



Use case implications for changes

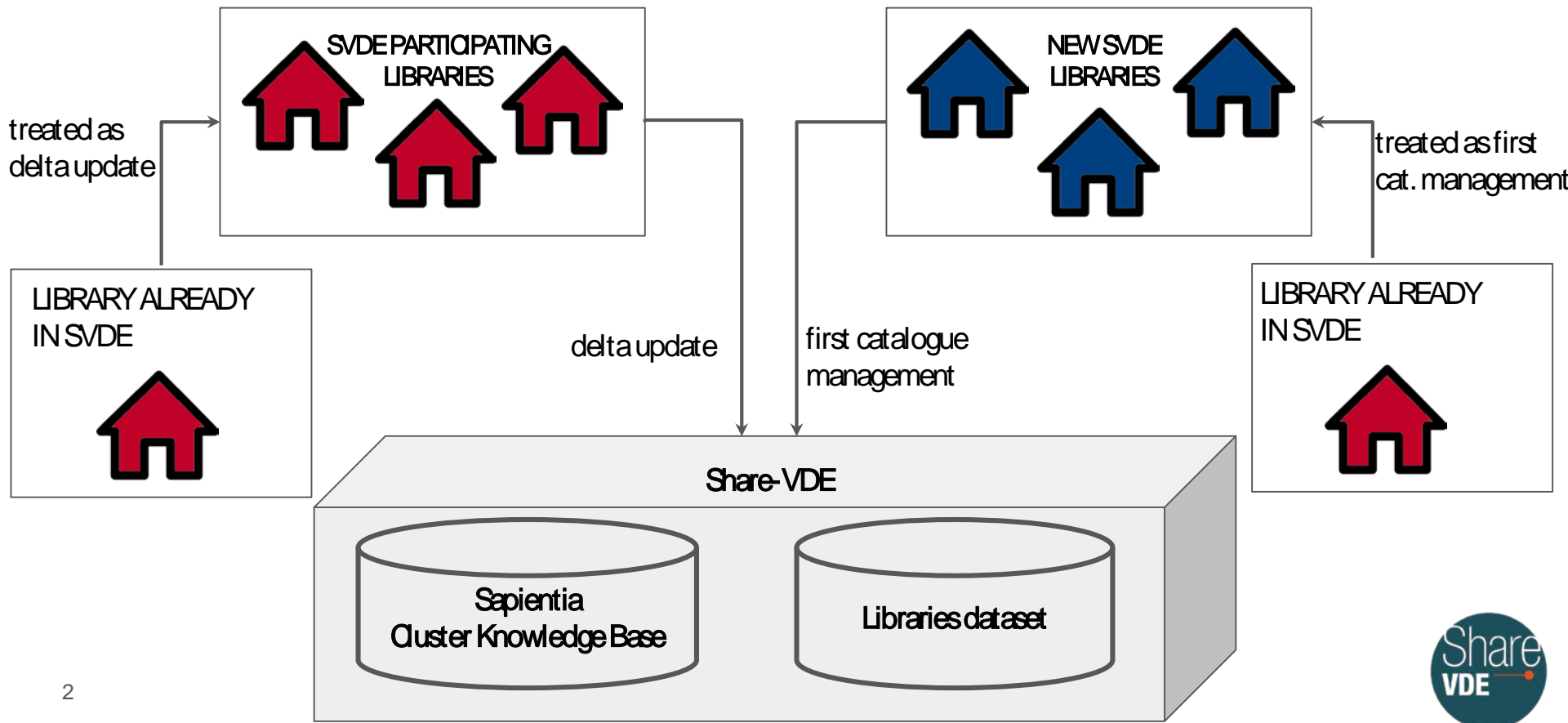
Tiziana Possemato, @Cult - Casalini Libri

3rd Annual European BIBFRAME workshop, 18th September



**European
BIBFRAME
Workshop**

Changes: participant or new library joining



Update in Share-VDE: automatic procedures 1/2

1. Creation of a new entity

1.1. URI Registry update

2. Update of an entity

2.1. Edit Agent entities

2.11. Case 1: the name-string is identical to the one previously entered

2.12. Case 2: the name-string is changed ONLY in the cataloged form

2.13. Case 3: the name-string is changed in the cataloged and normalized form but maintains the same sort-form

2.14. Case 4: the name-string refers to different entities or to the same entity but there is a difference in the cataloged, normalized and sort-form

2.15. Case 5: presence of a new form of name expressed in a new record tag

2.16. Case 6: name-string elimination

2.2. URI Registry update

Update in Share-VDE: automatic procedures 2/2

2.3. Update Publisher entity

2.2.1 New duster process of Publisher and interaction with the URI Registry

2.4. Update of SuperWork and Work entities

2.3.1 Procedure for comparing the SuperWork belonging to the Instance and the SuperWork generated from the automatic procedures

2.3.1.1 New duster process for SuperWork and interaction with URI Registry

2.3.2. Procedure for comparing Works associated with a SuperWork

2.3.2.1 New duster process for Works and interaction with URI Registry

2.5. Impact on the previous cluster following a replacement and / or removal

2.6. Update of records in SolrCluster and RDF through Lodify

3. Deletion of an entity

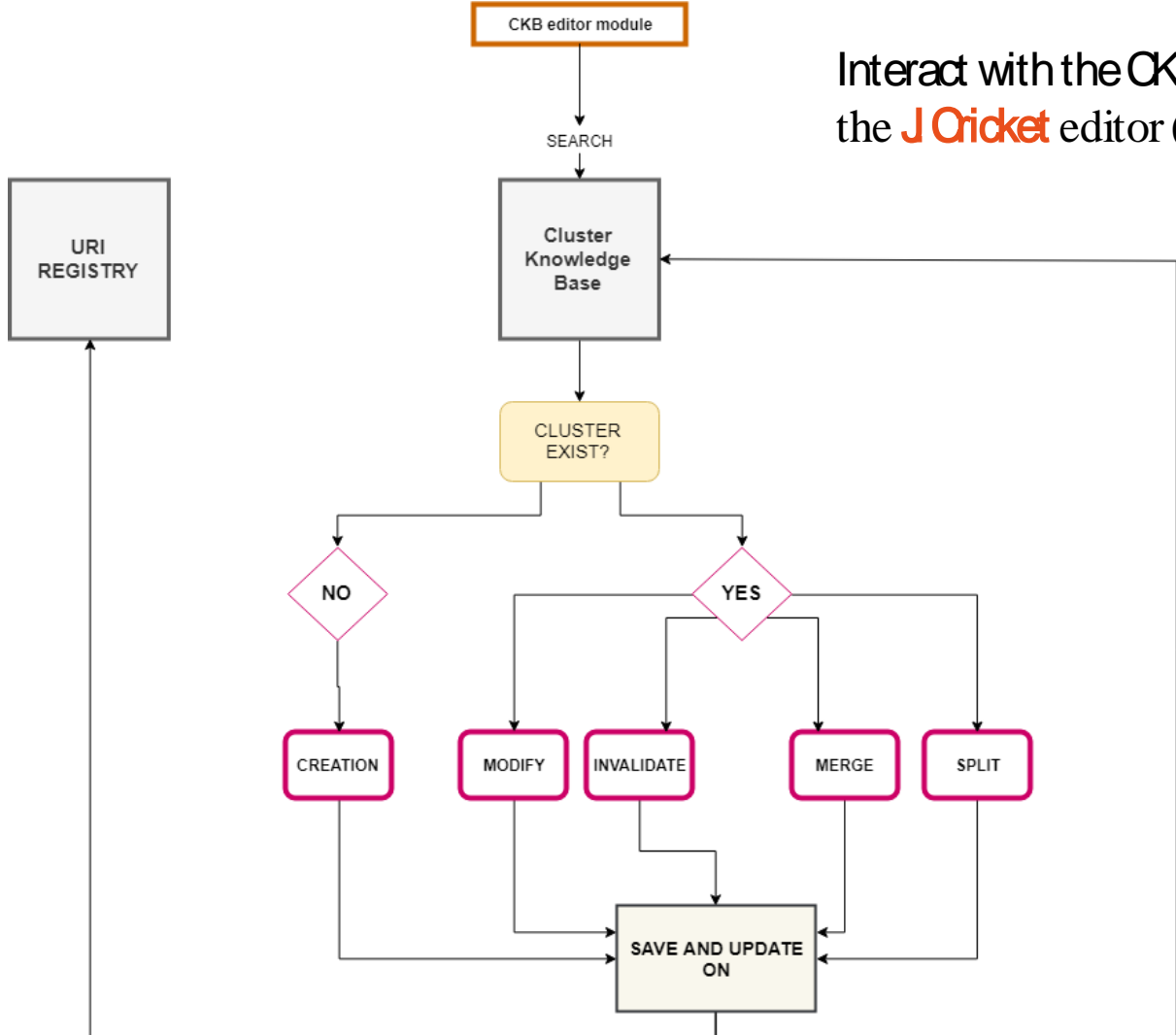
3.1. Removing records in SolrCluster and RDF via Lodify

Cluster Knowledge Base Maintenance Working Group

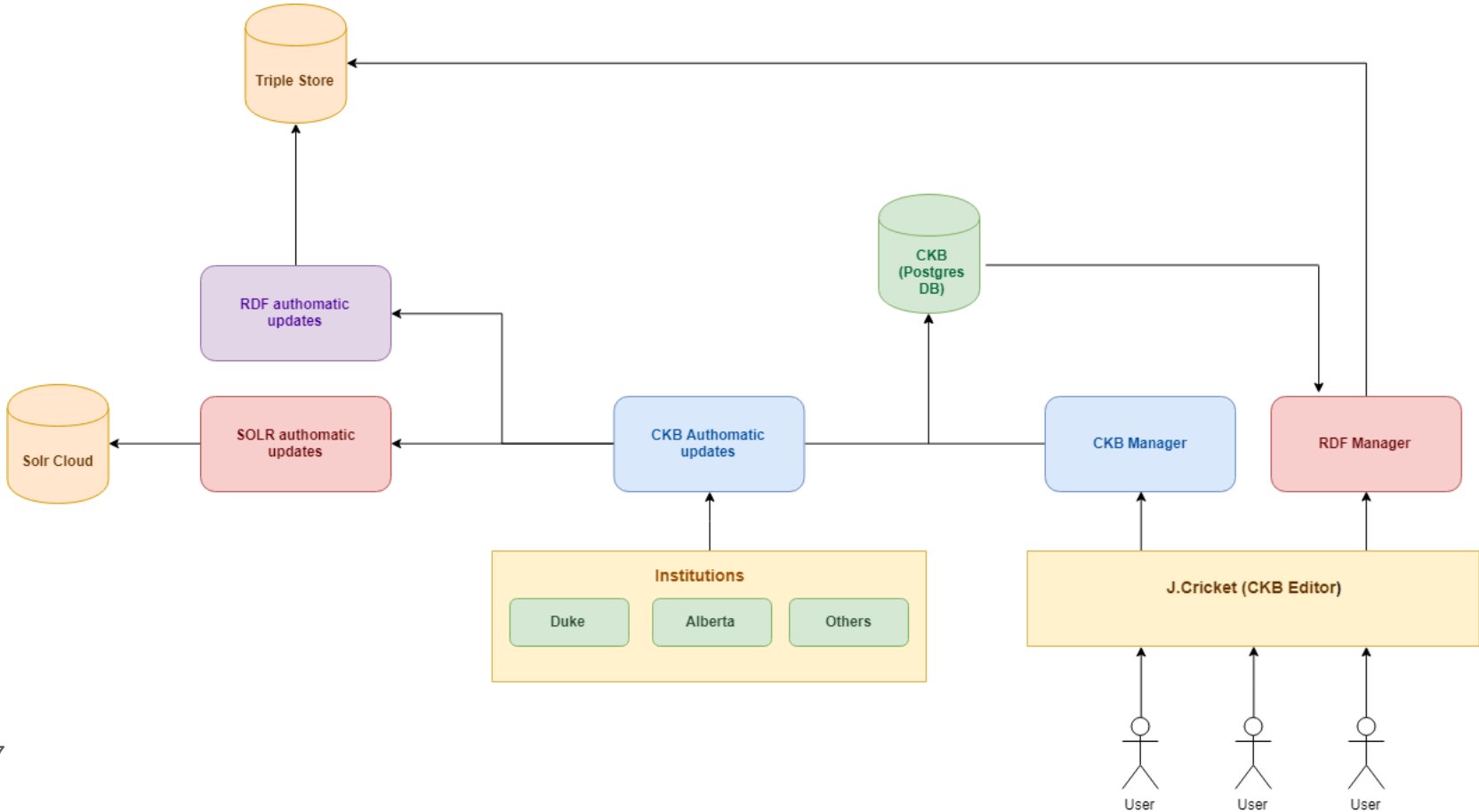
The role of **J Cricket** (the Share CKB editor) on update processes is defined by the Share Cluster Knowledge Base Maintenance Working Group:

- an essential part of the conversion process from MARC to RDF is the maintenance of metadata that have been produced and registered on the Share CKB (Sapientia);
- the group analysis how participant libraries interact with the Sapientia CKB and how they use the tool to interact (create/modify/delete) the data;
- the same approach will be applied to the data originally created in BIBFRAME (using Sinopia and other LD editors).

Interact with the CKB **Sapientia** using the **J Cricket** editor (manual process)



Automatic and manual data updates: primary/replica relationship



All changes need to be ‘registered’

The role of the URI Registry in the Share-VDE datasets

“Within this changed context, the management of URIs (Uniform Resource Identifiers) must be carefully evaluated. URIs play the role of universal unique identifiers in the technological environment of linked open data: as the issue typical of the “Web of documents” of locating resources or web pages is becoming less relevant, in the semantic Web URIs identify a specific object (thing) or, using proper terminology, an entity. In addition to having to respond to the characteristics of dereferencing, simplicity, stability and manageability, a well-structured URI must be persistent, i.e. it must not undergo changes over time in order to guarantee the correct recovery of the identified entity and the information connected to it. This aspect of persistence over time is more and more urgent, especially in the context of Linked Open Data, which opens up scenarios of use and re-use of the data much wider than the traditional context.”

URI Registry to record changes

PROCESS I: changes resulting from DELTA

UCA1 - Records created

UCA1a - Authority records

UCA1b - Bibliographic records

UCA2 - Modified records

UCA2a - Minor changes to the data

UCA2b - Substantial changes to the data

UCA3 - Deleted records

UCA3a - Authority record

UCA3b - Bibliographic record

UCA4 - Mash-up/merged records

UCA4a - Authority record

UCA4b - Bibliographic record

UCA5 - Split records

PROCESS II: changes resulting from the CKB Editor

UCB1 - Creation

UCB1a - Cluster creation

UCB1b - Creation of the URI

UCB2 - Modification

UCB3 - Invalidation

UCB3a - cluster Super Work invalidation

UCB3b - cluster Agent invalidation

UCB3c - cluster Instance invalidation

UCB3d - cluster Publisher invalidation

UCB4 - Merge

UCB5 - Split

Reports to libraries: communicate the changes

Each change in the **Sapientia** dataset (the Cluster Knowledge Base of entities) or in the Share-VDE **Libraries dataset** needs to be communicated to participant libraries:

- Reports of updates: all changes in entity cluster, that can affect the local bibliographic and authority data
- APIs: to interact with local ILS/data storages
- Messages: to alert the library about changes



Virtual
Discovery
Environment

Thank you!

tiziana.possemato@atcult.it
tiziana.possemato@casalini.it