



**German-Dutch dialogue on the future of libraries  
14.06.2021**

## **Libraries and Citizen Science**

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# Citizen Science or Crowdsourcing?

## Level 4 „Extreme Citizen Science“

- Collaborative science – problem definition, data collection and analysis

## Level 3 „Participatory science“

- Participation in definition and data collection

## Level 2 „Distributed Intelligence“

- Citizens as basic interpreters
- Volunteered thinking

## Level 1 „Crowdsourcing“

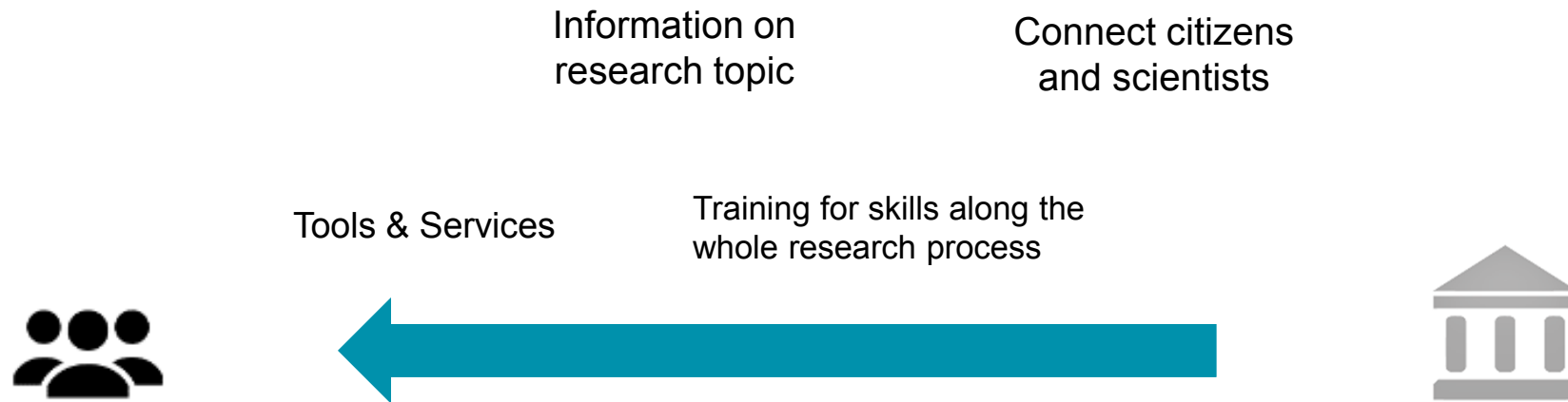
- Citizens as sensors
- Volunteered computing

Haklay, Muki. "Participatory Citizen Science." In *Citizen Science: Innovation in Open Science, Society and Policy*, edited by Haklay Muki, Hecker Susanne, Bowser Anne, Makuch Zen, Vogel Johannes, and Bonn Aletta, 52-62. London: UCL Press, 2018. Accessed June 07, 2021. <http://www.jstor.org/stable/j.ctv550cf2.11>

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# Libraries and Citizen Science – A longtime cooperation



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# Transcriptions

## › Museum für Naturkunde (MfN): [Transcription Workshop](#)

- › Training on reading historical handwriting (Sütterlin)
- › Transcription of archival material from the Historical Division

## › Amsterdam Stadsarchiv: [Vreemdelingenkaarten](#)

- › transcribe alien cards → searchable, new access thanks to storytelling
- › Plattform: [Velehanden.nl](#)

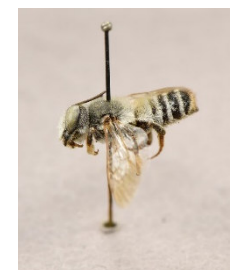
## › MfN: [Bees & Bytes](#)

- › Transcribing Labels from digitized specimen
- › Plattform: Zooniverse

## › Workshop: [Participatory Transcription Projects in Museums, Archives, Libraries - A Practical Exchange of Experience, 28 and 29 October 2021](#)

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# Annotation, Tagging and Data Enrichment

› Royal Danish Library: „[Denmark seen from the air – before Google](#)”

› Geo tagging aerial photos

› [Biodiversity Heritage Library](#)

› Tagging species common names → Improve search



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# Collection Days and Personal Interviews

## ›ZLB: Berliner Großstadtgeschichten

- ›Central and Regional Library Berlin (ZLB)
- ›Basis: Digitized „Großstadtgeschichten“
- ›Collection Days: citizens bring objects/ memorabilia and tell their story
- ›Virtual Exhibition on different topics

## ›Europeana Collection Days



“Mauerstein vom Potsdamer Platz,” *Berliner Grosstadtgeschichten*, accessed 11. Juni 2021, <http://grosstadtgeschichten-berlin.de/items/show/104> .

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# Collecting data

## › [Muggenradar.nl](https://muggenradar.nl) / [Mueckenatlas.com](https://mueckenatlas.com)

› Citizens are asked to collect mosquitoes in their private surroundings, kill them by freezing and send them to the research institutions

## › MfN: [WissensFluss](#) : Die Berliner Panke

› **training to collect and compile data** on the occurrence of birds, insects, plants and small animals in the water

› **learn about the ongoing renaturation measures** on the Panke and explore the special features of your local river.

› Digital training and educational materials provided on the [Naturblick](#) platform



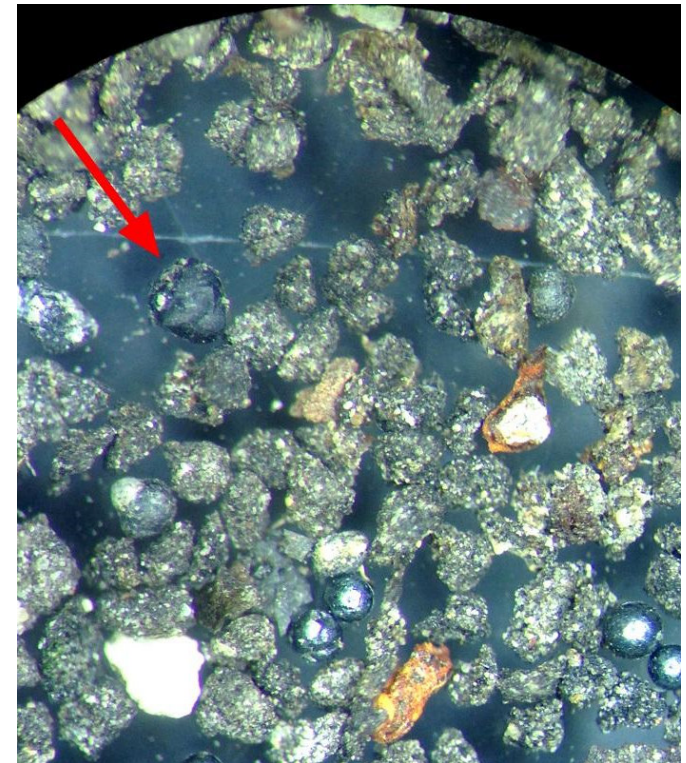
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# Collect and Analyze data

## ›Micrometeorites - The Cosmic Treasure of Berlin Roofs

- ›Citizen Science project involves citizens in the sampling, processing and evaluation of the material
- ›After brief introduction, participants will use stereomicroscopes to look for possible micrometeorites in collected samples.

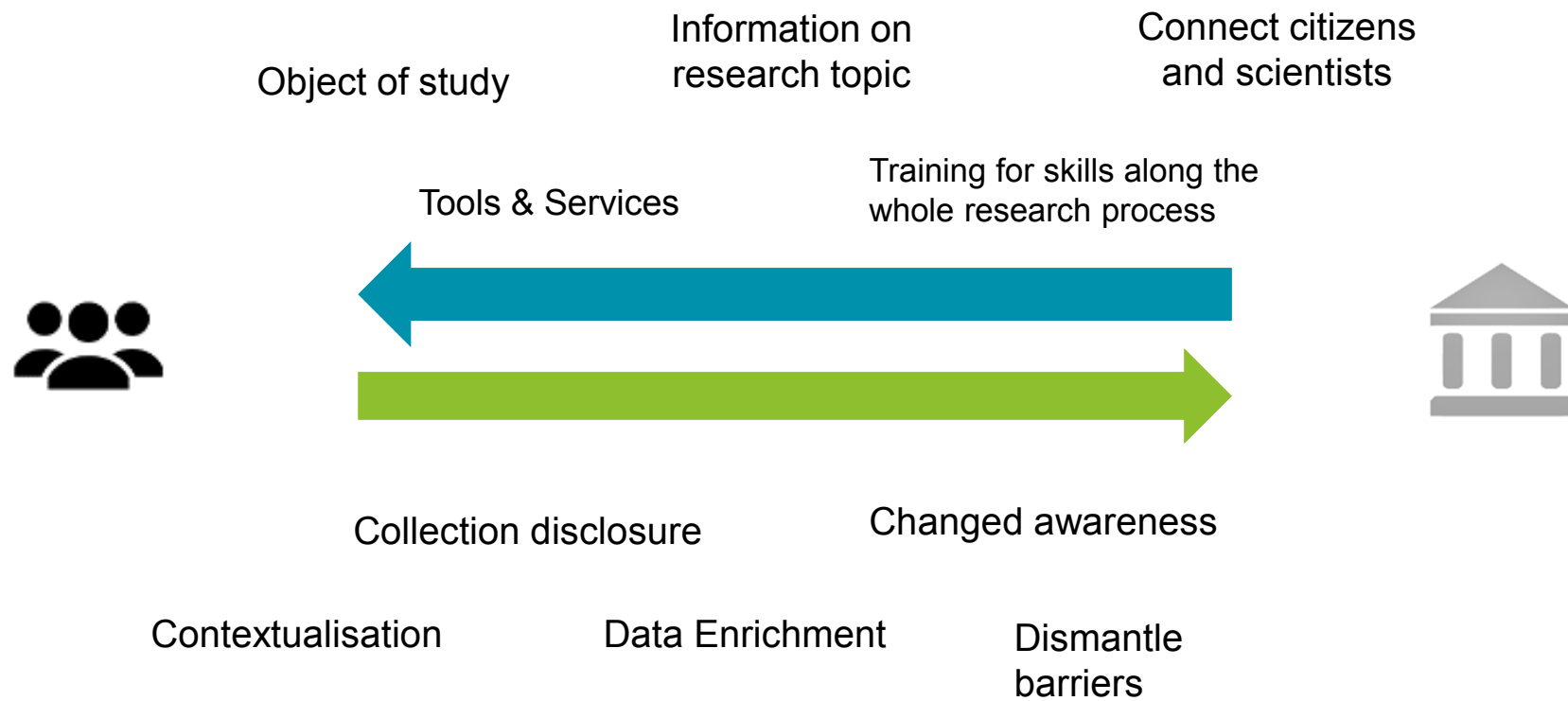


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# Libraries and Citizen Science - A beneficial cooperation?



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# Further information

- › [European Citizen Science Alliance](#)
- › [BESPOC - Broad Engagement in Science, Point of Contact](#) (under construction)
- › [LIBER Citizen Science Working Group](#)
  - › [Research Librarians Guide to Citizen Science](#)
- › [Bürger schaffen Wissen](#)
  - › [Green Paper Citizen Science Strategy 2020 for Germany](#)
  - › [Citizen Science for all – A guide for citizen science practitioners](#)
  - › [Leitfaden für rechtliche Fragestellungen](#) (German)
  
- › [Citizen Science für und mit Bibliotheken](#), *Bibliothekartag, 16.06.2021, 15-16:30*

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**Thank you!**

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