

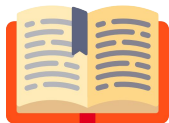


Bringing an interoperable model to collaborative research catalogues

Jio Institute International Workshop, April 9th 2021

Tiziana Possemato - @Cult - Casalini Libri
Michele Casalini - Casalini Libri

The story so far



Casalini Libri has a long tradition as supplier of publications and provider of bibliographic descriptions of resources



The workflow of cataloguing services has been based for decades on MARC, the major bibliographic standard in use in the library domain



The Semantic Web imposed a change in library practices, i.e. in the way libraries manage and share their catalogue records



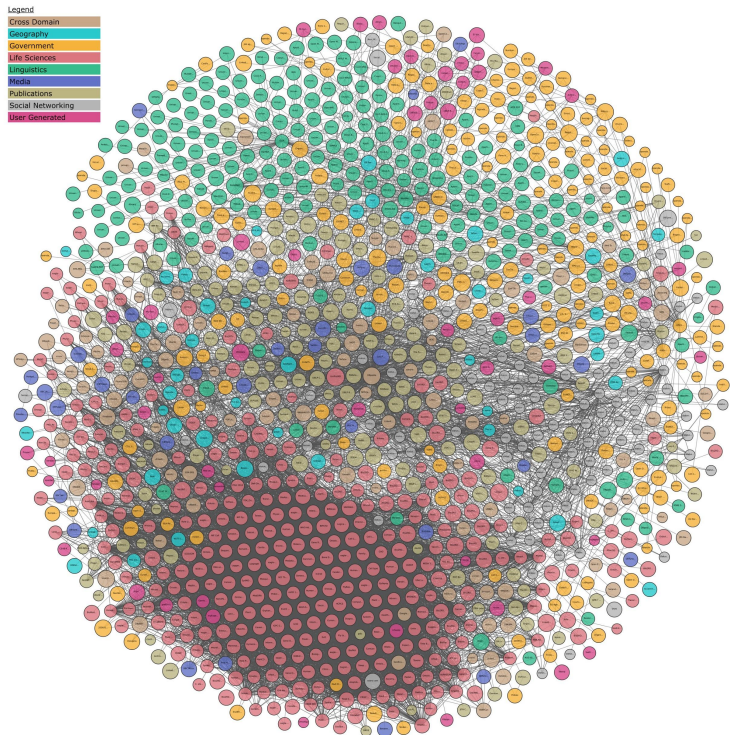
Share-VDE was initiated to support libraries in adapting their workflows to the new Web standards

Linked data: what it is and why we need it

In 2006 **Tim Berners-Lee** described linked data:

The Semantic Web isn't just about putting data on the web. It is about making links, so that a person or machine can explore the web of data. With linked data, when you have some of it, you can find other, related, data¹

¹[Linked Data - Design Issues](#)

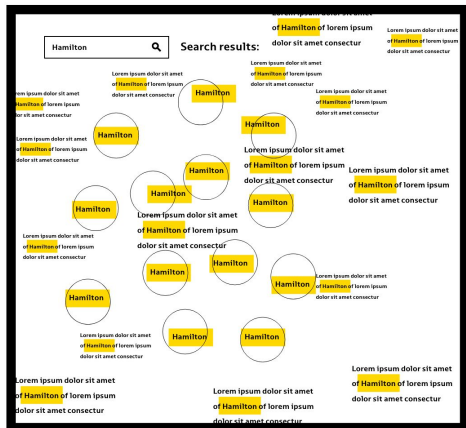


This Linked Open Data Cloud from [datacloud.net](#)

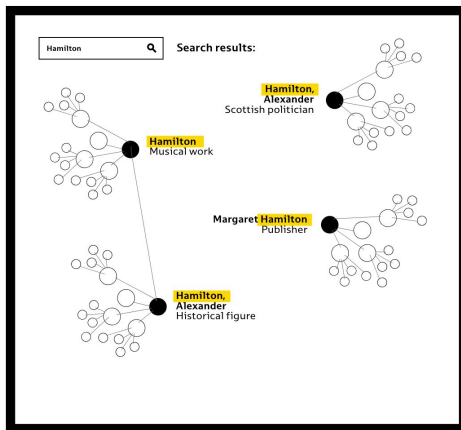


Linked data: what it is and why we need it

Without linked data



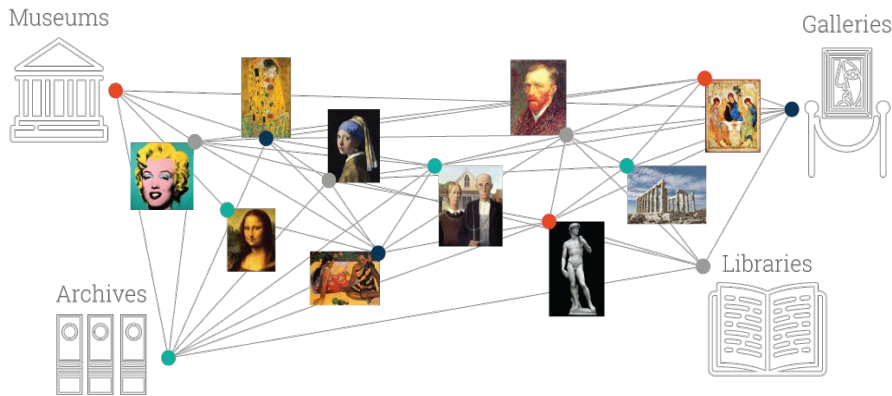
With linked data



In a nutshell:

- data carry information
- LD creates relations and connections between data
- this is the way data can be managed in the internet
- connections facilitate use of data and knowledge for everyone

Structured information and interconnections



Source: [Linked Open Data for Cultural Heritage](#)

We want to apply to library catalogues the same data structure and standards used by the web

The library community is adopting LD solutions to support visibility of their catalogues

Catalogues of libraries, museums, archives etc. can be connected, and resources are related to each other

Share-VDE in a nutshell

Since 2016, Share-VDE has carried on **R&D work** to facilitate libraries in the transition from MARC-based cataloguing to linked data

this expanded over time from a pilot project to **Share-VDE and the Share family** of initiatives

<https://wiki.share-vde.org>

<https://www.share-vde.org>

A cooperative initiative

Share-VDE is a collaborative endeavour based on the needs of libraries, developed and supported by:



the joint effort of the **Share-VDE Advisory Council** and of the **Working Groups**;



Casalini Libri, provider of bibliographic and authority data as member of the Program for Cooperative Cataloguing;



@Cult, provider of ILS, Discovery tools and Semantic web solutions for the cultural heritage sector;



the vision of **Linked Data for Production initiative** with special endorsement of **Stanford**;



with input and active participation from an **international group of research libraries**.



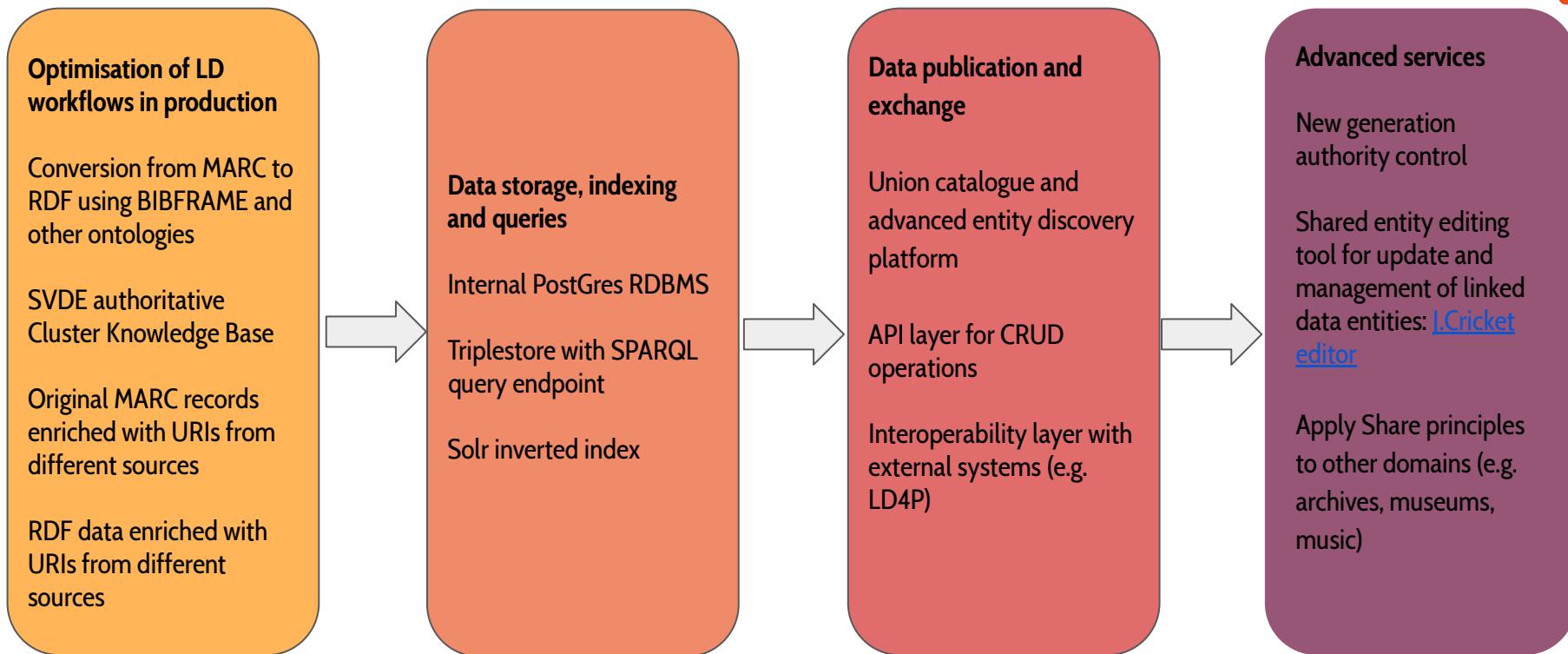
The Share family map around the world



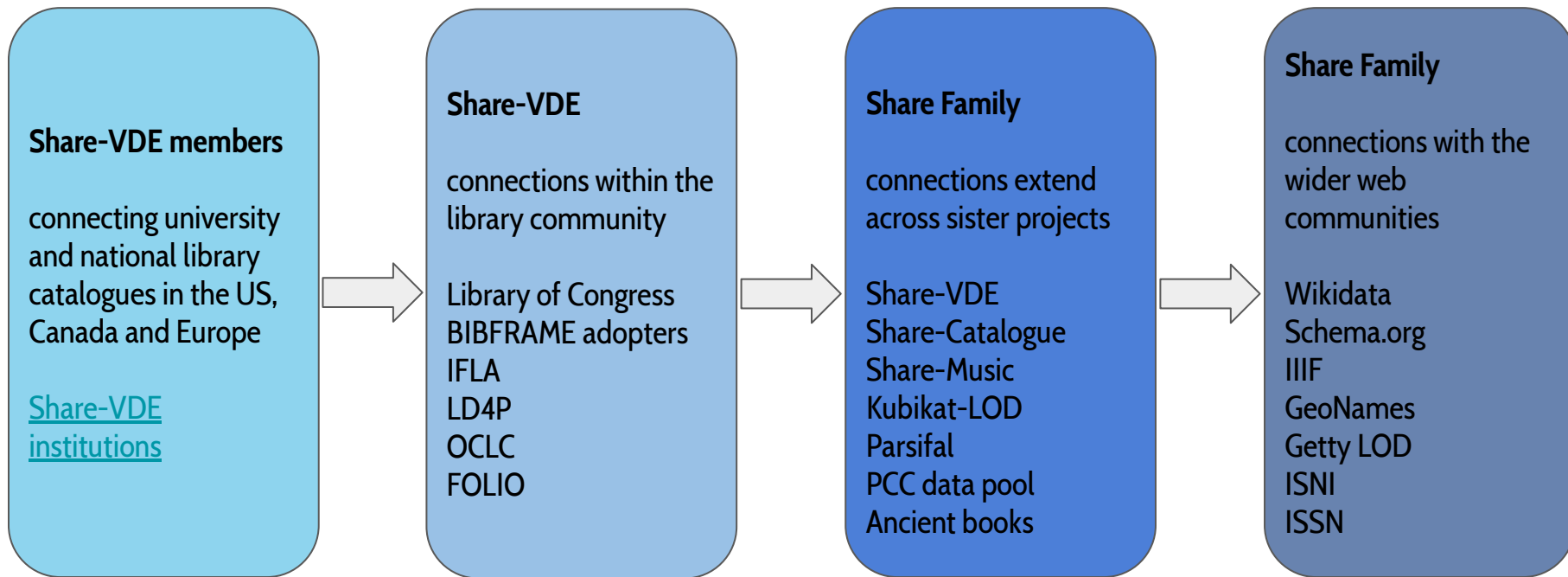
Share-VDE: over 20 university and national libraries in the US, Canada and Europe

8 Share family: connected projects in other communities [Share-Catalogue](#), [Kubikat-LOD](#)

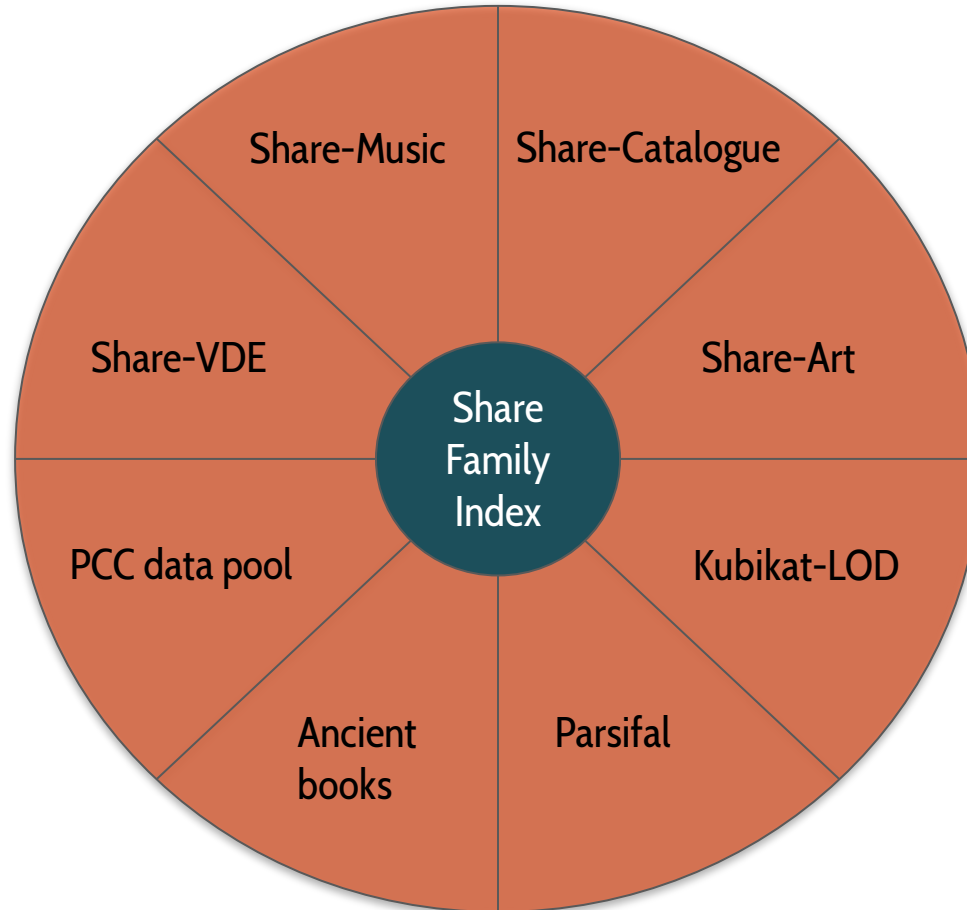
The evolution over time: towards Share-VDE 2.0



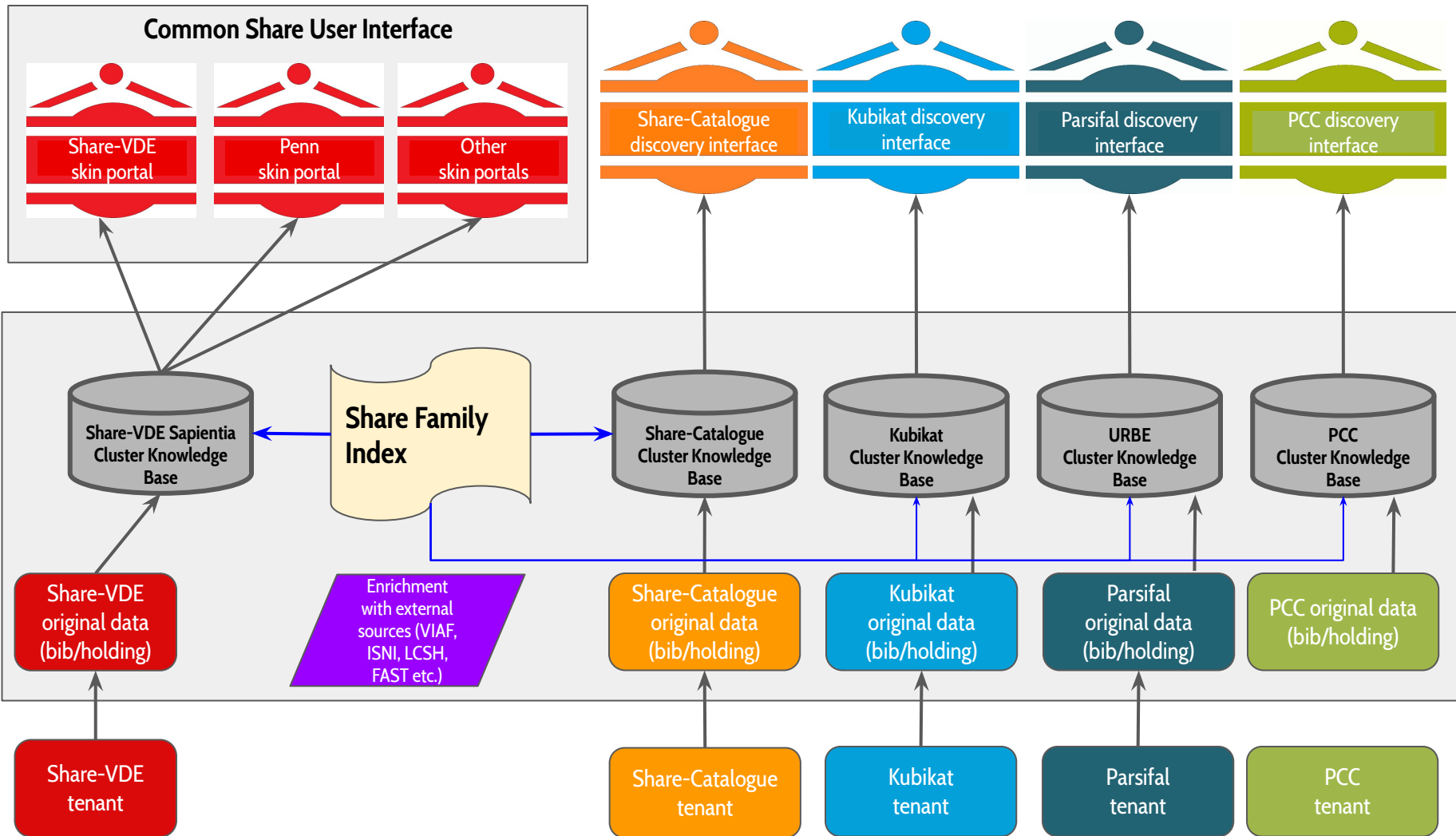
The diffusion in the worldwide communities




Participation and autonomy in the Share Family




Common Share User Interface





**A collaborative
community can
produce a gravitational
wave of energy that
expands...**



**... and meets other
communities, with
other energy to Share**

Community engagement: SVDE working groups



Libraries members of SVDE working groups constantly contribute with their Subject Matter Experts to requirements gathering, analysis and feedback to developments



UNIVERSITY OF ALBERTA
LIBRARY

Yale



Stanford
University



University
of Colorado
Boulder



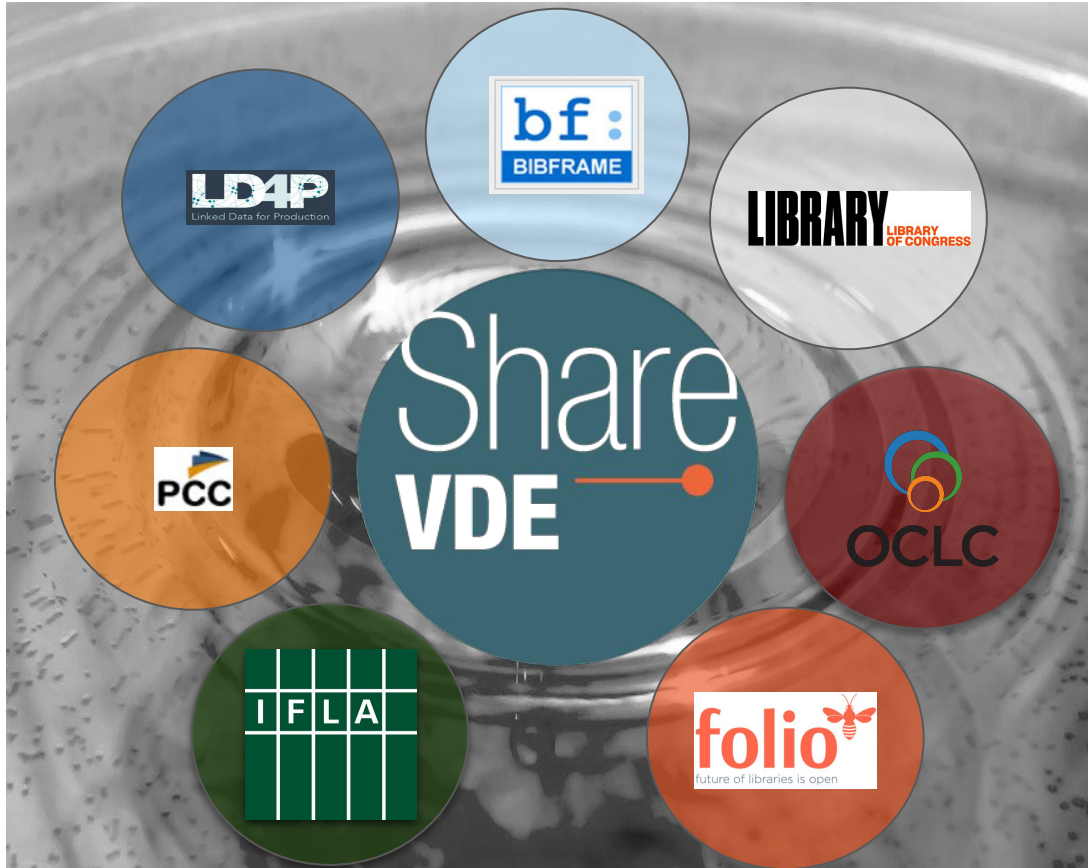
HARVARD
UNIVERSITY



THE UNIVERSITY OF
CHICAGO



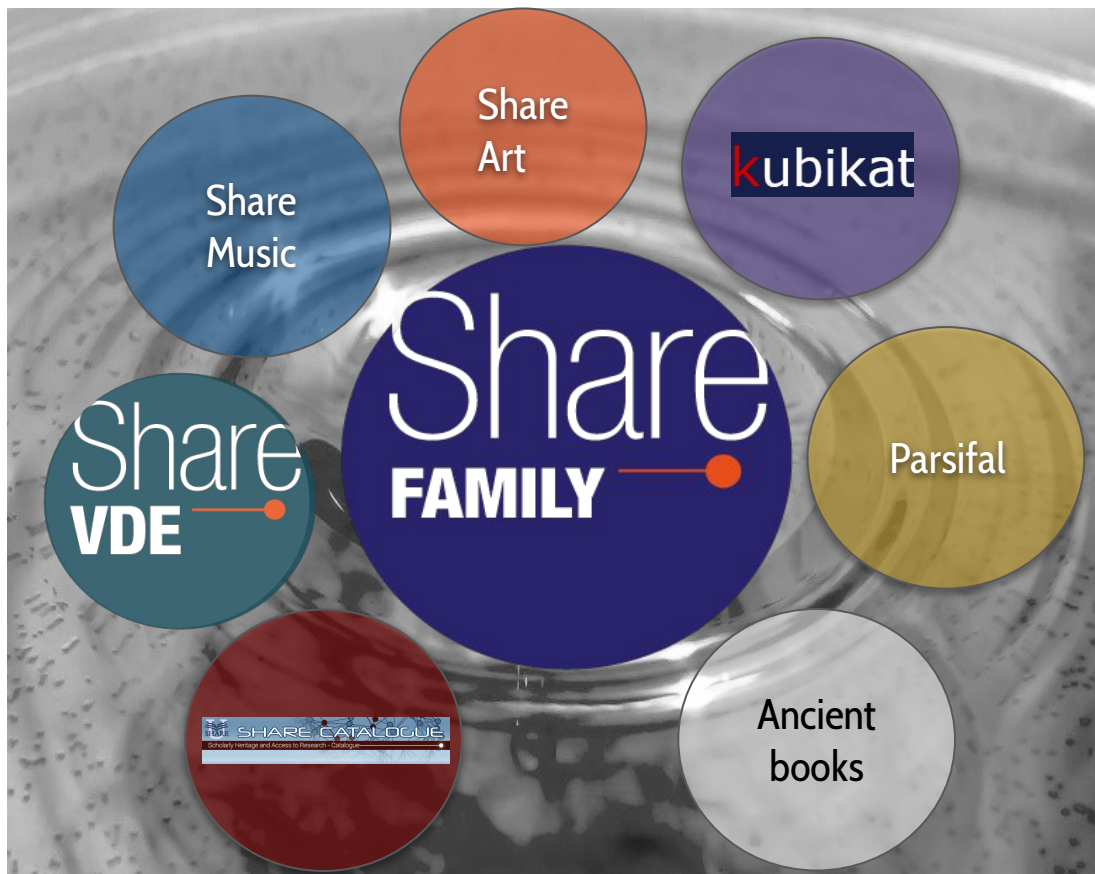
Community engagement: library community



Extended community: collaboration with heterogeneous initiatives and institutions in the library domain

Scientific value: sharing of data and services in different technological environments and diverse bibliographical and cultural context

Community engagement: SVDE sister projects



Homogeneous community: collaboration with projects and institutions applying the Share-VDE principles and technologies

Scientific value: shared vision whereby each initiative contributes with tools and practices that benefit everyone



Community engagement: World Wide Web



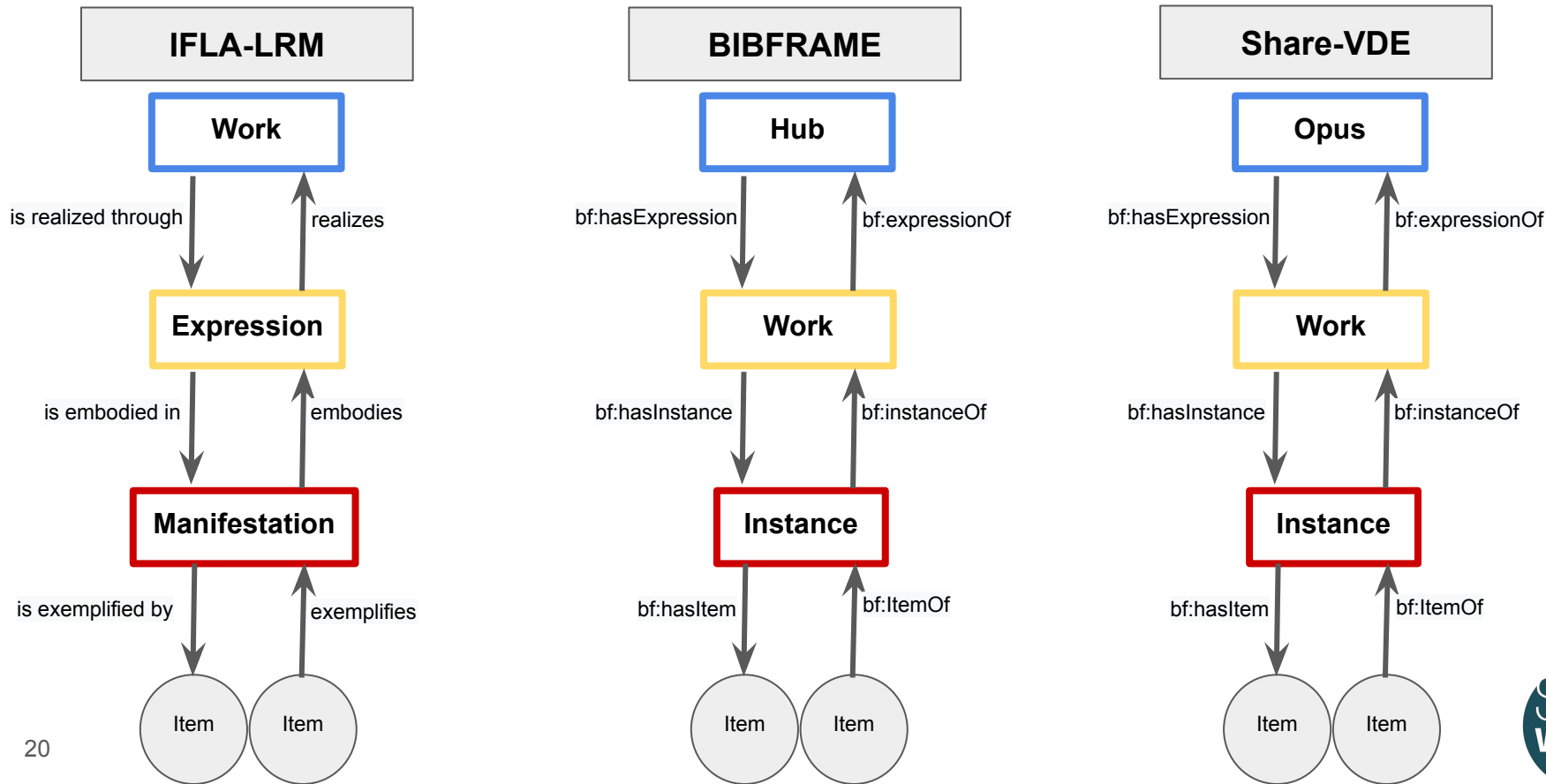
Mixed community:
cross-domain cooperation
across the Web community

Scientific value: same
solutions serve scopes of
different communities, data
reuse

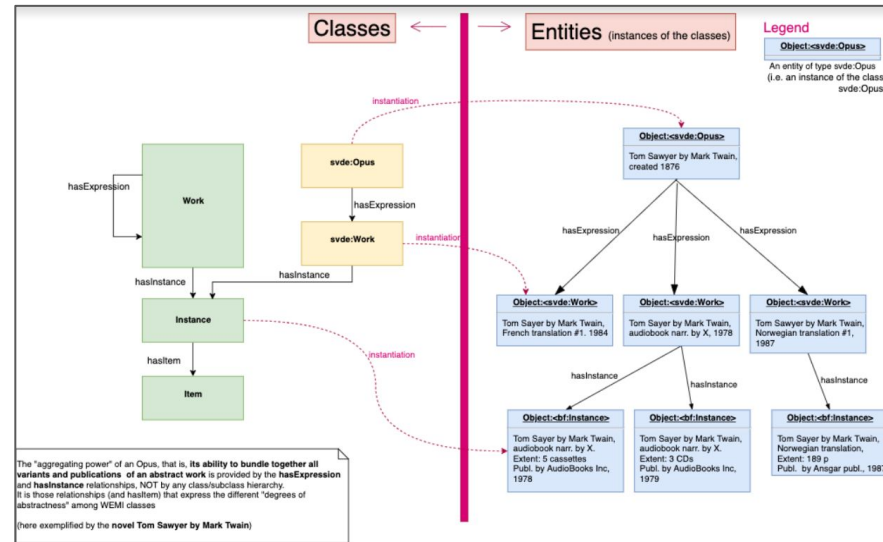
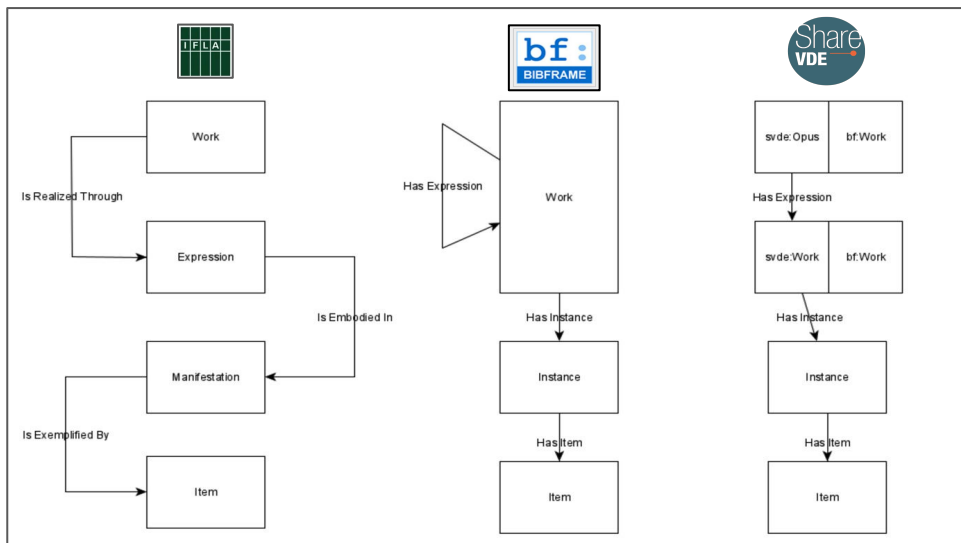
Real examples of cooperation



Entity models harmonisation



Facilitate interoperability between entity models



Participation in LD4P3: the challenge of **data models interoperability** between SVDE and Sinopia

See the [SVDE entity model compared to BF and LRM](#) and an [example of application of the model](#)

New Authority Services generation



Cooperation and autonomy

Kubikat search results for "belting bagdad". The interface shows a search bar with the query "belting bagdad" and a search button. Below the search bar, there are tabs for "All results", "Original works", "People", and "External results". The "All results" tab is selected, showing 2 results for the query. The first result is a book titled "Florence and Baghdad" by Hans Belting, published in 2008. The second result is a 2014 review by Thomas Giesecke. Below the search results, there is a section for "Matches for either 'belting' or 'bagdad'" showing 621 results. The first result is an article titled "The movement and the experience of 'iconic presence': An Introduction" by Hans Belting, published in 2019. The second result is a physical book titled "Faces: eine Geschichte des Gesichts" by Hans Belting, published in 2013.

Penn Libraries Catalog entry for William Shakespeare's *Hamlet*. The entry shows the title "Hamlet" and the author "William Shakespeare". It includes a description of the play and a link to the full text. The entry also shows the availability of the work in the library's collection.

SVDE localisation for the
University of Pennsylvania

API integration with other projects



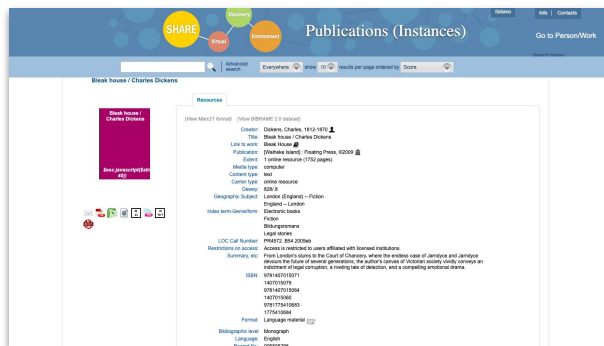
Schema.org and web technologies

Three main tasks

Public User Interface
(HTML)

Schema.org Structured Data
(Embedded in HTML)

Linked Open Data Source
(Direct URI Requests)



```
<div class="book">
  <nlb-footer></nlb-footer>
</div>
<script type="application/ld+json">{
  "@graph": [ {
    "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/3FuAzwPQ",
    "@type": "schema:DefinedTerm",
    "schema:name": "Fiction."
  }, {
    "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/3JTQRQPG",
    "@type": "schema:DefinedTerm",
    "schema:name": "Women executives"
  }, {
    "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/LD-DFMLe",
    "@type": [ "schema:Product", "schema:CreativeWork" ],
    "schema:name": "Habit of a foreign sky /"
  }, {
    "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/X00cGnPO",
    "@type": "schema:DefinedTerm",
    "schema:name": "Chinese American women"
  }, {
    "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/mvOPU5Vh",
    "@type": "schema:Book",
    "schema:about": [ {
      "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/X00cGnPO"
    } ],
    "schema:creator": {
      "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/ngMon45"
    },
    "schema:genre": {
      "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/3FuAzwPQ"
    },
    "schema:inLanguage": "eng",
    "schema:name": "Habit of a foreign sky /"
  } ]
}
```

```
@prefix schema: <http://schema.org/> .

<http://bibframe.example.org/4507628#item050-11> a schema:Book,
  schema:CreativeWork,
  schema:IndividualProduct ;
  schema:about <http://bibframe.example.org/4507628#Topic650-19>,
    <http://bibframe.example.org/4507628#Topic650-20>,
    <http://bibframe.example.org/4507628#Topic650-21> ;
  schema:author <http://id.loc.gov/authorities/names/n92049003> ;
  schema:contributor <http://id.loc.gov/authorities/names/n91071805> ;
  schema:description "A clever mouse uses the threat of a terrifying creature to keep from bei
  schema:exampleOfWork <http://bibframe.example.org/4507628#Instance> ;
  schema:inLanguage "eng" ;
  schema:name "The gruffalo" ;
  schema:sdDatePublished "2021-03-09" ;
  schema:sdLicense <https://creativecommons.org/publicdomain/zero/1.0/> ;
  schema:sdPublisher <https://bibframe2schema.org> ;
  schema:sku "P28.3.D7235 Gr 1999" .

<http://bibframe.example.org/4507628#Work> a schema:Book,
  schema:CreativeWork ;
  schema:about <http://bibframe.example.org/4507628#Topic650-19>,
    <http://bibframe.example.org/4507628#Topic650-20>,
    <http://bibframe.example.org/4507628#Topic650-21> ;
  schema:author <http://id.loc.gov/authorities/names/n92049003> ;
  schema:contributor <http://id.loc.gov/authorities/names/n91071805> ;
```

Google



sitemap.xml

Triplestore



How J.Cricket interacts with Wikidata

← →

Connect external IDs · Share-VDE

Share-VDE

Search all content...

Connect to external IDs

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 match

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

26

Done

Share-VDE 2.0: Entity discovery system

Work page

Staff view, English

The screenshot shows the 'Work page' for the entity 'IQ84' in the Staff view, English language. The page header includes the title 'Work page' and 'Staff view, English'. Below the header, there is a search bar and a list of publications. The main content area displays the book cover for 'IQ84' by Haruki Murakami, along with a description: '2009 science fiction novel by Haruki Murakami. IQ84 is a dystopian novel written by Japanese writer Haruki Murakami, first published in three volumes in Japan in 2009-10. It covers a fictionalized year of 1984 in parallel with a "real" one. The novel is a story of how a woman named Aomame begins to notice strange changes occurring in the world. She is quickly caught up in a plot involving Sakigake, a religious cult, and her...'.

Below the description, there are tabs for 'Library-held publications of IQ84', 'Related works', 'Related people', and 'Related subjects'. The 'Library-held publications of IQ84' tab is selected, showing a list of 46 results. The results are displayed in a table with columns for Publication title, Contributor, Language, Format, and Availability.

Publication title	Contributor	Language	Format	Availability
<input type="checkbox"/> IQ84 part one	Jay Rubin (translator) & 1 more	English	E-book	Available online
<input type="checkbox"/> IQ84 part two	Natalie Haines (illustrator)	English	E-book	Available online
<input type="checkbox"/> IQ84 part three	Leon Marriott (translator)	English	Audiobook	Available online
<input checked="" type="checkbox"/> IQ84	Sumayyah Rocha (foreword)	English	Book	Available at LKCR
<input checked="" type="checkbox"/> IQ84 (Vintage International)		English	Book	Available at LKCR
<input type="checkbox"/> IQ84 (Volumes 1,2,3)	Michael Casey (translator) & 6 more	English	Audiobook	Available at LKCR

The screenshot shows the 'Work page' for the entity 'IQ84' in the Staff view, English language. The page header includes the title 'Work page' and 'Staff view, English'. Below the header, there is a search bar and a list of publications. The main content area displays the book cover for 'IQ84' by Haruki Murakami, along with a description: '2009 science fiction novel by Haruki Murakami. IQ84 is a dystopian novel written by Japanese writer Haruki Murakami, first published in three volumes in Japan in 2009-10. It covers a fictionalized year of 1984 in parallel with a "real" one. The novel is a story of how a woman named Aomame begins to notice strange changes occurring in the world. She is quickly caught up in a plot involving Sakigake, a religious cult, and her...'.

Below the description, there are tabs for 'Library-held publications of IQ84', 'Related works', 'Related people', and 'Related subjects'. The 'Library-held publications of IQ84' tab is selected, showing a list of 46 results. The results are displayed in a table with columns for Publication title, Contributor, Language, Format, and Availability.

Publication title	Contributor	Language	Format	Availability
<input type="checkbox"/> IQ84 part one	Jay Rubin (translator) & 1 more	English	E-book	Available online
<input type="checkbox"/> IQ84 part two	Natalie Haines (illustrator)	English	E-book	Available online
<input type="checkbox"/> IQ84 part three	Leon Marriott (translator)	English	Audiobook	Available online
<input checked="" type="checkbox"/> IQ84	Sumayyah Rocha (foreword)	English	Book	Available at LKCR
<input checked="" type="checkbox"/> IQ84 (Vintage International)		English	Book	Available at LKCR
<input type="checkbox"/> IQ84 (Volumes 1,2,3)	Michael Casey (translator) & 6 more	English	Audiobook	Available at LKCR

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

Share-VDE 2.0: Agent entity

Agent page

Patron view, English

The screenshot shows a web browser window displaying the NLB Discover Agent page for Hu Shih. The page is titled "Agent page" and "Patron view, English". It features a profile picture of Hu Shih, a bio, and a list of works. The bio states: "1891-1962. Chinese philosopher, essayist and diplomat. Hu Shih, also known as Hu Suh in early references, was a famous thinker, Chinese philosopher, essayist and diplomat. Hu is widely recognized today as a key contributor to Chinese liberalism and language reform in his advocacy for the use of written vernacular Chinese. He was influential in the May Fourth Movement, one of the leaders of China's New Culture Movement, was a... — Wikipedia". The works list is titled "Works about Hu Shih" and shows 6 results. The table below contains the data from the works list.

Original Work title	Genre/form	Creator	Language	Format	Year
胡适, 梁漱溟哲学思想批判	Biography	1 艾 斯 琪	Chinese	Physical book	1977
胡适: 真实的自我	Biography	2 白 吉 庵	Chinese	Physical book, ebook	2013
胡适传	Biography	2 白 吉 庵	Chinese	Physical book	1987
Hu Shih and the Chinese renaissance	Biography	2 Jerome B. Grieder	English	Ebook	1970
何处寻你: 胡适的恋人及友人	Biography	3 蔡 登 山	Chinese	Physical book, audiobook	2011
疑古思潮与白话文学史的建構: 胡适与顾颉刚	Biography	3 陳 岸 峰	Chinese	Ebook	2011

Share-VDE 2.0: Agent entity

View list of aliases and foreign names for this person

Copy URI for this page

<https://discover.nlm.gov.sg/16516548> [Copy](#)

Download the page in these formats

- .mrc
- PDF
- XML
- Excel
- JSON
- RDF

More information related to this work on other websites

- [Library of Congress](#)
- [VIAF](#)
- [Wikidata](#)
- [Worldcat Identity](#)

☐ Book (17)

☐ Physical book (1)

☐ E-book (12)

☐ Audiobook (17)


☐ Recording (10)

☐ Videos (10)

☐ Sheet music (5)

Start year End year

1969 2017



Show columns

- ☒ Title
- ☒ Genre
- ☒ Creator
- ☒ Language
- ☒ Format
- ☒ Year

☒ English

Malay

தமிழ்

中文

繁體中文

Person

Hu Shih

1891-1962. Chinese philosopher, essayist and diplomat.

Hu Shih, also known as Hu Suh in early references, was a famous thinker, Chinese philosopher, essayist and diplomat. Hu is widely recognized today as a key contributor to Chinese liberalism and language reform in his advocacy for the use of written... — Wikipedia

Works by Works about Related people

- 胡適, 皇世綱與葛思德東方圖書館
Biography · 皇世綱 · 1978
- 胡適與蔣介石
Biography · 陳漱渝, 宋娜 · 2011
- 宁鸣而死, 不默而生: 陈漱渝讲胡适
Biography · 陈漱渝 · 1987
- 大學時代給胡適的信
Biography · 陳之藩, 胡適 · 2005
- 思想時代: 陈寅恪, 胡適及其他
Biography · 程果父 · 2013

NLB DISCOVER →

Multi-lingual at its core

The system has been built from the ground up to work for a global audience.

- ✓ Multiple languages
- ✓ Multiple scripts

Entity knowledge panel

Easy to customize and embed on other websites

- ✓ Embeddable
- ✓ Customizable
- ✓ Easy to use

Share-VDE 2.0: multilingualism

Agent page

Patron view, Simplified Chinese

胡适

1891年—1962年。中国学者，新文化运动的领袖之一。

原名嗣晖，留学时曾取名河村，又改为适、適之。一生用笔名有：希圣、白哲生、戴笠、冬心、适庵之主人、钝庵等。中国民国作家、安徽绩溪县人，祖籍绩溪县上庄，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。曾任驻国立北京大学校长、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等职。胡适研究领域，著述——信息百科

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: 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
胡适, 梁漱溟哲学思想批判	传记	艾思奇	中文	实体书	1977
胡适: 真实的画像	传记	白哲庵	中文	实体书, 电子书	2013
胡适传	传记	白哲庵	中文	实体书	1997
Hu Shih and the Chinese renaissance	传记	Jerome S. Grieder	英语	电子书	1970
钱穆与胡适: 胡适的恋人及友人	传记	蔡耀山	中文	实体书, 有声书	2011
胡适与白话文学史的发展: 胡适与胡适	传记	陈世英	中文	电子书	2011
胡适, 董世英与董世英东方图书馆	传记	董世英	中文	实体书	1978
胡适与蒋介石	传记	蔡耀山, 宋娜	中文	实体书, 电子书	2017
宁鸣而死, 不获而生: 梁漱溟胡适	传记	蔡耀山	中文	实体书	1997
大时代中的胡适	传记	陈之藩, 胡适	中文	实体书, 有声书	2006
民国时代: 蔡耀山, 胡适及其他	传记	蔡耀山	中文	实体书, 有声书	2013
余英时: 胡适	传记	江英时	中文	实体书	2011



**No one can face on
their own
the challenges of this
global revolution**



Thank you!

tiziana.possemato@atcult.it

michele@casalini.it

<https://wiki.share-vde.org>