional catalogue



Knowledge is shared by member libraries

Why Share...



Establishes a library-driven initiative steered by member institutions, to share knowledge, experience and skills

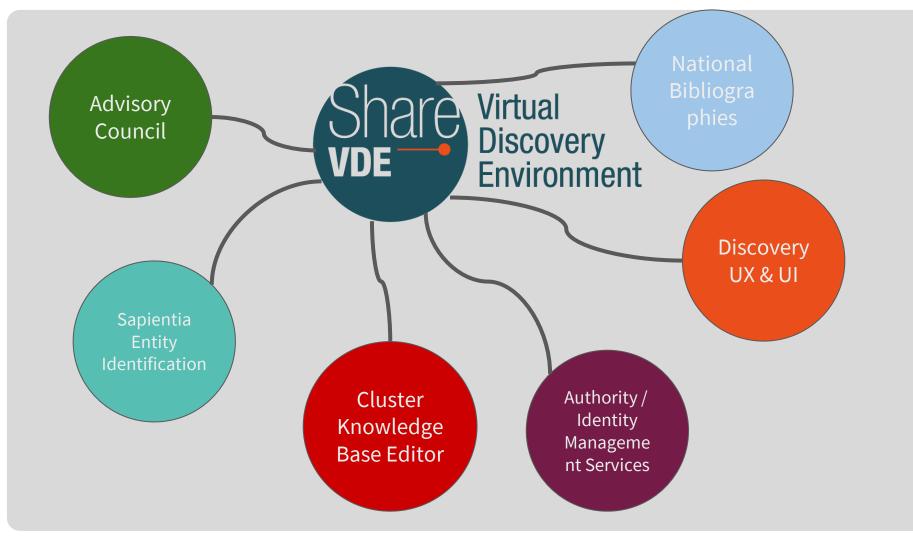


provides librarians and information professionals with advanced tools that allow direct interaction with data, extending and enhancing metadata services, that can be provided locally or in a shared environment

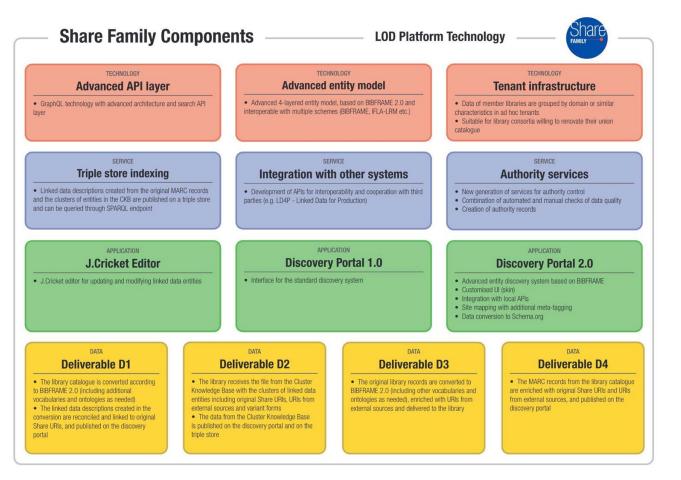


enables libraries, archives and museums to keep pace with web technology as it evolves



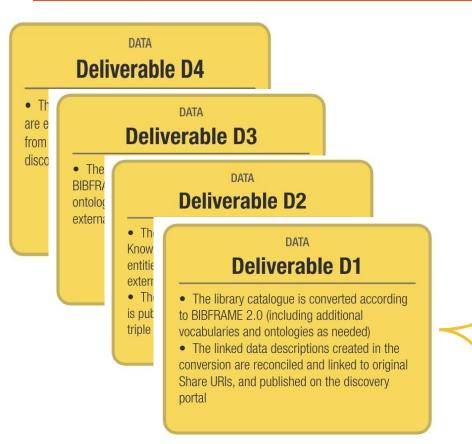


The options for your library





Deliverables



Data, enriched with information (URIs and values) from external authoritative sources and converted following the BIBFRAME data model, are available for the publication on the Share portal and for other library projects, both in Marc 21 enriched and in RDF.

Data can be enriched with specific
sources selected by each library, following their special and local needs



Entity Discovery Portal

📼 Q 🛔 Options 🗸

Gauguin (author)

cent van Gogh (other) as Cooper (other)

van Gogh (other)

reie Gerritse (author) cent van Gogh (artist) BRiksmuseum Vincent van Gogh (issuing

na Gesina van Gogh-Bonger (other)

SVDE 2.0 is supported by en based presentation layer reflecting BIBFRAME and the ad hoc SVDE extensions. The user experience is highly improved, hiding complexity to the end users

← van gogh, vincent search

years of his life. They include landscapes, shill lifes, partraits, and self-partraits, and are characterized by baid colours and dramstic

ruppling with severe decression and poverty, committed suicide at the ape of 37 - Wikipedia

📫 Kubikot

Original works by Filter original works...

No. Title A

45 lettres à Vinc

Aardappeleters

268 results

O Person O Vincent van Gogh Dutch post-impressionist painter (1853-1890).

More options Y Copy URI for this page https://kubikat-lod.org/agents/5416529666

2 isni record

12 wikidata recon

62 Icnaf record

Le baf record

Download the page in these format .jsen

More information related to this person on other websites

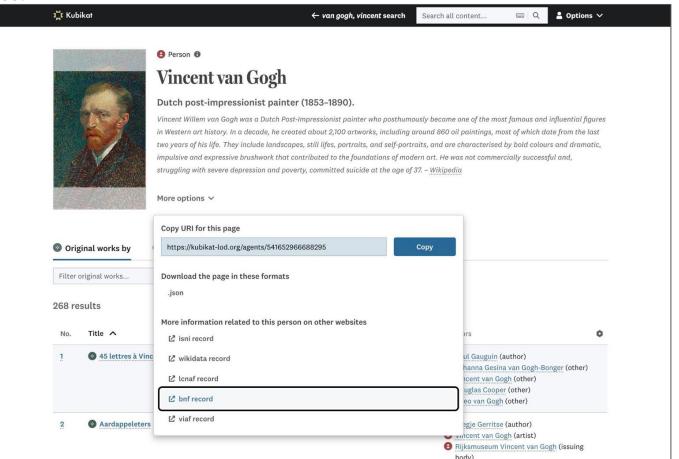
https://shar	$\label{eq:constraint} we description of the state of th$		Each library can ch	oose its
tity 🗖	😨 Penn Libraries Catalog	Search all content Q 🛓 Jane Doe -	Each morally caller	
		vik, lyfer slovetser de to Homite () Kamite), is a brogedy written by vittilian Skokespeere Demanik, lyfe slag vitepiet Prince Homite and Na reverge ogenes Na <u>irikisedia</u> Bet It now at Van Pett Merr options - mal Works ADD OFDHAT Heid at Penn Person name Language Location Austholity O	 profile and its services, extending the functionality of the Portal from the shared 	
	• () • II • S	APPLICA Discovery B dvanced entity discovery system Customised UI (skin) Integration with local APIs Site mapping with additional meta Data conversion to Schema.org	Portal 2.0 based on BIBFRAME	Share



Share portal - The entity based portal to consume linked data

0	MOR STREET					
Snare	eVDE BETA	() () () () () () () () () ()	andrea camilleri search Sear	rch all content 📼 🔍 🚨	Options 🗸	
	Person					
	Andrea Camille	eri				
	Italian writer. Born in 192	5 in Porto Emp	edocle (Italy). Died in 201	9 in Rome (Italy).		
1	Andrea Calogero Camilleri was ar	n Italian writer. – <u>Wi</u>	ikipedia			
11						
Vikimedia	More options V					
Akimedia						https://www.svde.org/andra
						a891654264096406/original-wo
Origina	al works by OPublications by 💿 Or	riginal works abo	out			
			1			
Filter origi	rinal works Q Year Cre	eator Genre	l.			
96 result	its					
No.	Title	Year	Genre	Creators	٥	
1	Rete di protezione		Fiction/Novel	Andrea Camilleri (author)		
2						
	Novels		Fiction/Novel	Andrea Camilleri (author)		
	<u>Novels</u>		Fiction/Novel	 Andrea Camilleri (author) Salvatore S. Nigro (other) 		
3	Novels Forma del acqua		Fiction/Novel Fiction			
			0 22-00-00-00 AS	Salvatore S. Nigro (other) Andrea Camilleri (author) Andrea Camilleri (author)		
	S Forma del acqua		0 22-00-00-00 AS	Salvatore S. Nigro (other) Andrea Camilleri (author)		
	S Forma del acqua		0 22-00-00-00 AS	Salvatore S. Nigro (other) Andrea Camilleri (author) Andrea Camilleri (author)		
4	 Forma del acqua Essays. Selections 		0 22-00-00-00 AS	Salvatore S. Nigro (other) Andrea Camilleri (author) Andrea Camilleri (author) Lucio Caracciolo (editor)		FAM

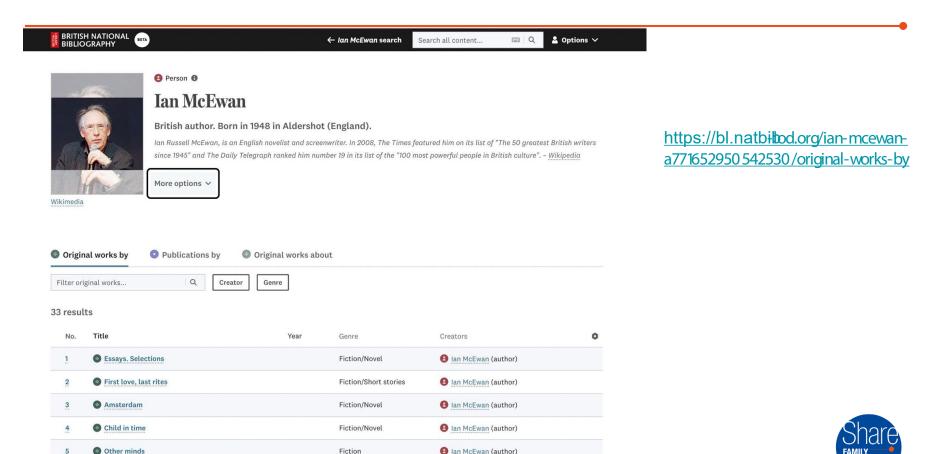
Entity Discovery: the value of external sources to enrich data





11

Share portal - The skin to enhance the identity of the single library



(an McEwan (author))

Drama

Soursweet

6

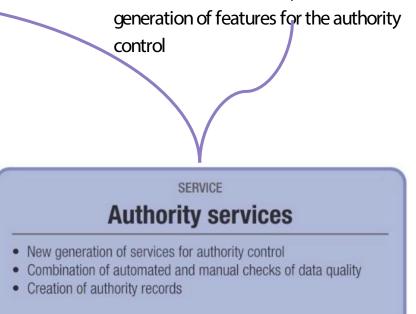
Enhanced Authority Services

Ibri Authority Services Web	⊗					
00mt (442300)						
		POSITION	THG	INDICATORS	CONTENT	
cord for manual edit (n. 85215283						
s 11/ mo 2010	Delete	6	010	1	\$an 85219263	
					SaDLCSdDLCSdDLC	
	Delete	7	040	11		
arcoding local x					\$a\$ugarman, Alan D.	
0 ² 00 10 11 12 13 14 16 17 28 3 + + + + + + + + + + + + + + + + + + +		8	100	1		Name 1XX
		-			SaHigh tech real estate, c1985:\$bt.p. (Alan D. Sugarman, Merrill Lynch	
	Delete	A	670	1 1	Realty) d	
	Delete	10	670	1	Sairis Commercial tenant's leasing transactions guide, 1991;\$bCIP t.p. (Alan D. Sugarman) data sheet (b. 12-20-45)	
			920		Sahttp://id.loc.gov/authorities/names/n85219263	
	Delete	11	[aton	11		
	Delete	12	921	1	\$ahttp://viaf.org/viaf/62991032	
	P-CIC/C	14	U. 1	<u>e e</u>		
	Delete	13	922	1	\$ahttp://sni.org/isni/000000067490818	

Innovative solutions that facilitate and improve authority control through automatic and manual procedures.

Libraries to receive constantly updates on their bibliographic and authority records from authoritative sources.

Authority Services currently available for MARC-based workflows offer automated URI enrichment, reconciliation and validation of library data.



The next step is to make Authority

Services available also for linked data-

based workflows - a truly new

Cooperation & Interoperability

Cooperation and interoperability are key to Share technology: the use and the reuse of data, tools, ideas maximizes results and minimizes efforts

Integration with other systems

• Development of APIs for interoperability and cooperation with third parties (e.g. LD4P - Linked Data for Production)

Tools and protocols are being set-up for third parties' usage and data harvesting, including OAI-PMH, Atom feeds and Activity stream



Triple store publication - an open query endpoint

SVDE data are open, and usable through an open endpoint to retrieve them in – RDF format through SPARQL queries

<http://id.loc.gov/vocabulary/mstatus/c> <http://www.w3.org/2000/01/rdfschema#label> "changed" <https://svde.org/agents/UPENN> <https://svde.org/AdminMetadata/upenn9916551383503681> <http://id.loc.gov/ontologies/bflc/encodingLevel> <http://id.loc.gov/vocabulary/menclvl/f> <https://svde.org/agents/UPENN>. <http://id.loc.gov/vocabulary/menclvl/f> <http://www.w3.org/1999/02/22-rdf-syntaxns#type> <http://id.loc.gov/ontologies/bflc/EncodingLevel> <https://svde.org/agents/UPENN>. <http://id.loc.gov/vocabulary/menclvl/f> <http://www.w3.org/2000/01/rdf-schema#label> "full" <https://svde.org/agents/UPENN> . <https://svde.org/AdminMetadata/upenn9916551383503681> <http://id.loc.gov/ontologies/bibframe/descriptionConventions> <http://id.loc.gov/vocabulary/descriptionConventions/aacr> <https://svde.org/agents/UPENN> . <http://id.loc.gov/vocabulary/descriptionConventions/aacr> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://id.loc.gov/ontologies/bibframe/DescriptionConventions> <https://svde.org/agents/UPENN> . <http://id.loc.gov/vocabulary/descriptionConventions/aacr> "aacr" http://svde.org/agents/UPENN>. <https://syde.org/AdminMetadata/upenn9916551383503681> <http://id.loc.gov/ontologies/bibframe/identifiedBy> <https://svde.org/UPENN9916551383503681 Local 001/83d25d24-2db9-4d7a-868e-8d7d11827a4b> <https://svde.org/agents/UPENN> <a>https://svde.org/UPENN9916551383503681 Local 001/83d25d24-2db9-4d7a-868e-8d7d11827a4b> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>

SERVICE Triple store indexing

• Linked data descriptions created from the original MARC records and the clusters of entities in the CKB are published on a triple store and can be queried through SPARQL endpoint

> The core of SVDE integrated catalogue, ie. the Cluster Knowledge Base of linked data entities created from SVDE institutions' data, is published on a public query interface



Advanced API layer - Easily use our data!

SVDE 2.0 baekd infrastructure leverages an advanced API layer orchestrating queries to SVDE data from the web discovery portal and from machine to machine applications

The API layer is designed to respond to the increasingly complex search logic, the update to the entity model and the enhancement to the Cluster Knowledge Base

- Two API protocols: GraphQL API and REST API
- All Share-VDE entities are exposed through (read-only)
 API
- Search API provide several shapes / context behaviour (e.g. simple, advanced search, partial or full match, exact matches suggestions, terms modifiers, results explanation)
- Three query languages: TermsQL, SVDEQL, StructQL

TECHNOLOGY

Advanced API layer

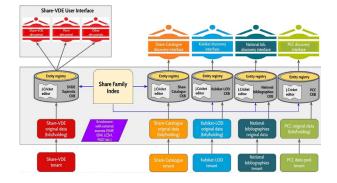
GraphQL technology with advanced architecture and search API layer

Tenant infrastructure - Community and autonomy

TECHNOLOGY

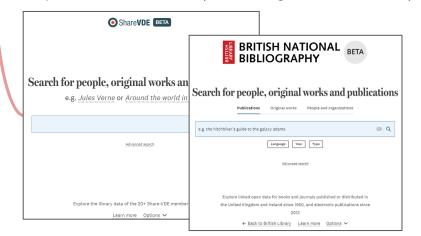
Tenant infrastructure

- Data of member libraries are grouped by domain or similar characteristics in ad hoc tenants
- Suitable for library consortia willing to renovate their union catalogue



The Share Family community includes different branches and projects, supported by the same technology. Each branch is hosted in a specific tenant of the system, ie. a group of institutions contributing to the same data pool.

This structure ensures autonomy of approach to data management for each tenant, but also cooperation, because all tenants are connected as part of the same "family", and long term sustainability.

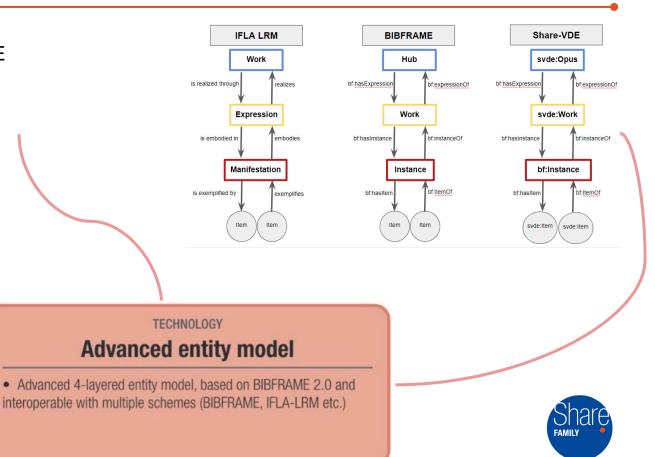




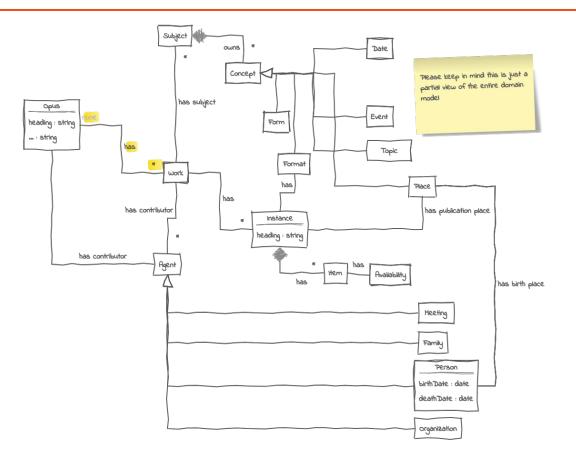
Interoperable entity model

The approach to the SVDE entity model is to make it as much interoperable as possible, to facilitate data exchange with other systems.

It is based on BIBFRAME ontology, with ad hoc extensions to support interaction with IFLA LRMbased models.



Share-VDE: the Domain Model

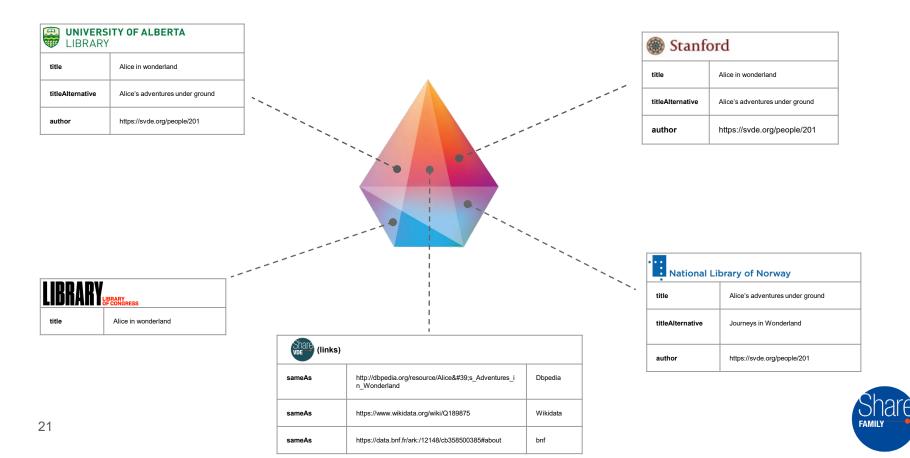




The Entity as a "Prism"



Share-VDE Cluster: the Prism



Properties: Attributes, Relationships, Links



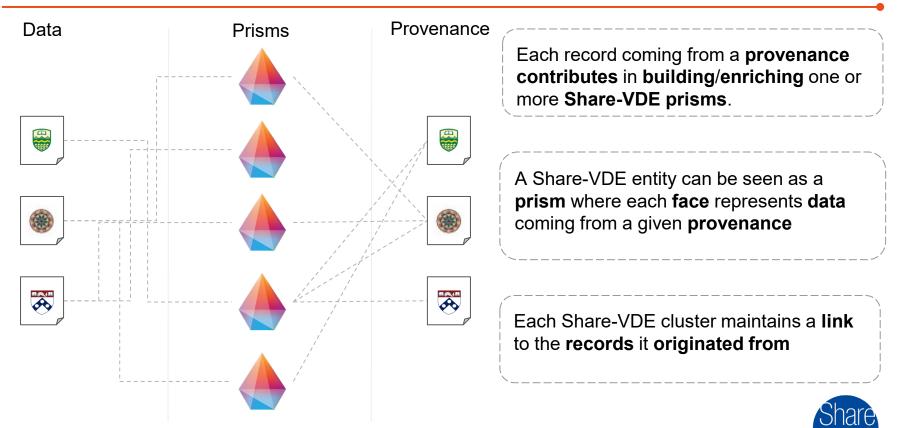


An attribute is a data property, having a literal as value

Share			
sameAs	http://dbpedia.org/resource/Alice's_Adventures_in_Wonderland 🌑 🖉	Dbpedia	
sameAs	https://www.wikidata.org/wiki/Q189875	Wikidata	 A link is a connection between a\\$barerism and an
sameAs	https://data.bnf.fr/ark:/12148/cb358500385#about	bnf	external reference



Prism: Record-Level Provenance



Sapientia Edit API: JCricket





JCricket Editor - The Entity Management System

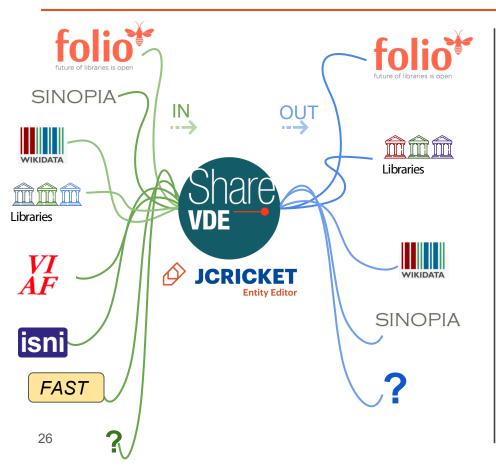
saiah Thomas > Edit		
Manual review needed - This cluster was automatically created and is likely in need of manu	ireview Methyskis ×	
Person Isaiah Thomas		
÷	Connect external IDs · Share-VDE	
	Share-VDE	Q, Search all content
Iuster metadata Connected external I	Connect to external IDs	
Source ID Name Born Died Confidence OCLC 12 21X1241 Isalah Thomas 1989 Manually add	Name Q. Isalah Thomas	Wittins ince 015010
ZAF <u>15684Y9</u> Isaiah Thomas 1989 Automaticalh	OCLC VIAF Wikidata LC GND BNF Other	This Wikides entits has a potential digitizate on Wikides Basiandazanara
LC 17 8925563. Isaiah Thomas 1989 Automaticath		Isalah Thomas Anerican baahedha fatyee 1955-1927
Wikidata 17 055522235 Isalah Thomas 1773 1819 Automaticalh	Jashb Thomas (or Fashb Jamar Thomas) American basistal liptyer - Rom 1989 0,3366300 -	1954-2017 Ker or grender Mer
Isalah Themas (or Isalah Jamar Thomas)	Idah Tomak (or Jobh Thomas Sc. 1. Thomas 1. T. T. 1.)	- Country of chlorenship United States of America
American basketball player - Born 1989 - Q336030 12 🗶 138/30 min	Basin Homas (or scalar) Homas Sc. 1. Homas L. 1. 1.1 Hosachusetts printer publisher and journalist - 1749-1831 01550495 07	Country for sport United States of America
Add another external URI	Balah Thomas (or Isalah Thomas, Jun. 1, Thomas, Jun.)	BHP name Janish Jamar Thomas (English) Proceedings
	(1773-1819) 1773-1819 Connected	Dute of Neth 7 February 1099 Place of Neth Tubora
	• Create new wikidata item for "John Dee" 12	Tacona Occupation Baiotethalf player
		Possifice played on taxes / speciality Root round
		Connect to this ID
		Done
	APPLICATION	4
	J.Cricket E	ditor
	J.OHCKELE	
	 I Originat aditor for undative and used 	if ing linked data antition
	J.Cricket editor for updating and mod	inying iniked data entities

JCricket is an entity editor that car out the transition from Marc to a real Entity Management System.

JCricket acts on the entity database
(CKB) created through Entity Resolutio and clustering processes

"The more the mel'rides a perfect vision in a collaborative community But each library has also local need the architecture of J.Cricket allows operate locally or centrally, creating collaborative group that does not forget local specificities

Share-VDE: Share Virtual Discovery Environment



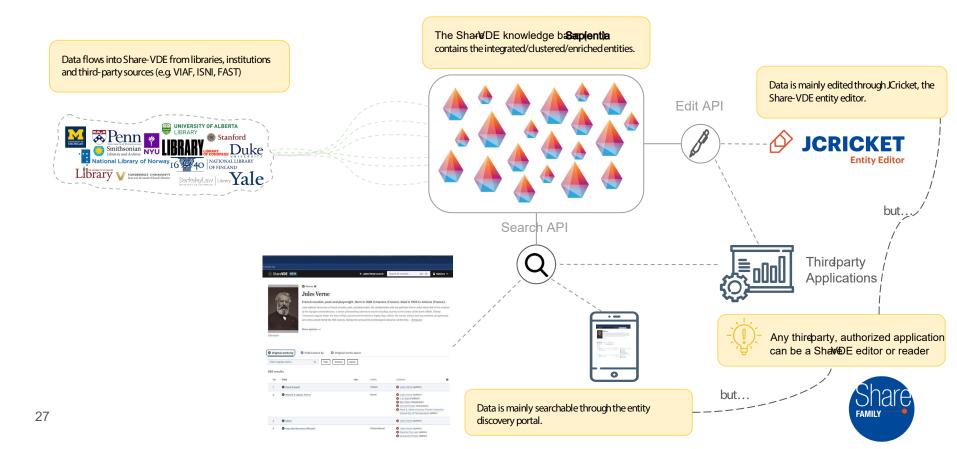
In a Nutshell

ShareVirtual Discovery Environment librarydriveninitiative which brings together a shared discovery environment, the bibliographic catalogaeslauthority files f a growing number of leacticademic nd national libraries macrossorth America andEurope

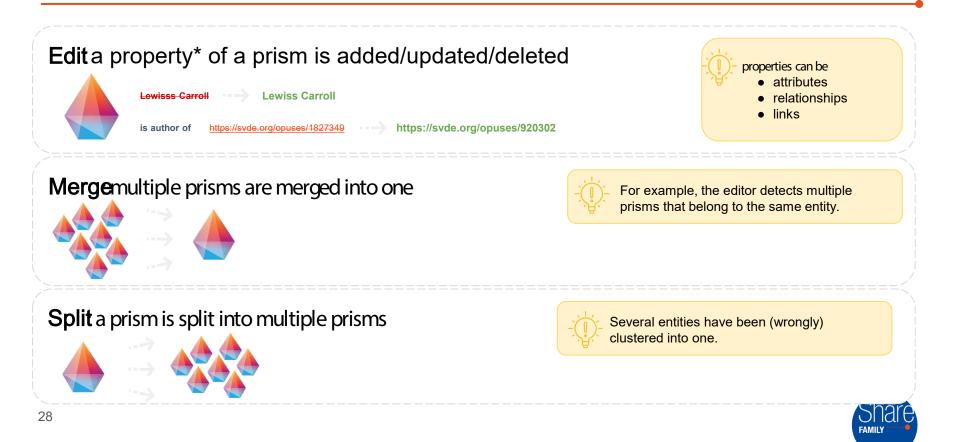




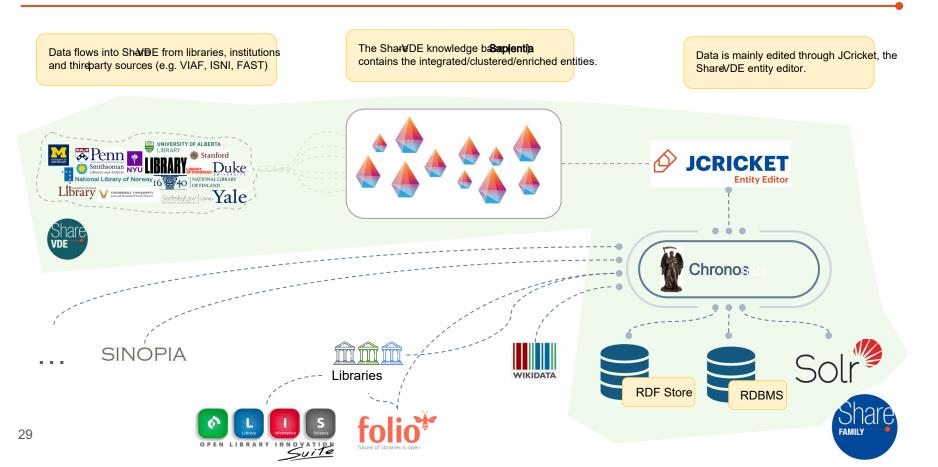
The Big Picture: from Genesis to Edit



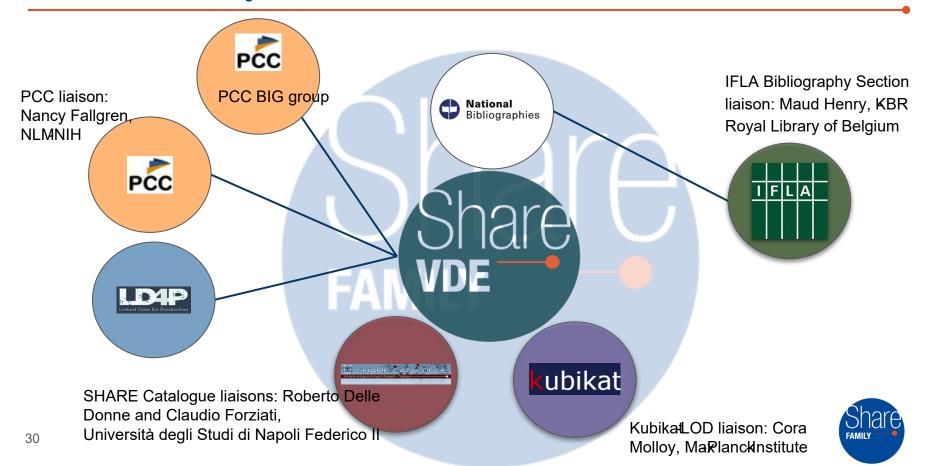
JCricket: Edit Scenarios



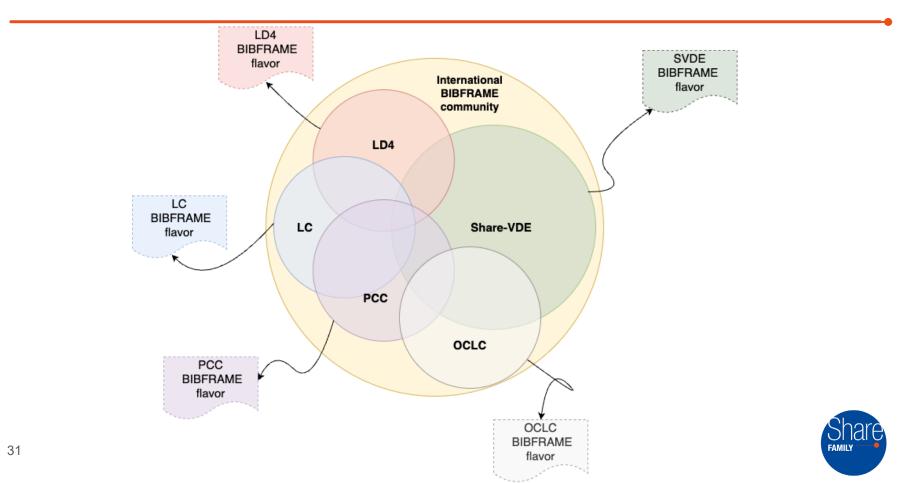
Outbound Connectors Architecture



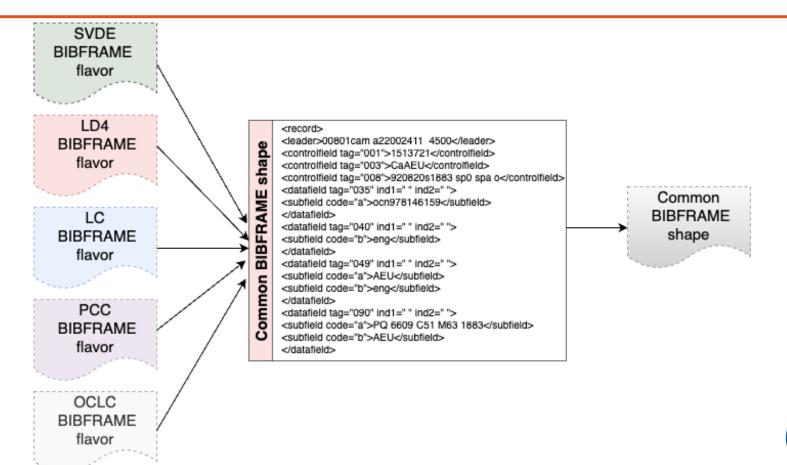
Share Family and Share-VDE liaisons



BIBFRAME communities engagement - Various BF flavors



BIBFRAME communities engagement - Various BF flavors





Get involved!

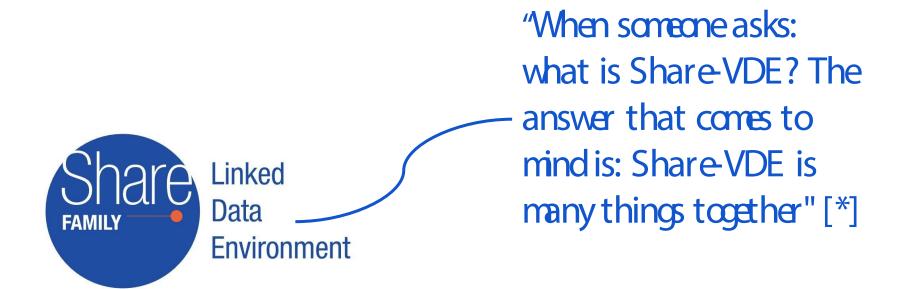
Becoming part of the global Share Family means sharing data and co operating with the greater international library community



Share

The family continues to expand as more and more libraries worldwide embrace the opportunity to be involved in an international network of information, creating dialogue, participation and partnership

Get in touch with us to find out more about how the Share family can help your library: info@svde.org https://wiki.svde.org/ https://www.svde.org/about/about/aboutrevde



[*] Cit. Beth Picknally Camden (University of Pennsylvania Libraries)

Share - News & Updates on Wiki

		Share-VDE: linked data for libraries About the Share Familiy Contact us
Virtual Discovery Environment		Q Find 🖉 🕩
1	\$ ≡	ShareFamily: NewsAndUpdates Page ~ Discussion Ø No categories assigned
Highlights Share-VDE: linked data for librar About this wiki	^	Share Family news and updates
All pages		⊕ Last edited 22 days ago by Anna Lionetti
Share Family About the Share Family News and updates	^	Find out the latest news about the Share Family of initiatives @ and the most relevant updates on the developments going on within the various branches of the family.
Share-VDE	~	
About Share-VDE Share-VDE institutions FAQ Share-VDE resources		Contents [hide] 1 Share-VDE and Share Family Summer and Autumn 2022 events (September 2022) 2 Share-VDE and Share Family periodic update (May 2022) 3 Share-VDE and Share Family New Year update (January 2022) 4 Share-VDE and Share Family periodic update (October 2021)
Activities	^	5 Share-VDE periodic update (November 2020) 6 Share-VDE achievements in 2019
Strands of work Working groups		Share-VDE and Share Family Summer and Autumn 2022 events
Members area	^	(September 2022)
Community work Share-VDE workshop How to		September and the coming autumn are continuing a rich set of conferences where Share-VDE and the wider Share Family community will contribute with presentations and speeches. As you might already know, on September 20 th – 21 st the BIBFRAME Workshop in Europe will take place in Budapest, with a pre-meeting on Monday 19 th specific to SVDE.
 Materials for wiki administrators 		After visiting Frankfurt, Florence and Stockholm, and two online editions, the 2022 workshop will be a free hybrid event, hosted by the National Széchényi Library. This year's focus will be on BIBFRAME in operation, new developments and interoperability.
Technical documentation	^	The aim of the BIBFRAME Workshop in Europe is to be a forum for sharing knowledge about planning, practice and production relating to BIBFRAME implementation. The intention is to bring together the community working or interested in the transition from MARC to Linked Data



https://wiki.share-vde.org/wiki/ShareFamily:NewsAndUpdates



Thank you



https://wiki.svde.org/ https://svde.org info@svde.org