



TECHNOLOGY

## Advanced API layer

- GraphQL technology with advanced architecture and search API layer

TECHNOLOGY

## Advanced entity model

- Advanced 4-layered entity model, based on BIBFRAME 2.0 and interoperable with multiple schemes (BIBFRAME, IFLA-LRM etc.)

TECHNOLOGY

## Tenant infrastructure

- Data of member libraries are grouped by domain or similar characteristics in ad hoc tenants
- Suitable for library consortia willing to renovate their union catalogue

SERVICE

## Triple store indexing

- Linked data descriptions created from the original MARC records and the clusters of entities in the CKB are published on a triple store and can be queried through SPARQL endpoint

SERVICE

## Integration with other systems

- Development of APIs for interoperability and cooperation with third parties (e.g. LD4P - Linked Data for Production)

SERVICE

## Authority services

- New generation of services for authority control
- Combination of automated and manual checks of data quality
- Creation of authority records

APPLICATION

## J.Cricket Editor

- J.Cricket editor for updating and modifying linked data entities

APPLICATION

## Discovery Portal 1.0

- Interface for the standard discovery system

APPLICATION

## Discovery Portal 2.0

- Advanced entity discovery system based on BIBFRAME
- Customised UI (skin)
- Integration with local APIs
- Site mapping with additional meta-tagging
- Data conversion to Schema.org

DATA

## Deliverable D1

- The library catalogue is converted according to BIBFRAME 2.0 (including additional vocabularies and ontologies as needed)
- The linked data descriptions created in the conversion are reconciled and linked to original Share URIs, and published on the discovery portal

DATA

## Deliverable D2

- The library receives the file from the Cluster Knowledge Base with the clusters of linked data entities including original Share URIs, URIs from external sources and variant forms
- The data from the Cluster Knowledge Base is published on the discovery portal and on the triple store

DATA

## Deliverable D3

- The original library records are converted to BIBFRAME 2.0 (including other vocabularies and ontologies as needed), enriched with URIs from external sources and delivered to the library

DATA

## Deliverable D4

- The MARC records from the library catalogue are enriched with original Share URIs and URIs from external sources, and published on the discovery portal