

## **Share Family Linked Data Ecosystem**

The **Share Family linked data ecosystem** comprises several collaborative LOD - Linked Open Data environments:

- Share-VDE (Virtual Discovery Environment);
- Share-Catalogue the Italian network of university libraries;
- the PCC data pool the Program for Cooperative Cataloging (PCC) Catalogue in Linked Open Data;
- National Bibliographies in Linked Open Data;
- Parsifal the LOD portal of the URBE consortium (Roman Union of Ecclesiastical Libraries);
- Kubikat-LOD pilot project the LOD portal for the catalogues of Kubikat Art History libraries;
- three pilot projects Share-Art, Share-Music, Share-MIA (Manuscripts, Incunabula, Ancient books) respectively in the Art, Music and Ancient book domains;
- LILLIT: portal for Italian illustrated books 1501-1800.

The different characteristics of each field are a useful asset that can be used to the advantage not only of the Share Family as a whole, but for each single discipline.

Being part of the Share Family linked data ecosystem means facilitating cataloguing and exposition of bibliographic records in linked data, thus supporting the transition from the traditional cataloguing environment to innovative models applying the linked data paradigm, and providing the LAM - Libraries, Archives, Museums domain and information professionals with a more comprehensive suite of tools at their disposal.

The platform www.svde.org and the other dedicated environments part of the Share Family enhance the discovery potential of library resources and unveil information that would otherwise have been hidden in archives, thus enabling the access to a rich amount of data that can be exported and re-imported by the participating institutions.

The output common to all the branches of the Share Family foresees:

- the enrichment of original MARC data and of the records converted in linked data with identifiers from external sources (e.g. ISNI, VIAF) and original Share identifiers;
- the reconciliation and clusterization of entities;
- the indexing of records in the Cluster Knowledge Base, authoritative environment in linked data;
- the conversion of library catalogues from MARC to linked data;
- delivery of converted and enriched data to libraries for reuse in their systems;
- the publication of library records in linked data on the relative Share discovery platform.

Download the **Share Family brochure** for public distribution.

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### The Share Family technology: the LOD Platform

The technology underlying the systems part of the Share Family is based on the LOD Platform, that is a highly innovative technological framework, an integrated ecosystem for the management of bibliographic, archive and museum catalogues, and their conversion to linked data, extensible as needed for specific purposes.

For more details, see a summary of the **main components of the LOD Platform** and an **extensive description** of the framework.

The Share Family technology relies on a **tenant infrastructure**. In the system architecture, a tenant is a pool of institutions contributing to the same Cluster Knowledge Base. Multiple tenants form the Share Family. Family members can interoperate among respective Cluster Knowledge Bases through a centralized registry.

### The Share Family branches (tenants)

The Share Family of initiatives includes different branches and sister projects, supported by the same LOD Platform technology. Each branch or project is hosted in a specific tenant of the system architecture with a corresponding specific Cluster Knowledge Base and a dedicated web entity discovery portal. For more details on how the Share Family tenant infrastructure is designed see the **Summary of Share Family tenants**.

In some cases, within a single tenant a customised skin (ie. a sub-portal of the main entity discovery) can be created to address ad hoc needs of an institution, or group of institutions, willing to expose only their own data or to integrate local services in the Share Family environment. For example, the entity discovery portal at svde.org is the discovery corresponding to Share-VDE tenant, including a pool of data from several institutions, and the respective skin portals / institutional portals.

While the main entity discovery portal of a tenant shows the data of all the institutions feeding the tenant's Cluster Knowledge Base, the skin portal / institutional portal gives the ability to filter only the data of the institution or group of institutions that the skin/institutional portal has been designed for.

Tenant name	Share-VDE	Share- Catalogue	PCC data pool	National Bibliographies	Parsifal	LILLI
Tenant discovery portal URL	https://svde.org	http://catalogo. share-cat. unina.it/	https://pcc- lod.org	https://natbib- lod.org	https://parsifal. urbe.it /parsifal/	https://lil share- family.or /lillit/
					catalogues of Parsifal member	Linked Open Da



Tenant name	Share-VDE	Share- Catalogue	PCC data pool	National Bibliographies	Parsifal	LILLI
Data hosted in tenant CKB	catalogues of SVDE member libraries converted to linked data	catalogues of Share- Catalogue member libraries converted to linked data	records of PCC members converted to linked data	national bibliographies of institutions participating to this branch converted to linked data	libraries (libraries of the URBE consortium - Roman Union of Ecclesiastical Libraries) converted to linked data	description and illustratic of Italian editions printed in the 16th-18th centuries
Institutional portals within the same tenant	one skin portal for each member institution	not available yet	not foreseen	British National Bibliography (others TBD)	not available yet	not foreseen
Institutional portal URL	initial version of skin portals (others in progress):  https://duke.svde.org/ https://loc.svde.org/ https://natlibfi.svde.org/ https://nln.svde.org/ https://penn.svde.org/ https://smithsonian.svde.org/ https://stanford.svde.org/ https://stanford.svde.org/	not available yet	not foreseen	https://bl. natbib-lod.org/ (preview of a beta site)	not available yet	not foreseen



Tenant name	Share-VDE	Share- Catalogue	PCC data pool	National Bibliographies	Parsifal	LILLI
	https://uchicago. svde.org					
	https://yale.svde. org					

# The Share Family institutions and map

The Share Family institutions can participate in one or more tenants. Here follows the summary of the institutions part of the Share Family tenants and its network.

Share-VDE tenant full members	Share- Catalogue Institutions	PCC tenant members	LD4P cohort members	National Bibliographies tenant	Parsifal	LILLIT
Berkeley Law Library	Università Degli Studi di Napoli "Federico II"	PCC member libraries	Cornell University	The British Library* - British National Bibliography	Accademia Alfonsiana	La Sapier Univer di Ron
Duke University	Università degli Studi della Basilicata		Frick Art Reference Library		Centro Pro Unione	
Lehigh University	Università degli Studi di Cassino		University of Texas A&M		Pontificium Institutum Patristicum Augustinianum	
New York University	Università Degli Studi di Napoli L' Orientale		Harry Ransom Center Texas A&M		Pontificia Facoltà di Scienze dell'Educazione "Auxilium"	
Stanford University	Università degli Studi di Napoli Parthenope		Harvard University		Pontificia Facoltà Teologica "Marianum"	



Share-VDE tenant full members	Share- Catalogue Institutions	PCC tenant members	LD4P cohort members	National Bibliographies tenant	Parsifal	LILLIT
University of Alberta - NEOS consortium	Università del Salento		National Library of Medicine		Pontificia Università Antonianum	
University of Chicago	Università degli Studi di Salerno		Northwestern University		Pontificia Università della Santa Croce	
University of Michigan at Ann Arbor	Università degli Studi del Sannio		Princeton University		Pontificia Università di San Tommaso d'Aquino (Angelicum)	
University of Pennsylvania	Università degli Studi della Campania "Luigi Vanvitelli"		University of California Davis		Pontificia Università Gregoriana	
University of Toronto	Università degli Studi Suor Orsola Benincasa		University of California San Diego		Pontificia Università Lateranense	
Yale University			University of Washington		Università Pontificia Salesiana	
Library of Congress*			University Colorado at Boulder		Pontificia Università Urbaniana	
National Library of Finland*			University of Minnesota		Pontificio Ateneo Sant'Anselmo	



Share-VDE tenant full members	Share- Catalogue Institutions	PCC tenant members	LD4P cohort members	National Bibliographies tenant	Parsifal	LILLIT
National Library of Norway*					Pontificio Istituto Biblico	
Smithsonian Institution*					Pontificio Istituto Teologico "Giovanni Paolo II" per le Scienze del Matrimonio e della Famiglia	

<sup>\*</sup>National Libraries

The Share Family map can also be consulted on a dedicated web page.

