

Library data, BIBFRAME and the Share Virtual Discovery Environment (SVDE)

Discovery Services Forum

September 15, 2022

Jackie Shieh



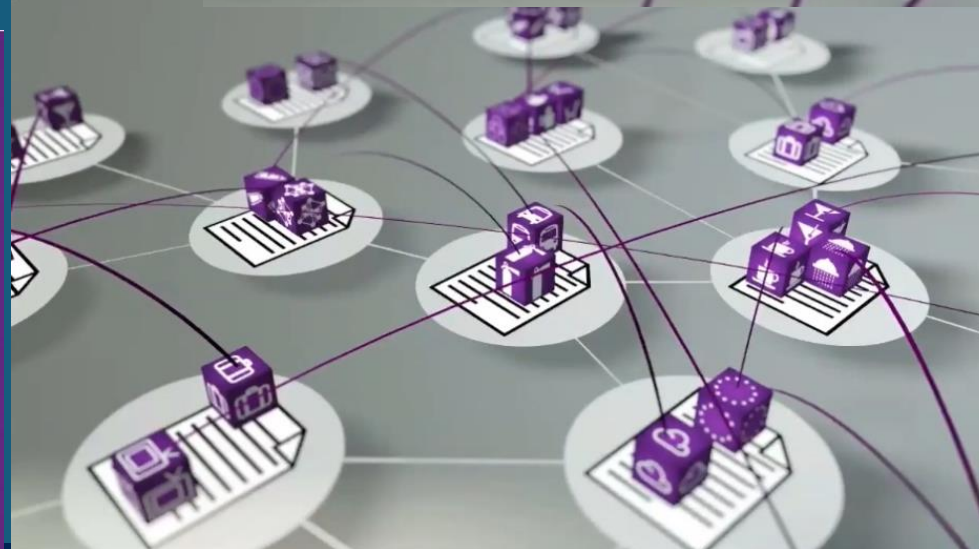
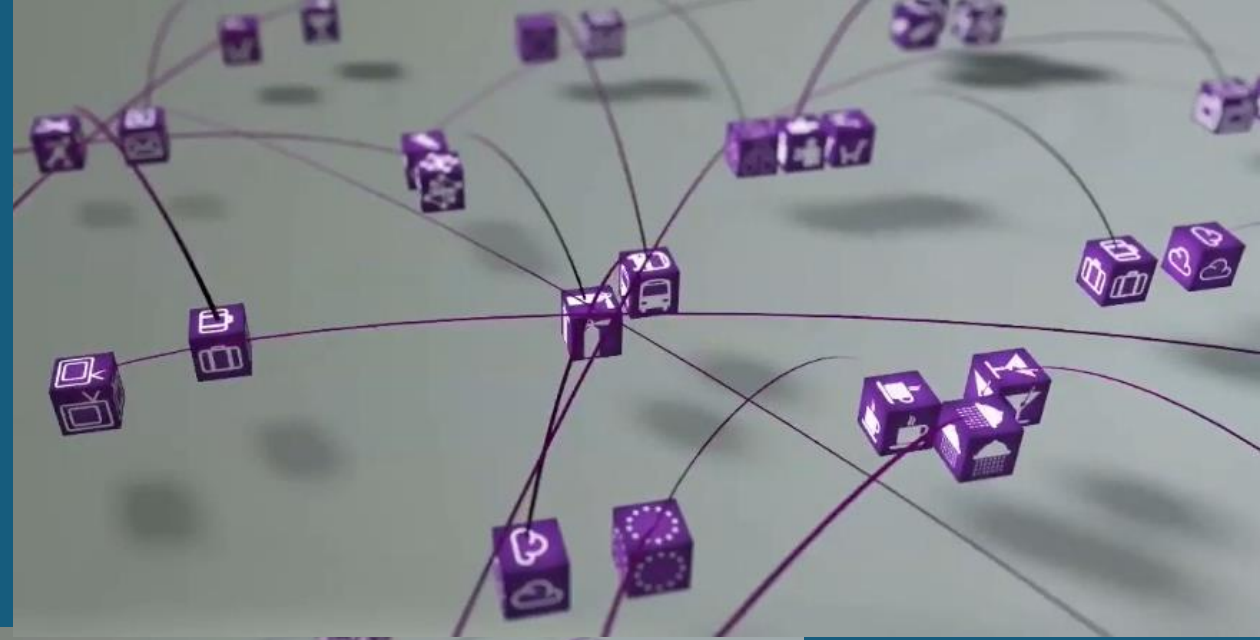
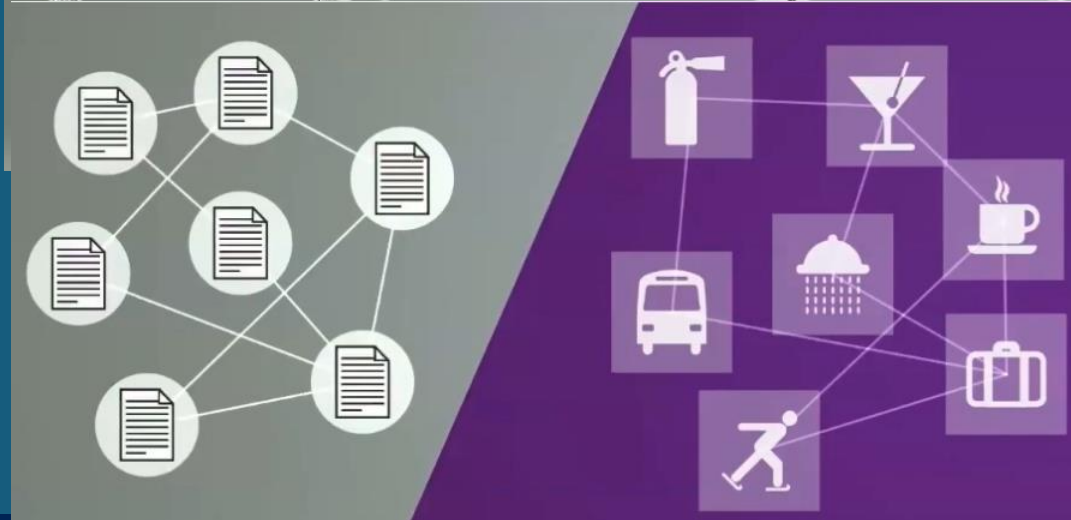
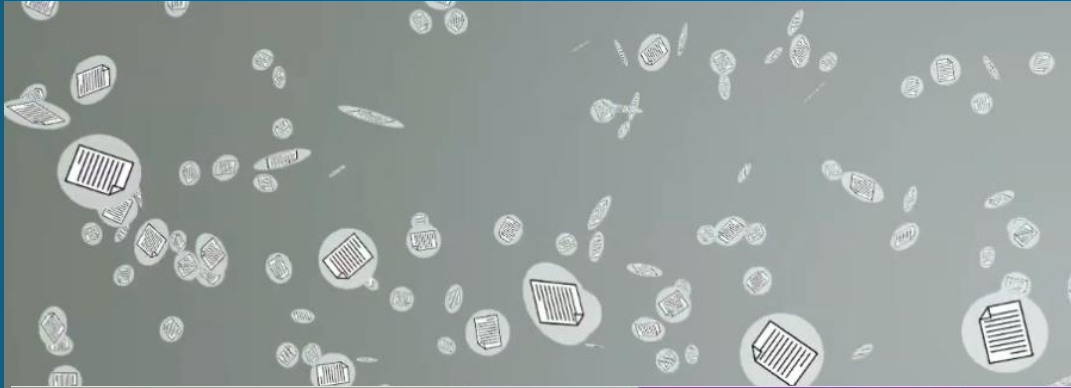
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Some linked data terms

- **RDF data** (Resource Description Framework)
= structured data = triple statements
(subject (item) + property (relationship) + object (value))
- **URI-- not URL**
- **Entity**
- **API** (application programming interface)



First things first



Images: [Linked Data](#)

Today's topics

- What is Share-Virtual Discovery Environment (SVDE)
- Organization structure of the SVDE project
- Overview of SVDE workflow and BF data models
- What SVDE offers SLA users
- SVDE next steps

Introducing SVDE



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Share-VDE (SVDE) is a **library-driven initiative** to publish library bibliographic and authority data **based on linked data** in a shared discovery environment.

This collaborative endeavor prompted by Casalini Libri, @Cult, PCC Libraries and the LD4P project.

SVDE is a **BIBFRAME node**, serving authoritative data that are **exchangeable** and **reusable**, facilitating **structured data** in supportive of tools developed by the cooperative community to **increase and disseminate knowledge**

<http://bit.ly/SVDE-Statement-2021>

SVDE— a collaborative initiative

<i>National libraries</i>
Library of Congress
National Library of Norway
National Library of Finland
Smithsonian Libraries and Archives
The British Library

Member libraries	LD4P cohort members
Duke University	Cornell University
New York University	Frick Art Reference Library
Stanford University	Harry Ransom Center Texas A&M
University of Alberta - NEOS consortium	Harvard University
University of Chicago	National Library of Medicine
University of Michigan at Ann Arbor	Northwestern University
University of Pennsylvania	Princeton University
Yale University	UC Davis
	UC San Diego
	University Colorado at Boulder
	University of Minnesota
	University of Texas A&M
	University of Washington

SVDE and linked data communities



- creates connections based on the focus areas of libraries' bibliographic data, enhancing and extending networks of information
- provides librarians and information professionals with advanced tools that allow direct interaction with bibliographic data
- enables libraries, archives and museums to keep pace with web technology as it evolves

SVDE Working Groups

- SVDE Advisory Council (AC)
 - SVDE-AC Authority/Identifier Management Services working group (AIMS)
 - SVDE-AC Cluster Knowledge Base Editor working group (CKB editor, *J.Cricket*)
 - SVDE-AC Sapiientia Entity Identification working group (SEI)
 - SVDE-AC User Experience/User Interface working group (UX-UI)
- Share Family National Bibliographies working group (NB)

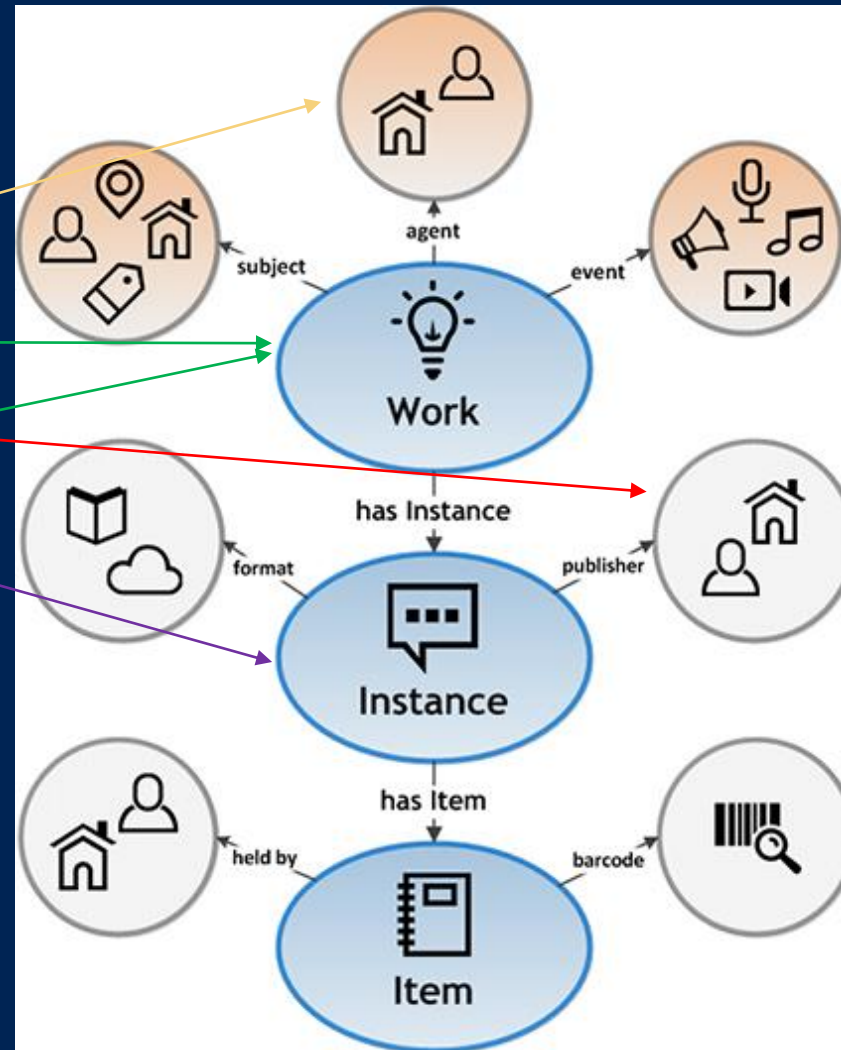
SVDE data flow and tech deck



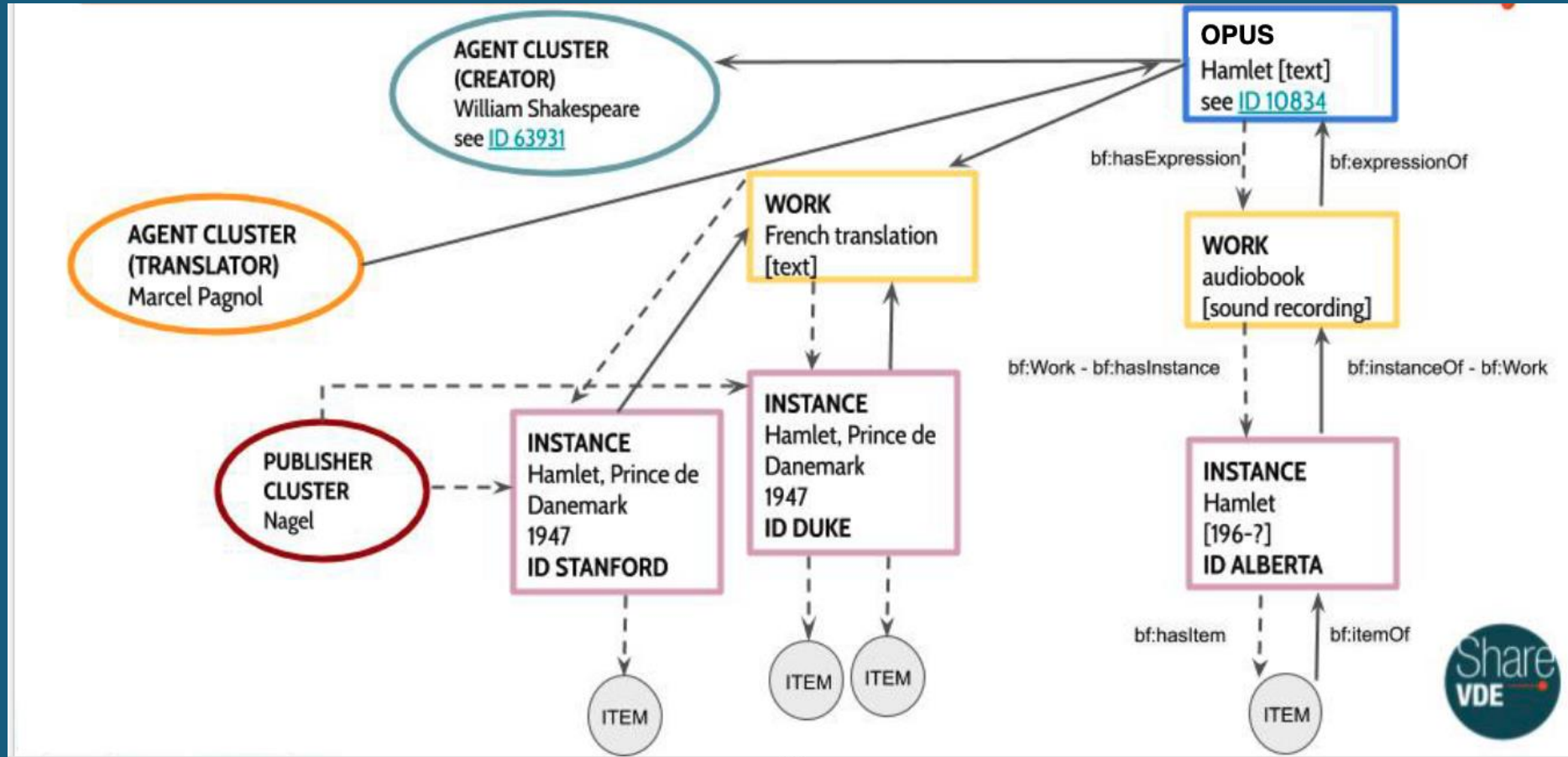
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BIBFRAME data model

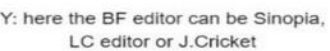
100: 1 \$a Walcott, Mary Vaux, \$d 1860-1940
 245: 10 \$a North American wild flowers, \$c by Mary Vaux Walcott.
 260: \$a Washington, D. C., \$b The Smithsonian institution, \$c 1925-
 300: \$a v. \$b illus. \$c 34 x 26 cm.
 500: \$a In portfolio.
 650: 0 \$a Flowers \$z North America.



BIBFRAME in SVDE



Last update 2019-11-20: http://bit.ly/SVDE_model_simplified





Users



Apps



Data



GraphQL

{ REST }

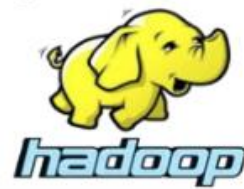
Search API

StructQL

SVDEQL

TermsQL

Data management



PostgreSQL



STARDOG



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SVDE data to date

- Person: 10,354,037
- Family: 46,345
- Organization: 5,417,588
- Conference: 667,827
- Original work: 30,691,541
- Work: 35,702,610
- Instance: 46,600,234
- Subject: 17,190,875
- Item: 3,491,93

Explore SVDE entity discovery portals

- SVDE for all: <https://svde.org>
- *SLA*: <https://smithsonian.svde.org>
- Stanford: <https://stanford.svde.org>
- U Alberta: <https://ualberta.svde.org>
- U Penn: <https://penn.svde.org>
- British Library: <https://bl.natbib-lod.org>
- LoC: <https://loc.svde.org/>
- N of Finland: <https://natlibfi.svde.org/>
- N of Norway: <https://nln.svde.org/>
- PCC libraries: <https://pcc-lod.org>

SVDE Entity Discovery Portal




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Entity portal design and more

- Simple entry page
- Advanced entity discovery system
- Customizable features for local UI skins
- Integration with local APIs
- Site mapping with additional meta-tagging

Simple search default configuration

 ShareVDE BETA

Search for people, original works and publications

e.g. *Jules Verne* or *Around the world in 80 days*

[Advanced search](#)

Explore the library data of the 20+ Share-VDE member libraries

[Learn more](#) [Options](#) ▼

 THE PCC CATALOG BETA

Search for people, original works and publications

e.g. *Jules Verne* or *Around the world in 80 days*

[Advanced search](#)

Explore the open pool of PCC-quality BIBFRAME data housed by the Share
Family initiative

[← Back to PCC](#) [Learn more](#) [Options](#) ▼

Search for people, original works and publications

Publications Original works People and organizations

e.g. "le vite vasari"



Language

Year

Type

Library

Electronic / print

[Advanced search](#)

Explore the library data of the four Kubikat libraries

[Learn more](#) [Options](#) ▼

Search for people, original works and publications

Publications Original works People and organizations

e.g. the hitchhiker's guide to the galaxy adams



Language

Year

Type

[Advanced search](#)

Explore linked open data for books and journals published or distributed in the United Kingdom and Ireland since 1950, and electronic publications since 2013

[← Back to British Library](#) [Learn more](#) [Options](#) ▼

Multilingualism

Person ⓘ

Shi Hu

Chinese philosopher, essayist and diplomat. Born in 1891 in Shanghai (China). Die Hu Shih (Chinese: 胡適; pinyin: Hú Shì; Wade-Giles: Hu2 Shih4; 17 December 1891 – 24 February 1962), al in early references, was a Chinese diplomat, essayist, literary scholar, philosopher, and politician. Hu is widel a key contributor to Chinese liberalism and language reform in his advocacy for the use of written vernacular influential in the May Fourth Movement, one of the leaders of China's New Culture Movement, was a presiden and in 1939 was nominated for a Nobel Prize in literature. He had a wide range of interests such as literature textual criticism, and pedagogy. He was also an influential redology scholar and held the famous Jiaxu manu: běn) for many years until his death. – Wikipedia

人士 ⓘ

胡适

1891年－1962年。中国学者，新文化运动的领袖之一

原名胡適。讀書時曾取名洪麟，又改為適、適之。一生用過筆名有：希遷、白鶴生、戴兄、冬心、感璋之主人、感璋等。中華民國作家。安徽績溪縣人，祖籍績溪縣上庄，生于上海浦东川沙。因提倡文学革命而成为新文化运动的领袖之一，曾任任国立北京大学校长、中央研究院院长、中华民国驻美大使、私立南开大学校董会董事长等职。胡适興趣廣泛，著述——維基百科

更多选项 ▾

胡适作品

关于胡适的作品

相关人士

相关事件

相关地点

搜索作品...

Q

格式

年份

更多筛选条件

24搜索结果

原始作品标题	类型/形式	作者	语言	格式	出版年份 ⓘ
① 胡适, 梁漱溟哲学思想批判	传记	① 艾思奇	中文	实体书	1977
② 胡适: 真實的為我	传记	① 白吉庵	中文	实体书, 电子书	2013
③ 胡适传	传记	① 白吉庵	中文	实体书	1987
④ Hu Shih and the Chinese renaissance	传记	① Jerome S. Grieder	英语	电子书	1970



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SLA, Linked Data, and SVDE

SLA catalog data and linked data

2019



2022



- Enhance AACR2 to RDA records
- Embed URIs in name and LCSH headings
- Convert LCSH to FAST Headings
- Embed URIs for <relator> codes
(e.g., author, illustrator, photographer, voice actor, woodcutter, etc.)

Why SVE

- Share-Family: library-based
- Cultural Heritage focus
- Collaborative development path
- Entity data model is library-centric authorities
- Web-based APIs to non-library sources
- Linking and managing entities
- Affordable (ca. 0.008 cent per record)

Search for people, original works and publications

e.g. *Jules Verne* or *Around the world in 80 days*

Advanced search

Explore the library data of the 20+ Share-VDE member libraries

[← Back to Smithsonian Libraries](#)

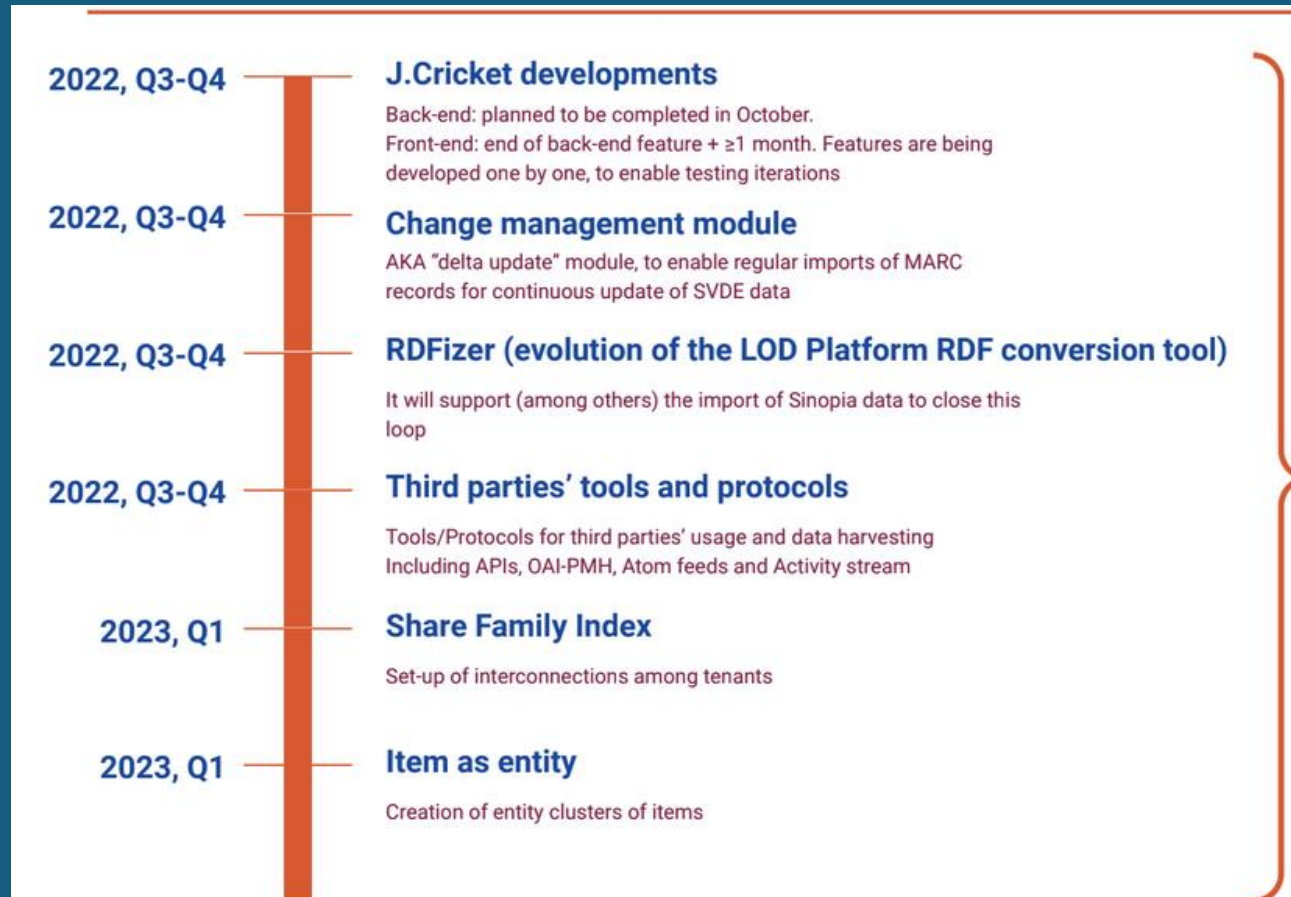
[Learn more](#)

Options ▾



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What next?



Continuous enhancements to
Entity Discovery Portal

Entity editor to interconnect

SHARE-VDE Search all content...

Person

William Goulding

British novelist, poet, playwright and Nobel Prize for Literature laureate

Sir William Gerald Goulding, CBE (19 September 1911 - 19 June 1993) was a British novelist, playwright, and poet. Best known for his debut novel *Lord of the Flies* (1954), he would go on to publish another eleven novels in his lifetime. In 1980, he was awarded the Booker Prize for *Rites of Passage*, the first novel in what became his sea trilogy, *To the Ends of ...* — [Wikipedia](#)

More options ▾

Original works by Original works about Related people

Filter... Location Language All filters

Publication title	Contributors	Language	Year
<input type="checkbox"/> Lord of the Flies	William Goulding	English	1954
<input checked="" type="checkbox"/> Pincher Martin, 1956 novel	William Goulding	English	1956
<input checked="" type="checkbox"/> Pincher Martin	William Goulding	English	1956

End of list

Click to add to merge list

2 original works selected View selected ▾ Deselect all Add relationship Merge Add to my merge list

SHARE-VDE Search all content...

2 original works merged

1 BF work affected

Merge summary

Destination	Attachments	Title	Contributors	Language	Year
Destination	18	Pincher Martin	William Goulding	English	1956
	0	Pincher Martin, 1956	William Goulding	English	1956

View destination original work

View graph on external site

This agent has been flagged for manual review

Name

William Goulding

Assign to me

From SVDE Discovery Entity Portal

The screenshot displays the SVDE Discovery Entity Portal interface. At the top, a table lists various publications related to '1Q84'. Below the table, a summary bar indicates '2 publications selected' and provides options to 'Show selected', 'Deselect all', 'Merge', and 'Add relationship'. A text box highlights 'Efficient staff workflows' with a list of features: 'Easy-to-use editing', 'Efficient keyboard shortcuts', and 'Designed from scratch for linked data'. At the bottom, a search filter overlay is visible, allowing users to search for a person by birth place, birth year, death year, and name.

<input type="checkbox"/>	1Q84 part three	1	Colin Marshall (translator)	English	Audiobook Available online
<input checked="" type="checkbox"/>	1Q84	1	Sumayyah Rocha (foreword)	English	Book Available at LKCRIL
<input checked="" type="checkbox"/>	1Q84 (Vintage International)			English	Book Available at LKCRIL
<input type="checkbox"/>	1Q84 (volumes 1,2,3)	1	Michael Casey (translator) & 6 more ~	English	Audiobook Available at LKCRIL
<input type="checkbox"/>	1Q84: 3 Volume Boxed Set (Vintage International)	1	Natalie Haines (editor)	English	Book Available at LKCRIL
<input type="checkbox"/>	1Q84: Books 1 & 2	1	Eugene Romero (illustrator)	English	Audiobook Available through ILL
<input type="checkbox"/>	1Q84 (Chinese Edition) 3 books	1	Daria Knowles (printer)	Chinese	Book Available through ILL
<input type="checkbox"/>	1Q84 Book 2 Vol. 1 of 2			Japanese	Book Available through ILL
<input type="checkbox"/>	1Q84 Book 1 Vol. 1 of 2 (Paperback)	1	Gill Hesson (illustrator)	Japanese	Book Unavailable

2 publications selected Show selected ▾

Deselect all Merge Add relationship

Efficient staff workflows
Merge, add and remove relationships between entities, create new entities and more.

- ✓ Easy-to-use editing
- ✓ Efficient keyboard shortcuts
- ✓ Designed from scratch for linked data

Search for a person for whom ▾ Simple search ^

birth place ▾	is ▾	Taipei ▾	X	and ▾	⌵ ⌶
birth year ▾	is in a range ▾	from: 1905	to: 1980	and ▾	⌵ ⌶
death year ▾	is in a range ▾	from: 1950	to: 2020	and ▾	⌵ ⌶
name ▾	contains the word ▾	John		and ▾	⌵ ⌶

 Search all content...

Name

 **Isaiah Thomas**

OCLC

VIAF

Wikidata

LC

GND

BNF


Other...

 VIAF ID match

Isaiah Thomas (or Isaiah Jamar Thomas)

American basketball player · Born 1989

[Q336030](#)

 Birth place map

Isaiah Thomas (or Isaiah Thomas, Sr. · I. Thomas · I. T. · T. I.)

Massachusetts printer, publisher and journalist · 1749-1831

[Q15503493](#)



Isaiah Thomas (or Isaiah Thomas, Jun. · I. Thomas, Jun.)

(1773-1819) · 1773-1819

[Q55322233](#)

Connected

+ Create new wikidata item for "John Doe" [↗](#)

Wikidata item Q336030

This Wikidata entity has a potential duplicate on Wikidata [Review for merge](#)

Isaiah Thomas

American basketball player
1954-2017

Sex or gender
Male

Country of citizenship
United States of America

Country for sport
United States of America

Birth name	Isaiah Jamar Thomas (English)
-------------------	-------------------------------

Date of birth
7 February 1989

Place of birth
Tacoma

Occupation
Basketball player

Position played on team / speciality
Point guard

Connect to this ID

Done

← →

Merge 2 wikidata items · Share-VDE

Share-VDE


Search all content...

Merge 2 wikidata items

QID

☒ Q336030
 ☐ Q48X487

Image



...

Country for sport

United States of America

—

...

Birth name

☒ Isaiah Jamar Thomas (English)
 ☐ Isaiah J. Thomas (English)

...

Given name

...

Given name

...

Family name

...

Participant in

...

Member of sports team

...

Member of sports team

...

Member of sports team

...

Member of sports team

...

Member of sports team

...

Member of sports team


...

Member of sports team

...

Cancel

Procced to preview



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← →

Merge 2 wikidata items · Share-VDE

Share-VDE

Search all content...

Merge 2 wikidata items

QID			
Image			
Country for sport			
Birth name			
Given name			
Given name			
Family name			
Participant in			
Member of sports team			
Member of sports team			
Member of sports team			
Member of sports team			
Member of sports team			
Member of sports team			

Edit wikidata property

Lorem ipsum

Dolor sit amet

Add qualifier

Add reference

Lorem ipsum

Dolor sit amet

Cancel

Publish changes on wikidata

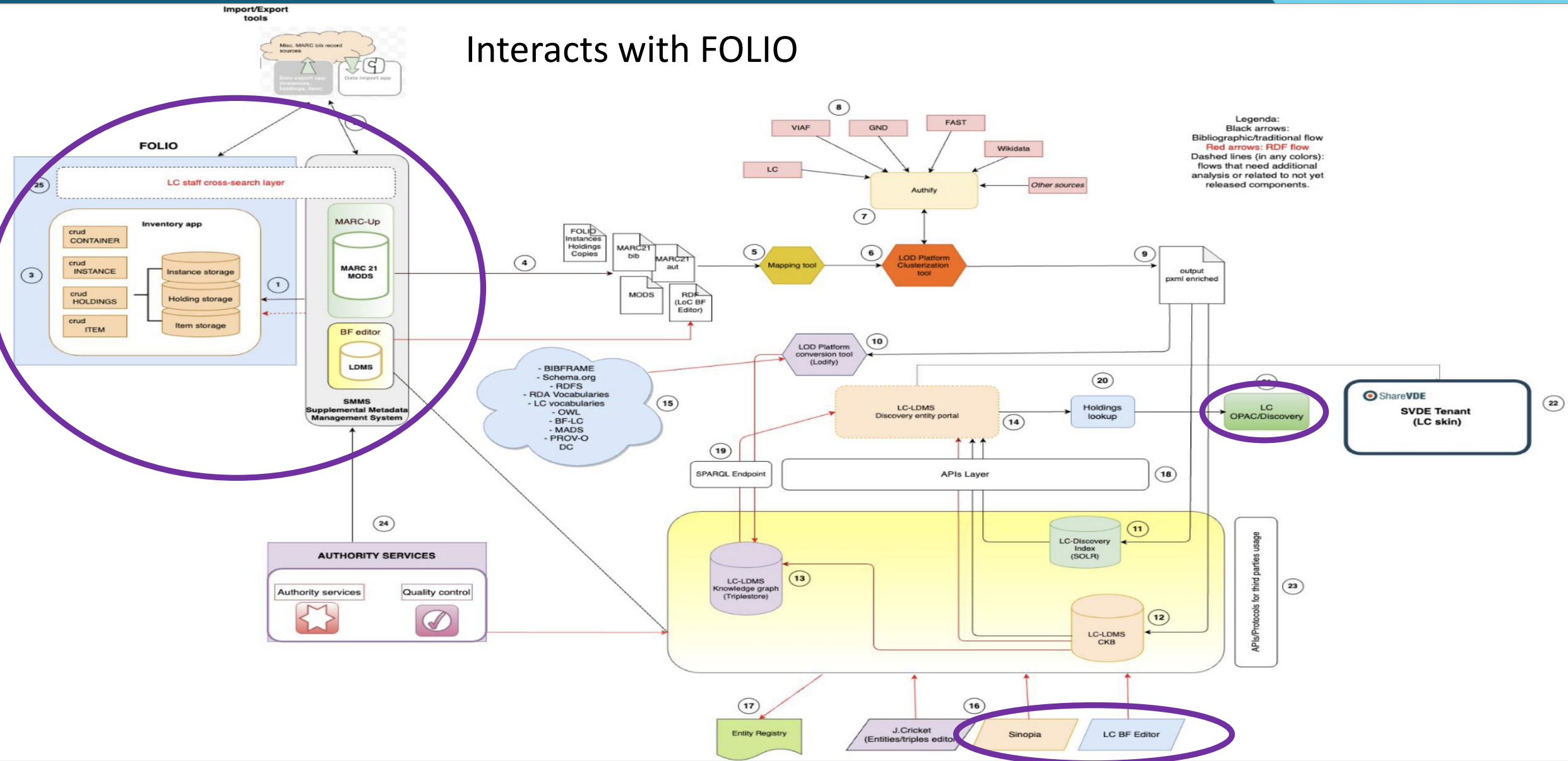
Cancel

Procced to preview

Features for resource sharing

- Use APIs to find available versions
- Streamline ILL options in SVDE discovery portal
- Avail delivery options based on data from participating institutions

Interacts with FOLIO



Would you help?

- AIMS: Authority/Identifier Management Services working group
- CKB editor: Cluster Knowledge Base Editor working group
- SEI: Sapiientia Entity Identification working group
- UX/UI: User Experience/User Interface working group

https://wiki.share-vde.org/wiki/ShareVDE:Members/Share-VDE_working_groups

September conferences on SVDE

- WOLFCon (Sep 2): SVDE and FOLIO

https://wiki.share-vde.org/w/images/9/92/WOLFcon_Possemato_2022-Sep-02.pdf

- Linked open data conference (Sep 13): SVDE Ecosystem

<https://www.kbr.be/en/agenda/linked-data-and-international-standards-for-cultural-heritage/>

- European BF 2022 (Sep 22): SVDE and BIBFRAME

(free: in person in Budapest and online)

<https://www.casalini.it/bfwe2022/>

Thank you!

Discovery Services Forum

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Jackie Shieh



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