



Interconnections in the Linked Data world

The Share-VDE experience



2020 LD4 Conference on
Linked Data in Libraries

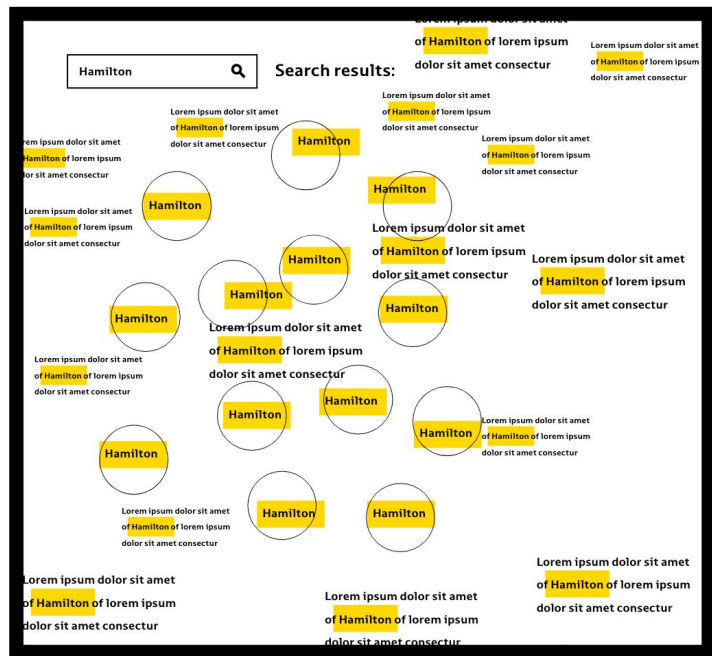
Anna Lionetti
Casalini Libri/Share-VDE
9th July 2020

Share-VDE: what it was and what it is

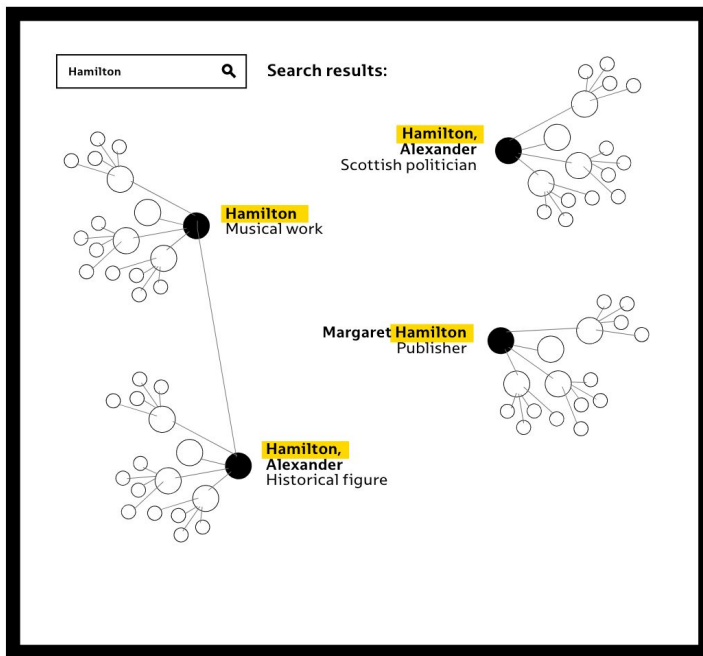


Linked data means interconnections

Without linked data



With linked data



From pilot project...

Phase 1

October 2016 – January 2017

1985 and 2015 imprint titles; 2,249,397 bib-records and 3,601,327 auth-records.

Phase 2

March 2017 – May 2018

The entire catalogues for all resource types; 94,378,728 bib-records and 24,150,238 auth-records.

Phase 3

Production environment: January 2019 - in progress

Share-VDE triplestore currently contains 24 billion quads of converted data and 400 million triples of clustered entities

...to active initiative



Share-VDE is a library-driven initiative to establish an **effective working environment** for the use of linked data by libraries within a global context.

Library data are **enriched** with additional information and relationships, and bibliographic and authority data are converted into linked data.



A **virtual discovery platform** with the structure based on **BIBFRAME** data model is created to simplify the way in which that data is consumed.

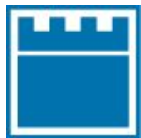
The network of resources created is the basis for the **Share-VDE Sapiientia Cluster Knowledge Base**, the common authoritative source of clusters accessible in RDF, open to the entire Share-VDE community.

...in a cooperative environment

Share-VDE is a collaborative endeavour based on the needs of libraries, developed 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;

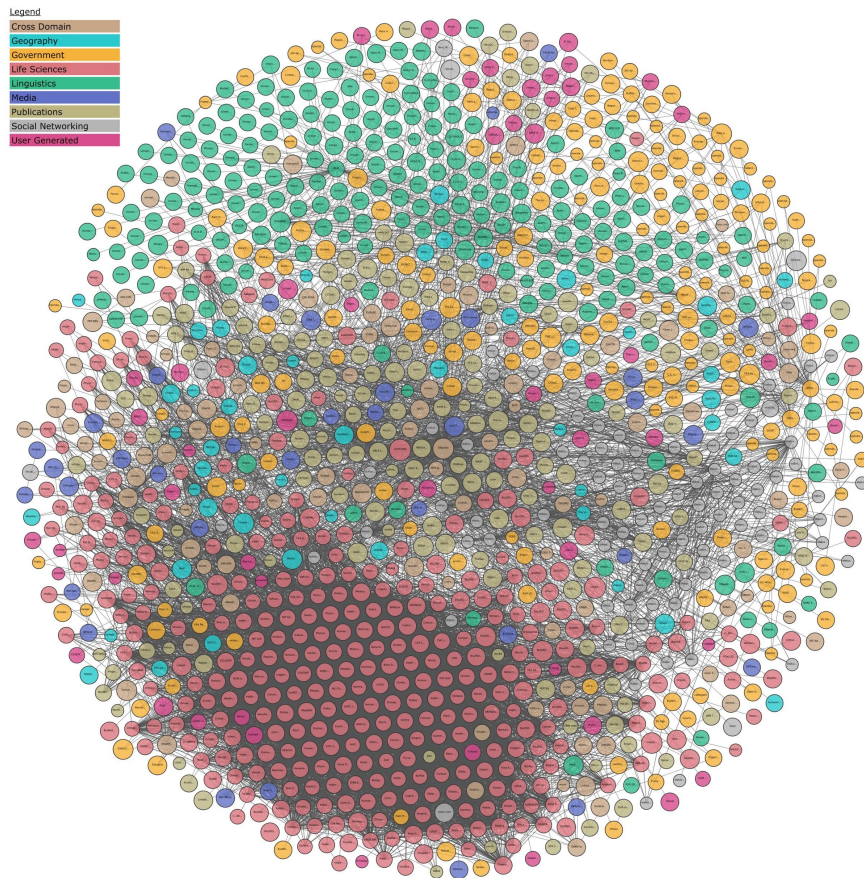


influenced by the vision of the **Linked Data for Production** initiative;



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

A network of interconnected data



A network of interconnected libraries



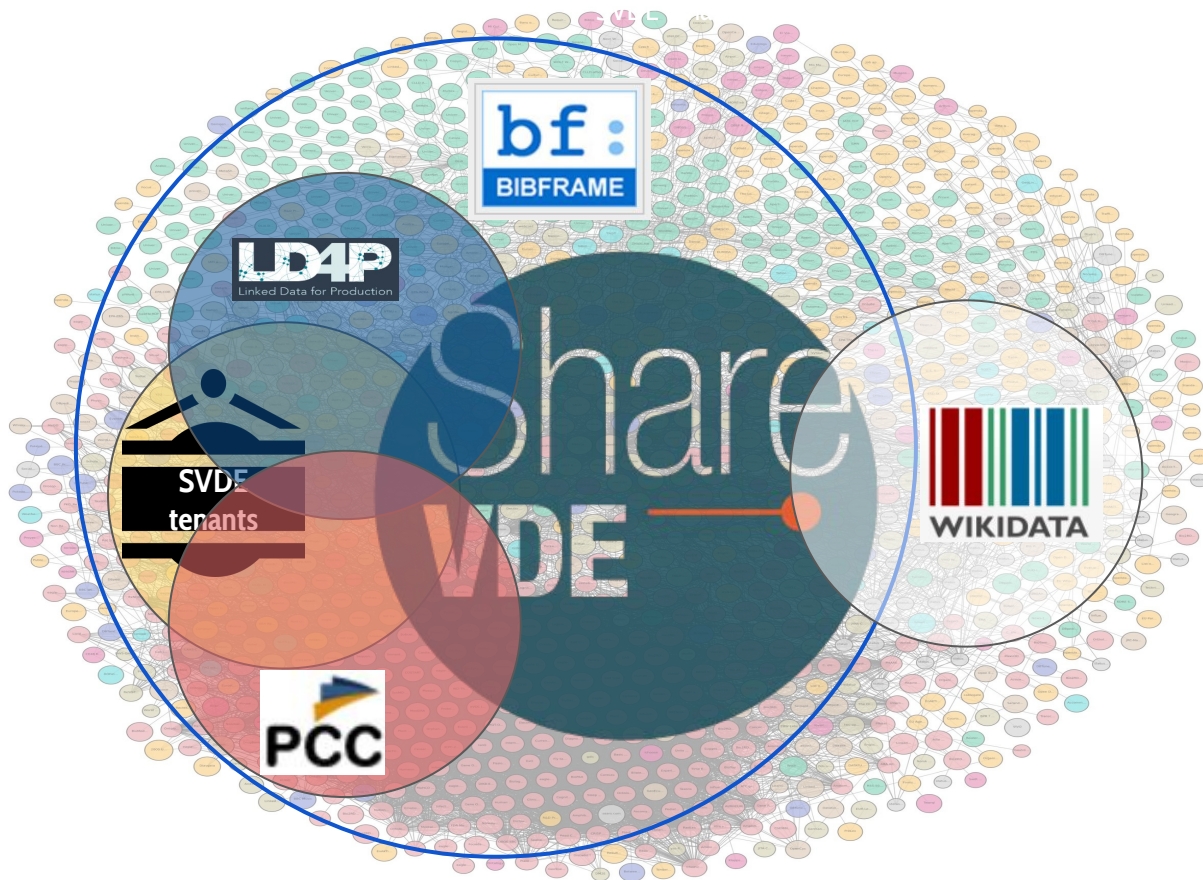
The Share family



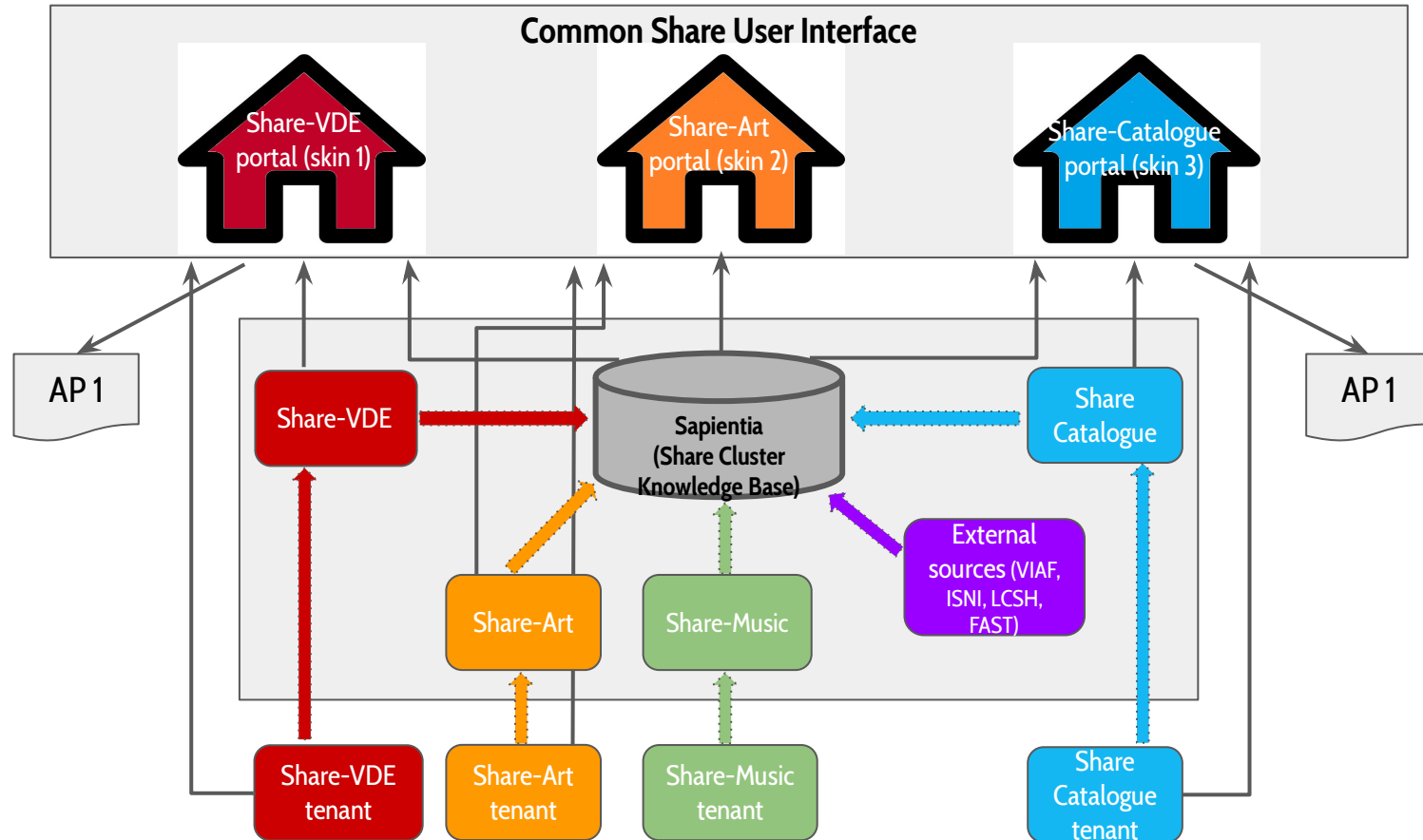
(Some of) Share-VDE interconnections



A matrioska of linked data



Share-VDE tenants



LD4P

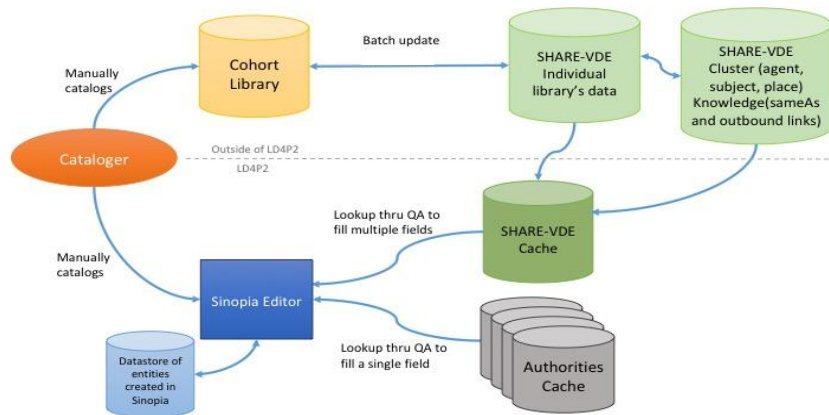


MARC records converted in linked data by SVDE are delivered to Sinopia cataloguing module



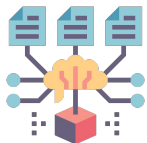
In LD4P3: a two-way flow Sinopia-SVDE will be put in place

Next steps: work together to optimize interaction





Conversion and housing of PCC data in SVDE



Several models for including PCC data in SVDE are under analysis



Among the possible scenarios: PCC as autonomous tenant with specific PCC URIs and enrichment from other sources (URIs from SVDE, LC, GNF, VIAF, Wikidata etc.)

Wikidata



Wikidata is increasingly authoritative and is used in the library community as a source for entity identification



Query the source and enrich SVDE data with Wikidata entities information



Ad hoc SVDE working group is studying the use cases for interaction (e.g. starting points for the analysis are [API:Main page](#) + [Wikibase/API](#), and other documentation)



Major challenge: alignment between Wikidata and SVDE entities

Share-VDE approach



Share-VDE pillars



Integration



Autonomy



Community engagement



Shared vision

Integration

Search for a person for whom

Search for...

- ☐ Agent of any type
- ☒ Person (e.g. Jules Verne or Marina Abramović)
- ☐ Family (e.g. Smith family or Benson family)
- ☐ Organization (e.g. CERN or Penguin Books)
- ☐ Conference (e.g. AIAA Thermophysics Conference)
- ☐ Original work or publication
 - ☐ Original work (e.g. Around the world in 80 days)
 - ☐ Publication (e.g. Around the world in 80 days, 3rd edition, 1906)

4 results

Filter related people... Year of birth

Name	Year of birth	Description
...



SHARE-VDE

William Shakespeare > Hamlet > ... Second quarto

Publication ⓘ

Hamlet: Second quarto

Book written by Weston Babcock in English, published in London by Bloomsbury in 2015

[London] : Bloomsbury, [2015] : 1 online resource (11 audio files (1 hr., 57 min., 41 sec.)) : digital, stereo · Computer · Spoken word · Online resource · 822.23 · Library of Congress call no. PR2827 · Access restricted by licensing agreement · Starring Jamlee Bamber [and seventeen others], Audio recordings · Monograph

[Read online now](#) [Borrow a copy at UC Berkeley](#) More options

Copies of this p. Related subjects Other English book editions of "Hamlet"

6 results

Filter publications... Language Location All filters Held at Penn

Copy no.	Type	Location	Call no.	Availability
1231 2415 3489	Online resource	HathiTrust	Van Pelt > ABC123912414	Online
9387 8492 1289	Physical item	UPenn	Van Pelt > ABC123912414	Available at Penn
9487 1293 0293	Physical item	UChicago	Van Pelt > ABC123912414	Available at partner institution

Autonomy

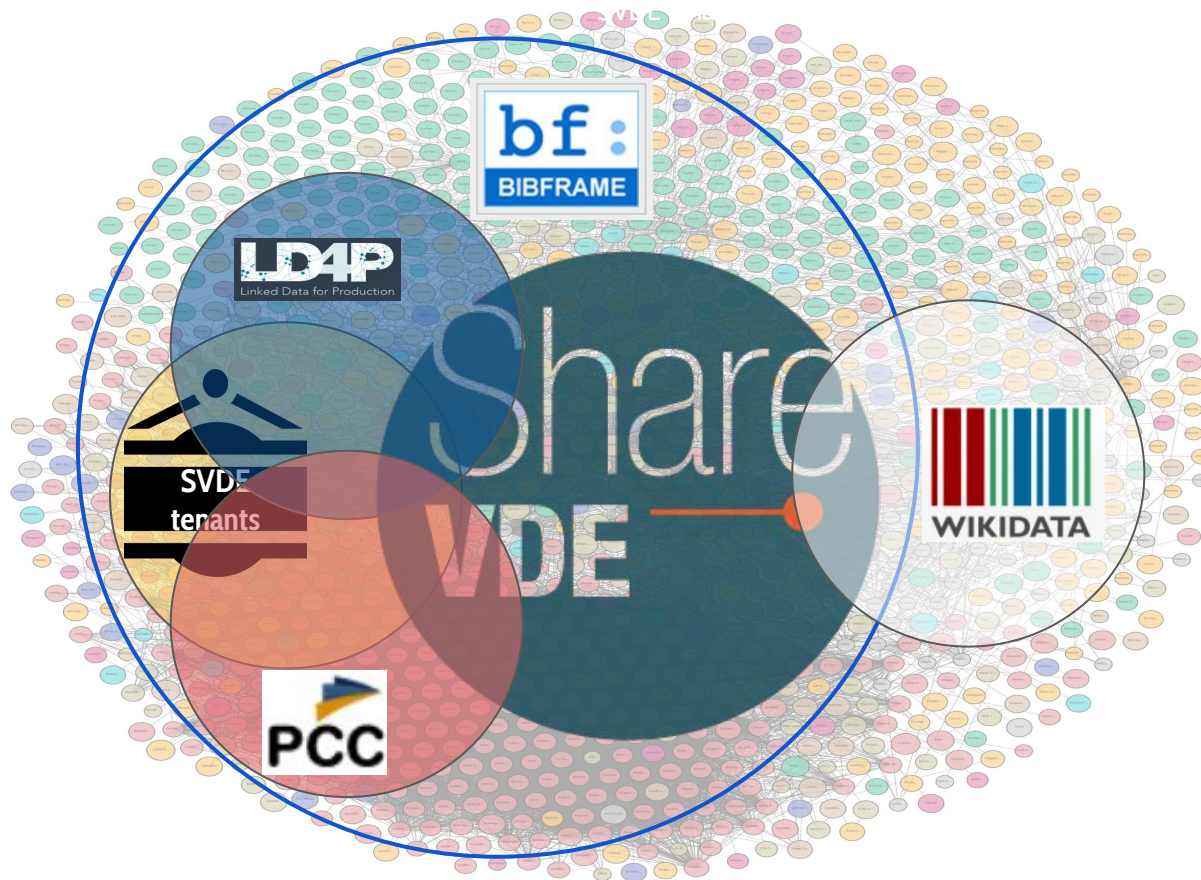
The screenshot shows the Penn Libraries Catalog interface. At the top, there's a search bar and a user profile for Jane Doe. Below the navigation bar, the breadcrumb trail shows 'William Shakespeare' and 'Hamlet'. The main content area features a book cover for 'Tragical Historie of HAMLET, Prince of Denmark' by William Shakespeare. To the right of the cover, the title 'Hamlet' is displayed, followed by 'Original Work' and 'Written by William Shakespeare in English'. A descriptive paragraph follows, mentioning the play's history and a link to Wikipedia. Below the text are buttons for 'Read online now', 'Get it now at Van Pelt', and 'More options'. A section titled 'Library-held publications of Hamlet' shows '8 results'. Below this, there are filters for 'Availability', 'Language', and 'All filters', along with a 'Held at Penn' toggle. A table lists the results, with the first entry being 'Hamlet: Second quarto' by Michael Heppell, in English, available online.

SVDE localisation for the
University of Pennsylvania

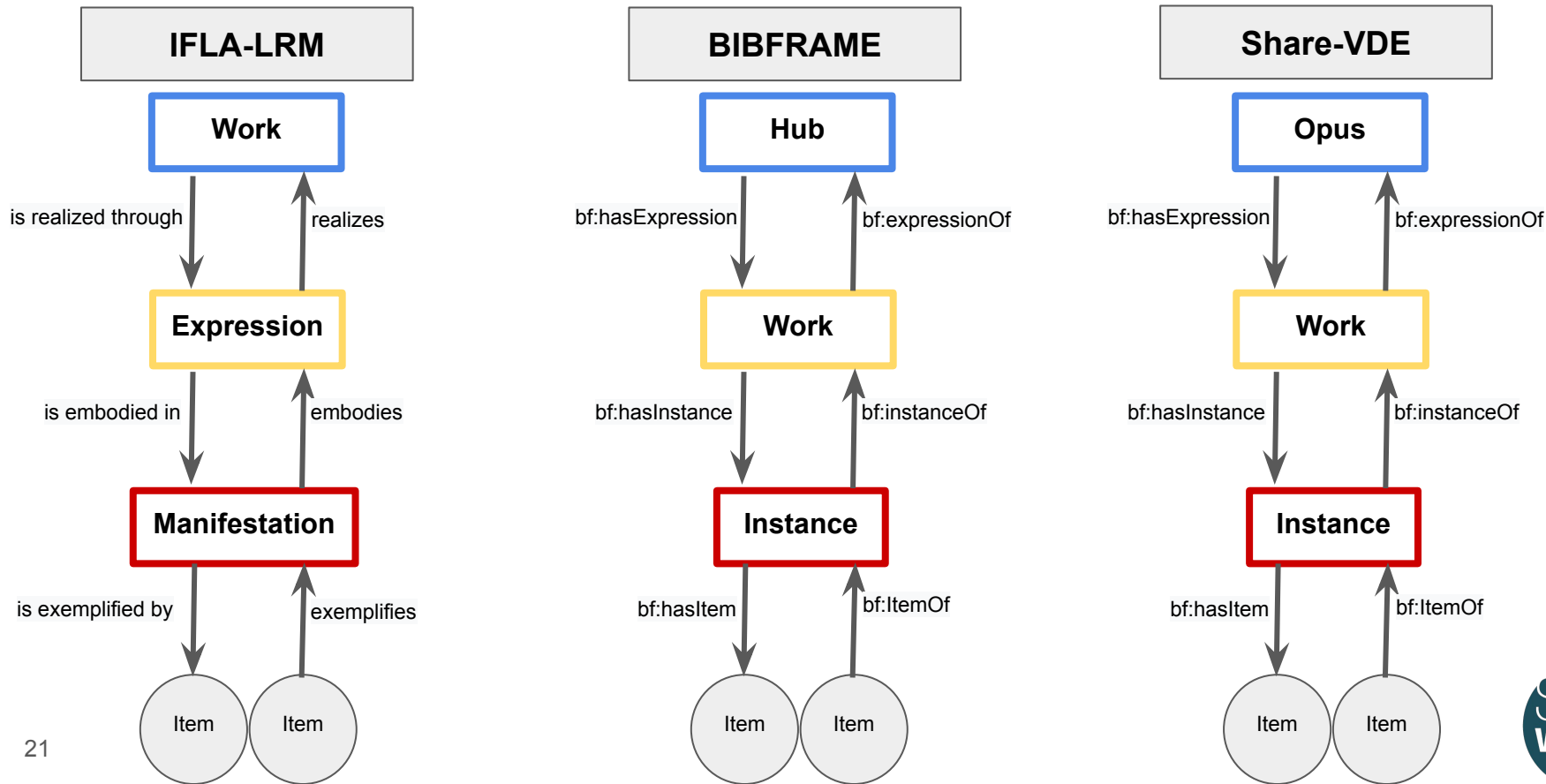
Kubikat-LOD

The screenshot shows the Kubikat-LOD project page. The header features the 'Kubikat-LOD' logo and a 'Browse' button. Below the header, there are input fields for 'Person' and 'Work'. The main content area is titled 'THE KUBIKAT-LOD PROJECT' and contains a paragraph describing the project as a collaborative venture to unite and connect resources of the Kubikat union catalogue in a discovery platform based on the BIBFRAME Linked Data model. It further explains the aim of the initiative to offer a single, shared point of access to catalogues of participating institutions through a rich search environment. The page also mentions that the data is enriched with information from authoritative sources and form progressively connections among library, museum and archive domains. The current prototype contains bibliographic data held by the Kubikat member libraries updated to February 15th 2019.

Community engagement

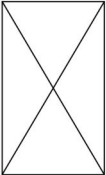


Shared vision



A tool for interconnection: J.Cricket

SHARE-VDE



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

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

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



Thank you!

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