

Citizen Science in the Social Sciences and the Humanities

Alessia Smaniotto

CEOS_SE Train the trainers

online, July 13th, 2022



COESO project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 101006325

The wor(l)ds of citizen science




C*Sci 2022


Jennifer Stirk
Host

C*Sci 2022 | Community Questions

Terms: Keeping the Conversation Going

Wednesday's C*Sci2022 Plenary COLLABORATIVE session exploring a Landscape of Terms for an Inclusive CSA, as are all of our conference sessions, a jumping off point for a larger conversation. Here are a few ways we can build on this.


What different terms do you use when talking about your c*science project/work? 



First, for any of you who may not have had a chance to engage live, we have re-opened the questions (they should stay open through Friday, May 27th). Please keep two things in mind if you choose to add your thoughts:

1) engage out of a sense of curiosity and appreciation for the opportunity to learn from others with whom you might disagree, and

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community science/research
civic science/research
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public participation in research
action-research
multi-stakeholders research
....

Defining a practice

“There are many forms of participatory research, but they all have one thing in common: the acknowledgement, to varying degrees, of non-academic knowledge.”

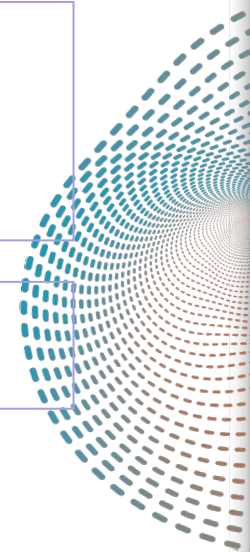
*Frédérique Jankowski e Joëlle Le Marec, «Recherche participative et gestion des ressources naturelles»,
(Conference summary, April 2011)*

“Citizen Science refers to the engagement of the general public in scientific research activities. Citizens actively contribute to science through their intellectual effort or by supporting knowledge with their tools or resources.”

Green Paper on Citizen Science: Citizen Science for Europe (2014)

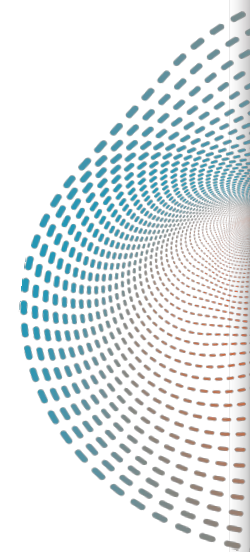
“Citizen science is a common name for a wide range of activities and practices.”

ECSCA's characteristics of citizen science (April 2021)



Defining a practice

“Citizen science is a research practice, aiming at solving a common research problem through the joint involvement of professional researchers and contributors who actively participate to the common research.”



Describing a practice

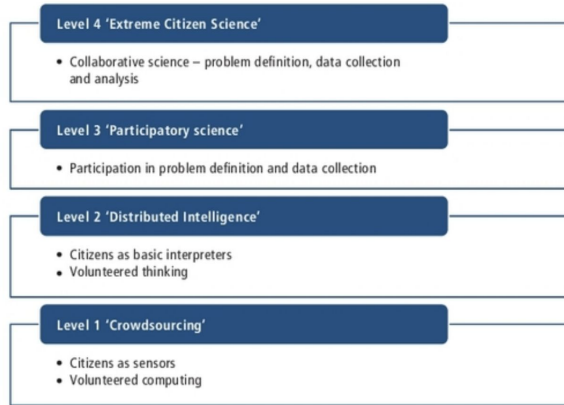


Fig. 4.1 Levels of participation in citizen science (Haklay 2013)

From an educational perspective, PPSR models differ chiefly by involving the public in these varying degrees and by altering the amount of control that participants have over the different steps. For this report we have divided PPSR projects into three major categories:

- 1) **Contributory projects**, which are generally designed by scientists and for which members of the public primarily contribute data
- 2) **Collaborative projects**, which are generally designed by scientists and for which members of the public contribute data but also may help to refine project design, analyze data, or disseminate findings
- 3) **Co-created projects**, which are designed by scientists and members of the public working together and for which at least some of the public participants are actively involved in most or all steps of the scientific process.

Impacts of Public Participation in Scientific Research

To investigate the educational impacts of PPSR we reviewed ten projects including examples of each model type—five Contributory, three Collaborative, and two Co-created. To standardize our methods

...ance and argue to determine the complexity of citizen science, as well as highlighting the evolution of typology development itself. It also reinforces the need and desire to employ a multi-faceted view when characterising, describing and analysing citizen science practice more generally.

(ii) Descriptive aspects of citizen science

In addition to the typologies and discussions in the literature, we have further identified the following aspects that can be relevant when describing a specific citizen science initiative:

Types of participants: Citizen science activities can engage a wide range of participants and members of the public. These can include, among others, school pupils, visitors of museums, adventurers or ecotourists, activists, and amateur experts in their free time.

Scientific fields: Citizen science takes place and can be rooted in many different scientific fields and areas of research, such as life sciences, physical sciences, medical research, engineering, social sciences, and humanities. Considerations of outputs and outcomes: Citizen science outcomes can range from knowledge outcomes, such as journal articles, or information used by participants to address issues of local concern, to practical policy outcomes, and tangible outputs can range from an open data repository to a personal checklist of nature observations.

Open science dimensions: The growing importance of open science [32] and the integration of citizen science as part of the European Open Science conceptualisation [33] for opening up scientific processes, stresses the need to address and consider open science practices in citizen science, such as the use of open data, open access publication, releasing research code as open source, and open lab/workflows.

Technology use and accessibility: The type of technology (e.g. computer, mobile phones, sensor boxes, scientific instrument sequencing kit) as well as their accessibility in terms of levels required to operate them, are important aspects to consider.

The temporal dimension: Citizen science activities happen only once (one-off), over a short-term (a few days or less) and/or long-term (every day and/or over a long period).

(iii) What is not citizen science?

While some exclusionary statements appear within the literature, there is no explicit definition of what should not be regarded as citizen science.

(Bonney et al., 2009)

(Haklay et al., 2020)

(Wiggins and Crowston, 2011)

From Conservation to Crowdsourcing: A Typology of Citizen Science

Publisher: IEEE Cite This PDF

Andrea Wiggins ; Kevin Crowston All Authors

277 Paper Citations 4770 Full Text Views

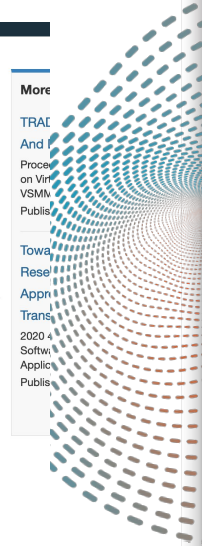
Abstract

Document Sections

- I. Introduction
- II. Related Work
- III. Methods
- IV. Findings:

Abstract:

Citizen science is a form of research collaboration involving members of the public in scientific research projects to address real-world problems. Often organized as a virtual collaboration, these projects are a type of open movement, with collective goals addressed through open participation in research tasks. Existing typologies of citizen science projects focus primarily on the structure of participation, paying little attention to the organizational and macrostructural properties that are important to designing and managing effective projects and technologies. By examining a variety of project characteristics, we identified five types-



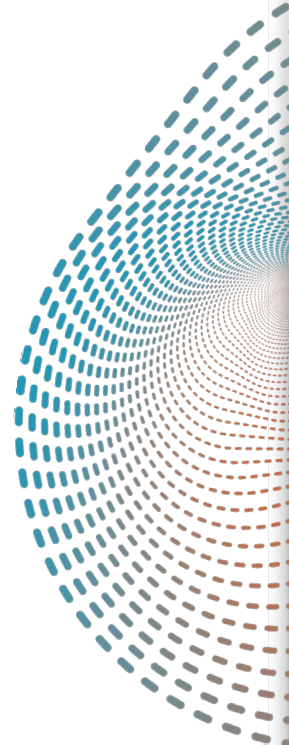
Public humanities and social sciences

1970-1990

Public History, Public Philosophy, Public Anthropology/Applied Anthropology, Public Sociology....

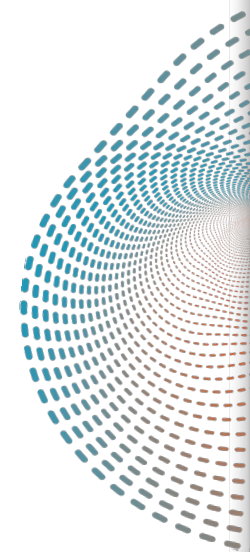
Two meanings of public engagement

- public understanding of science
- public engagement with science



Defining a practice

*“Citizen science is an interstitial space
between professional research and active engagement in research.
Within this space it is possible to collaborate to answer a common research
problem, and reflect together on how we do it.
Within this space we can recognize that research is a collective effort and that
we all have the right to take a step back to see how we are doing it.”*



Finding examples

Zooniverse categories:

Arts

History

Language

Social Sciences

The screenshot shows the Zooniverse 'Projects' page. At the top, there is a navigation bar with links for 'PROJECTS', 'ABOUT', 'GET INVOLVED', 'TALK', 'BUILD A PROJECT', and 'NEWS'. Below this is a teal header with the word 'Projects' and sub-tabs for 'Active', 'Paused', and 'Finished'. A welcome message reads: 'WELCOME! WE'RE SO GLAD YOU'RE HERE. Thank you for your interest in helping real research. Here we've gathered a few projects we could really use your help on right now. For more options just scroll down to browse all of our active projects. Make sure to also check out [Talk](#), where you can chat to other like-minded volunteers.'

Four project thumbnails are displayed in a row:

- SNAPSHOT AFRI**: A giraffe in a savanna.
- MATURITY OF BABY SOUNDS**: A baby and a monkey.
- NEW PARTICLE SEARCH AT CERN**: An icon of two people and a particle detector.
- SYNAPTIC PROTEIN ZOO**: A microscopic image of green and purple structures.

Below the thumbnails is a navigation bar with icons for various disciplines: ALL DISCIPLINES, ARTS, BIOLOGY, CLIMATE, HISTORY (highlighted), LANGUAGE, LITERATURE, MEDICINE, and NAT. Below this is a search bar with 'Most Recently Launched' selected, showing '1-20 of 31 projects found.' and a search input field.

A grid of project thumbnails follows:

- PEOPLE'S CONTEST DIGITAL ARCHIVE**: A portrait of Abraham Lincoln.
- NOTES FROM NATURE - BIG BEE BONANZA!**: A close-up of a bee's head.
- GET TO KNOW MEDIEVAL LONDONERS**: A colorful medieval map of London.
- POETS & LOVERS**: A black and white photograph of a man and a woman.
- PICTURING MICHIGAN'S PAST**: A circular logo for 'Ancestry.com Photo Postcards' with a map of Michigan.
- coram**: A logo with the text 'coram | better chances'.



Finding examples



eu-citizen.science Search Blog Events Moocs Forum Final Event About

en Login Signup

EU-Citizen.science
categories:
Social Sciences
Education

project search

Projects Resources Training Organisations Platforms Users Our Gold Star Selection

Search...

Most Recent Updated Country Status Tag Difficulty Level Social sciences Participation Task

X topic: Social sciences X Clear current search query and filters

31 projects found

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YouCount

Iceland Social sciences Inclusion Youth ...

YouCount focuses on social inclusion, which is understood as equal opportunities for youth participation in society and will elucidate three main domains of social inclusion: 1) social participation (e.g., work, ...

Transcribathon - Europeanana Transcribe

Featured

Germany Archaeology & Cultural Education ... Cultural Digital Platform ...

Transcribathon is a crowdsourcing platform that offers the unique opportunity to enrich historical material from Europeana and become an integral part of their digitisation process. This digital material — scanned ...

LastQuake

France Geology & Earth science Social sciences Geology Earth Observation ...

It is widely known that the more a population is informed of natural risks, the more it is resilient and able to face calamities. This is why **prevention and information ...**

Citizen Heritage

Archaeology & Cultural Social sciences Archaeology Digital Platform ...

CitizenHeritage takes the citizen science approach to the world of cultural heritage, where the digital realm creates new opportunities to reach out to broader audiences and facilitate community building. The project ...

Finding examples



Particip'Arc

Menu: **QUI SOMMES-NOUS** | **PRÉSENTATION** | **ANNUAIRE DES PROJETS** | **LES PROJETS** | **LES PARTENAIRES** | **PARTICIPER À UN PROJET**

Annuaire des projets

Mot-clé:

Thèmes:

Type de projet:

Localisation:

RECHERCHER

MATHÉMATIQUES - INFORMATIQUE - RO...

COSMONOTE

Prenez plaisir à écouter de la musique, à l'annoter et à apprendre sur ses structures

Comprendre et être créatif pour étudier les structures créées et façonnées dans l'interprétation musicale, c'est à dire celles qui découlent des décisions et des actions de l'interprète. Nous recrutons des participants experts ou non-experts, curieux et motivés pour annoter, découvrir et apprendre.

ARTS VISUELS

LOCUSTREAM RÉSEAU DE MICROPHONES OUVERTS.

Un réseau de microphones ouverts qui « stream » des environnements sonores.

Le projet Locustream est un réseau de microphones ouverts qui « stream » des environnements sonores, en direct à partir de lieux patrimoniaux autour du globe, via notre serveur sécurisé dédié.

WEB - NUMÉRIQUE

FABPART LAB

Médiation, participation et valorisation numérique des mémoires et patrimoines

Le Fabpart Lab explore et met en œuvre la fabrique de la participation du Labex Les Passés dans le présent. Il est un lieu de rencontre, d'échange et d'expérimentation autour de la participation, de la médiation et de la valorisation numérique des mémoires et des patrimoines dans le cadre du Labex.

SCIENCES HUMAINES ET SOCIALES

PLACES - PLATEFORME COLLABORATIVE POUR LES ENJEUX SOCIÉTAUX

Le projet PLACES a aussi des chercheurs et des journalistes à travailler mais dans la mise sur une même enquête, c'est à dire à définir un sujet d'étude, à explorer un terrain et à en produire une analyse commune, voire à façonner ensemble le produit final qui

HISTOIRE

"LA COMMUNALE" Identifiant son école en 1884

Le projet a pour but de faciliter l'accès géographique aux registres de l'école de 1884 dans la situation matérielle des écoles primaires publiques, sources de première main sur l'histoire locale, sociale ou des mentalités d'une France encore très largement rurale.

HISTOIRE

SIGIAL - SIGILLOGRAPHIE DE L'ALSACE

Sigial vise la préservation, valorisation et étude scientifique de patrimoine épigraphique de l'Alsace et du Rhin supérieur, par la numérisation et l'analyse de l'ensemble des sources (engraissées et martellées) conservées dans cette région. Nous travaillons avec la base de données SIGELLA.

ANR Collabora

DISPOSITIFS CONTRIBUTIFS CULTURELS

Observatoire | Grille d'analyse | Résultats | Le projet

Accueil > L'Observatoire

L'OBSERVATOIRE

Un des objectifs du **projet ANR COLLABORA** est de penser, construire et diffuser un Observatoire des dispositifs culturels », nous nous référons à tout dispositif numérique qui permet à des acteurs de la société civile de contribuer à l'interaction avec une ou plusieurs institutions culturelles (archives, bibliothèques, musées, théâtres ou directement une

L'objectif de cet Observatoire est double :

- **Objectif scientifique** : Construire une base de données qui puisse permettre de produire une définition opérationnelle et qualitative d'un corpus de dispositifs par rapport à une série de paramètres prédéfinis.
- **Objectif grand public** : Donner de la visibilité au phénomène des dispositifs contributifs culturels à travers la création d'outils.

Cet observatoire a été mis en place à partir de novembre 2019, afin de recenser de manière ponctuelle les dispositifs de l'étranger, et d'en mettre en évidence, par le biais d'une fiche très détaillée, les thèmes, les sujets, les éléments innovants.

La liste des dispositifs a été construite à travers une première phase de veille du web et de la littérature réalisée par les membres du projet qui permettait à quiconque de suggérer un dispositif ([suggérer-une-plateforme](#)). L'analyse a pris en compte aussi des dispositifs qui aujourd'hui ne sont plus actifs. La grille de

Culture en partage

Guide des plateformes culturelles contributives

Marta Severo
Sébastien Schulz
Olivier Thuillias

UCL

Various domains of participatory practices

Arts and literature
Archives and history
Popular culture
Music and audiovisual media
Heritage and tourism



- data production
- inventory
- crowdsourcing
- collaborative transcription and correction
- indexing of images or documents
- correction and enrichment of metadata
- ..



Exemples/crowdsourcing, collective intelligence



Involve the public in the online transcription of original and unstudied manuscripts of J. Bentham



Involve volunteers to identify, manage and protect threatened archaeological sites of the UK's coastal areas. Led by the London Museum of Archaeology.



Historical map platform with over 50 million data points that each registered user can manage and populate



Contributory platform to build up an Estonian photo library, managed by the Estonian Photographic Heritage Society



Examples/extreme citizen science



A “fully integrated” activity where participants are involved in choosing the scientific problems to work on, and are also involved in defining the methods and means of data collection used. (M. Haklay)

Journal of Contemporary Criminal Justice

1,523 Impact Factor
5-Year Impact Factor 2.500
Journal Indexing & Metrics >

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Full Article

Content List

- Abstract
- Cuyahoga County SAK Task Force (Task Force)
- The Researcher and the Reporter
- Outcomes of the Collaboration
- Figures & Tables
- Article Metrics

Dissemination and Impact Amplified: How a Researcher-Reporter Collaboration Helped Improve the Criminal Justice Response to Victims With Untested Sexual Assault Kits

Rachel E. Lovell, Rachel Dissel

First Published March 18, 2021 | Research Article | Check for updates
<https://doi.org/10.1177/1043986221998880>

Article information

Abstract

We present a case study of a researcher-reporter collaboration that formed from an initiative to address thousands of previously untested rape kits in one Midwestern (U.S.) jurisdiction. We explore this symbiotic partnership by examining (a) how and why it formed; (b) the outcomes, including extensive and public dissemination and a unique project that surveyed 294 Ohio law enforcement agencies to see what happened after the rape kits were tested (Ohio Rape Kit Survey Project); and (c) the impact that the partnership, dissemination, and larger initiative had in sparking demonstrable change in how the justice system and the general public responded to and engaged with the issue of untested rape kits and with victims of sexual assault. We conclude with larger takeaways from this collaboration for researchers and reporters but also provide a framework for how this type of collaboration can be leveraged to produce change for the greater good.

Article available in:
Vol 37, Issue 2, 2021

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Rapport de recherche rédigé dans le cadre du projet
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Examples/extreme citizen science



Cidade (In)visível

Turismo e outras práticas quotidianas em Lisboa

Redactors Sobre o blog



Roupa colorida que a gente estendeu

elisakopcediva
23/05/2022
Bairro de São José, Passeio,
Quadrante
Deixe um comentário



Calças cinzentas e camisas estampadas, calças de ganga, mantas às riscas e meias de vários tamanhos dispõem-se na corda de um rés-do-chão de um prédio da Travessa dos Despacho, à rua do Passadico.

As roupas coloridas estendidas nas varandas e nas janelas, expostas ao sol de Verão e de Inverno, marcam há muito a paisagem urbana de Lisboa, à semelhança de outras cidades do Sul europeu. Ao caminhar em Outubro passado pelo bairro de São José, eu, a Andreia Magalhães, a Islene Façanha e o Nuno Castro Caldas, associados da ZERO, questionámo-nos se esta era uma boa maneira de sabermos mais sobre quem vive nestes prédios. Estávamos num Sábado de manhã, numa altura em que se tornam prementes os afazeres domésticos da semana, e espalhava-se pelas ruas o perfume da roupa recém-estendida. A variedade de roupas, dos calções de criança às camisas de trabalho, fazia-nos pensar que ali continuavam a viver famílias.

Procurar ...

Um blogue de investigação colaborativa no âmbito do projeto europeu COESO – Collaborative Engagement for Societal Issues.

O projeto "Cidade (In)visível. Turismo e outras práticas quotidianas em Lisboa" observa práticas turísticas a uma escala micro, documentando e analisando situações de conflitos, mediações, processos de acordo, os quais moldam a vida urbana.



Dansophie/Dancing philosophy

Projet de recherche participative dans le cadre du projet européen COESO – Collaborative Engagement for Societal Issues

Crédits À propos

La dimension dell'osservatore

danielemarina
29/06/2022
cadmium compagnie,
COESO, danse, dansa
Laban Cinégraphie AFCAED,
AFCAED, observatore,
philosophia, publico,
transmedia
Laisser un commentaire

Siamo giunti a fine percorso.

Questo articolo fa seguito al primo, scritto all'inizio del mio impegno. Mi sono molto speso da febbraio ad oggi, ho lavorato duro su me stesso, per gli altri e con gli altri.

Osservatore-catalizzatore, questo è il ruolo che ho ritagliato e ricoperto.

Volevo prima scrivere qualcosa per poi introdurre delle registrazioni audio dove discuto intorno al mio ruolo e al mio contributo. Trovando difficoltà a scrivere ho deciso di registrare prima e di scrivere poi.

Ma dopo aver parlato ho ritenuto non più necessario scrivere. Vi invito ad ascoltarmi. Io l'ho fatto.



Le rôle du notateur

Marine BDN
28/05/2022
Laisser un commentaire

Nous sommes le 29 juin 2022, et notre Pilote 2 s'arrête officiellement demain.

Avant de conclure cette expérience, je voulais encore partager quelques mots sur le rôle du notateur dans ce projet.

Recherche...

MOTS-CLEFS

Barcelona | cadmium compagnie
Carla Lonzi | COESO | danse
danse Laban Cinégraphie AFCAED
Hegel | observatore | philosophia
psychoanalyse | publico
recherche citoyenne | transmedia

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Thank you!

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Citizen Science in the Social Sciences and the Humanities

CEOS_SE Training

online, July 13th, 2022



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