



Virtual  
Discovery  
Environment

# The Cluster Knowledge Base approach to identities management

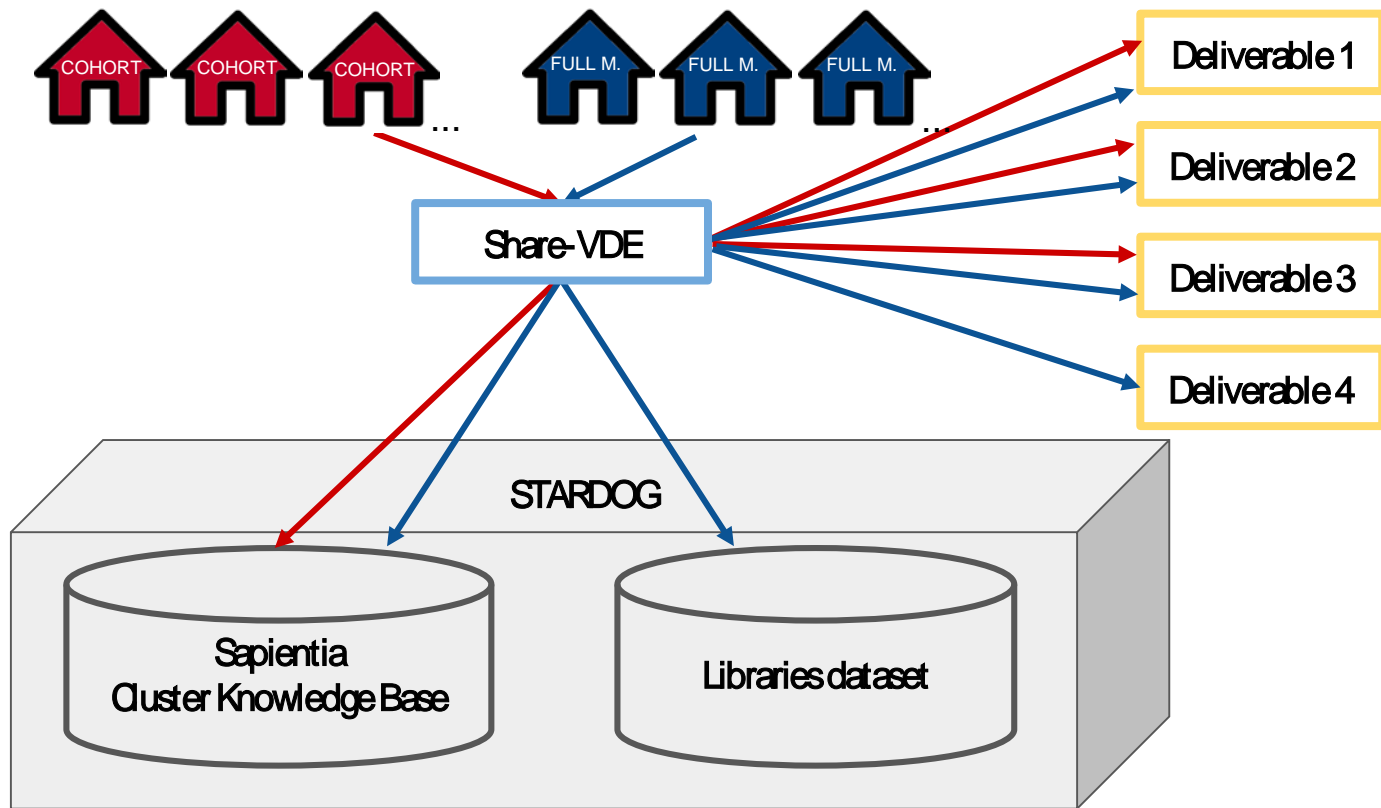
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# Share-VDE datasets in RDF



# Share-VDE datasets

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## A) *Sapientia*: the Cluster Knowledge Base of Share-VDE

This dataset contains only *Entities* from the Share-VDE data, in the form of RDF triples.

The data in Sapientia refer to the entities:

- SuperWorks
- Works
- Agents
- Publishers
- Instances (*coming soon*)
- .. *Places, Events, Items and other BF entities will be added in the next future*

## B) Libraries datasets

This dataset does not consist exclusively of the data that make up Sapientia CKB (i.e. the data that allow the clustering of entities), but it also groups in a unitary and organic manner both **the cluster data and the bibliographic data provided by the participating institutions.**

# CKB from Postgres db to RDF: the entities

## SuperWork

Database table: wrk\_dstr

```
Uri("dstr_id") rdfs:type svde:SuperWork .
Uri("dstr_id") owl:sameAs Uri("viaf_id") .
Uri("dstr_id") bf:title Uri("ttl_str_txt", "dstr_id") .
Uri("ttl_str_txt") rdfs:type bf:Title .
Uri("ttl_str_txt") rdfs:label "ttl_str_txt" .
```

## BF:Work

Database table: wrk\_expr

```
Uri("dstr_id", "loc_id") rdfs:type bf:Work .
Uri("dstr_id", "loc_id") bf:expressionOf Uri("dstr_id") .
Uri("dstr_id") bf:hasExpression Uri("dstr_id", "loc_id") .
```

## Title-Name relationship:

Database table: dstr\_nme\_ttl

```
Uri("dstr_ttl_id") bf:Contribution Uri("dstr_ttl_id", "dstr_nme_id") .
Uri("dstr_ttl_id", "dstr_nme_id") rdfs:type bf:Contribution .
Uri("dstr_ttl_id", "dstr_nme_id") bf:agent Uri("dstr_nme_id") .
```

## Agent:

Database table: dstr\_nme\_grp\_mv

```
Uri("dstr_id") rdfs:label "name" .
Uri("dstr_id") rdfs:type bf:Agent .
Uri("dstr_id") owl:sameAs Uri("hdg_id") .
```

## Agent external link

Database table: nme\_ext\_lnk

```
Uri("dstr_id") mads:isIdentifiedByAuthority
OR owl:sameAs Uri("uri") .
```

## Publisher:

Database table: dstr\_publ\_grp

```
Uri("dstr_id") rdfs:label "p_name" .
Uri("dstr_id") rdfs:type bf:Agent .
Uri("dstr_id") owl:sameAs Uri("hdg_id") .
```

## Publisher external link

Database table: publ\_ext\_lnk

```
Uri("dstr_id") mads:isIdentifiedByAuthority
OR owl:sameAs Uri("uri") .
```

# *Democracy*, as the main concept in building a cluster

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From Authority control to Entity management, in a shared environment. The *democracy* as main concept: how it's applied to build entities and how it influences the cluster strategies

- all variant forms coming from local authorities belong to the same entity at the same level (managing the case of more than one local authority);
- the variant forms coming from external sources are set by libraries with different “rating”, defining a “hierarchical” choice.

# Democracy, as the main concept in building a cluster

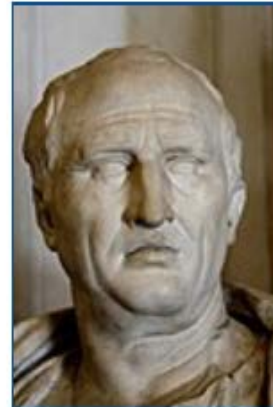
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As in all democratic systems, it is necessary to choose someone who represents the people: thus, also in cluster representation, different "tenants" can choose between different variant forms (literals) the one that best represents the entity



Cicero, Marcus Tullius <106 a.C.-43 a.C.>

(Cicero in Share-Catalogue)



Cicero, Marcus Tullius

(Cicero in Share-VDE)

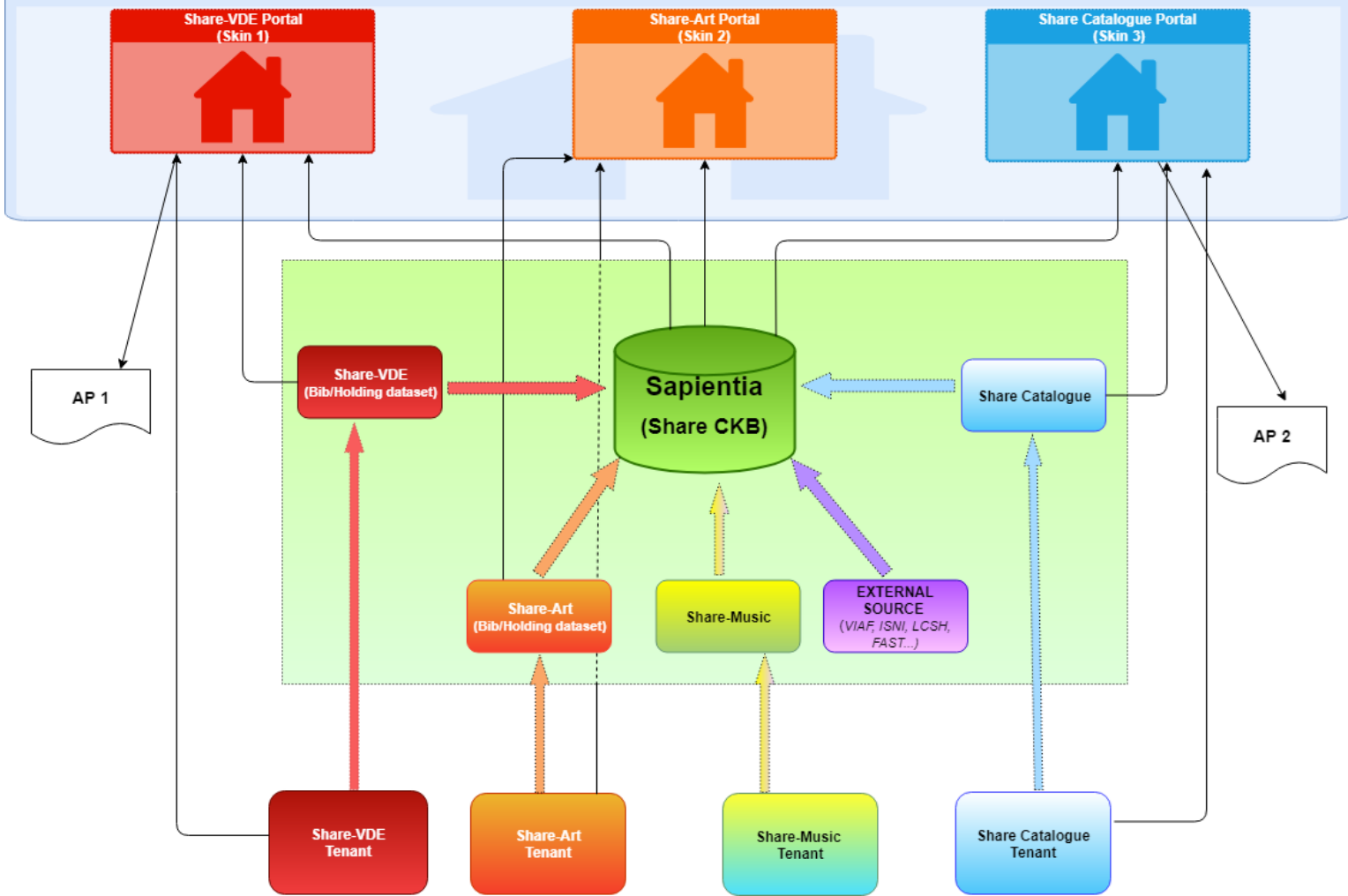
# The *Provenance* and its supporting role

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The role of the *Provenance* to manage a shared environment (in building or in retrieving the authoritative data):

- **in local authority:** it's important for data retrieval, not for clusters building (even if.. new use cases are under discussion in cases where a new library joins the SVDE initiative, such as National Library of Norway);
- **in external authoritative sources:** it's important for clusters building, not considered for data retrieval.

# Common Share UI





# The Authority/Identifier Management Services WG

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## The Authority/Identifier Management Services WG:

- defines guidelines and best practices for Authority/Identifier management in the linked data environment;
- defines scope and data-flow for creation and implementation of services based on preliminary documentation;
- proposes additional use cases identified as essential for effective knowledge base management.

# The Authority/Identifier Management Services WG

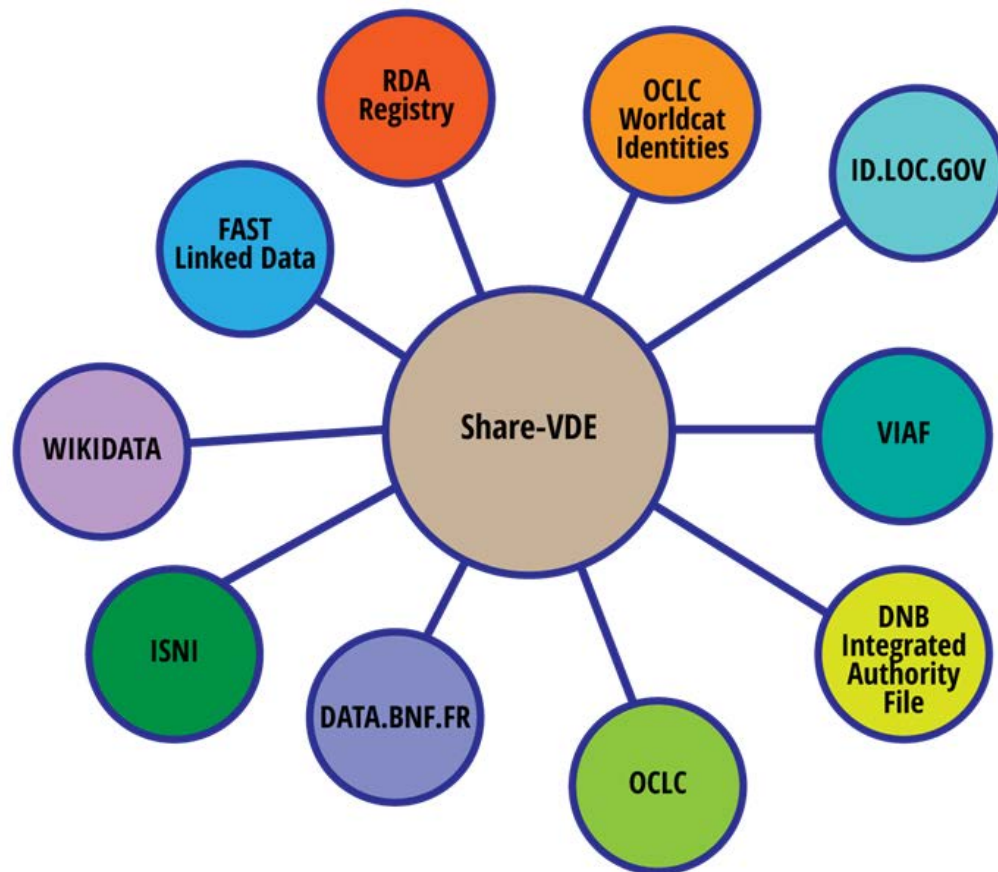
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## The main activities of the AIMS WG

- previously met jointly with CKB WG in outlining workflows for management and editing of Cluster Knowledge Base (this initial common path hasn't been random!);
- turning attention to proposed **Authority Services models and workflows**;
- interrogating current **authority processes** to align those against **proposed model**, and submit suggestions to @Cult and Casalini for comments:
  - prepare recommendation for authority workflows;
  - investigate additional vocabularies and authority sources that can be used in SVDE.

# Some of the external sources used in Share

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# Something new to add to the AIMSTOR?

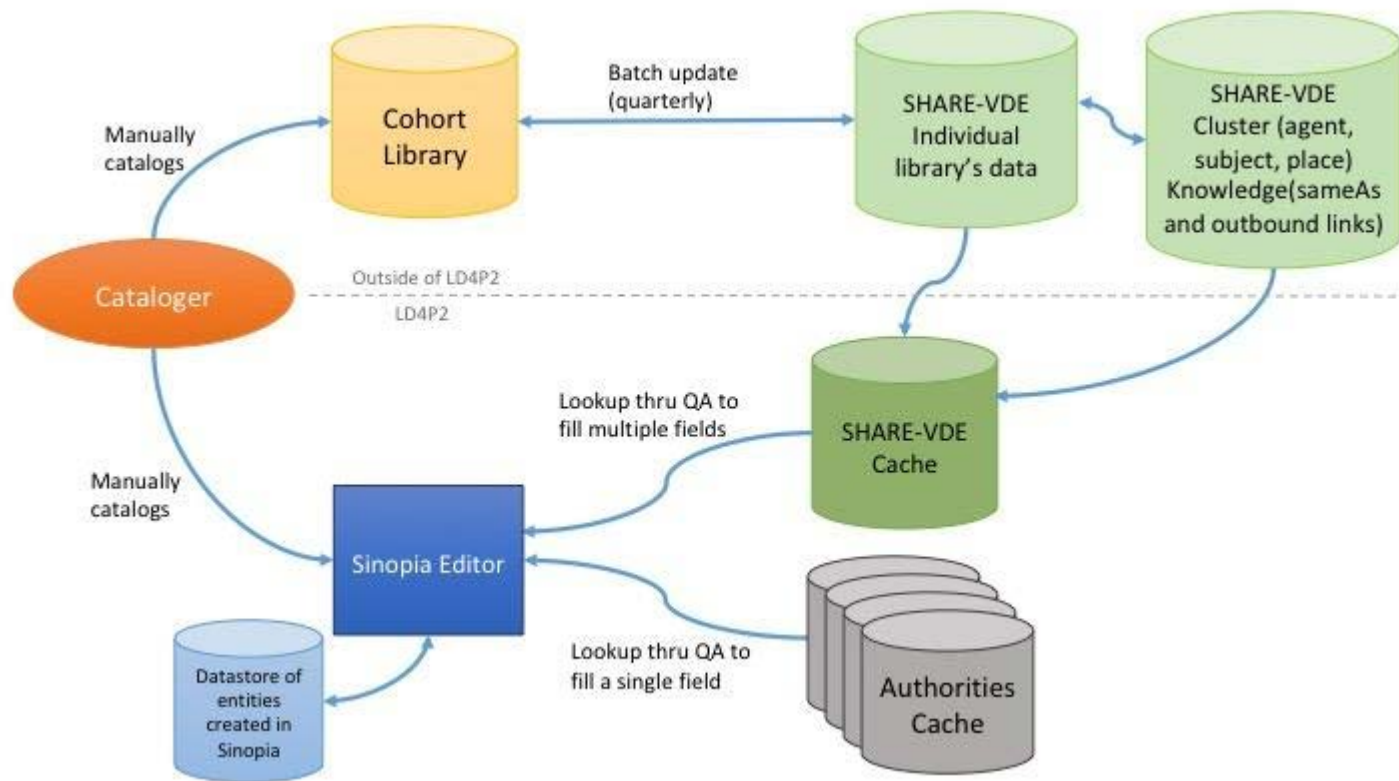
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What will happen in the next scenario, when both "Entity Management" and "Authority Files" will live together in a library?

The next challenge will be managing both, creating APIs to stay on line, defining conversion processes from BF to Marc etc.

*But this hybrid "future" scenario is not so "future"... A few steps towards a very near future*

# Hybrid scenario: a possible data flow





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Thank you!

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