

## D:3.3.2 Supporting the research use of large-scale cultural heritage metadata

### Bibliographic metadata collections

Previously, we have created resources for gathering, harmonizing, enriching, and summarizing structured metadata collections from the Finnish National Library (**Fennica**). We have also created a semi-automated refinement workflow of the **Fennica** dataset and analysis workflow implemented in Quarto and published on CSC Rahti as Gitbook. See QR code. We have developed data science methods such as algorithmic workflows and quality controlled open-source datasets which can be used for research, training, and outreach purposes.

#### Fennica

**Fennica** is the Finnish National Bibliography is a database dedicated to the Finnish national imprint. It encompasses metadata for over a million documents, including books, newspapers, maps, etc., with records spanning from 1488 to the present.

#### Finna

**Finna** is home to Finnish cultural and science resources. **Finna** brings materials from museums, libraries and archives (finna.fi).

#### Finto

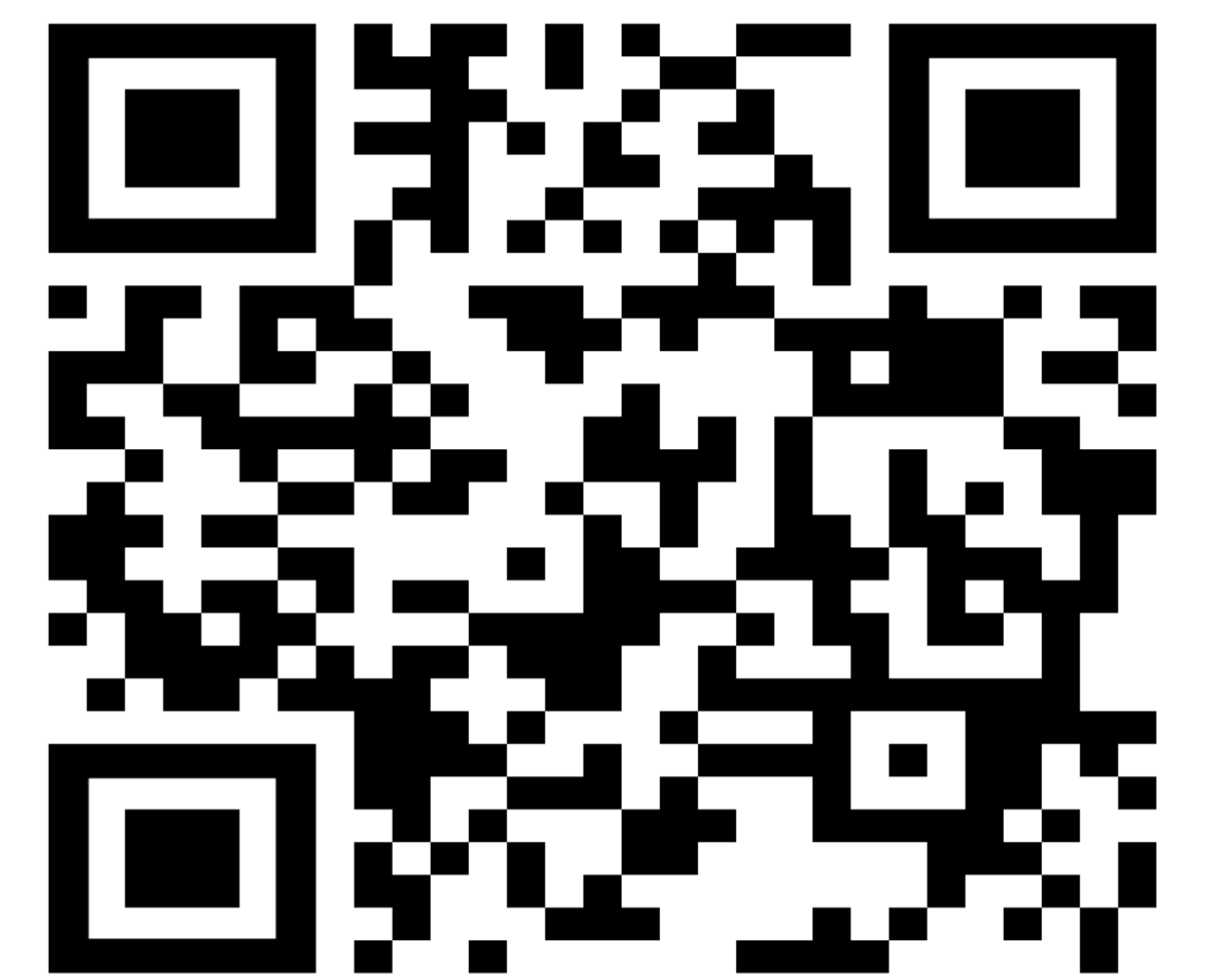
**Finto** is a thesaurus and ontology service. **Finto** contents include e.g. General Finnish Ontology YSO and YSO-places, a Metadata thesaurus, and Kanto - national agent names (finto.fi)

### Scaling up cultural heritage metadata analysis

**Objective:** to bridge the gap between data and computational resources, in order to facilitate quantitative research on structured cultural heritage metadata collections.

Further metadata resources are openly available for complementary types of cultural heritage from archives, libraries, museums, and other actors; a prominent domestic source for such data is the **Finna** database.

Our new task is to expand the scope of the metadata collections that are seamlessly interlinked with computational and data analytical research ecosystems.



Fennica metadata conversions:  
statistical monitoring and analysis  
URL: <https://fennica-fennica.rahtiapp.fi/>

### TASK #1

Implement a systematic approach for retrieving metadata from **Finna** into open-source computational environments for scientific data analysis. Enlarge **Fennica**'s structured data research infrastructure with resources from **Finna** and further resources from **Finto**, such as geospatial information and authors' names.

### TASK #2

Publish data science methods that take advantage of interlinking and enriching structured metadata with further sources.

### TASK #3

Release open data science methods for the analysis and visualization cultural heritage metadata collections.

