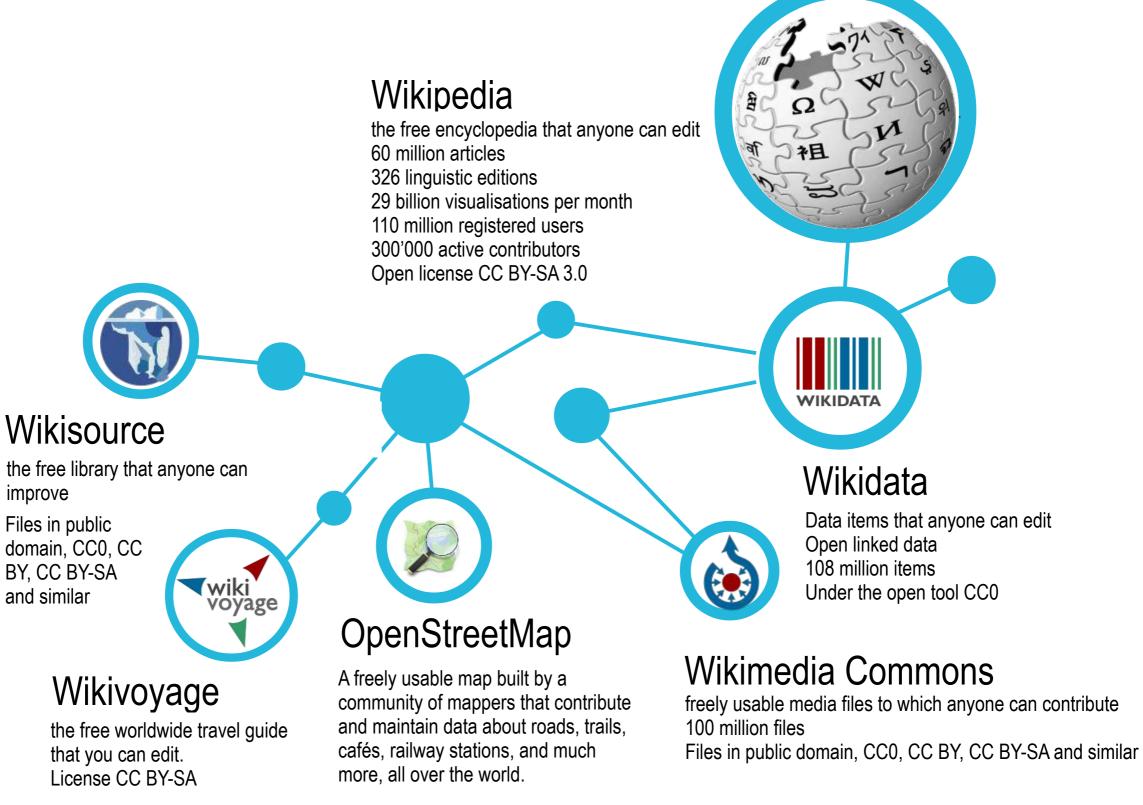
# Wikimedia projects and OpenStreetMap as an Open Research Infrastructure

Iolanda Pensa, iolanda.pensa@supsi.ch senior research and head of Culture and territory research area at SUPSI - Institute of Design chair Wikimedia Italia February 2024, FOSDEM, Bruxelles, CC BY-SA 4.0 An existing, open and free ecosystem of resources maintained by open multilingual international communities of volunteers





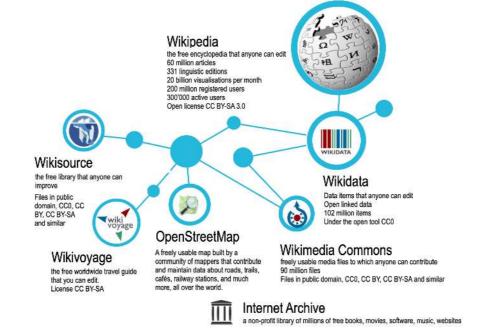
### **Internet Archive**

a non-profit library of millions of free books, movies, software, music, websites

Wikipedia and the Wikimedia projects are websites managed by online communities. Last update February 2024 Wikimedia Foundation is the institution supporting Wikipedia and the Wikimedia projects and managing their servers.

Last update February 2024 https://stats.wikimedia.org/#/all-projects

An existing, open and free ecosystem of resources maintained by open multilingual international communities of volunteers





### Already a research infrastructure, in particular Wikidata

SCHILLA Author Work - Organization - Location - Event - Project - Award Topic - Tools - Help -

Scholia is a service that creates visual scholarly profiles for topics, people, organizations, species, chemicals, etc using bibliographic and other information in Wikidata. More info...

Scholia relies on Wikidata, and Wikidata contains only a limited albeit growing subset of the corpus of scholarly literature, its authors and citations. Read more about the limitations in the FAQ or check the statistics.

### Search

Search for a scientist, topic, publication, organization, award, event, etc.

### Examples

#### **Profiles**

#### **Denny Vrandečić**

View the researcher profile for the Semantic Web researcher Denny Vrandečić. It shows his papers, coauthors, etc.

#### **Technical University of Denmark**

View the profile for an organization: People associated with the organization, their publications, the co-author patterns, etc.

#### NeuroImage

View information about a venue, e.g., a scientific journal or scientific conference. Here, the *NeuroImage* 

#### Combinations

Scholia can show multiple items together.

#### Technical University of Denmark and University College London

Compare two or more organizations. Here a comparison between two universities with collaborating researchers, number of publications and citations.

#### Tim Berners-Lee, James Hendler and Ruben Verborgh

Compare three Semantic Web researchers.

### Redirects

If you know the external identifier of a concept, then Scholia can make a lookup based on it:

#### twitter/utafrith

Look up by Twitter username @utafrith. This will identify the London-based researcher Uta Frith and redirect to her Scholia page.

#### twitter/mitpress

Redirect also works for organizations, here MIT Press

orcid/0000-0002-5494-8126 Lookup 0000-0002-5494-8126 that

Search

### 2015

Mietchen D, Hagedorn G, Willighagen E, Rico M, Gómez-Pérez A, Aibar E, Rafes K, Germain C, Dunning A, Pintscher L, Kinzler D (2015) Enabling Open Science: Wikidata for Research (Wiki4R). Research Ideas and Outcomes doi: 10.3897/rio.1.e7573

### 2019

Farda-Sarbas, M & Müller-Birn, C (2019) Wikidata from a Research Perspective - A Systematic Mapping Study of Wikidata

### 2022

Zhao , F (2022) A systematic review of Wikidata in Digital Humanities projects. Digital Scholarship in the Humanities, 2023, 38, 852–874 https:// doi.org/10.1093/IIc/fqac083 Advance access publication 28 December 2022

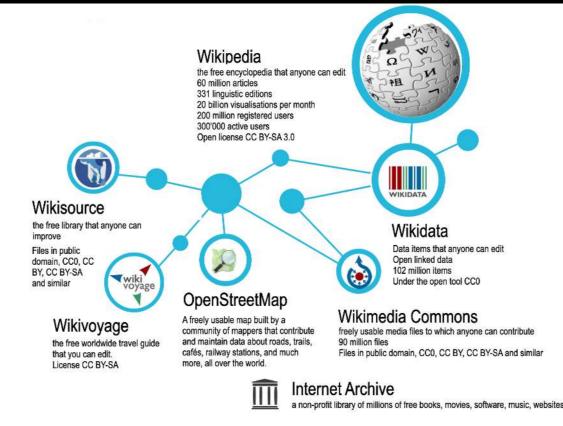
Create Wiki4R an innovative virtual research environment (VRE) for Open Science at scale, engaging both professional researchers and citizen data scientists in new and potentially transformative forms of collaboration. It is based on the realizations that

- I. the structured parts of the Web itself can be regarded as a VRE
- 2. such environments depend on communities,
- closed environments are limited in their capacity to nurture thriving communities.

Wiki4R will therefore integrate Wikidata, the multilingual semantic backbone behind Wikipedia, into existing research processes to enable transdisciplinary research and reduce fragmentation of research in and outside Europe. It might be valuable to see more use cases from other disciplines, such as social sciences or humanities. It might be valuable, for example, to use Wikidata in educational or museum settings. Recommendations about the use of Wikidata in DH digital humanities:

- I. Utilize domain sources in comparison or complement with Wikidata [...] Wikidata serves as a supplement to domain-specific resources and is a significant resource for projects that require niche or cross-domain resources.
- 2. Encourage domain communities to co-develop practices, tactics, and strategies to interact with Wikidata.
- 3. Design workflows that coordinate technical and labour resources from projects and Wikidata. A workflow design that optimizes technical support from both Wikidata and the project's technicians, as well as the human participation of domain experts, project users, and crowdsourcing forces on Wikidata or the project's own platforms is essential for taming Wikidata's ambivalent nature and maximizing its potentials for DH initiatives.

# Wikimedia projects and OpenStreetMap as an Open Research Infrastructure for arts, humanities and social sciences



### Advantages

- Infrastructure for images, data, sources, audio, content, documents, maps
- 2. Heritage, museums, GLAMs (and GLAMs have to produce research)
- 3. Visualizing and monitoring knowledge

### Challenges

- Copyright management and restrictions to public domain -Authorizations and procedures
- 2. Collaborating :)
- 3. Expertise to scale

In the examples please refer to the Wikidata item to access source code and full credits

### I. Infrastructure for images, data, sources, audio, content, documents, maps

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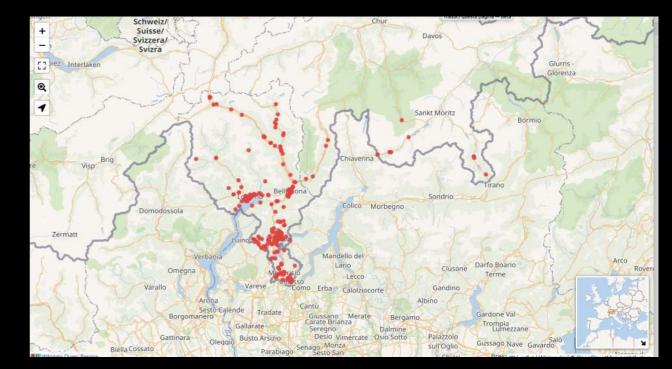
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Project page on Wikipedia in Italian with list based on Wikidata of cultural spaces

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Project page on Wikipedia in Italian with a list of cultural and artistic spaces



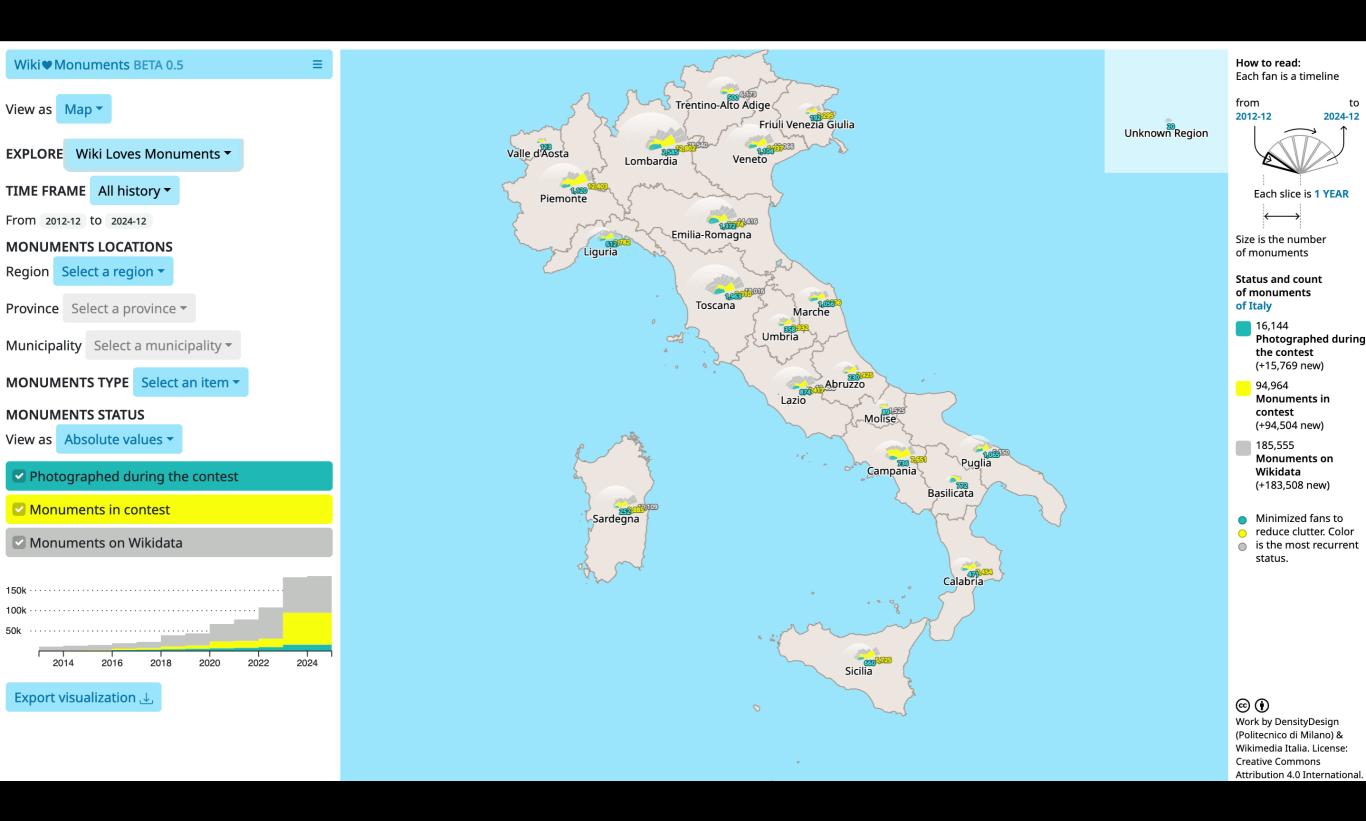
More data uploaded on OpenStreetMap

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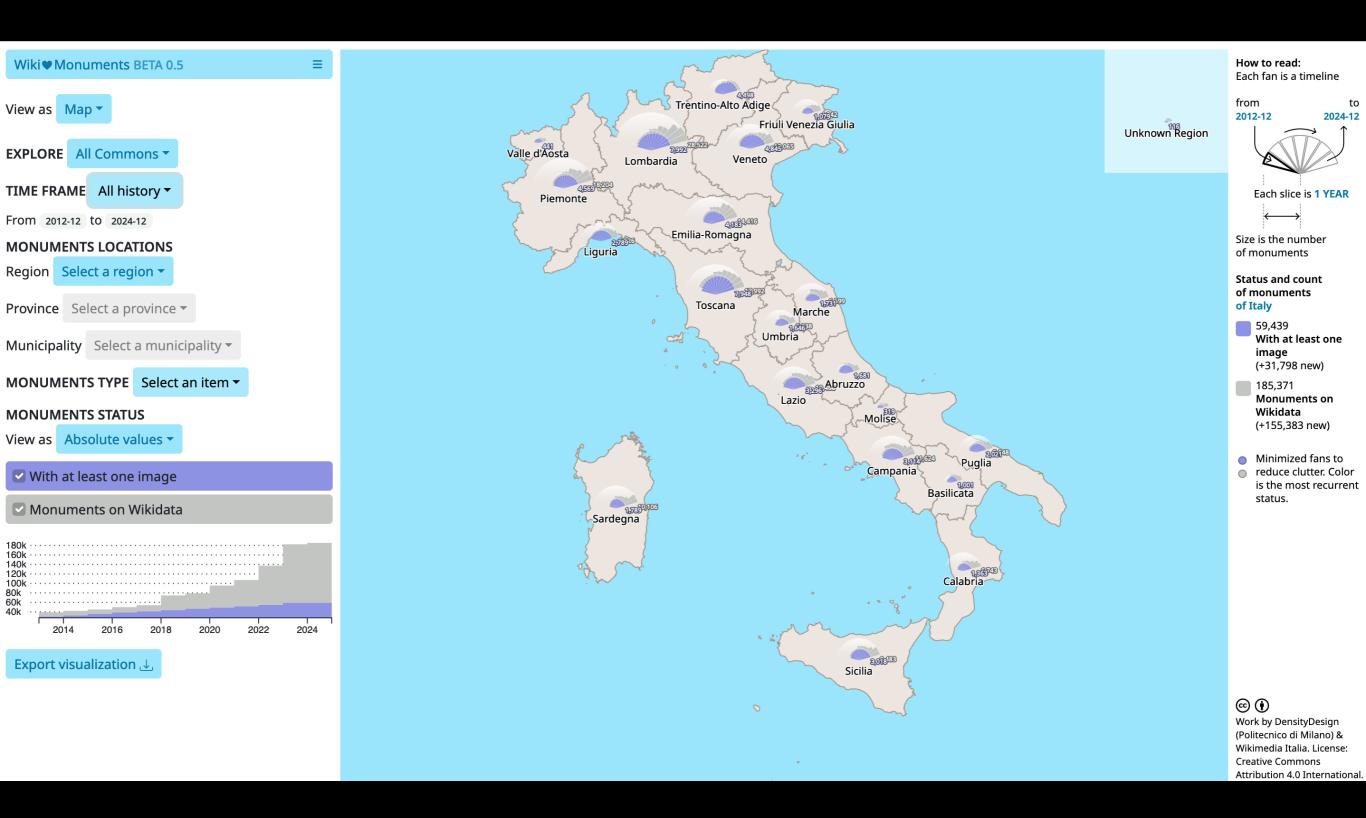
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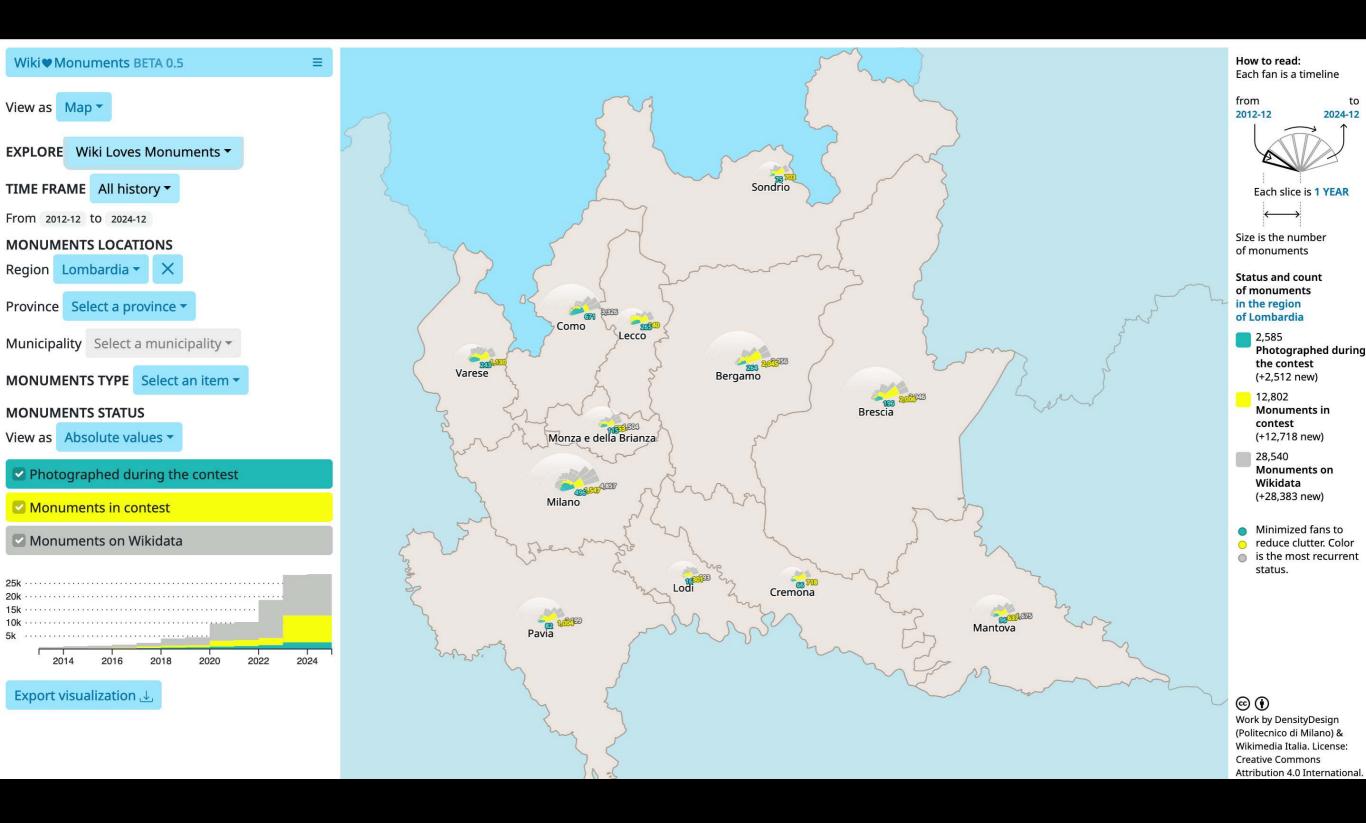
The countries promoting the contest Wiki Loves Monuments 2010-2013 and documenting with a total of 900'000 images cultural heritage around the world, 2014, cc by-sa.



Visualizations by DenstiyDesign (Politecnico di Milano) / Wikimedia Italia CC BY 26 March 2023 - <u>https://data.wikilovesmonuments.it</u> Data-driven community engagement per Wiki Loves Monuments, 2022. <u>Wikidata:Q117287812</u>



Visualizations by DenstiyDesign (Politecnico di Milano) / Wikimedia Italia CC BY 26 March 2023 - <u>https://data.wikilovesmonuments.it</u> Data-driven community engagement per Wiki Loves Monuments, 2022. <u>Wikidata:Q117287812</u>



Visualizations by DenstiyDesign (Politecnico di Milano) / Wikimedia Italia CC BY 26 March 2023 - <u>https://data.wikilovesmonuments.it</u> Data-driven community engagement per Wiki Loves Monuments, 2022. <u>Wikidata:Q117287812</u>

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	2. GLAMs - Empow	ering Italian GLAMs	
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From 6.810 Wikidata item	4.344 museums contacted	215 new museums	5 case studies
Prov Data monitored and Mun improved Mon Combined with national Italian statistics and View information related to WikiGLAM projects Monuments on Wikidata BK GK 4k 2k 01/14 01/16 01/18 01/20 01/22 Export visualization	Number of museums added to the database of contacts and contacted Email sent by Region (first round). Second round planned for September	230 museums started the form 113 museums have endorsed the project 47 institutions have shared images 16 institutions which did not want to participate 8 institutions withdrew from the process 1.134 museums already involved by Wikimedia Italia in Wiki Loves Monuments	Museo Egizio Museums of Reggio Emilia Museums of Modena Ecomuseo delle Grigne Museo delle Marionette di Palermo And a series of qualitative interviews with other museums

Empowering Italian GLAMs / Tutti i musei su Wikipedia, 2022-2024 <u>Wikidata:Q114454495</u>

Current results of the project Empowering Italian GLAMs updated November 2023 https://meta.wikimedia.org/wiki/Empowering\_Italian\_GLAMs Visualizations by DenstiyDesign (Politecnico di Milano) / Wikimedia Italia CC BY 26 March 2023 - https://data.wikilovesmonuments.it

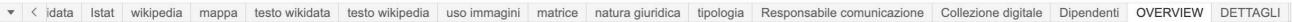
### Direct involvement of GLAMs

Tutti i musei su Wikipedia	Domande frequenti	Tutti i musei su Wikipedia		Domande frequenti	Tutti i musei su Wikipedia	Domande fraquenti
Introduzione Cerca musso Referente Lettera di adesione Dati del musso Dati Wikipedia Autorizzazione Carica tunnagini Conc Contribuistici a Wikipedia e ai progetti Wikimedia con la documentazione della tua istituzione in Open Access. Il percorso guidate ti permetterà di: Indicare il tuo musso e il referente, scaricare la lettera di adesione al progetto. E originale un breve questionario di 5 domande. E originale un breve questionario di 5 domande. Condividere alcune immagini delle iumagini e Open Access Policy per la tua istituzione. Condividene alcune immagini delle tua istituzione, che potranno essere usate nelle voci di Wikipedia e altri progetti Wikimedi. Cadesione non comporta alcun obbligo di completare tutte le fasi. In ogni momento sarà possibile interrompere e riprendere l' "tutti i musei su Wikipedia/Empowering Italian GLAMs" è un progetto promosso da Wikimedia Foundation. Presegui Presegui	r Wikidata e sono usati nelle voci dia. la procedura. M Italia, Creative Commons	Introduzione Cerca museo Referente Lettera di adesione Dati del museo Dati W Fase 1: identifica il tuo museo Scegli la regione dell'istituzione Lombardia	(kipedia Autorizzazione Carica Immagini Conclusione		Introduzione Cerca museo Referente Lettera di adesione Dati del museo Dati Vilkipeda / Fase 2: identifica il referente del museo. Ecomuseo delle Grig Indica la persona che fa da referente a questo progetto (la persona che sta compilar le comunicazioni relative al progetto e gestirà l'invio della documentazione). Nome del referente : Ruoto del referente : Indirizzo email del referente : Indirizzo email del referente : Indirizzo email del referente : Note (eventuali comunicazioni dell'istituzione riguardanti questo progetto)	jne
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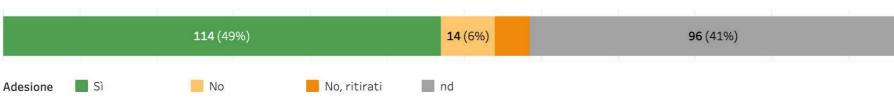
Online form (at the moment in Italian) to review Wikidata and upload authorizations and images

http://www.wikimedia.it/musei

#### monitoraggio\_0.3 di Tommaso Messina

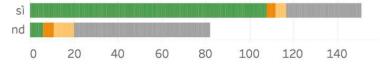


#### Musei monitorati e adesione

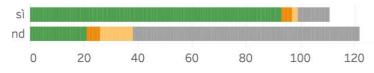


Matrice adesione

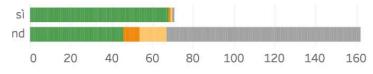
Carica un breve testo e controlla i dati di Wikidata

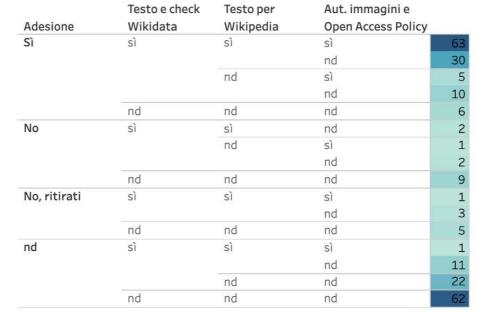


Carica un testo per migliorare le voci Wikipedia



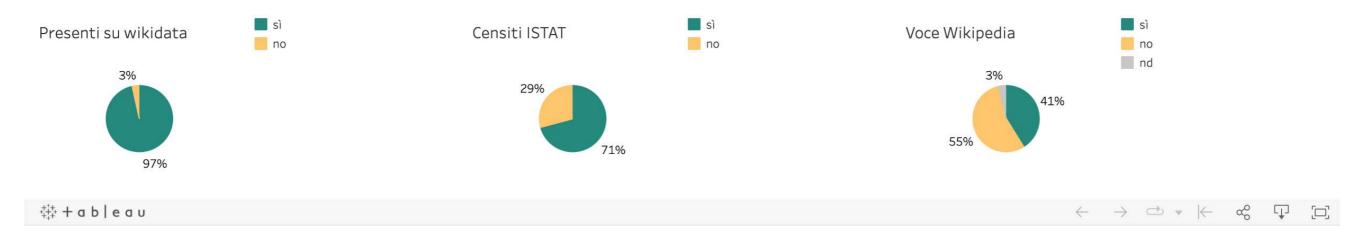
Autorizzazione uso immagini e open access policy







r



Tommaso Messina with Enrico Bertacchini, Empowering Italian GLAMs, https://public.tableau.com/views/monitoraggio\_0\_3/overview?:language=it-IT&:display\_count=n&:origin=viz\_share\_link, January 2024

### 3. Visualizing and monitoring knowledge

Wikipedia e scuola italiana			Most viewed articles	Articles w	ith issues	Authors and publications	⊕ IT
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Wikipedia and the Italian school – Wikidata:Q117279813 - https://itwiki-scuola-italiana.toolforge.org/?lang=en Wikipedia and the school in Uruguy – Wikicurrícula Uy – Wikidata:Q124041029 – https://wikicurricula.wikimedistas.uy/

#### How to read the visualization

The visualisation shows the articles with the highest average daily visits per school subject (data are collected annually in June). The size of the article, discussion page and incipit are expressed in bytes. A maximum of 120 articles are shown for each subject.

The light-coloured circle represents the size of the article, the darker circle represents the size of the incipit and the circle with only the outline represents the size of the discussion page. The circles and dotted lines display the size of the article and the daily visits in the previous year, respectively.

The triangles above the circles indicate that the article has been improved if one or more of these conditions are met: the incipit has been expanded, at least one issue has been removed, at least one image has been added.

Choose a subject from the top menu and the order in which it is displayed to get more information.



Download the dataset 🔟

#### Credits

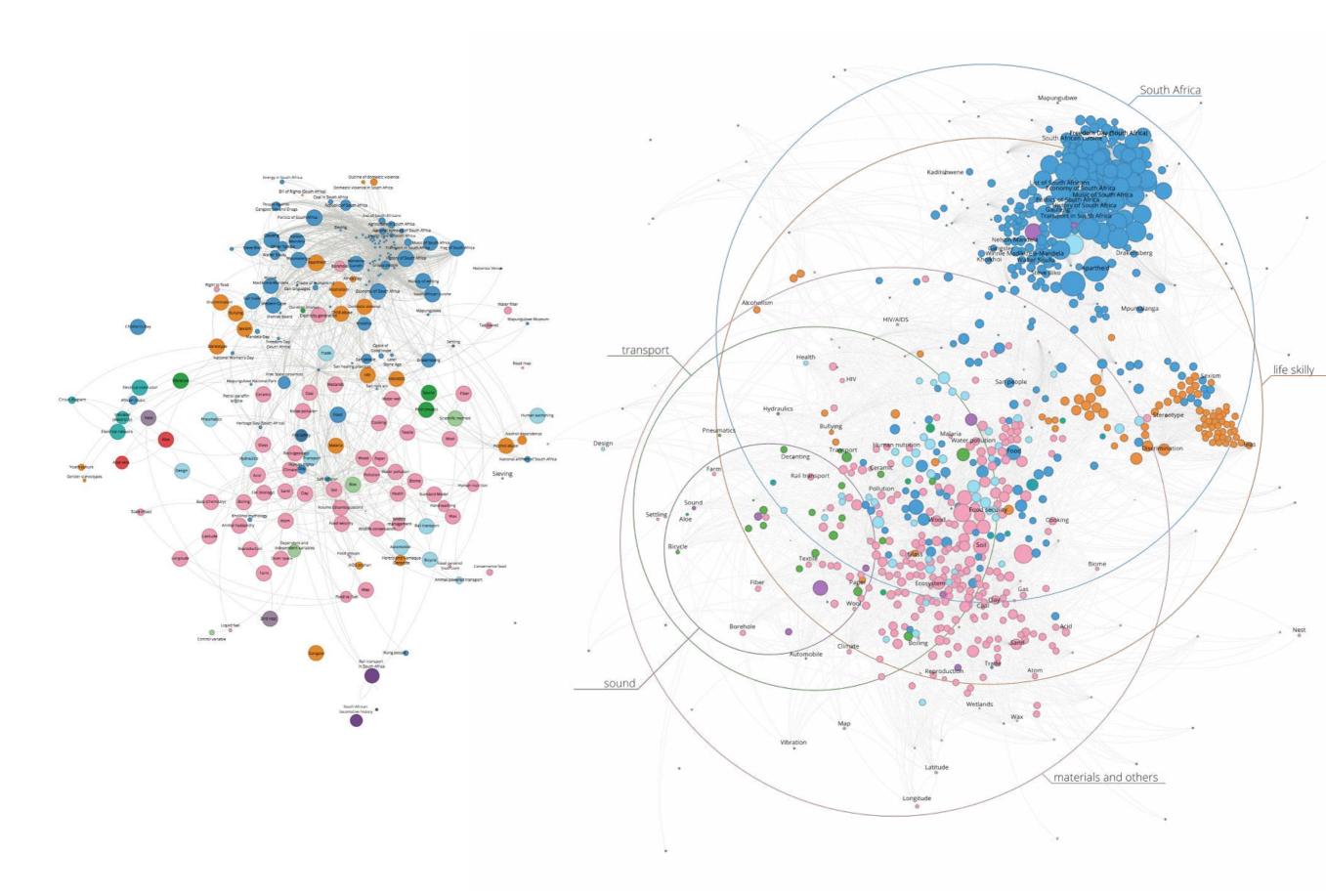
Ideation and responsible Iolanda Pensa

Working group Federico Benvenuti Valerio Iannucci Luca Martinelli Paolo Fichera Web design and data visualization Giovanni Profeta

Support and collaborazion Wikimedia Italia

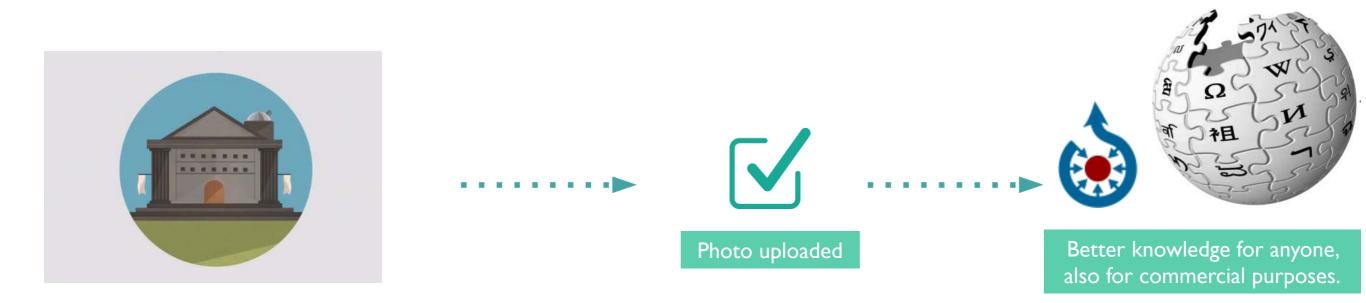
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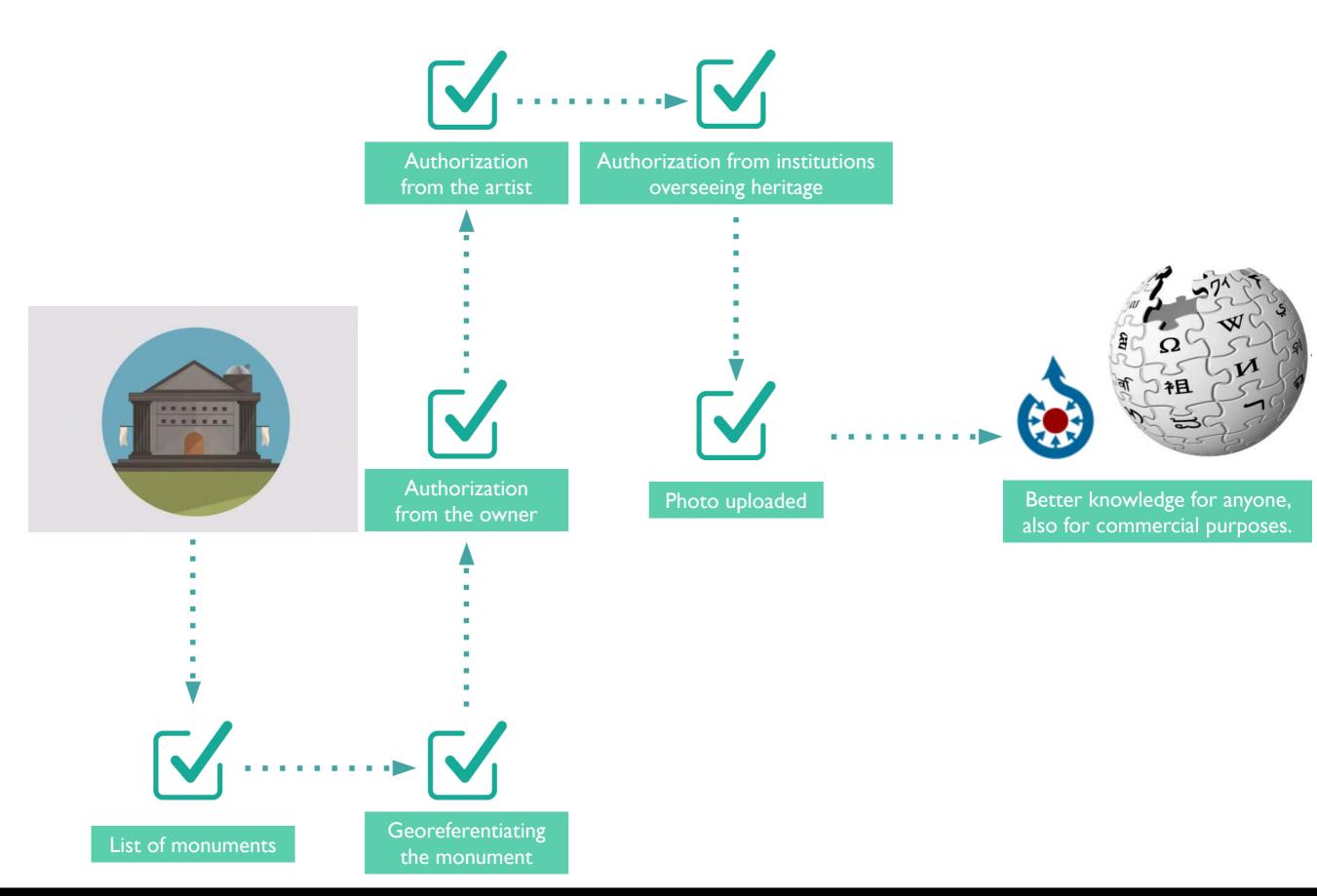
Authors and publications



Wikipedia Primary School, visualization by Giovanni Profeta and Iolanda Pensa, https://meta.wikimedia.org/wiki/Wikipedia\_Primary\_School, cc by-sa, 2015 and 2016. <u>Wikidata:Q117379085</u>

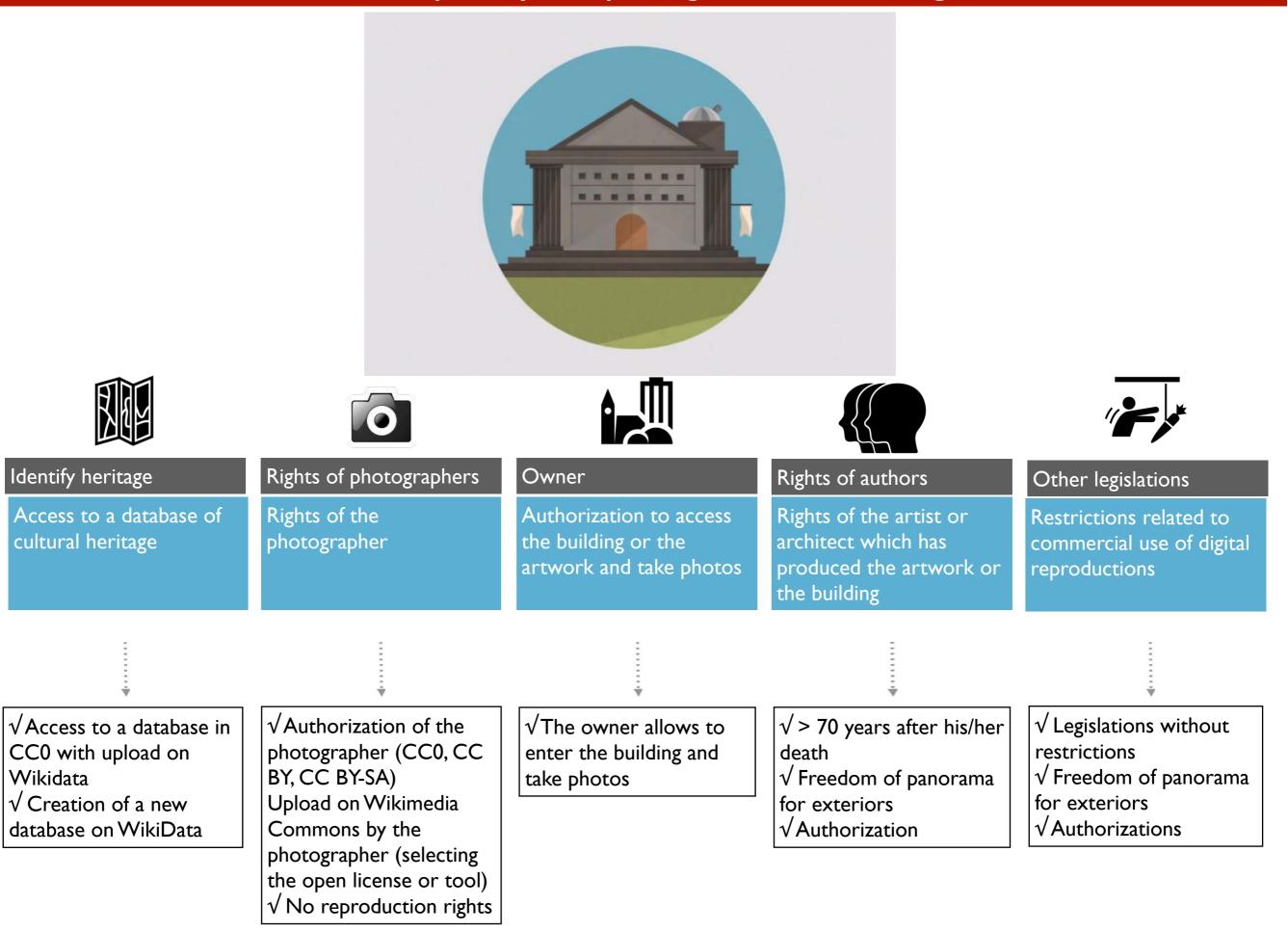
### I. Copyright management and authorizations





Really, taking a photo of a monument and uploading it on Wikipedia. Wikipedia under the free license Creative Commons attribution share alike, allowing commercial use.

### The complexity of opening cultural heritage



University of Applied Sciences and Arts of Southern Switzerland Department for Environment Constructions and Design Laboratory of Visual Culture



### SUPSI Mobile A2K Culture and Safety in Africa



Mobile Access to Knowledge: Culture and Safety in Africa. Documenting and assessing the impact of cultural events and public art on urban safety, 2011-2013 - <u>Wikidata:Q117288467</u> Culture and Safety in Africa, 2015-2017. - <u>Wikidata:Q117287742</u> - All content released under the CC BY-SA all license



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#### Q. Search Welpada

Categories on Wikimedia Commons



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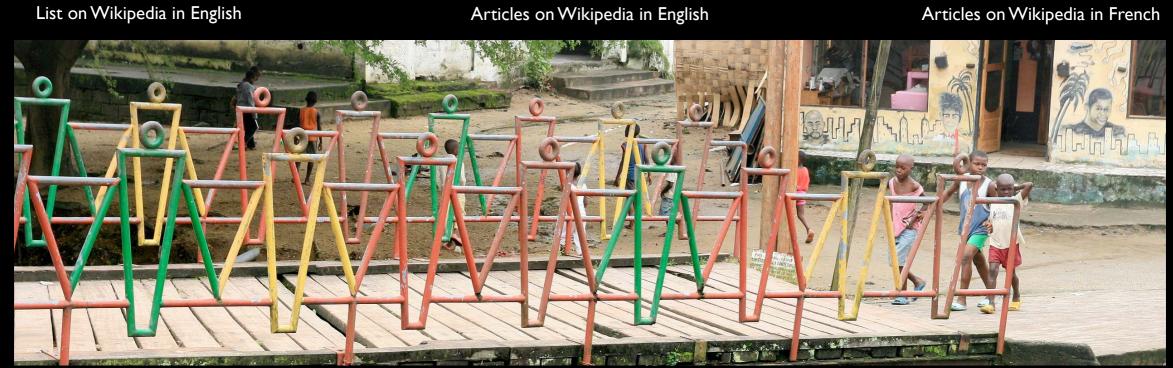


#### Voir aussi (modiler motile le code)

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Van Der Las, B. and Jenkins R.B. (eds) (2011). Douala: Intertwined Architectures. The Netherland: ArchitAfrica Pensa, I. (2012) tan Charge in Douelan. In Donus, (7 April 2012). http:/

#### Articles on Wikipedia in French



### Alioum Moussa, La passerelle, Bessengue, Douala Cameroon, 2005, produced by doual'art.

#### Items on Wikidata

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Bathilde Maestracci

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- Jone [Ticket#2013040710003461] Permission Fabio Vanin
- Jone [Ticket#2011101310013458] Permission Lard Buurman
- Jone [Ticket#2011101310013458] Permission doual'art (two tickets merged texts and images)
- 🗸 Done [Ticket#2013120710005882] Permission Malala Andrialavidrazana (public art produced within the SUD Salon Urbain de Douala)
- Jone [Ticket#2013120710005962] Permission Marcus Neustetter / The Trinity Session (credit: The Trinity Session)
- Jone [Ticket#2013120710005953] Permission Xandra Nibbeling (ICU art projects) (photos related to Douala, doual'art, Making Douala, PUB and CAIRE)
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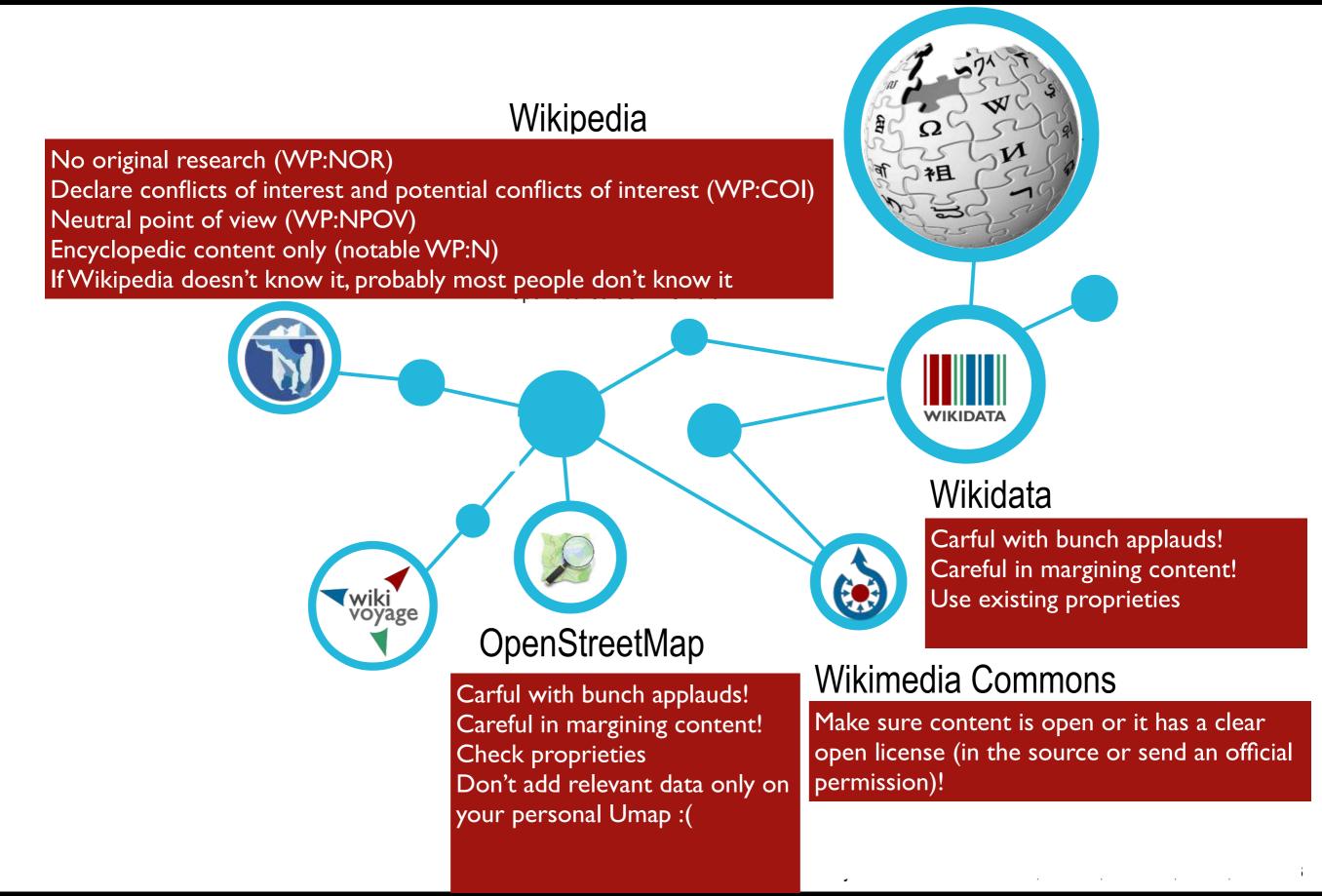
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Istruzioni: Per le immagini, utilizzare il template

### 2. Collaborating - Working with rules, policies and communities



Wikipedia and the Wikimedia projects are websites managed by online communities. Last update February 2023 Wikimedia Foundation is the institution supporting Wikipedia and the Wikimedia projects and managing their servers.

Last update February 2023 https://stats.wikimedia.org/#/all-projects nd managing their servers.

### 3. Expertise to scale

# SUPSI

### Neorenaissance

Nello specchio del passato. Ritrovare identità e forma nell'antichità: il corpus grafico di Tito Vespasiano Paravicini.



Homepage	
Tito Vespasiano Paravicini	
L'antico visto dal Rinascimento	
Rinascimento	
Neorinascimento	
Марре	
Abbreviazioni e bibliografia	
Pubblicazioni	
Team di ricerca	
Crediti	

Crediti

Sito a cura di Roberta Martinis ed Edoardo Rossetti.

**Comitato scientifico:** Roberta Martinis, Mauro Natale, Serena Romano, Edoardo Rossetti, Aurora Scotti, Nicola Soldini.

Comitato redazionale: Corinna Gallori, Roberta Martinis, Edoardo Rossetti.

Progettazione del sito: Iolanda Pensa, SUPSI; Giovanni Profeta, SUPSI.



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#### CONTATTO

Istituto materiali e costruzioni Campus Mendrisio via Flora Ruchat-Roncati, 15 CH – 6850 Mendrisio Q

Roberta Martinis roberta.martinis@supsi.ch

Edoardo Rossetti edoardo.rossetti@supsi.ch arcned1979@gmail.com

#### LICENZA D'USO



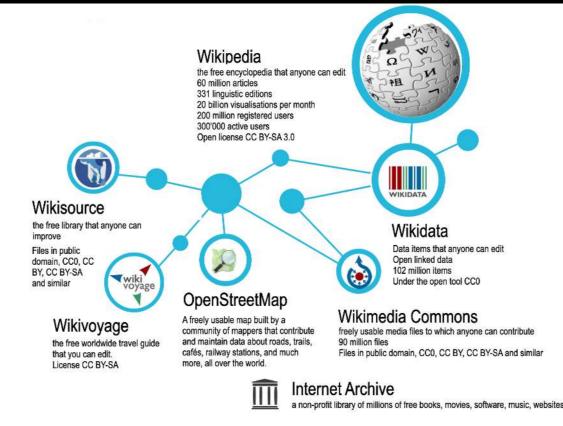
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In the mirror of the past: rediscovering identity and form in antiquity. The graphic corpus of Tito Vespasiano Paravicini between Renaissance and neo-Renaissance

Wikidata:Q124401882

# Wikimedia projects and OpenStreetMap as an Open Research Infrastructure for arts, humanities and social sciences



### Advantages

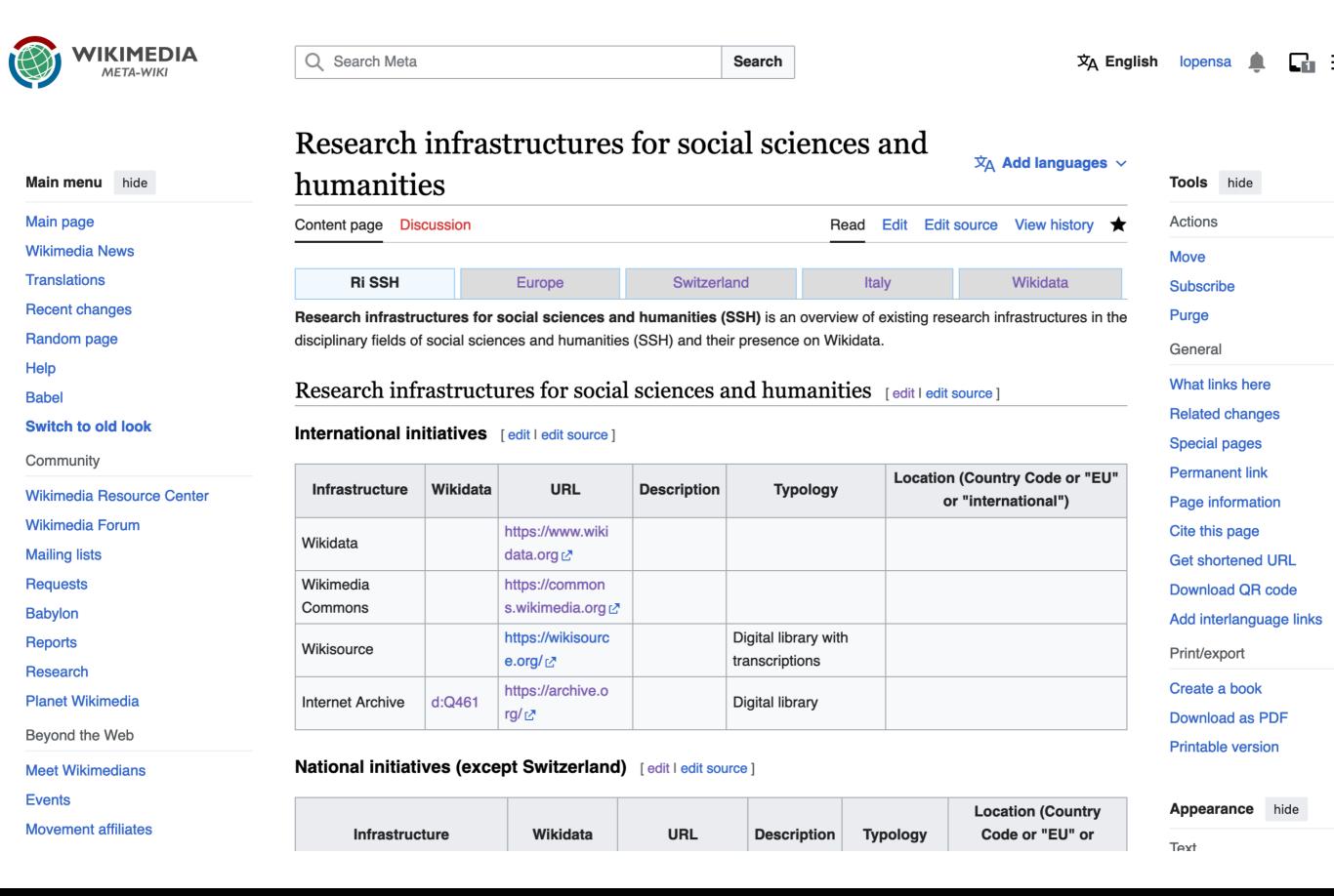
- Infrastructure for images, data, sources, audio, content, documents, maps
- 2. Heritage, museums, GLAMs (and GLAMs have to produce research)
- 3. Visualizing and monitoring knowledge

### Challenges

- Copyright management and restrictions to public domain -Authorizations and procedures
- 2. Collaborating :)
- 3. Expertise to scale

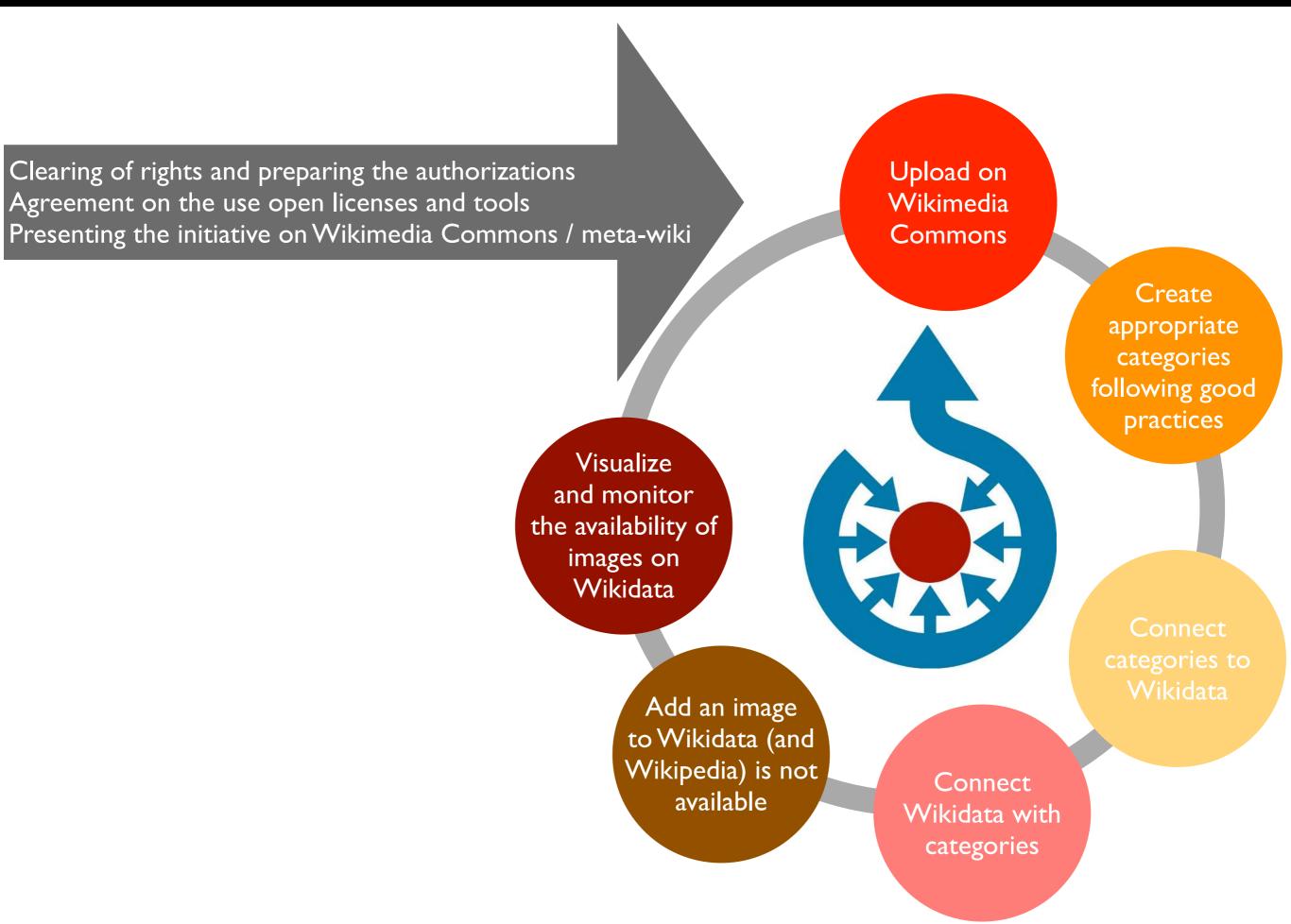
In the examples please refer to the Wikidata item to access source code and full credits

### Landscape analysis of SSH research infrastructures on Wikidata

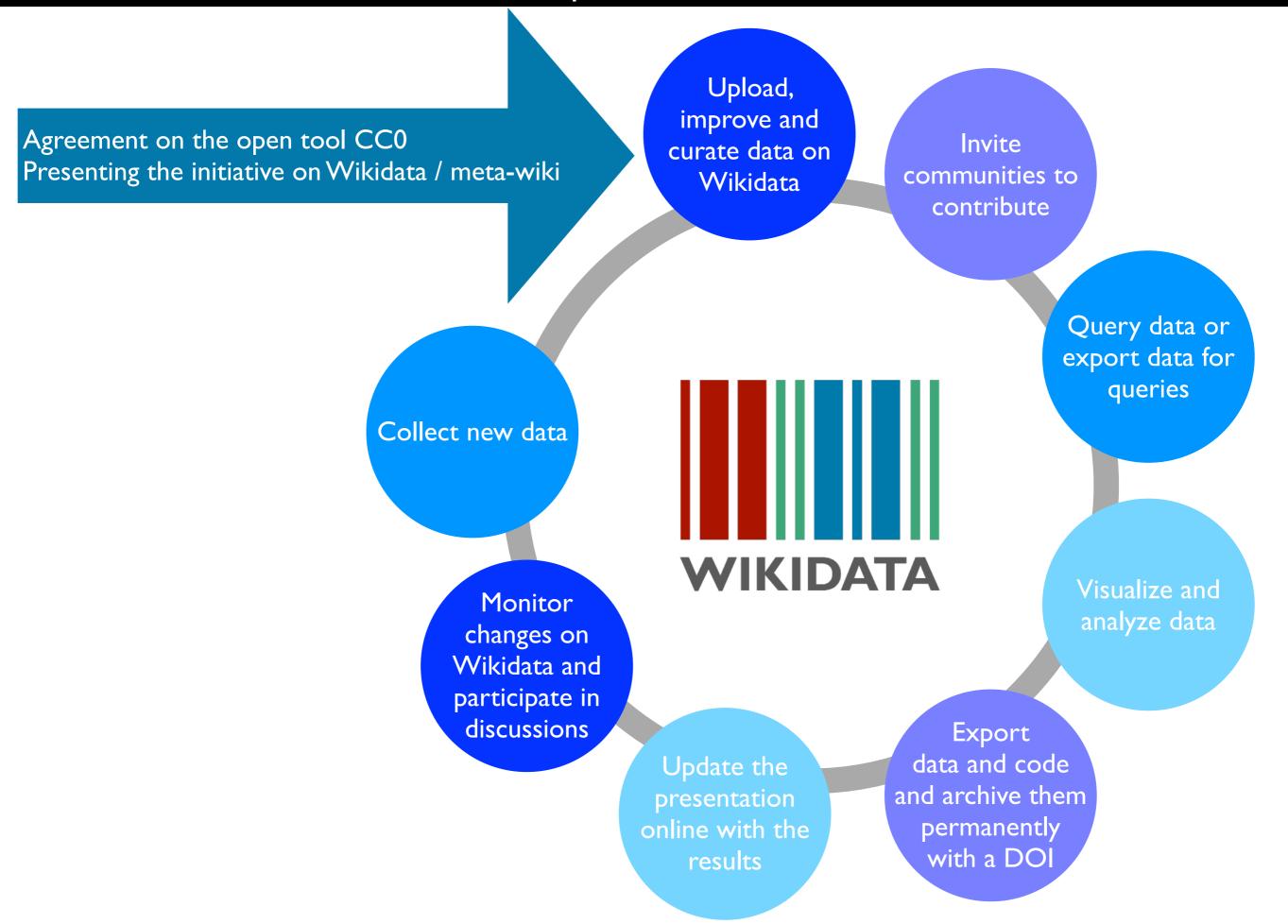


https://meta.wikimedia.org/wiki/Research\_infrastructures\_for\_social\_sciences\_and\_humanities

### Content on Wikimedia Commons



### Wikidata as an Open Research Infrastructure



### Background knowledge on Wikipedia

Agreement on the use open licenses and tools Presenting the initiative on Wikipedia / meta-wiki Make a list of keywords and key concepts related to the research

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da

Check on Wikipedia the existence of related articles

Eventually create new articles based on the literature review

> Monitore changes on Wikipedia and participate in discussions

Improve existing articles based on sources

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Analyze the quality of related articles (images, references, text)

#### YES

Use Wikipedia to develop and share the literature review Cite the work of others

### NO

Do not use Wikipedia to strengthen the visibility of your own theory Identify relevant sources (literature review)

## Wikimedia projects and OpenStreetMap as an Open Research Infrastructure

The Wikimedia and OpenStreetMap projects are websites based on Free and open software (https://wikitech.wikimedia.org/wiki/ Wikitech:Cloud\_Services\_Terms\_of\_use#4.3\_Open\_Source\_and\_proprietary\_software).All their data (texts, images, transcriptions, maps, liked data) are available with open tools and licenses (such as public domain, CC0, CC BY, CC Y-SA and alike, in accordance with the Berlin Declaration). These websites already produce citizen science: Wikidata hosts structured data created, uploaded and integrated by communities; Wikisource hosts documents and texts digitalized, shared, transcribed and reviewed by communities; OpenStreetMaps allows to visualize geographical data collected and updated by communities which are event trained by the UN and even intervene during emergencies; Wikipedia communicates science and refers to scientific literature and Wikimedia Commons collects images and multimedia files created or uploaded by the communities.

These are the largest open data infrastructures in the world and the largest communities already active and involved in the production of open data and open software.

At the moment researchers tend to use the content of the Wikimedia projects and OpenStreetMap as a source of information for their research (liked open data from Wikidata, images from Wikimedia Commons, texts from Wikipedia and Wikisource and background maps from OpenStreetMap). Collaboration is rarely reciprocal: researchers do not usually enrich data on these websites and do not use these infrastructure to for queries. When uploading data on the Wikimedia projects and OpenStreetMap, this activity is only considered as dissemination, without acknowledging its value for the co-production of research and for developing reproducible data analysis.

Using a free, existing research infrastructure already maintained by wide communities is an effective and sustainable strategy to produce open science, make data fully accessible and co-produce with citizens new content, fully available for reuse and new research. Basing research queries on these platforms allows to reproduce them; content changes over time, but it is always possible to reproduce queries focusing on specific timeframes.

This presentation focuses on data related to cultural heritage supporting studies in the fields of museology, art, art history and history of architecture. It refers to examples drawn from the experience of Italian cultural heritage visualizations based on Wikidata and Wikimedia Commons (produced within the project Wiki Loves Monuments in Italy https://data.wikilovesmonuments.it/), from the experience of improving data about over 4000 Italian museums (produced within the project Empowering Italian GLAMs https://meta.wikimedia.org/wiki/Empowering\_Italian\_GLAMs), from the upload of cultural sites of the Ticino region in Switzerland, from the upload of works of the architect Tito Vespasiano Paravicini and public art of Douala in Cameroon.

# Wikimedia projects and OpenStreetMap as an Open Research Infrastructure

The Wikimedia and OpenStreetMap projects are an existing free software infrastructure that already produces citizen science and can be used by researchers to share and coproduce data and to produce - and reproduce - the results of research. The presentation specifically refers to the potential of data related to cultural heritage for studies in the humanities and in particular in museology, art, art history and history of architecture.