

The Share Family Cooperation and interconnection for a sustainable Linked Open Data ecosystem

CNI Project Briefing Series, May 2024

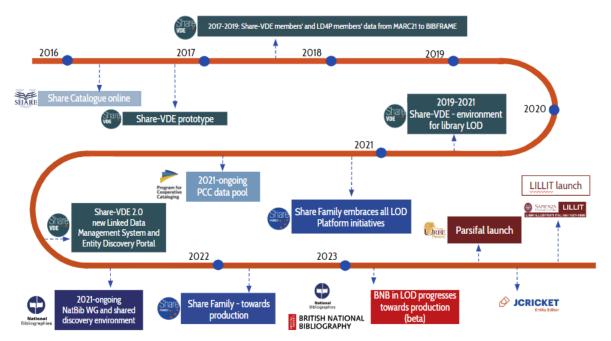
info@svde.org https://share-family.org https://svde.org https://wiki.svde.org

Vision, values, governance



Vision and stepping stones

Developed and guided by the international library community, the <u>Share Family</u> initiative envisions a future where individual libraries and consortia collaboratively define and shape the tools and principles driving advancements in discovery.





Share Family Linked Data Ecosystem values

CO-OPERATIVE

Developed and driven by libraries, for libraries, the Share Family is a growing international community built on collaboration. Participating institutions play an active role in defining the vision, aims and progress of the Share Family and its tools. INTEROPERABLE

By implementing the RDF-based BIBFRAME data model and facilitating interoperability with different data models and data pools, resource description can be transformed into Linked Data, increasing the visibility of research and encouraging greater engagement with library, archive and museum collections.

FLEXIBLE

Enriched and structured data can be reused in local and external systems, across library types and ILS/LSPs, enabling each institution to maintain control of its own catalogue data.

The Share Family opens the door to a flexible, sustainable, interoperable and co-operative approach to resource description, with time, expertise and costs shared across the community for the benefit of all members.

C SUSTAINABLE

We strive to encourage open access to data, and support diversity by freely sharing information. We apply and support open metadata policies as part of our commitment to enhancing the discovery of library and cultural heritage resources.



The quality of data is guaranteed both through advanced technical processes and through collaborative data modeling, enrichment and sharing, handled collectively by member organizations.





Member-driven governance model



The Share Family

Share Family is a global initiative developed and driven by libraries, for libraries, in an international collaborative, consortial effort. It enables the discovery of knowledge to increase user engagement with library and cultural heritage collections.

The Share Family offers library consortia the opportunity to enter into the linked open data environment and make available to their members an extensive range of new-generation bibliographic tools and an innovative resource portal.

Vision, governance and values

Vision: Developed and guided by the international library community, the <u>Share Family of initiatives</u> envisions a future where libraries collaboratively define and shape the tools and principles driving bibliographic advancements.

Governance: The direction of Share Family is overseen by the <u>Share Family Advisory Council</u>, comprising representatives from member libraries. Libraries actively participate in policy-making and tool development, sharing expertise, responsibilities, and costs to benefit the entire community and its patrons.

Values: At the core of Share Family's ethos are shared values of cooperation, openness, sustainability, and flexibility. The Share Family commits to developing long-term viability of solutions promoting shared tools and resources. It encourages interaction within an evolving ecosystem of linked data, empowering libraries to adapt and thrive in the digital age. The direction of Share Family is overseen by the Share Family Advisory Council, comprising representatives from member institutions. Representatives actively participate in policymaking and tool development, sharing expertise, responsibilities, and costs to benefit the entire community and its patrons.

Being a community initiative, the goals and desired outcomes are defined by the participating institutions through active engagement in different <u>Working Groups</u>.

https://bit.ly/SVDE-Open-Metadata-Policy https://bit.ly/SF-Executive-Summary-Consortia



Innovative framework and authoritative Kr

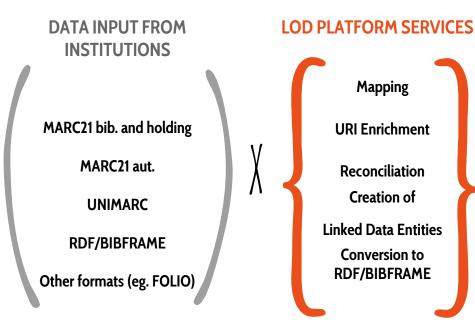
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and bibliographic data as linked data, regard

Shared tools in an integrated ecosystem



Share Family – processes and output



RESULTS

[Data Publication]

- End user discovery portals for each initiative of the Share Family
- Search APIs for data consumption (GraphQL, REST, SPARQL)

+ [Data Distribution]

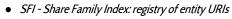
- API / protocols for third parties integration (eg. local LSPs and data editor such as Wikidata, Sinopia BIBFRAME editor, FOLIO etc.)
 - Downloadable datasets (BIBFRAME/RDF, MARC enriched records)

Shared Data Management

- Editing of Share Family entities with JCricket
- Reuse of Share Family BIBFRAME data in local library systems
- Reuse of Share Family MARC representations in local library systems

Additional Services

Authority control in MARC and BIBFRAME-based workflows





Entity Discovery Portal

The Share Family technolo available end user tools for consultation and consumption linked data-based discover reflecting BIBFRAME mode hoc extensions

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Data conversion to Schema.org

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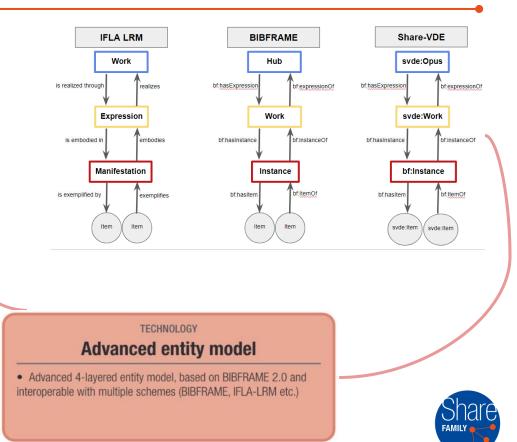


Interoperable entity model

The approach to the BIBFRAMEbased entity model is to make it as much interoperable as possible, to facilitate data exchange with other systems.

The SVDE Ontology supports the discovery functionality of the Share Family search systems and may be re-used in any system requiring a bridge among BIBFRAME, IFLA LRM and RDA.

<u>Presentation</u> and <u>preliminary version</u> available



Entity management - expanding authority control



it's a linked data entity / authority editor



it applies to linked data entities created within all tenants of the Share Family (svde.org, pcc-lod.org, natbiblod.org)



it's a manual application that that manages properties (attributes, relations and links) of entities in the CKB -Cluster Knowledge Base



it's a collaborative tool shared across member institutions



it is a new application for shared metadata management



Collaboratively manage entity metadata

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JCricket - the entity management tool



The JCricket editor is an example of how the LOD Platform technology, within the Share Family Linked Data Ecosystem, is pursuing a new way of managing descriptive data in a cooperative way:

- \star aggregation of data from multiple sources
- ★ managed through standard protocols (linked data)
- ★ in a collaborative and integrated environment
- \star that makes available open data and resources
- ★ to end users and professionals (researchers, scholars etc.)
- \star for reuse in the research community and beyond



An expanding community



The Share Family Linked Data Ecosystem



The Share Family is a global community built on collaboration that brings together libraries, archives, museums, consortia and Library Service Platforms (LSPs) to join knowledge in an ever-widening network of interconnected descriptive data.

For further details please refer to <u>https://www.share-family.org</u> and <u>the dedicated Share-VDE wiki</u> <u>section</u>.



Share-VDE - Virtual Discovery Environment



https://www.svde.org 97,1 million bib. records 13 million aut. records Berkeley Law Library - 600,000 bib. Duke University - 5,5 million bib. Library of Congress - 12 million bib. + 11 million aut. National Library of Finland - 16 million bib. + 220,000 aut. National Library of Norway - 2,3 million bib. + 2,3 million aut. National Taiwan University Library - 6 million bib. + 300,000 aut. New York University - 6 million bib. Smithsonian Libraries and Archives - 900.000 bib. Stanford University - 9 million bib. University of Alberta / NEOS Library Consortium - 6,3 million bib. University of Chicago - 12 million bib. University of Michigan Ann Arbor - 1 million bib. University of Pennsylvania - 6,5 million bib. Yale University - 13 million bib.

Share Catalogue: Scholarly Heritage and Access to Research



Share Catalogue discovery portal 5 million records Università degli Studi di Napoli Federico II Università degli Studi della Basilicata Università degli Studi del Sannio Università degli Studi di Salerno Università degli Studi di Napoli Parthenope Università degli Studi del Salento Università degli Studi di Napoli L'Orientale Università degli studi della Campania Luigi Vanvitelli Università degli Studi Suor Orsola Benincasa



National Bibliographies in Linked Open Data



https://natbib-lod.org/ 5 million records The aggregation of data from National Bibliographies in a shared entity discovery environment; the first of these is the

BNB - British National Bibliography, soon to go into production.



The linked open data BNB beta website is available at

https://bl.natbib-lod.org/



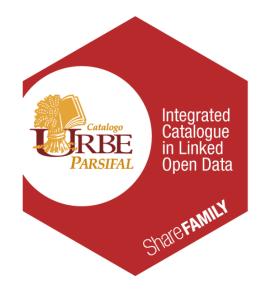
PCC Catalogue in Linked Open Data



https://pcc-lod.org/ 5 million records The Share Family hosts a dedicated tenant for the data of the PCC - Program for Cooperative Cataloging, to provide PCC-quality BIBFRAME data housed in an ad hoc data pool



Parsifal - URBE Catalogue in Linked Open Data



https://parsifal.urbe.it/parsifal/?l=en 3 million records Accademia Alfonsiana

Centro Pro Unione

Pontificia Facoltà di Scienze dell'Educazione "Auxilium"

Pontificia Facoltà Teologica "Marianum"

Pontificia Università Antonianum

Pontificia Università della Santa Croce

Pontificia Università di San Tommaso d'Aquino (Angelicum)

Pontificia Università Gregoriana

Pontificia Università Lateranense

Pontificia Università Urbaniana

Pontificio Ateneo Sant'Anselmo

Pontificio Istituto Biblico

Pontificio Istituto Orientale

Pontificio Istituto Teologico "Giovanni Paolo II" per le Scienze del Matrimonio e della Famiglia

Pontificium Institutum Patristicum Augustinianum

Università Pontificia Salesiana



Facing the future together



Facilitate information exchange and collaboration with other communities, crossreference between resources



Transform catalogs in research tools providing structured access and visibility to research in original languages in all disciplines



Improve data publication, data analysis and reuse in other projects

Open up a new level of international cooperation to maintain the growing wealth of information, while preserving local practices

Serve as an authoritative data source, contribute to an ecosystem where data modeling, enrichment and sharing are handled collectively





Thank you - please reach out with any questions

Nina Servizzi, New York University Martin Knott, University of Michigan at Ann Arbor Jacquie Samples, Duke University

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