

Museums, Linked Open Data, and the Wikimedia Projects

Lucy Patterson

Wikimedia Deutschland

lucy.patterson@wikimedia.de

Stell dir eine Welt vor, in der das gesamte Wissen der Menschheit allen frei zugänglich ist.

ALLMENDE



WIKIMEDIA
DEUTSCHLAND

Wikidata

- Over 100 million items - people, places, events, objects, publications, artworks, concepts etc
- Anyone can edit, 22,913 active users
- Multilingual
- Machine-readable
- CC0
- Since 2012
- [Find out more](#)



Image: [Lea Lacroix \(WMDE\)](#), [WD10 - landscape background - 10 shape - light](#), [CC BY-SA 4.0](#)

Wikidata as a universal linking hub

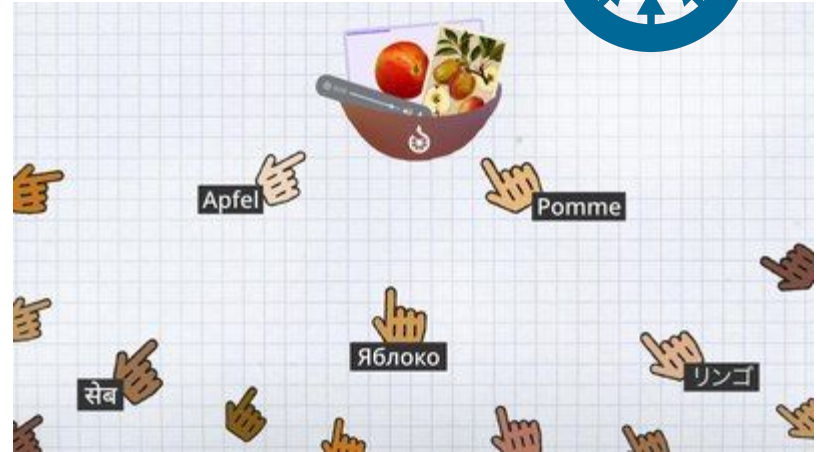
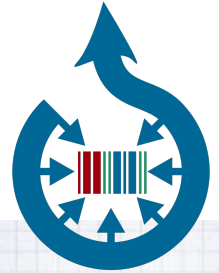
for authority
files,
ontologies,
vocabularies..



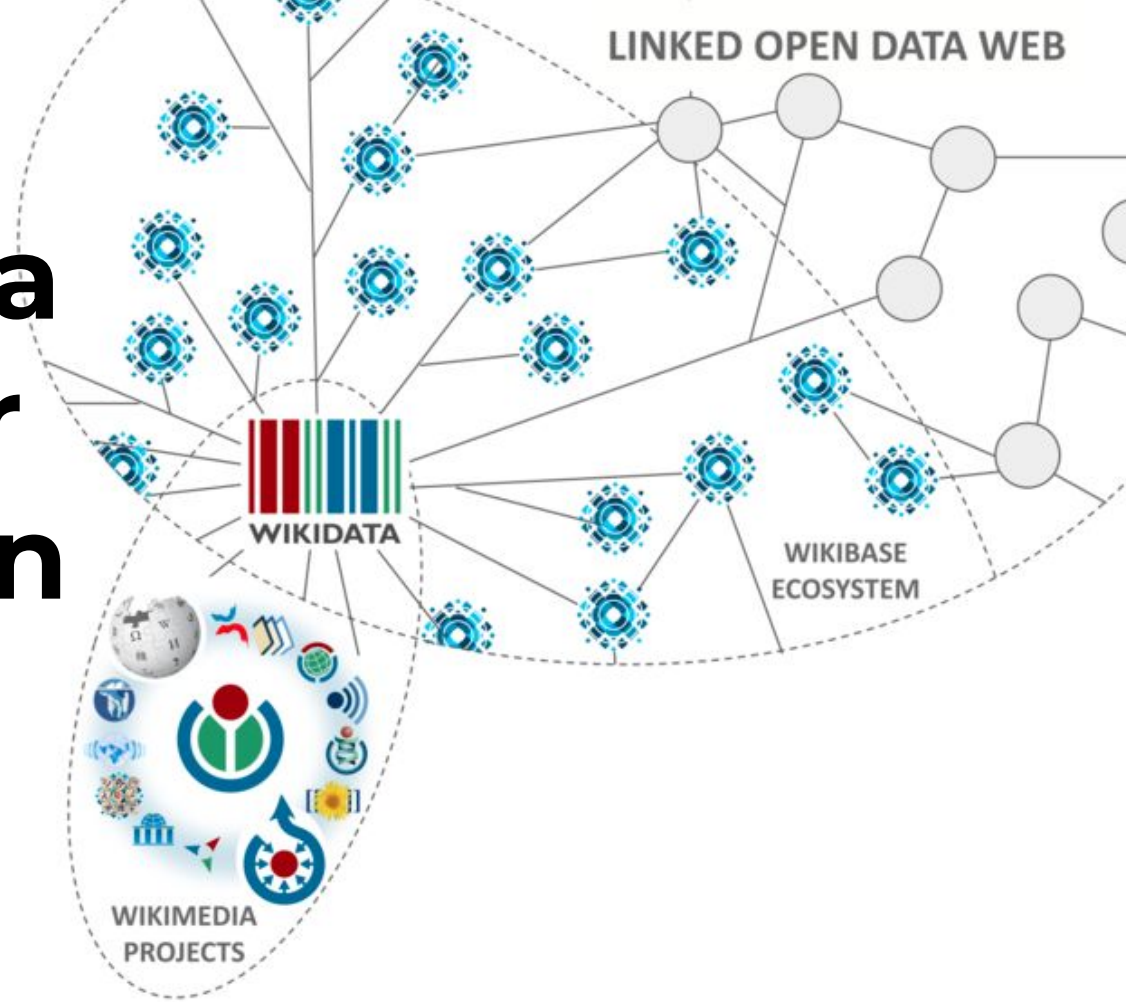
VIAF ID
ISNI
BAnQ author ID
NORAF ID
National Library of Brazil ID
CANTIC ID
National Library of Chile ID
Biblioteca Nacional de España ID
Bibliothèque nationale de France ID
Canadiana Name Authority ID
Canadiana Authorities ID (former scheme)
DBC author ID
GND ID
Deutsche Biographie (GND) ID
ELNET ID
FAST ID
National Library of Greece ID
SBN author ID
National Library of Israel J9U ID
Union List of Artist Names ID
National Library of Korea ID
Library of Congress authority ID
National Library of Lithuania ID
LNB ID
NDL Authority ID
CiNii Books author ID
NKCR AUT ID
Libraries Australia ID
National Library of Russia ID
NSK ID
Nationale Thesaurus voor Auteurs ID
NUKAT ID
PLWABN ID
Portuguese National Library ID
RERO ID
Libris-URI
SELIBR ID
CONOR.SI ID
Slovak National Library ID (VIAF)
IdRef ID
WorldCat Identities ID
chART person ID
AKL Online artist ID
Archives at Yale names ID
Artcyclopedia artist ID
artist-info artist ID
Artnet artist ID
Artsy artist ID
Athenaeum person ID
AWARE ID
Babelio author ID
Basque Wikidia ID
Benezit ID
BHCL UUID
Biblioteca Nacional de México ID
Bloomsbury Fashion Central ID
British Museum person or institution ID
Brockhaus Enzyklopädie online ID
BVMC person ID
CANTIC ID (former scheme)
CCAB ID
Christie's creator ID
CLARA-ID
Collective Biographies of Women ID
Comic Vine ID
CONOR.SR ID
Cultureel Woordenboek ID
DACS ID (former)
De Agostini ID
Den Store Danske ID
Discogs artist ID
DUC ID
Enciclopedia delle donne ID
Encyclopædia Britannica Online ID
Encyclopædia Universalis ID
Encyclopedia of China ID (Third Edition)
English Wikidia ID
Europeana entity
Eveve ID
Fandom article ID
MediaWiki page ID
FemBio ID
FilmPolski press collection ID
Encyclopaedia ID

Structured data on Commons

- Model metadata for media files on Wikimedia commons using Wikidata ontology.
- Machine-readable
- Multilingual
- Improves searchability, new way to explore content
- Since 2020
- [Find out more](#)



Wikimedia Projects as a platform for Linked Open Data





& Wikimedia

GLAMs and other institutions around the world contribute to the Wikimedia projects, in collaboration with the Wikimedia communities.

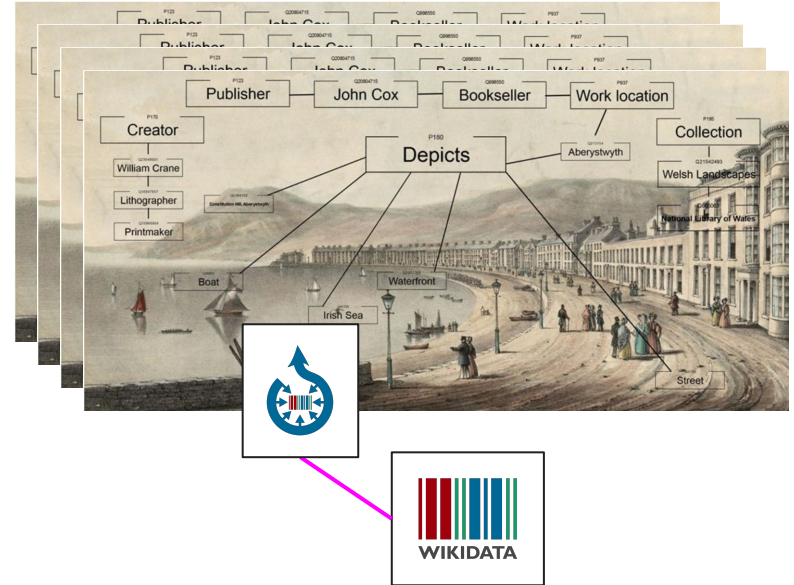
This can include **supporting Wikipedia** (e.g. by hosting edit-a-thons) and *increasingly* **contributing structured data to Wikimedia Commons, Wikidata, Wikisource, Wikibase.**



Image: [C. W. Peale - The Artist in His Museum](#), Public Domain.

What does this look like?

For example, a museum has digital surrogates of a collection of artworks and uploads them to Wikimedia commons including metadata as structured data using openrefine. Additional metadata is added to wikidata to make this possible.



[Image](#) based on [Marine_Terrace_Aberystwyth.jpeg](#) Public Domain, National Library of Wales.

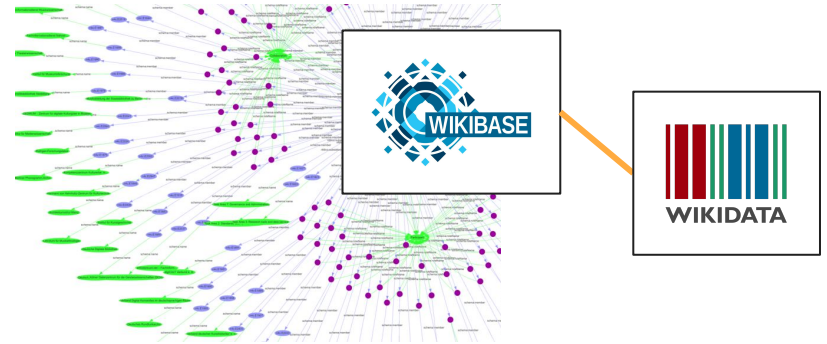
What does this look like?

For example, an archive wants to make their digitised records/fonds more findable so adds direct links to them to the wikidata items of the subjects of those records/fonds using “archives at” statements. They also add new items to wikidata to make this possible.



What does this look like?

For example, a partner has a very specific, niche kind of data that is not relevant for the commons. The institution uploads their ontology to wikidata then models the rest of the data in a federated wikibase instance.



Why?

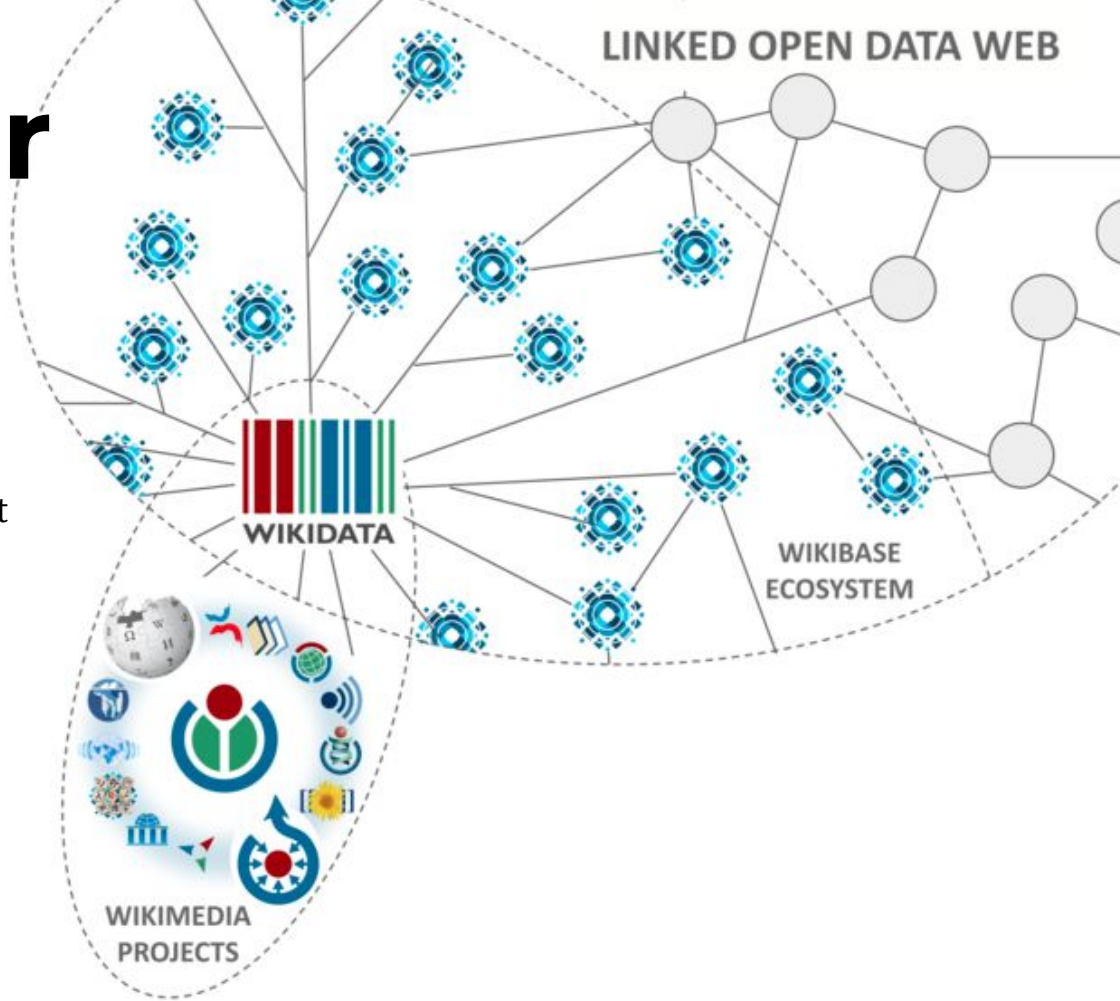


WIKIMEDIA
DEUTSCHLAND



Surface your data

- Linking data to the commons makes it **findable**.
- Structured data in the wikimedia projects is not just open... it's [FAIR](#) 5* Linked Open Data.



Tidy up your data

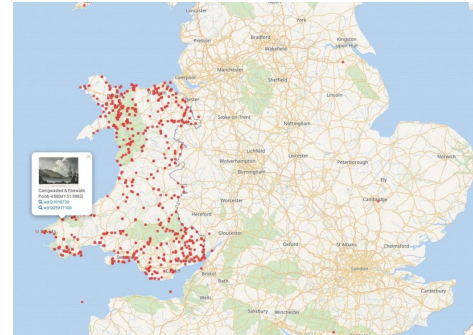
- The process of reconciliation and upload to wikidata can uncover errors in your data (and in wikidata), e.g. by correcting typos or disambiguating people and places

The screenshot shows the OpenRefine interface for a dataset titled "Icelandic women artists". The main table displays 12 rows of data. The columns are "All", "Artist", "Lifespan", and "Profession". The "Artist" column is expanded to show a list of names with checkboxes for selection. A modal dialog box is open over the "Jónsdóttir, Jóni" entry, showing a match with the Wikidata item "Jónsdóttir, Jóni (Icelandic artist, born 1972)".

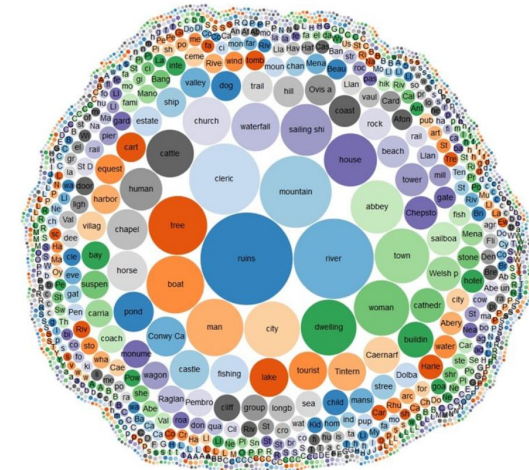
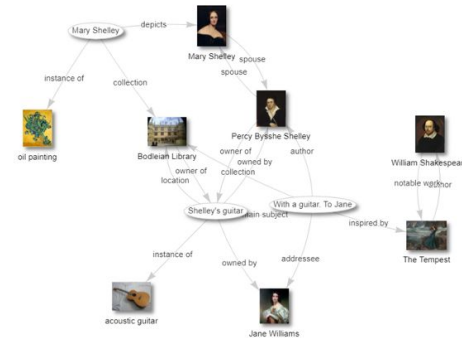
	All	Artist	Lifespan	Profession
1.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Anna Jóleisdóttir <input checked="" type="checkbox"/> Hübschmannov'a, Anna (11) <input checked="" type="checkbox"/> Macková, Anna (11) <input checked="" type="checkbox"/> Neborová, Anna (11) <input checked="" type="checkbox"/> Tweeddale, Anna (11) <input checked="" type="checkbox"/> Anders, Anna (11) <input checked="" type="checkbox"/> Beeck, Anna (11) <input checked="" type="checkbox"/> Heindl, Anna (11) <input checked="" type="checkbox"/> Jermolaewa, Anna (11) <input checked="" type="checkbox"/> Wässer, Anna (11) <input checked="" type="checkbox"/> Matoušková, Anna (11) <input checked="" type="checkbox"/> Create new item	born 1947	contemporary artist
2.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Fridriksdottir, Gabriela <input checked="" type="checkbox"/> Choose new match	born 1971	painter, sculptor
3.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Helgadóttir, Gerður <input checked="" type="checkbox"/> Choose new match	1928–1975	sculptor, stained-glass artist
4.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Gunnfríður Jónsdóttir <input checked="" type="checkbox"/> Jónsdóttir, Jóni (19) <input checked="" type="checkbox"/> Create new item	1889–1968	sculptor
5.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Sveinsdóttir, Júlíana <input checked="" type="checkbox"/> Choose new match		
6.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Sigurdardóttir, Katrín <input checked="" type="checkbox"/> Choose new match		
7.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Kristín Jónsdóttir <input checked="" type="checkbox"/> Jónsdóttir, Jóni (19) <input checked="" type="checkbox"/> Create new item		
8.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Matthíasdóttir, Louisa <input checked="" type="checkbox"/> Choose new match		
9.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Margret the Adroit <input checked="" type="checkbox"/> Choose new match		

<https://openrefine.org/>

Analysis & Visualisations



- [Wikidata Query Service](#) to query your data alongside the resort of wikidata
- Federated queries include data retrieved from a [limited number of external sources](#) (SPARQL endpoint)
- Built-in visualisation options to display results



Platform for collaboration and engagement

- Enrich your data through roundtripping
- Collective authorship - over time the community will build on your data (passive)
- Crowdsourcing campaigns: Image tagging competitions, geotag-a-thons, Translate-a-thons (active)

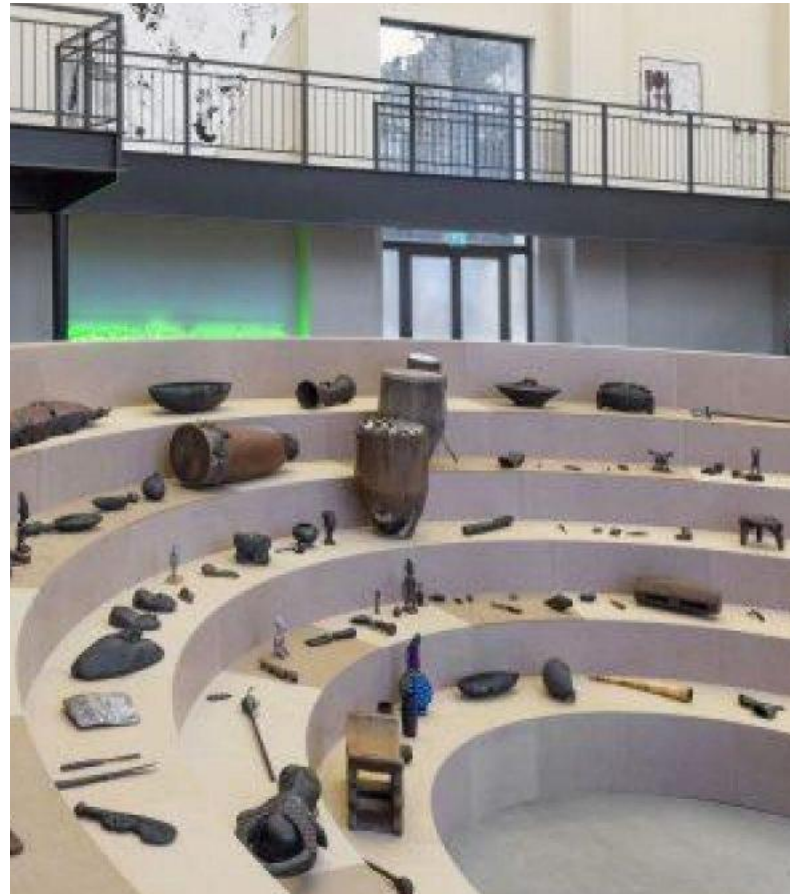


Images: [Islahaddow](#), [ISA Structured Data logo](#), [CC BY-SA 4.0](#), and title page from [Wikimedia Commons Data Roundtripping Final report](#), Albin Larsson, Susanna Anäs, Maarten Zeinstra, [CC BY-SA 4.0](#)

Decentering

Brücke Museum exploring colonial legacy of the Brücke group. Project to digitise a collection of ethnographic artefacts of unknown provenance collected by the Brücke artists.

WHY WIKIMEDIA: Chose Wikimedia Commons as they wanted to decentre themselves and Western knowledge traditions and invite contributions from communities of origin.



Where to start?

- [Structured data for GLAM-Wiki - Meta](#)
- If you're working with marginalised knowledge, get in touch!





Thank you!

Lucy Patterson

Wikimedia Deutschland

lucy.patterson@wikimedia.de