

kudaba

A Collaborative Platform for Digital Humanities and Citizen Science

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TOC

- Theoretical Framework: Information Science, Digital Humanities (DH) and Citizen Science
- **kudaba, Database for Cultural Heritage**
 - Online prototype
 - Concept
 - Goals and Future

Information Sciences

- **Generation** of Digital Cultural Objects:
 - Knowledge = Information in Context
 - Information = Aggregated Data
- **Visibility** of digital cultural objects:
 - Semantic Contextualization of different forms of media
 - Accesible via Online-Platform

Digital Humanities (DH)

- **Digitization** of Cultural Heritage (CH) Objects
 - CH-Databases provide content for DH research
- **Digitalization** of the academic research process:
 - CH Databases are powerful digital tools for academic research

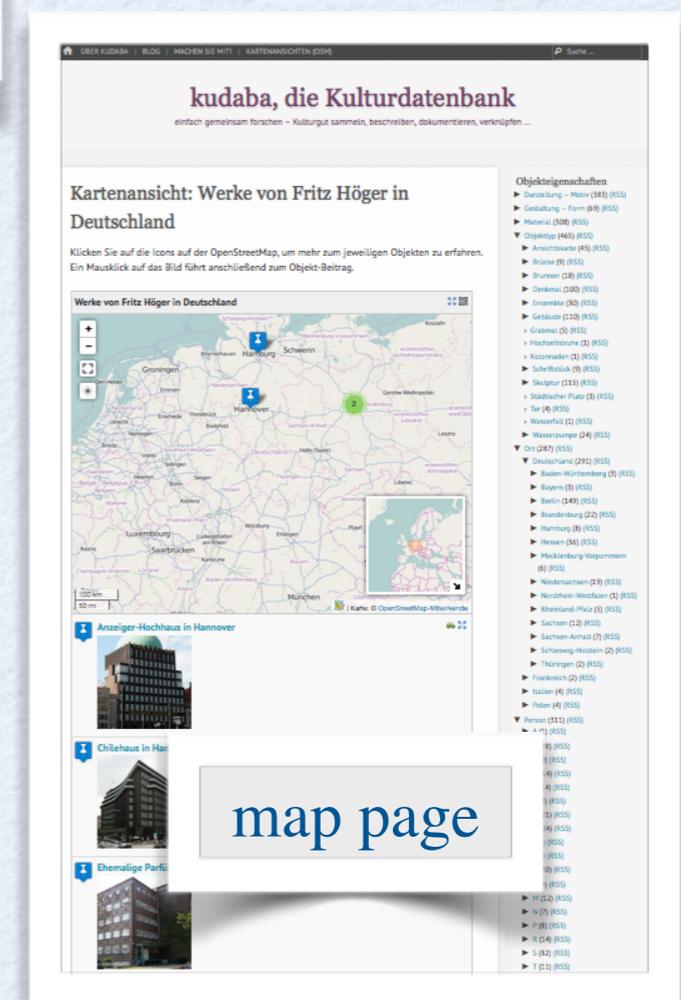
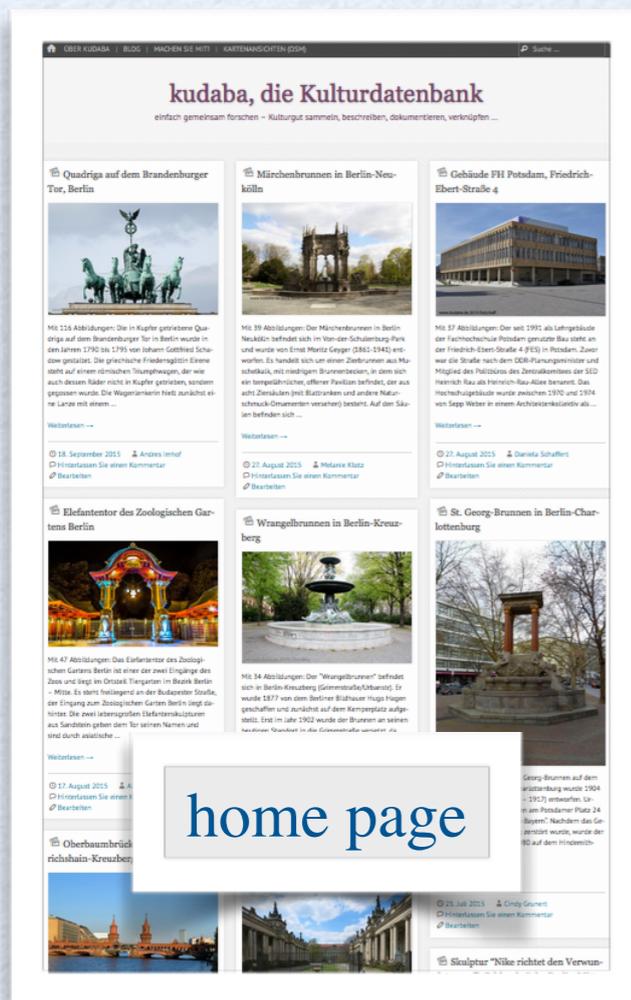
Citizen Sciences

- Committed Citizens (not scientists) contribute their knowledge to the academic discourse:
- Private owners of cultural objects of public interest are able to generate and publish their digital objects
- Cultural objects in public space could be tapped and digitized

Current Online Prototyp

- Private and low-budget project since 10 years

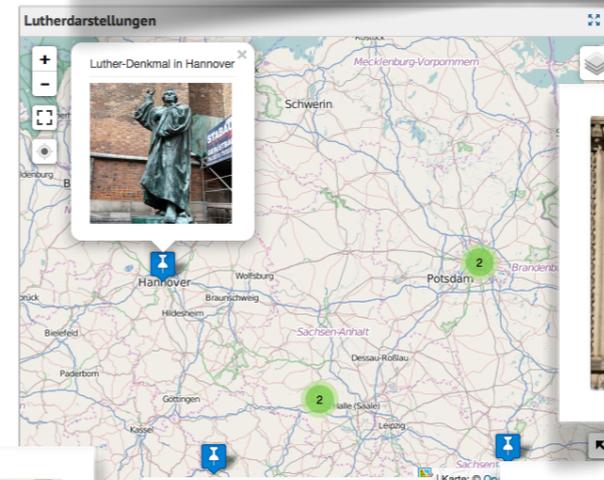
<http://www.kudaba.de>



Current Online Prototyp

- 285 object descriptions, more than 7200 images and 9 OpenStreetMaps
- Since 2012 built with WordPress
- Contains a simple media-, user-, SEO-, map- and security-management

Illustrations of Martin Luther
<http://www.kudaba.de/?cat=47>



Kudaba's Concept

- Treatment of cultural artefacts like books:
 - Description of self-contained objects
 - Objects can be singular, but also a part of other objects

The Brandenburg Gate
in Berlin



Mit 23 Abbildungen: Das Brandenburger Tor in Berlin wurde von Carl Gotthard Langhans, dem damaligen Direktor des Oberhofbauamtes in Berlin, gestaltet und von 1789 bis zur Eröffnung des Tores 1791 errichtet, nachdem 1788 das alte Tor an gleicher Stelle unter seiner Bauaufsicht abgerissen worden war. Als Vorbild für seine Gestaltung dienten ihm u.a. die Propyläen der...

<http://www.kudaba.de/?p=37757>

The attika relief at the
Brandenburg Gate



Mit 14 Abbildungen: Das Attikarelief am Brandenburger Tor in Berlin, das sich unterhalb der Quadriga auf der Attika des Tores an der Ostseite zum Pariser Platz hin befindet, wurde mit der Fertigstellung des Tores 1791 von Johann Gottfried Schadow abgeschlossen. Der Maler und damalige Akademiedirektor Christian Bernhard Rode hatte zunächst einen Entwurf auch für das...

<http://www.kudaba.de/?p=37725>

The quadriga on top of
the Brandenburg Gate



Mit 116 Abbildungen: Die in Kupfer getriebene Quadriga auf dem Brandenburger Tor in Berlin wurde in den Jahren 1790 bis 1795 von Johann Gottfried Schadow gestaltet. Die griechische Friedensgöttin Eirene steht auf einem römischen Triumphwagen, der wie auch dessen Räder nicht in Kupfer getrieben, sondern gegossen wurde. Die Wagenlenkerin hielt zunächst eine J. 2020 mit einem...

<http://www.kudaba.de/?p=37573>

Kudaba's Concept

- Each object has its own identifier to link with other images, literature, data etc.



Bundesarchiv, Bild 183-08243-0017 / Igel; Kemlein, Eva / CC-BY-SA [CC-BY-SA-3.0-de (<http://creativecommons.org/licenses/by-sa/3.0/de/deed.en>)], via Wikimedia Commons

Deutsches Bundesarchiv (German Federal Archive),
Allgemeiner Deutscher Nachrichtendienst –
Zentraltel (Bild 183), Bild 183-08243-0017

Former National Memorial of
Emperor Wilhelm I. in front of
the former Berlin City Palace



<http://www.kudaba.de/?p=31357>

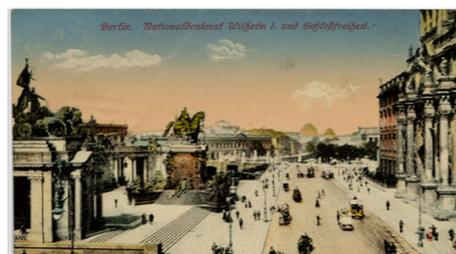


Deutsches Bundesarchiv (German Federal Archive),
Bild 146-1998-015-02A



www.kudaba.de Modell zum Nationaldenkmal Kaiser Wilhelms I.
Nach einer Aufnahme von Sophus Williams-Berlin.

Meyer, Alfred Gotthold: Reinhold Begas.
In: Künstler=Monographien, Bielefeld und Leipzig,
Verlag von Velhagen & Klasing, 189, Abb. 1.



<http://www.kudaba.de/?p=32915>

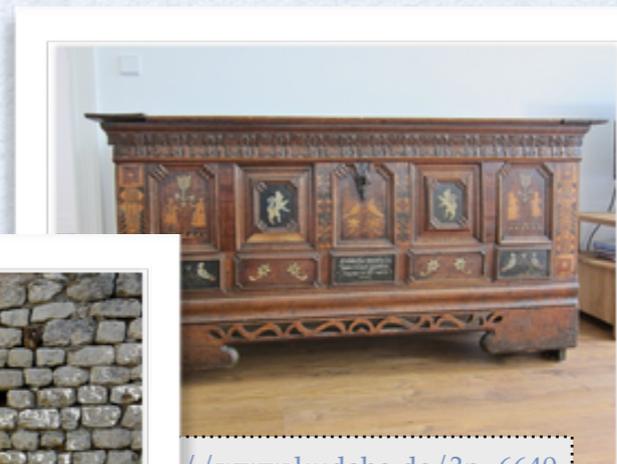
Architekturmuseum der TU Berlin,
Inventarnummer F 7499, Historische
Fotografie vom Kaiser-Wilhelm-
Nationaldenkmal von ca. 1896, [http://
architekturmuseum.ub.tu-berlin.de/
index.php?set=1&p=79&Daten=145793](http://architekturmuseum.ub.tu-berlin.de/index.php?set=1&p=79&Daten=145793)

Kudaba's Concept

- Without restriction of any kind of location, time, genre, object type etc.:



<http://www.kudaba.de/?p=32915>



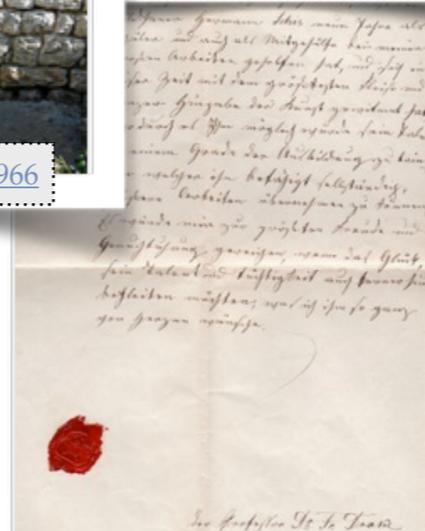
<http://www.kudaba.de/?p=6640>



<http://www.kudaba.de/?p=6966>



<http://www.kudaba.de/?p=6640>



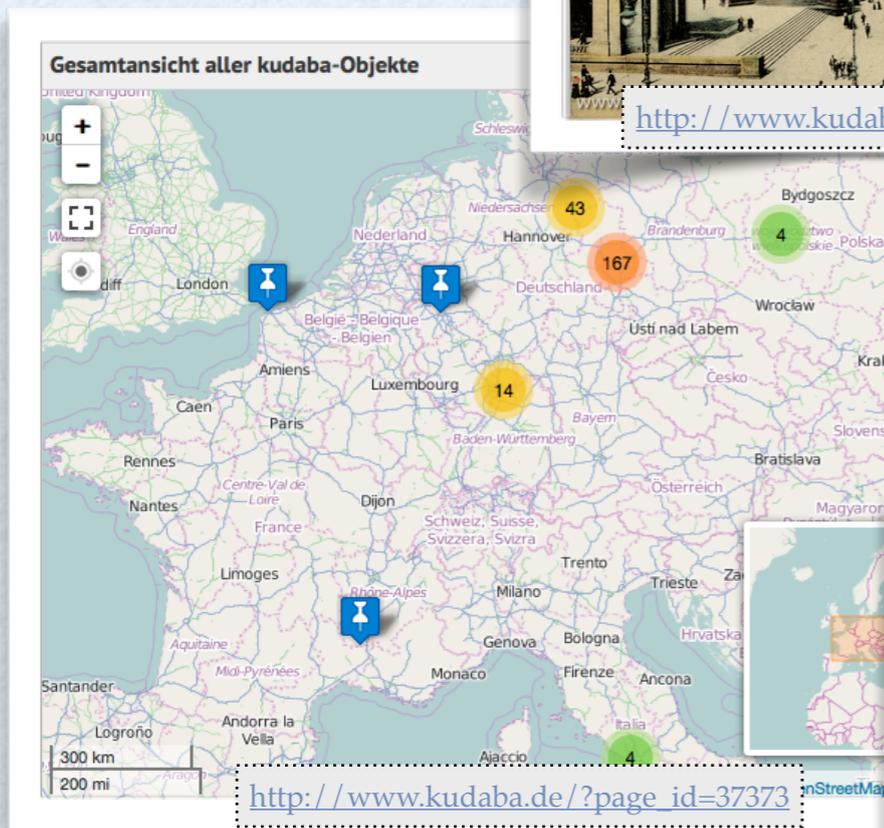
<http://www.kudaba.de/?p=30063>



<http://www.kudaba.de/?p=29358>



<http://www.kudaba.de/?p=30063>



Kudaba's Concept

- If objects still exists, the kudaba presents **many images** for more details, **not just one!**

Equestrian memorial of Henry IV.,
Pont Neuf, Paris



Wikimedia Commons,
Attribution 3.0 Unported (CC BY 3.0)
by Jastrow
[https://commons.wikimedia.org/wiki/
File:Henri_IV_Lemot_Pont-Neuf_n2.jpg](https://commons.wikimedia.org/wiki/File:Henri_IV_Lemot_Pont-Neuf_n2.jpg)

Horse of the quadriga,
Brandenburg Gate, Berlin



http://www.kudaba.de/?attachment_id=37468

Bildergalerie
Zur größeren Ansicht bitte auf die Fotos klicken.

Das Brandenburg-Tor von
Paris aus betrachten

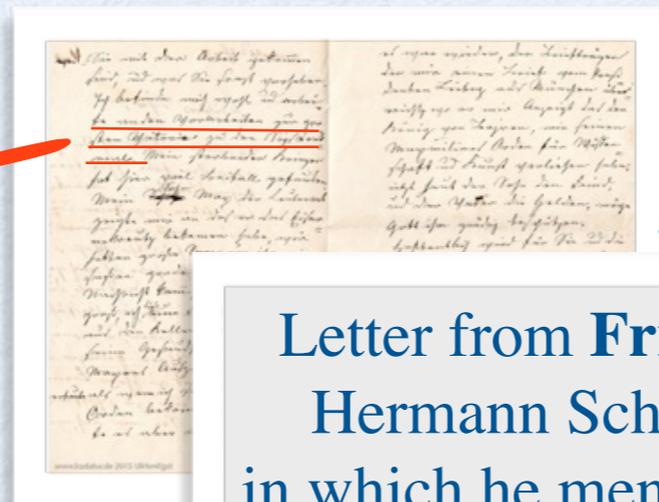
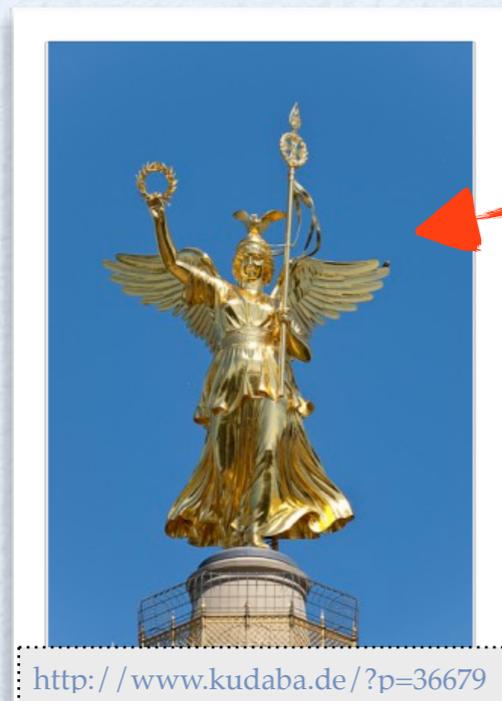
<http://www.kudaba.de/?p=37573>

A grid of 24 small images showing various views of the quadriga horse and the Brandenburg Gate. The images are arranged in a 4x6 grid. The first row shows the quadriga horse from different angles. The second row shows the Brandenburg Gate from different angles. The third row shows the quadriga horse from different angles. The fourth row shows the Brandenburg Gate from different angles. The grid is titled 'Bildergalerie' and 'Zur größeren Ansicht bitte auf die Fotos klicken.' There are also some text blocks and a URL at the bottom of the grid.

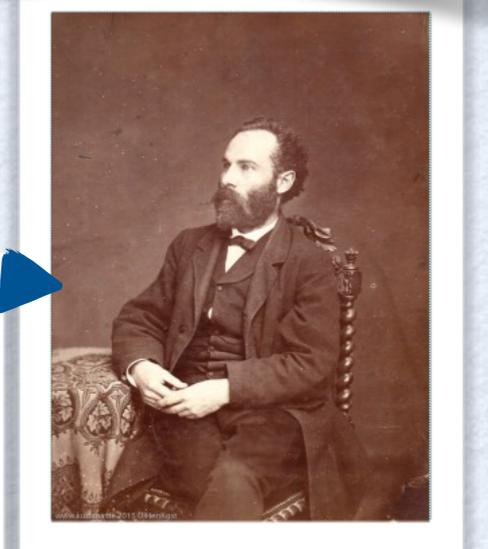
Kudaba's Concept

- Every interested **person** and institution with valuable information, content, knowledge and skill **is free to participate** and collaborate
 - Publish cultural heritage collection
 - Comments, photographs, transcriptions ...

Example of a private inheritance of **Hermann Schies**, sculptor in Wiesbaden



Letter from **Friedrich Drake** to **Hermann Schies**, 22.12.1870, in which he mentioned his Victoria of the Victory Column in Berlin



Kudaba's Concept

- Each object is **specified by multiple categories**, which describe all **characteristics**
- **Shortest form of a machine readable abstract**
- The categories are **suggestions by participants**
- **Checking against metadata standards** by an editorial staff

Objekteigenschaften

- ▶ [Darstellung – Motiv \(383\) \(RSS\)](#)
- ▶ [Gestaltung – Form \(69\) \(RSS\)](#)
- ▶ [Material \(308\) \(RSS\)](#)
- ▶ [Objekttyp \(465\) \(RSS\)](#)
- ▼ [Ort \(287\) \(RSS\)](#)
 - ▼ [Deutschland \(291\) \(RSS\)](#)
 - ▶ [Baden-Württemberg \(3\) \(RSS\)](#)
 - ▶ [Bayern \(3\) \(RSS\)](#)
 - ▶ [Berlin \(149\) \(RSS\)](#)
 - ▼ [Brandenburg \(22\) \(RSS\)](#)
 - › [Brandenburg/Havel \(1\) \(RSS\)](#)
 - › [Gransee \(1\) \(RSS\)](#)
 - › [Großbeeren \(3\) \(RSS\)](#)
 - › [Großräschen \(1\) \(RSS\)](#)
 - › [Neuruppin \(2\) \(RSS\)](#)
 - › [Potsdam \(8\) \(RSS\)](#)
 - › [Rathenow \(5\) \(RSS\)](#)
 - › [Templin \(1\) \(RSS\)](#)
 - ▶ [Hamburg \(8\) \(RSS\)](#)
 - ▶ [Hessen \(36\) \(RSS\)](#)

Kudaba's Concept

- The categories result in one hierarchically structured **taxonomie**
- The categories generate the base for an intuitive **faceted browsing**
- Users are able to subscribe **RSS-Feeds of each category**

Objekteigenschaften

- ▶ Darstellung – Motiv (383) (RSS)
- ▶ Gestaltung – Form (69) (RSS)
- ▶ Material (308) (RSS)
- ▶ Objekttyp (465) (RSS)
- ▼ Ort (287) (RSS)
 - ▼ Deutschland (291) (RSS)
 - ▶ Baden-Württemberg (3) (RSS)
 - ▶ Bayern (3) (RSS)
 - ▶ Berlin (149) (RSS)
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 - ▶ Hamburg (8) (RSS)
 - ▶ Hessen (36) (RSS)

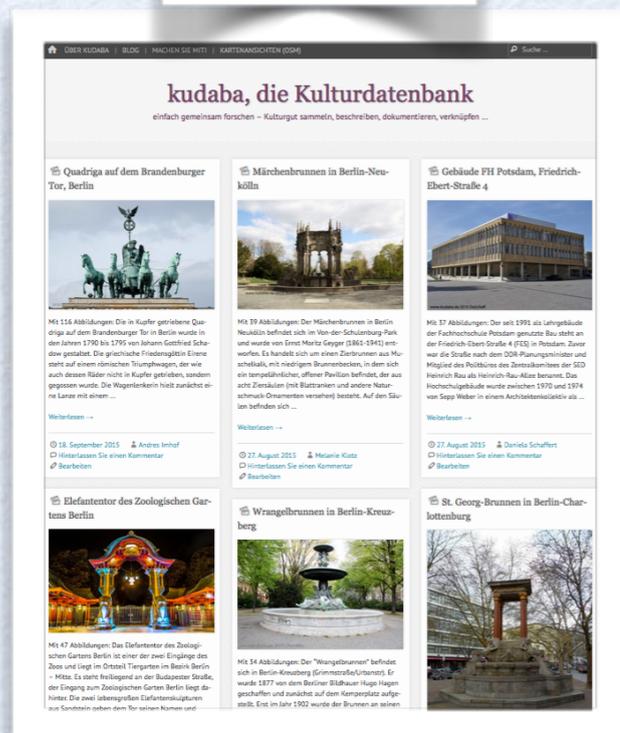
Kudaba's Concept

- Object vs. Concept
 - **Objects describe cultural artefacts**, which are just linked among themselves without any hierarchy
 - **Concepts handle themes**, styles, events, persons, geographical distributions via maps, timelines, **archival inventories** etc., which could be structured hierarchically
 - Both - objects and concepts - are combined among themselves with congruent categories

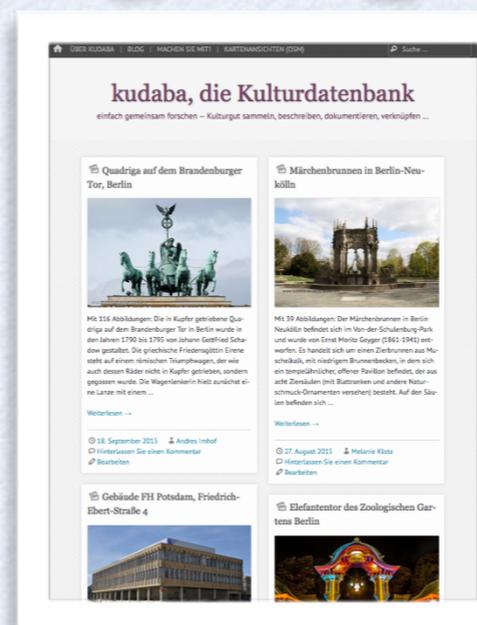
Kudaba's Concept

- Extensive Search Engine Optimization (SEO) regarding the content: text and each image!
- Responsive Layout for different communication devices (display sizes): desktop, tablet, smartphone

desktop



tablet



smartphone



Kudaba's Concept

- The **authorship** of all object descriptions **is mentioned!**
 - The kudaba is a digital and transdisciplinary research-, teaching- and publishing-platform for cultural heritage
 - The kudaba is in addition a social network for researchers, students and citizen scientists

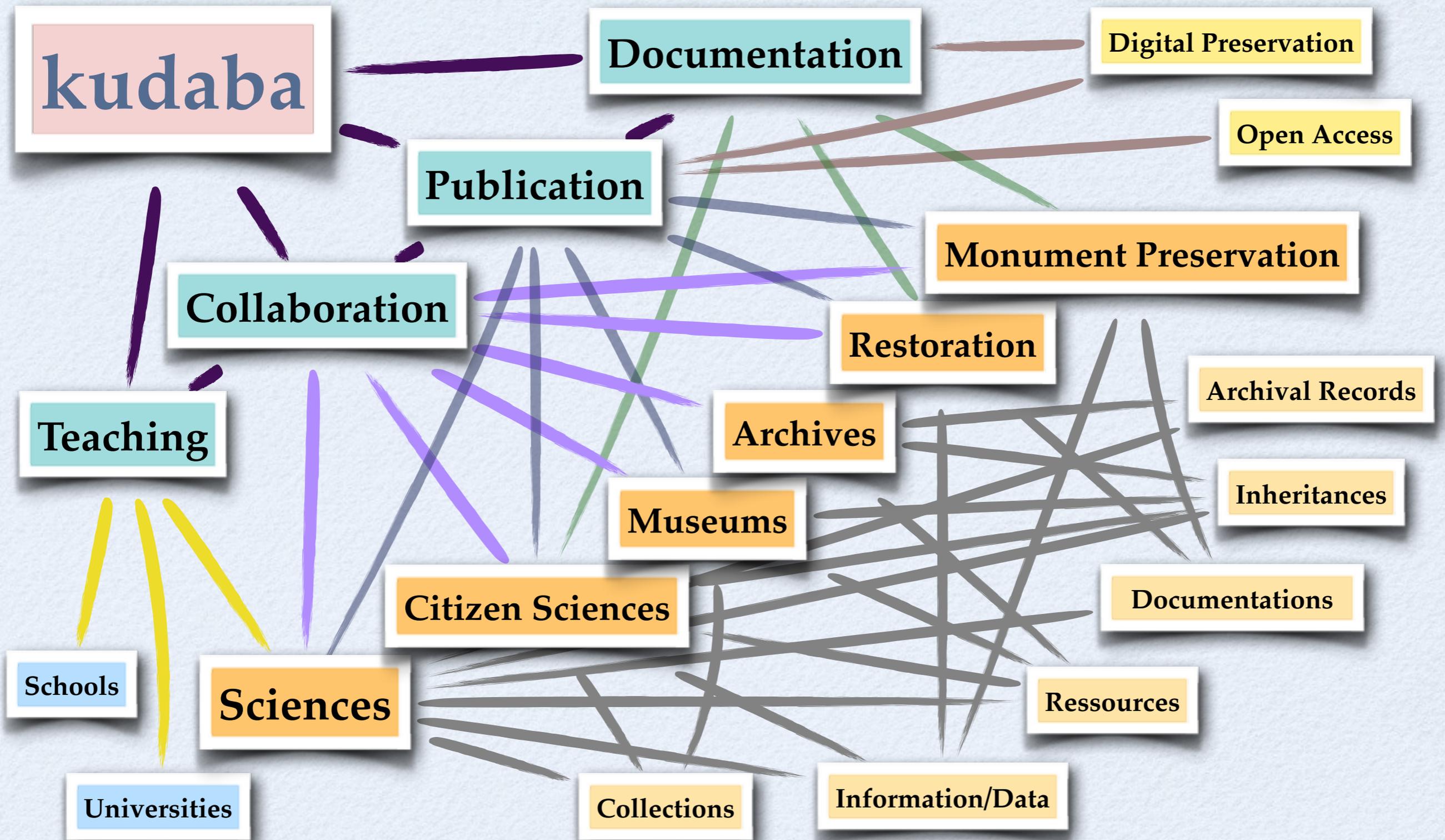
Kudaba's Goals

- **Enhancement of Digital Humanities** and teachings
- **Involvement of Citizen Science** into the research of cultural heritage
- **As simple as possible!** less complexity for participants, with an intuitive interface
- **Collective quality management** by the editorial staff and the community

Kudaba's Goals

- The **virtual consolidation** of public and private collections
- To **merge objects information** with archival inventories in one research platform
- **To find partners** for collaboration, cooperation and / or sponsorship

Summary



Thank you

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Rowley, J.: The Wisdom Hierarchy. Representations of the DIKW Hierarchy. In: Journal of Information Science, April 2007 vol. 33 no. 2, (2007), 163-180 Schreibman, S.; Siemens, R.; Unsworth, J. (ed.): A Companion to Digital Humanities, Oxford: Blackwell, (2004) <http://www.digitalhumanities.org/companion/> Wissenschaftsrat: Zum wissenschafts-politischen Diskurs über Große gesellschaftliche Herausforderungen. Positionspapier, (2015). <http://www.wissenschaftsrat.de/download/archiv/4594-15.pdf>