



Linked Data in FOLIO: From Models to Workflows



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A decade of developments

2015-2016

- **ALIADA**
- **BIBFRAME update Forum** at ALA Midwinter in Boston
- **Share catalogue** online (universities from southern Italy)
- **Share-VDE** prototype

2017-2019

- **Share-VDE** and **LD4P** members' data converted from MARC21 to BIBFRAME

2019-2021

- **Share-VDE** – virtual discovery environment for library linked open data
- **Share Family** embraces all LOD Platform initiatives

2021-2023

- Ongoing **PCC** data pool
- **Share-VDE 2.0**
- Ongoing **NatBib** working group and shared discovery environment
- **Share Family** towards production

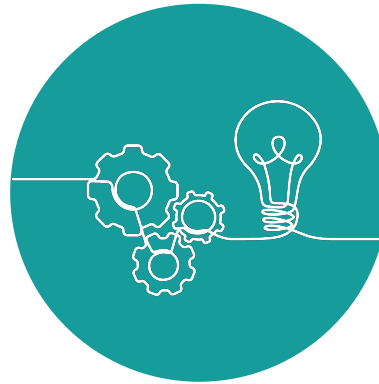
2023-2025

- **British National Bibliography** in linked open data (beta version)
- **Parsifal** and **LILLIT** shared discovery environments launch
- **JCricket** collaborative cataloguing editor
- **LOD Platform** version 3

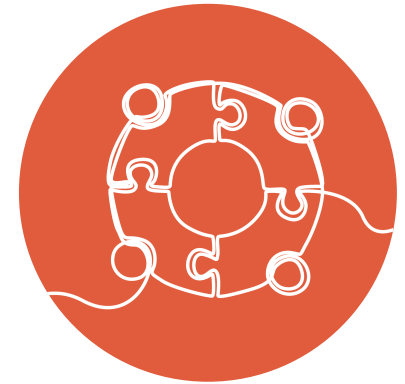
Developed and driven by libraries, for libraries



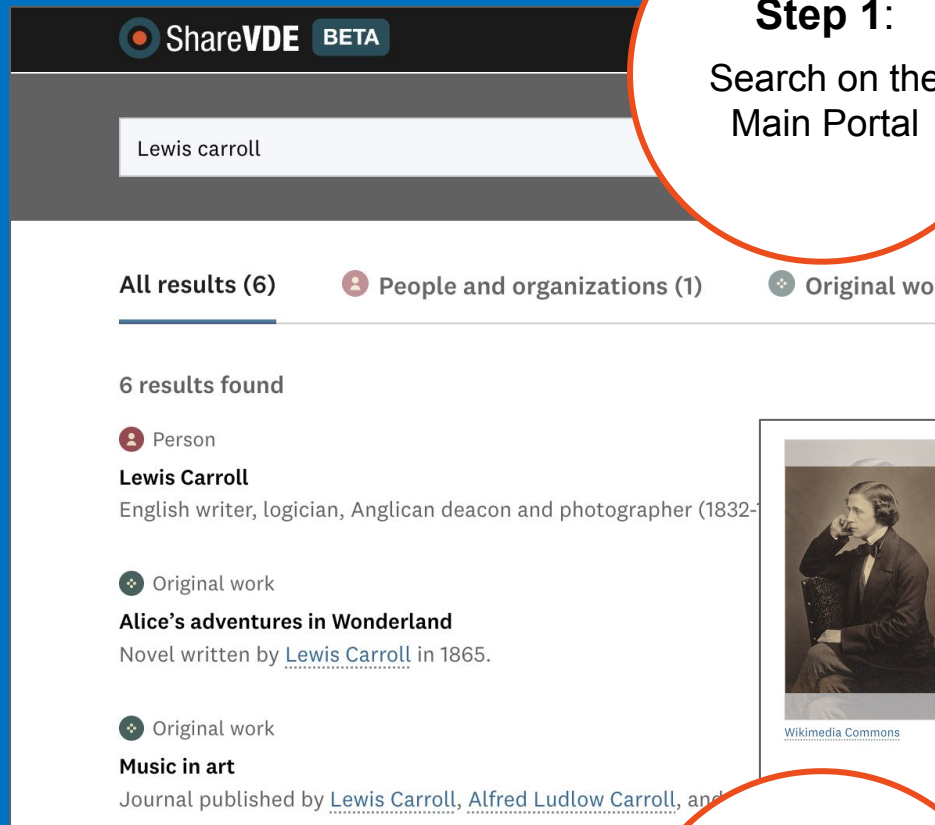
Governed and steered by the **Share Family Advisory Council**, made up of representatives from member institutions.



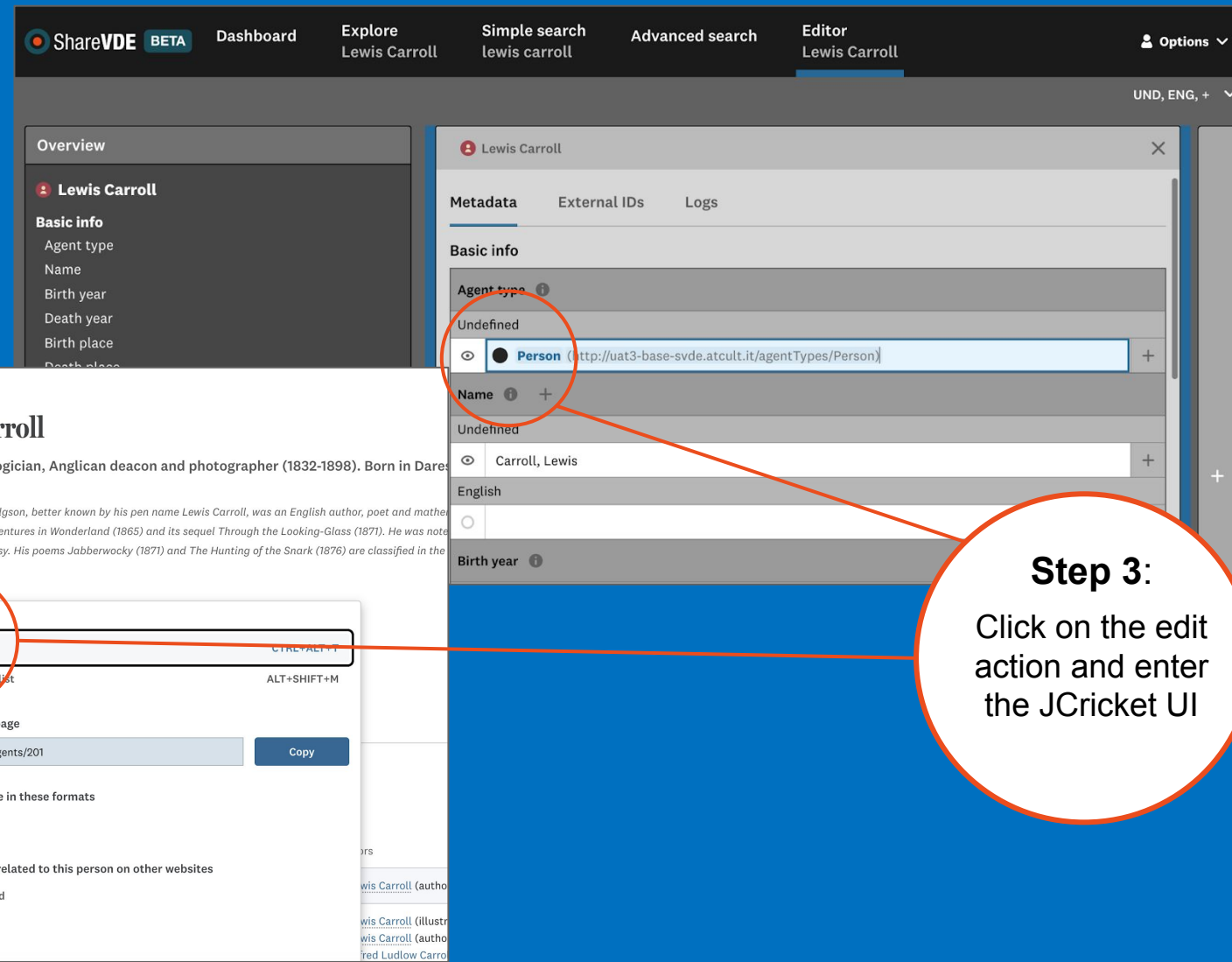
Members and **working groups** actively participate in policy-making and tool development, as well as defining goals.



Expertise, responsibilities and costs are shared across the **community** for the benefit of all.



Step 1:
Search on the
Main Portal



Step 3:
Click on the edit
action and enter
the JCricket UI

Step 2:
Enter the entity
details page

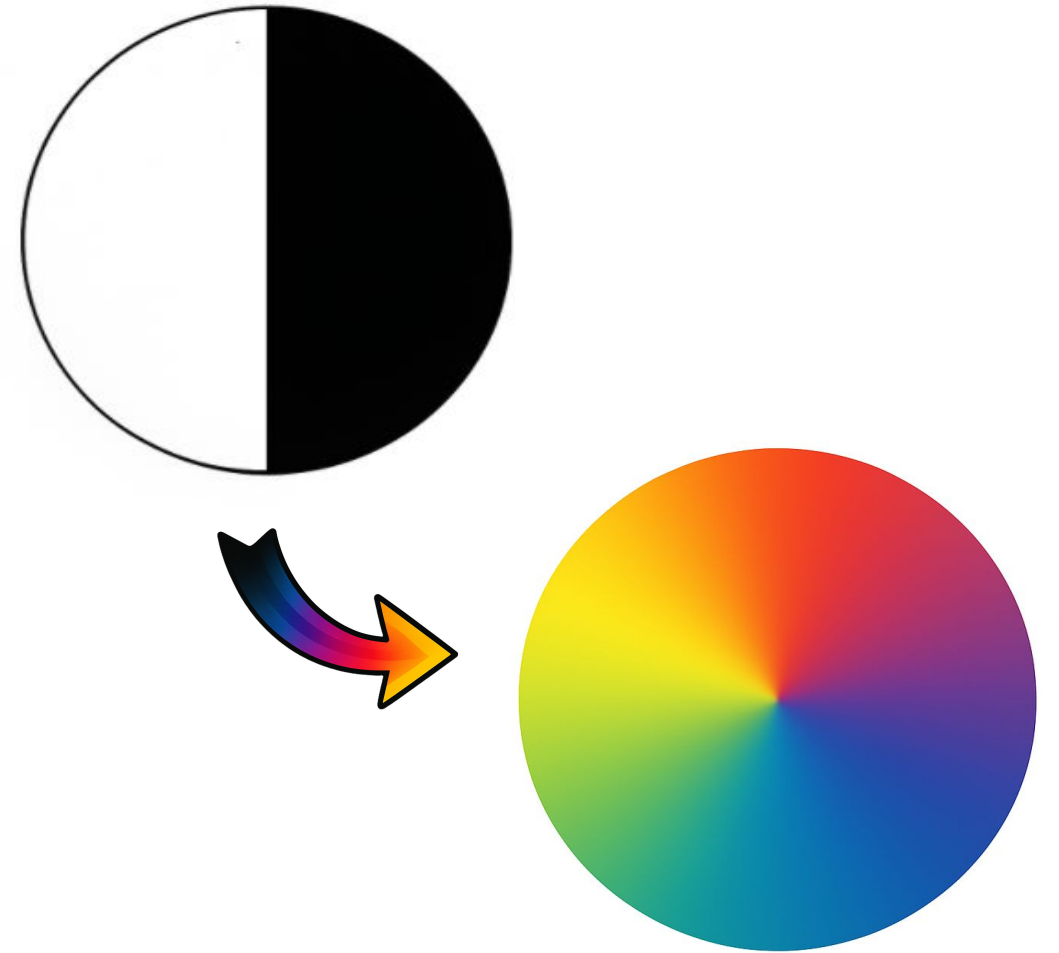
Shared tools for collaborative data management

Binary vs Nuanced

Cataloging is no longer limited to the binary choice between local and copy cataloging.

Today it spans a wide spectrum of flexible, collaborative practices.

This evolution is better seen as a colorful dial with many graduations rather than a two-color wheel.





Copy cataloging

The reuse of bibliographic records captured from external sources, usually without ongoing interaction or linkage to the original source record.

➡ Focus: the **local record ID** is created independently and **retains no live connection** to the copied source.

Copy cataloging

OCLC Connexion Home | Help | Diacritics | Contact | Logoff

Cataloging Authorities Express Dewey Services General OCLC

Search Browse Create Show

*WorldCat Browse Options Create Options Show Options

WorldCat: Mexican Gothic MARC Help

OCLC 1246727174 No holdings in CSILS - 133 other holdings

Books	Rec Stat	Entered	Replaced	20220801194740.3
Type	ELvl	Srcr	Audn	Ctrl
BLvl	Form	Conf	Biog	MRec
Cont	GPub	LitF	Indx	Lang
Desc	Ills	Fest	DtSt	Ctry
010	020	040	050	055
082	092	049	100	245
250	264	300	336	337
338	500	520		

010 1 2020455437
040 DLC 1b eng 1e rda 1c DLC 1d BDx 1d NBU 1d OCLCF 1d YDX 1d OCLCO 1d DAC 1d CUV 1d OCLCO 1d YDX 1d OCLCO 1d ORE
019 1263579550
020 052562080X \$q trade paperback ; alkaline paper
020 9780525620808 \$q trade paperback ; alkaline paper
020 \$z 9780525620792 \$q electronic book
043 n-mx---
050 PR9199.4.M656174 \$b M49 2021
055 PS8626.O7427 \$b M49 2021
082 813/.6 \$2 23
092 \$b
049 CSIA
100 1 Moreno-Garcia, Silvia, 1e author.
245 1 0 Mexican Gothic / \$c Silvia Moreno-Garcia.
250 Del Rey trade paperback edition.
264 1 New York : \$b Del Rey, \$c 2021.
264 4 \$c ©2020
300 334 pages ; \$c 21 cm
336 text \$b txt \$2 rdacontent
337 unmediated \$b n \$2 rdamedia
338 volume \$b nc \$2 rdacarrier
500 Includes book club guide (pages 305-321).
520 "After receiving a frantic letter from her newly-wed cousin, Noemi Taboada heads to High Place, a distant house in the Mexican countryside. Noemi is an unlikely rescuer : She's a glamorous debutante, more suited for cocktail parties than amateur sleuthing. But she's also tough, smart, and not afraid : not of her cousin's new English husband, a stranger who is both menacing and alluring ; not of his father, the ancient patriarch who seems fixated by Noemi ; and not even of the house itself, which begins to invade her thoughts."

650 0 Haunted houses 1z Mexico 1v Fiction.
650 0 Families 1v Fiction.

[Download&Import](#)

[Copy field from external source](#)

Derived Records

- Snapshot of the original
- Remain unchanged unless explicitly updated (“Replace”)

Source vs. Derived

- Generally independent
- Alignment mechanisms exist (e.g., SBN Index alignment)

Technological Evolution

- APIs, protocols & open data → more flexibility
- Copy cataloging becomes less rigid

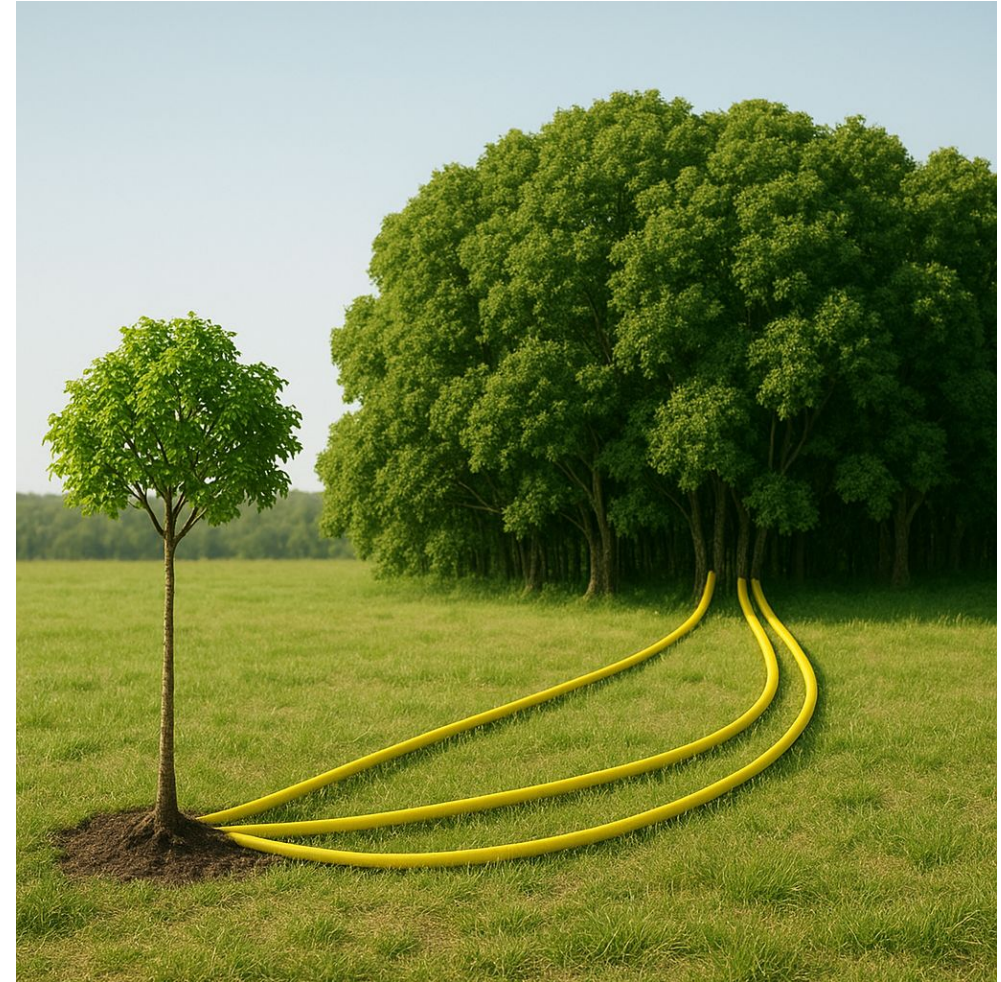
Broader Possibilities

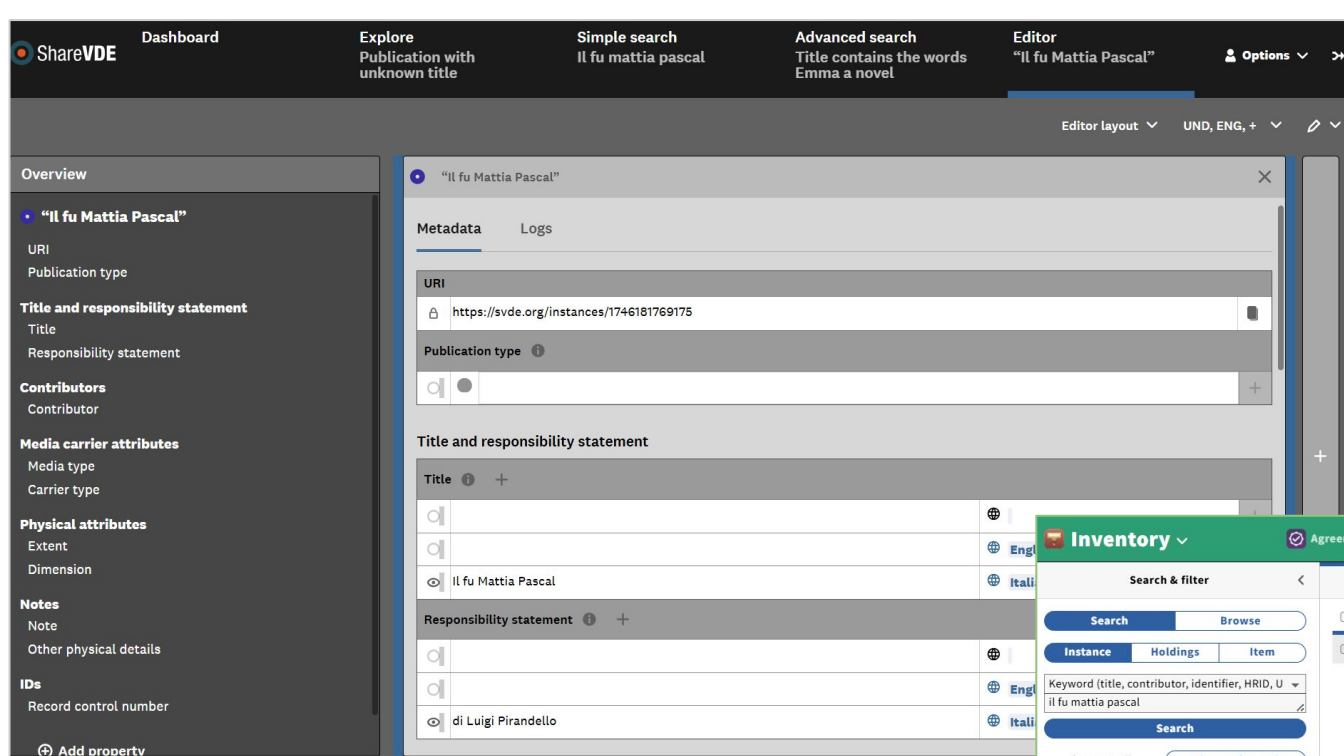
- Richer lookup mechanisms
- More data formats
- Growing number of open data sources

Cooperative Cataloging

A cooperative/integrated workflow where local and central systems are fully interoperable: data entered locally is reflected centrally, and conversely, central data is discoverable and reusable locally.

➡ Focus: **bidirectional synchronization**; cataloging gains added value by keeping local and central environments **aligned**.

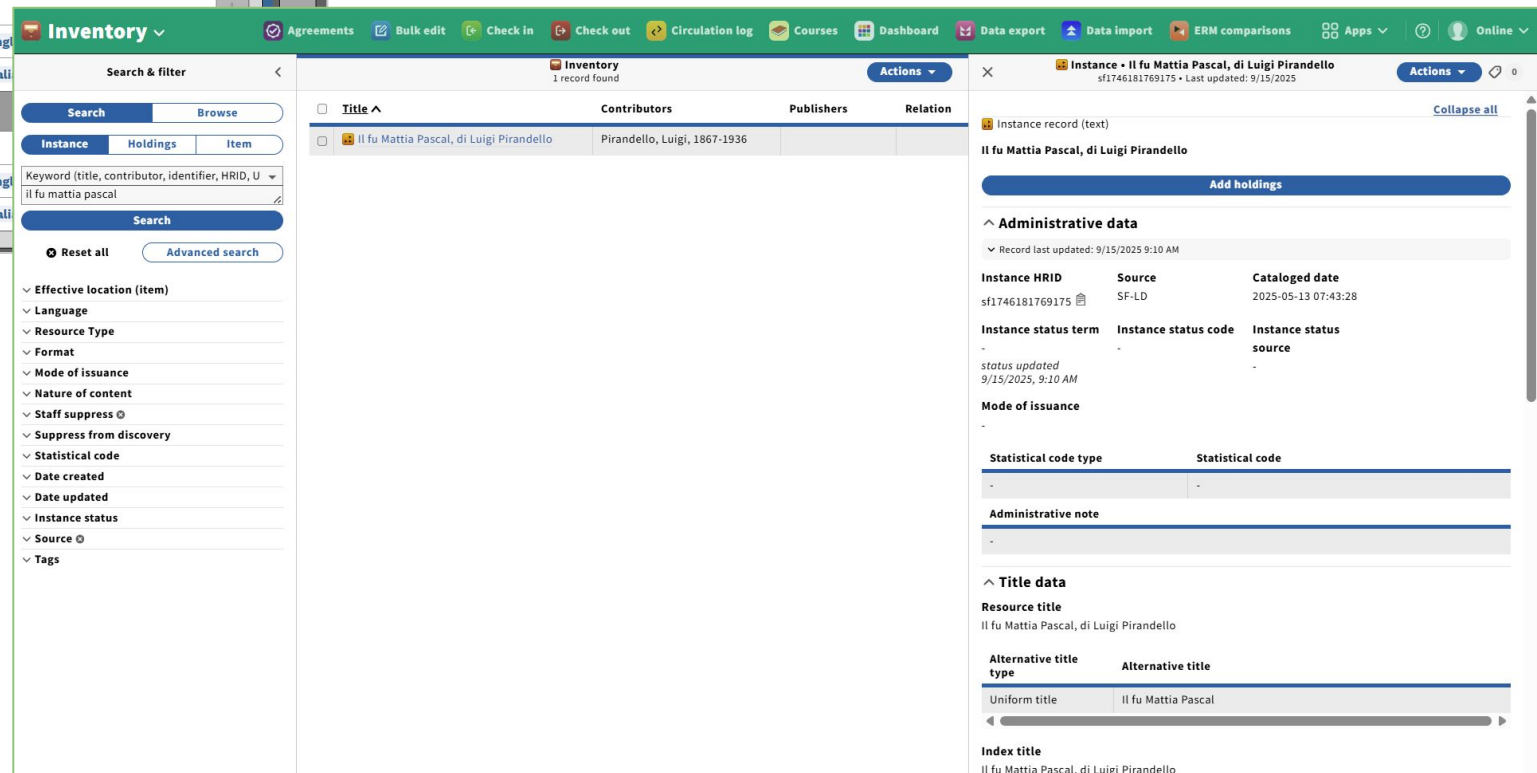




Cooperative Cataloging

[Create a JCricket Instance 1](#)

[Create a JCricket Instance 2](#)



[See the FOLIO Instance](#)

Workflow: the simple view



1. SVDE users create and edit entities (e.g., Agent, Instance, etc.) on the LOD Platform.
2. The data is automatically stored in FOLIO.

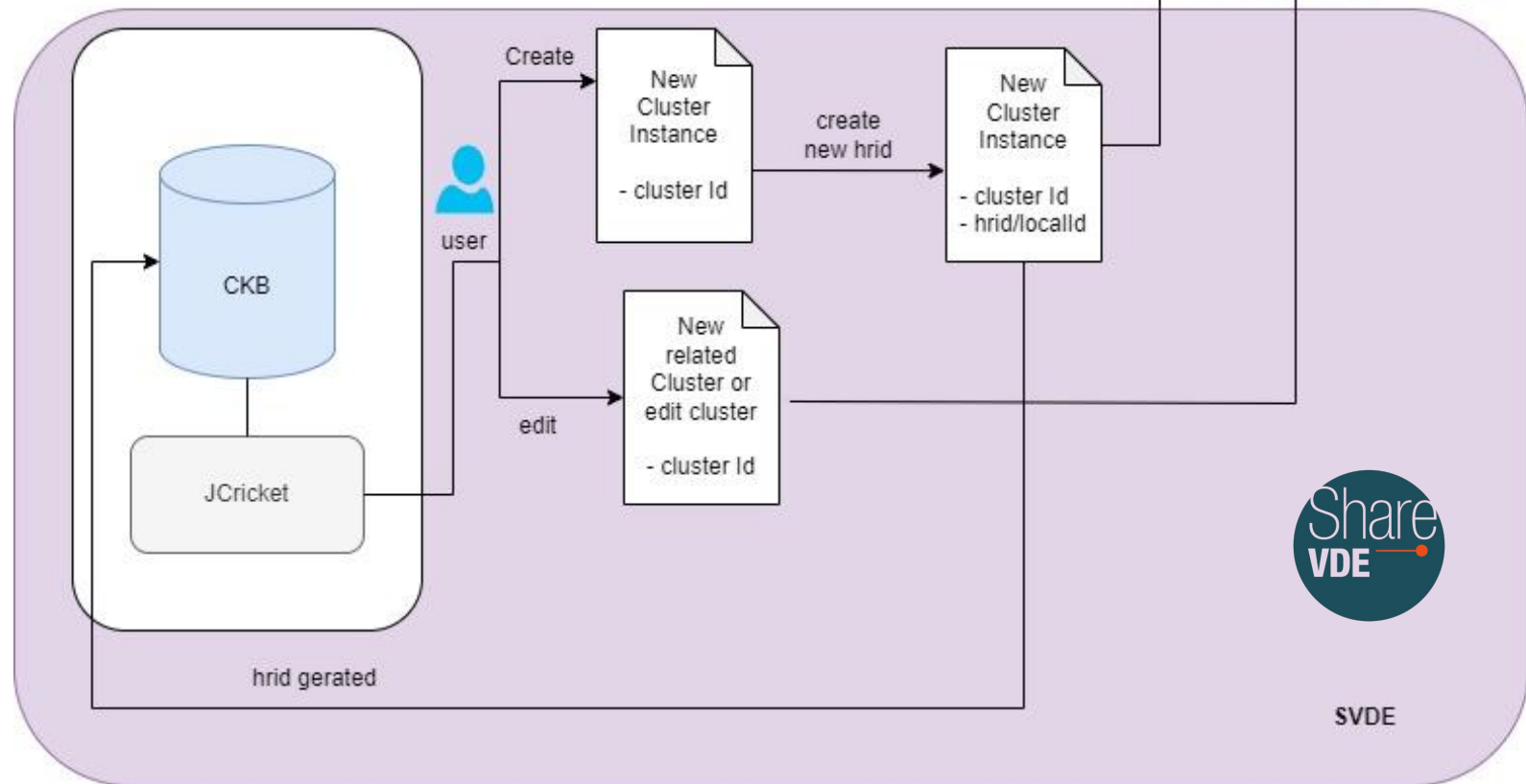
Note: In this workflow, the data flow is unidirectional, with SVDE serving as the authoritative source.

Workflow: the inside view

Users create and update entities in the Cluster Knowledge Base (CKB) of the SVDE system through the JCricket editor

The integration module analyzes the data and generates FOLIO records

Through the Inventory Update APIs, data is transferred into FOLIO



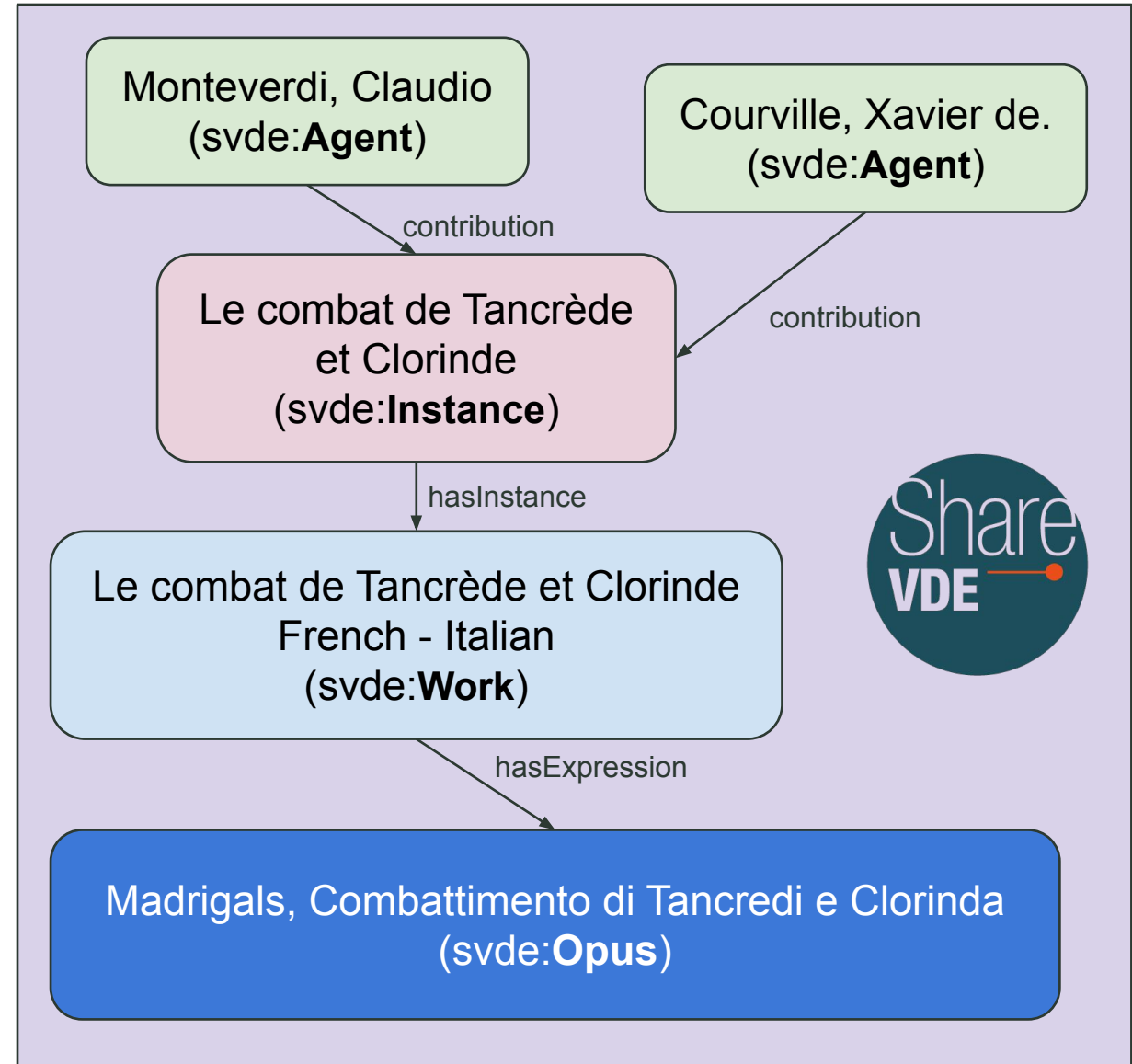
Mapping different models - 1

A Share Family tenant applies the BIBFRAME model: bibliographic information, such as contributors, instances, and intellectual works (defined as “Opuses” in the Share-VDE ontology), are represented as distinct entities, each with its own properties, and interconnected through defined relationships.

(svde:Instance)

Le combat de Tancredi et Clorinde

Title: Le combat de Tancredi et Clorinde
PublisherNumber: Heugel



Mapping different models - 2



Le combat de Tancredi
et Clorinde
(folio:**Instance**)

Contributor:

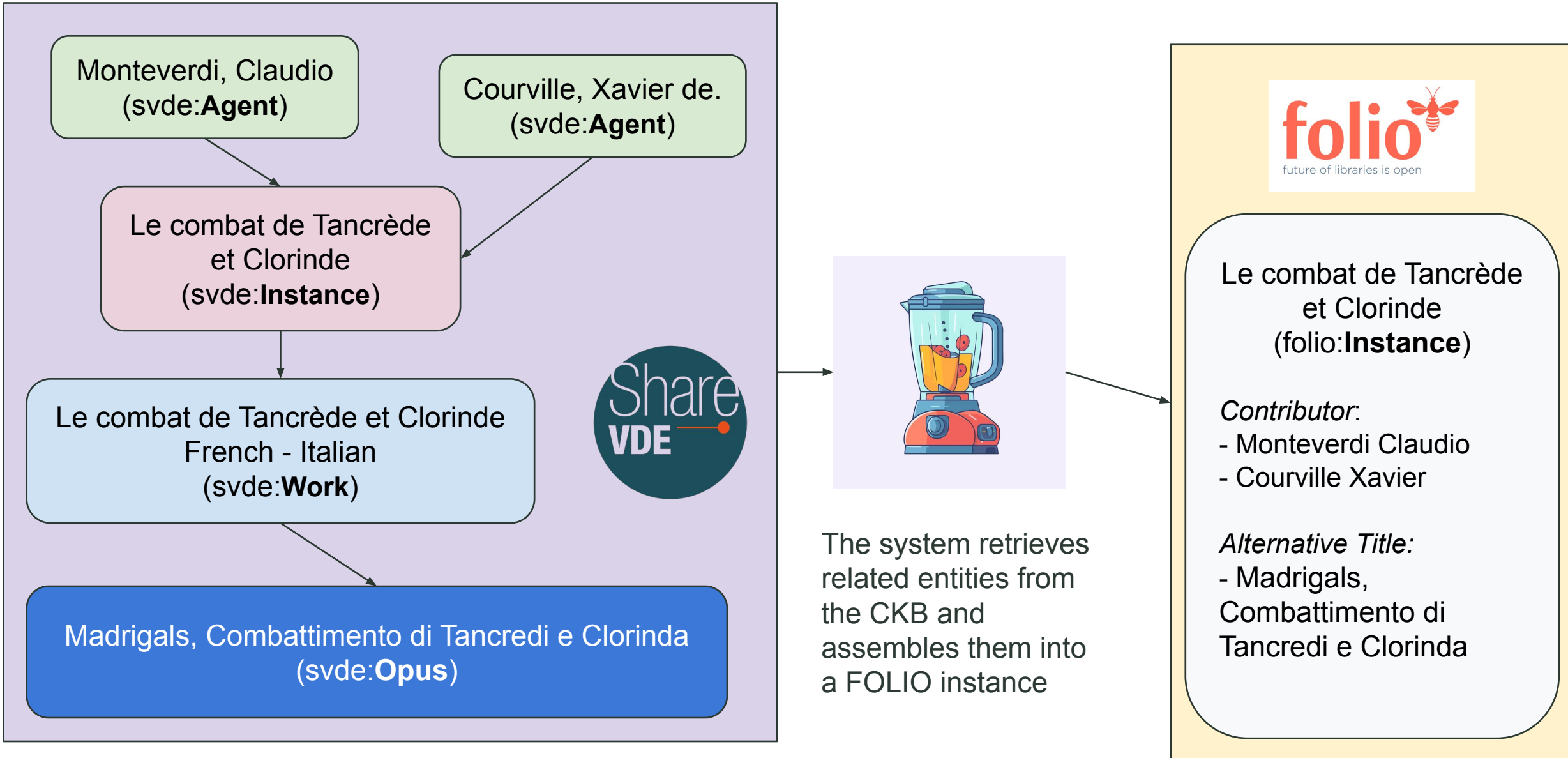
- Monteverdi Claudio
- Courville Xavier

Alternative Title:

- Madrigals,
Combattimento di
Tancredi e Clorinda

In the FOLIO model, there are fewer entities. The core entity is the *Instance*, which contains several properties, including those that are represented as separate entities in the BIBFRAME model.

Putting models together



A real example

Bibliographic data

```
<marc:record>
```

```
[...]
```

```
<marc:datafield tag="028" ind1="2" ind2="0">  
  <marc:subfield code="a">H.31139</marc:subfield>
```

```
</marc:datafield>
```

```
<marc:datafield tag="245" ind1="1" ind2="3">  
  <marc:subfield code="a">  
    Le combat de Tancredi et Clorinde
```

```
</marc:datafield>
```

```
<marc:datafield tag="100" ind1="1" ind2=" ">  
  <marc:subfield code="a">  
    Monteverdi, Claudio
```

```
</marc:datafield>
```

```
[...]
```

```
</marc:record>
```

BIBFRAME data

(svde:Instance)

Le combat de Tancredi et Clorinde

PublisherNumber: H.31139

Title: Le combat de Tancredi et Clorinde

(svde:Agent)

Monteverdi, Claudio

Data in JCricket

Instance

“Le combat de Tancrède et Clorinde”

MetadataExternal IDsLogs

Basic info

URI

https://svde.org/instances/1720704045132

Title

Le combat de Tancrède et Clorinde

English (ENG)

Year of publication

Contributor

Other

Publisher number

H.31139

English (ENG)

Add property

Agent

Monteverdi, Claudio

MetadataExternal IDsLogs

Basic info

URI

https://svde.org/agents/1720704045139

Agent type

Person (Person)

Name

Monteverdi, Claudio

English (ENG)

Birth date

Death date

Place of birth

Place of death

Data loaded in Folio

SVDE model data

(svde:Instance)

Le combat de Tancredi et Clorinde

Title: Le combat de Tancredi et Clorinde

PublisherNumber: H.31139

(svde:Agent)

Monteverdi, Claudio

Folio Instance

Instance • Le combat de Tancredi et Clorinde

sf1720704045132 • Last updated: 7/31/2024

Actions

Succeeding titles

Title	Instance HRID	ISBN	ISSN
-	-	-	-

Identifiers

Resource identifier type	Resource identifier
Publisher or distributor number	H.31139
SVDE cluster ID	1720704045132

Contributor

Name type	Name	Type	Free text	Primary
Personal name	Monteverdi, Claudio	Author	-	Primary

Descriptive data

Publisher	Publisher role	Place of publication	Publication date
-	-	-	-

Edition

-

Physical description

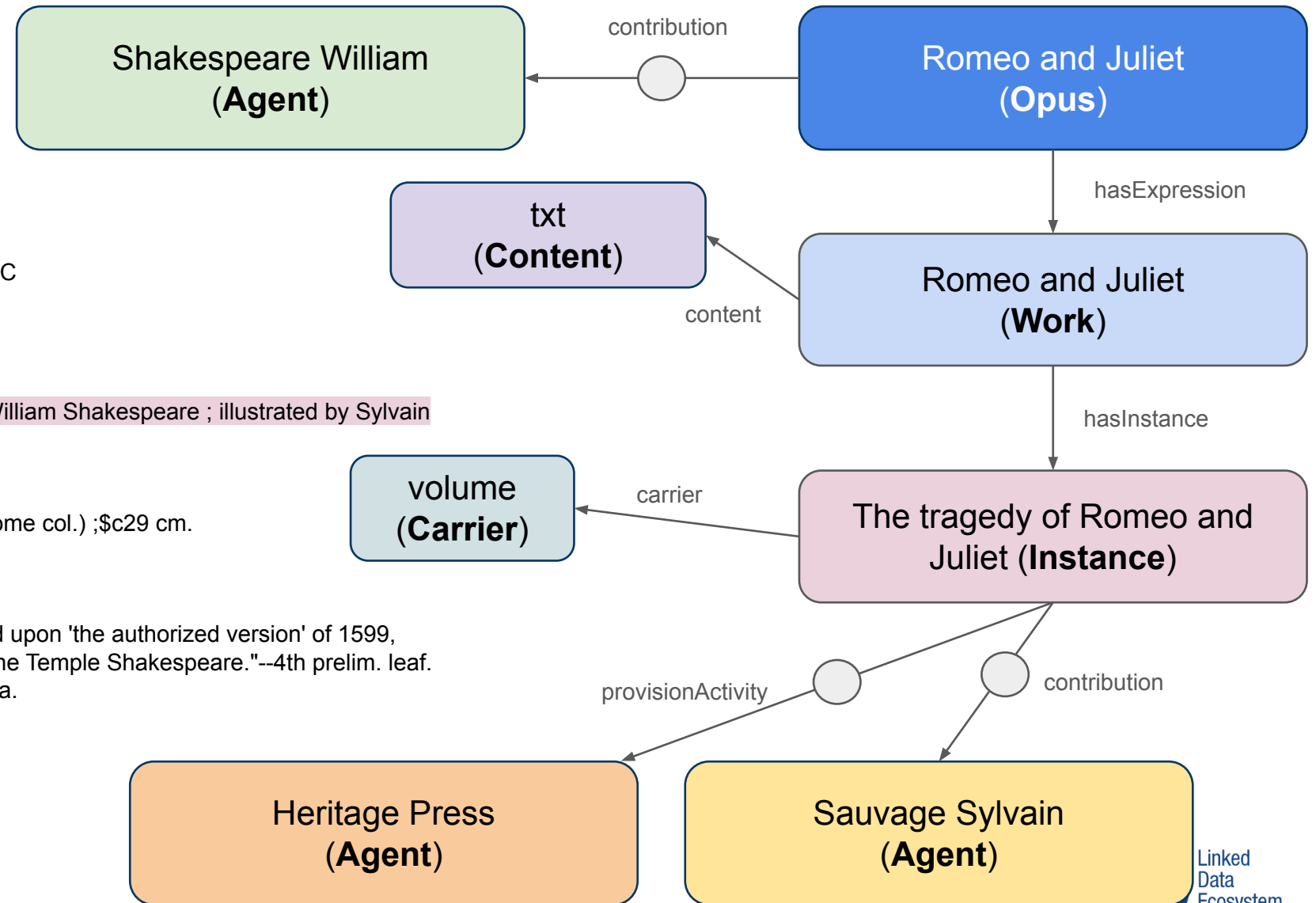
-

Resource type term	Resource type code	Resource type source
text	txt	rdacontent

Share-VDE model (BF+extentions)

```

=LDR 01458cam a22003731a 4500
=001 6894054
=005 20210208191354.0
=008 780410s1935\\nyuaf\\000\\0\\eng\\
=010 \\$a 36000604
=035 \\$9(DLC) 36000604
=035 \\$a(OCOLC)3791465
=040 \\$aDLC$beng$cOT$dOCOLC$dPPIU$dDLC
=050 00$aPR2831.A2$bS3
=082 \\$a822.33
=100 1\\$aShakespeare, William,$d1564-1616.
=240 10$aRomeo and Juliet
=245 14$aThe tragedy of Romeo and Juliet /$cWilliam Shakespeare ; illustrated by Sylvain
Sauvage.
=246 30$aRomeo & Juliet
=260 \\$aNew York :$bHeritage Press,$c1935.
=300 \\$a[5], 125 p., [8] leaves of plates :$bill. (some col.) ;$c29 cm.
=336 \\$atext$2rdacontent
=337 \\$aunmediated$2rdamedia
=338 \\$avolume$2rdacarrier
=500 \\$a"The text used in this edition is ... based upon 'the authorized version' of 1599,
and is used as the 'Romeo and Juliet' volume in the Temple Shakespeare."--4th prelim. leaf.
=600 00$aRomeo$c(Fictitious character)$vDrama.
=600 00$aJuliet$c(Fictitious character)$vDrama.
=651 10$aVerona (Italy)$vDrama.
=650 10$aVendetta$vDrama.
=650 10$aYouth$vDrama.
=655 17$aTragedies.$2gsafd
=700 1\\$aSauvage, Sylvain,$eillustrator.
    
```



Shared cataloguing

Shared cataloging is a truly collaborative way of working, where **multiple people** contribute to **building and improving bibliographic entities together**.


➔ Focus: teamwork at the entity level: a cataloguer can enrich data (like adding an author's birth or death dates), fix incorrect attributes, or even merge and split entities that machines created incorrectly.

The goal is to make the data more accurate, authoritative, and reusable for everyone.



Shared cataloguing

Merge&Split entities

ShareVDE

Dashboard
8 unread notifications

Explore
Miller, Agatha Mary Clarissa

Simple search

Advanced search
Name contains the words agatha


Editor

Options ▾

words agatha


Clear all Search



Person results

Filter people... 


2 results



Sort by (A - Z) ▾

☒ 1 


[Miller, Agatha Mary Clarissa \(1890-1976\)](#)
Birth place: 
Death place: Winterbrook
Notes: 
Identifier: a1757069826836

...

☒ 2 


[Agatha Christie \(Writer, 1890-1976\)](#)
Birth place: Torquay
Death place: 
Notes: 
Identifier: a1757069823279


...



➔ My merge list 



There are 3 merge lists in your space.

Currently selected list:

➔ No destination selected 

 Merging 2 agents including Miller, Agatha Mary Clarissa

 Agatha Christie (Person, 1890-1976)
a1757069823279 

 Miller, Agatha Mary Clarissa (Person, 1890-1976)
a1757069826836 

View instructions

Choose destination ➔

+ Add to a new merge list

➔ Add to: Merging 3 agents into Johannes Scylitza

Linked Data Ecosystem

Shared cataloguing

Merge&Split entities

ShareVDE

Dashboard8 unread notifications

ExploreMiller, Agatha Mary Clarissa

Simple search

Advanced searchName contains the words agatha

EditorMerging 1 agent into Miller, Agatha Mar...

Options6

Filters

Show:

☒ URI☒ Agent type☒ Name☒ Family name☒ Variant name☒ Birth date☒ Death date☒ Place of birth☒ Place of death☒ Occupation☒ Identifier

Show allHide all

Source entities (1 agent)

Miller, Agatha Mary Clarissa

URI

https://test.svde.org/agents/1757069826836

Name

Miller, Agatha Mary

Clarissa

Variant name

Mary Westmacott

Birth date

1890

Death date

1976

Place of death

Winterbrook

(https://test.svde.org/places/1757069823300)

Agent type

Person

(https://test.svde.org/agentTypes/Person)

Agatha Christie

Basic info

URI

https://test.svde.org/agents/1757069823279

Agent type

Person

(https://test.svde.org/agentTypes/Person)

Name information

Name

Agatha Christie

Family name

Miller

Christie

Mallowan

Variant name

Christie, Agatha Mary

Move to destination

Cancel merge list

Select a reviewer

Please confirm this action

Are you sure you want to submit this merge request? The review will be assigned to McCormick, Loretta.

Close

Submit merge request

Shared cataloguing

Dashboard

The screenshot shows the ShareVDE dashboard interface. At the top, there is a navigation bar with the ShareVDE logo on the left and several menu items: 'Dashboard' (highlighted with a box and showing '8 unread notifications'), 'Explore', 'Simple search', 'Advanced search' (with a sub-item 'Name contains the words agatha'), and 'Editor'. On the right side of the navigation bar are 'Options', a right arrow, a blue circle with the number '4', and a user profile icon.

Below the navigation bar is a 'Notifications' section, also with a '8 unread' badge. It is divided into three time-based categories:

- Today (2)**
 - A1** → ● Keira Richardson assigned a review of a merge request to you
Request: Merging 1 publication into "Harry Potter et la chambre des secrets [Ressource électronique]"
Date and time: Sep 24, 2025, 2:34 PM
Request ID: 1757069915392
 - A2** → ● Tala Hart assigned a review of a merge request to you
Request: Merging 1 publication into "Rund um Antigone: Die Ikonographie und Musik in der deutschen Wiederbelebung der klassischen Tragödie"
Date and time: Sep 24, 2025, 12:01 PM
Request ID: 1757069823227
- More than month ago (1)**
 - A3** → ○ Loretta McCormick assigned a review of a merge request to you
Request: A preview of the request is not available.
Date and time: May 23, 2025, 3:51 PM
Request ID: 1747295137317
- More than month ago (2)**
 - A4** → ○ Mark Hulme approved your merge request
Request:
Date and time: Mar 25, 2025, 10:12 AM
Request ID: 1742551989677
 - A5** → ○ Mark Hulme rejected your merge request

A small circular icon with a red and blue design is visible on the right side of the notifications list.

The Share Family approach

Co-operative

Shared tools for collaborative data management

Sustainable

Optimisation of efforts for the benefit of all members

Open

Interoperability for increased discovery of collections

Inclusive

Diversity for enhancement and equality of access to knowledge

Dynamic

Flexibility and interaction are central to the Share Family

Find out more

<http://bit.ly/44rnqpA>



Thank you!

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