

Popular Science Monthly, 1902

“The era of the amateur scientist is passing; science must now be advanced by the professional expert”

<https://sciencetechnologystudies.journal.fi/article/download/60425/37504/>

Jillian Campbell, UNEP, 2019

“Data generated by citizens (citizen science) has tremendous potential for helping us monitor the goals. Engaging citizens in the data collection process improves community awareness and action”

<https://www.unenvironment.org/news-and-stories/story/untapped-potential-citizen-science-track-progress-sustainable-development>

Citizen Science Intro

Sampsa Fabritius

Community of the society- and planet-positive ventures



Watch more videos ▶

Who are we?

We are, first and foremost, a home for entrepreneurial changemakers – a community of like minded individuals operating both online and in real life through the open, safe space where everyone has the freedom to collaborate and support even on difficult topics.

[About us](#)

[Facebook Group](#)



IMAGINARIES

FORERUNNERS

TRANSFORMATIVE ENTREPRENEURSHIP

Sampsa Fabritius

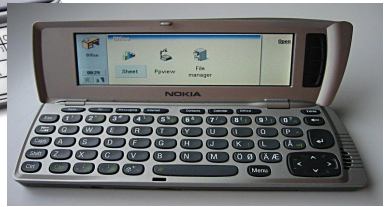
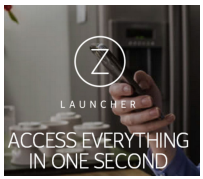
data ownership reform, education of heart, systems thinking is new literacy, global SDGs resolved, pro-society entrepreneurship, regenerative economy, 100% clean energy.

Sari Stenfors

green data, new economic structures, accessibility and equality in the digital worlds, earth as society centric AI, transparent wellbeing systems, time and brain expansion. Forbes 50 female futurist in 2020.



2020
...



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Citizen science is scientific research conducted, in whole or in part, by **amateur** (or nonprofessional) **scientists**.^[1]

Citizen science is sometimes described as **"public participation in scientific research,"** participatory monitoring, and participatory action research whose outcomes are often advancements in scientific research, as well as an **increase in the public's understanding** of science.

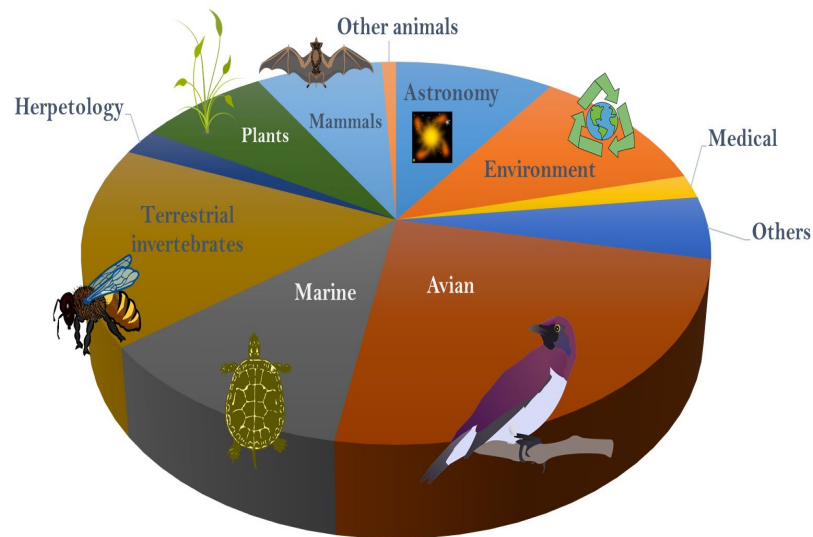
(**CS**; also known as **community science, crowd science, crowd-sourced science, civic science, volunteer monitoring, or online citizen science**)

Sensing (e.g. eBird)	Human observations or objective measurements	<p>“Citizen science offers to turn anyone into a scientist, promising to produce new knowledge, educating the public and above all reconfiguring science from a closed to an open activity—in short, “democratizing” science.”</p>
Computing (e.g. SETI)	Volunteer computing to contribute free processing capacity	
Analysing (e.g. Stardust)	Crowdsourcing of classification or other analytical tasks	
Self-Reporting (e.g. 23andMe)	Data contributions on qualitative or objective quantitative information	
Making (e.g. hacker labs)	Coordinated action of voluntary research such as open biohacking labs	

Epistemic classification

Strasser, B., Baudry, J., Mahr, D., Sanchez, G., & Tancoigne, E. (2019). "Citizen Science"? Rethinking Science and Public Participation. *Science & Technology Studies*, 32(ARTICLE), 52-76.

<https://scientechnologystudies.journal.fr/article/download/60425/37504/>



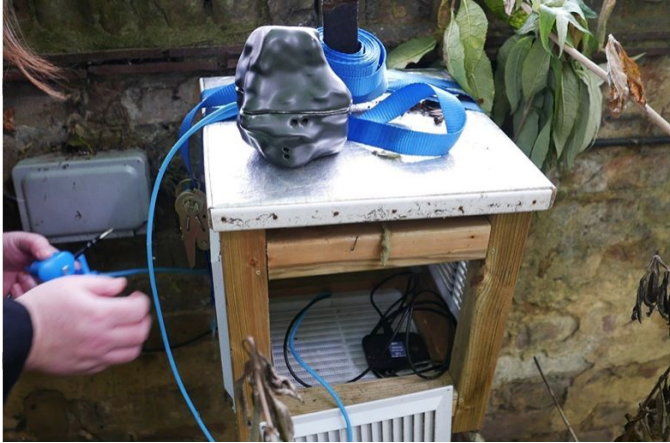
Thematic distribution

Credit: Egle Marija Ramanauskaite (CC BY 2.0)

Based on data from Follett R, Strezov V (2015) An Analysis of Citizen Science Based Research: Usage and Publication Patterns. PLoS

ONE 10(11): e0143687. doi:10.1371/journal.pone.0143687

<https://www.flickr.com/photos/128817076@N03/23109738150>



Equipment operated by citizen

- A Connected mesh of instruments by citizens
- Range from simple to complex parameters
- Various platforms and initiatives exists
- Objective data can be validated by anyone

E.g.

<https://citizensense.net/urban-sensing/>



Contributions shared by citizen

- Observations and sentiments shared by citizens
- Range from simple to complex phenomena
- Various platforms and initiatives exists
- Subjective data can be validated by anyone

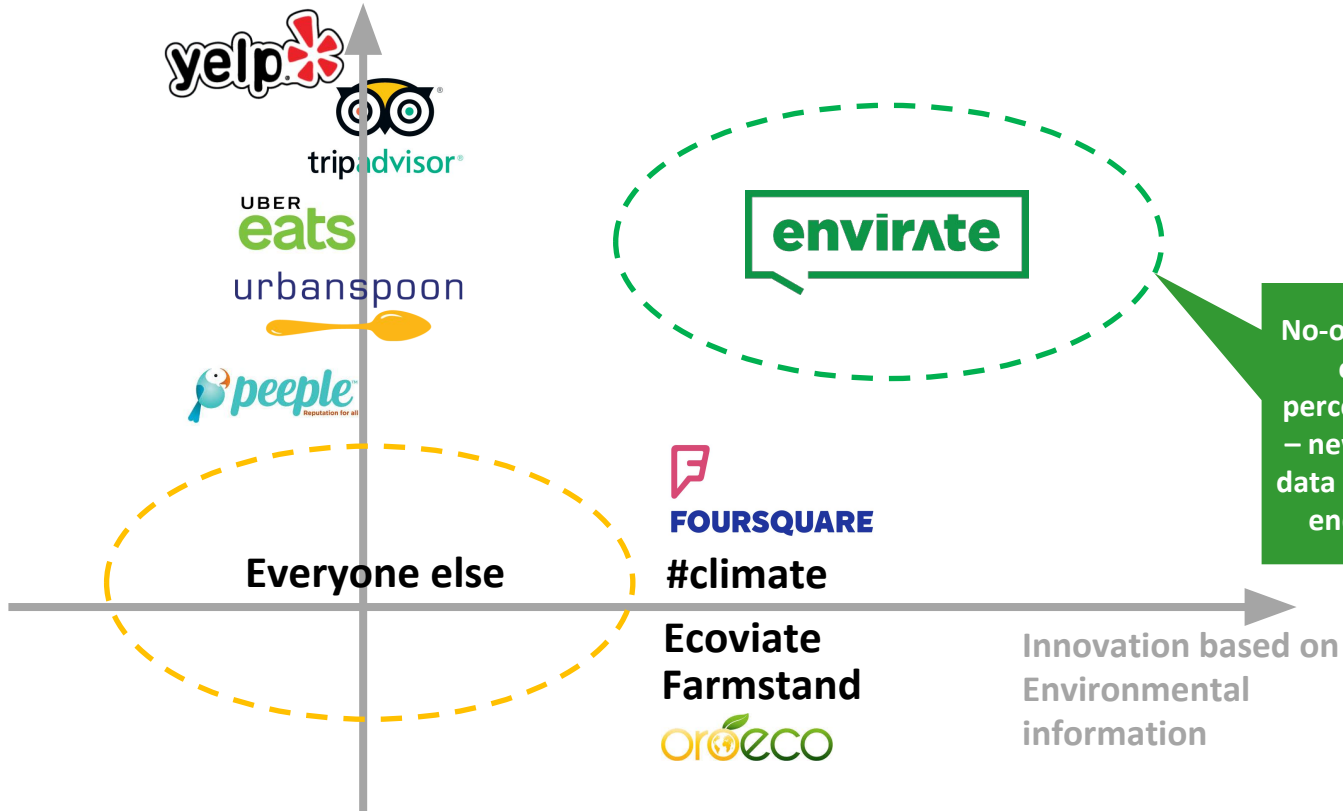
E.g.

<https://blog.scistarter.com/2019/08/human-impact-climate-change-citizen-science/>

Competitive landscape on citizen data collection



Innovation based on rating things

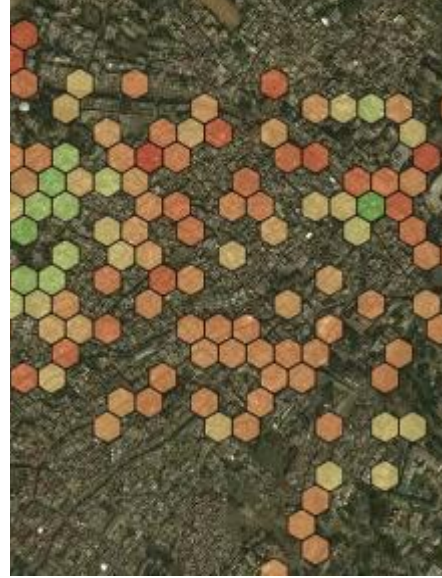


No-one else is rating the environment as perceived by the people – new unique global big data that can be used for endless applications

Budapest, Hungary

Dehradun, India

envirate



Rating is FUN !
23 cities in
16 countries

- Amsterdam, the Netherlands
- Bratislava, Slovakia
- Brno, Czech rep
- Brussels, Belgium
- Budapest, Hungary
- Cairo, Egypt
- Copenhagen, Denmark
- Dehradun, India
- Fatehgarh, India
- Gdansk, Poland
- Helsinki, Finland
- Joensuu, Finland
- Kyoto, Japan
- Malmo, Sweden
- Pals, Spain
- Rovaniemi, Finland
- Sofia, Bulgaria
- Taichung, Taiwan
- Tallinn, Estonia
- Tampere, Finland
- Thiruvananthapuram, India
- Turku, Finland
- Zell, Germany

After spotting ugly places... Action time!

People can create local environmental activities. Join others' activities, feel the fun and social empowerment!

