Hi, I'm Liz Barry



TreeKIT

helps city dwellers measure, map, and manage street trees, now as New York City's TreesCount! 2015.



Public Lab



is a community & a non-profit, democratizing science to address environmental issues that affect people.

How to start a project?

"I wonder..."

Share the curiosity

Other People...

In your project,

Sometimes other people are a crowd.

At other times, other people are stakeholders.

Or perhaps members, backers, participants, collaborators, co-creators, local experts, subjects, focus groups, friends, fans, followers, or [...]

Designing Participation

Question 1: Knowledge in the service of what?

Practice	What for?
Science	Discovery + Peer-reviewed Publication
Policy + Governance	Enforcement and Compliance
Management + Stewardship	Evaluation and Adaptation

Silva, Philip. Forthcoming publication, Cornell University, 2015

Question 2: What degree of participation?

Public action in each PPSR model	Members of the public
Contract	ask scientists to conduct a scientific investigation and report on results
Contribute	are asked by scientists to collect and contribute data and/or samples
Collaborate	assist scientists in developing a study and collecting and analyzing data for shared research goals
Co-create	develop a study and work with input from scientists to address a question of interest or an issue of concern
Colleagues	independently conduct research that advances knowledge in a scientific discipline

Shirk, J. L., H. L. Ballard, C. C. Wilderman, T. Phillips, A. Wiggins, R. Jordan, E. McCallie, M. Minarchek, B. V. Lewenstein, M. E. Krasny, and R. Bonney. 2012. Public participation in scientific research: a framework for deliberate design. Ecology and Society 17(2): 29. <u>http://dx.doi.org/10.5751/ES-04705-170229</u>

Practice	What for?	Participatory version
Science	Discovery + Peer-reviewed Publication	Citizen Science + PPSR
Policy and Governance	Enforcement + Compliance	Street Science / Civic Science / Community Science
Management + Stewardship	Evaluation + Adaptation	Action Science + Adaptive Management

Silva, Philip. forthcoming publication, Cornell University, 2015

Question 3: How to structure inquiry with individuals and groups?

"C" science is about people.

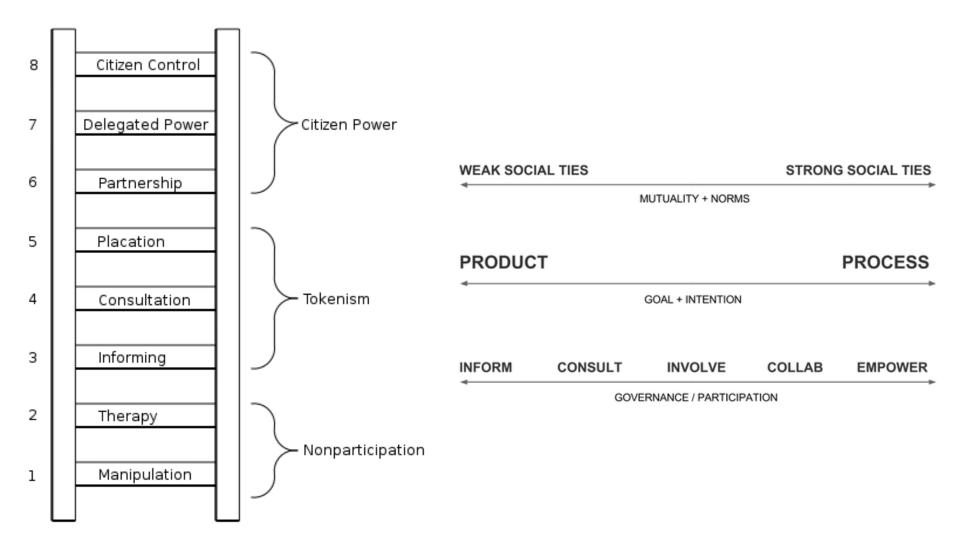
"Education either functions as an instrument which is used to facilitate integration of the younger generation into the logic of the present system and bring about conformity or it becomes the practice of freedom, the means by which men and women deal critically and creatively with reality and discover how to participate in the transformation of their world."

- Paulo Freire, Pedagogy of the Oppressed, 1968

All Mixed Up? Instrumental and Emancipatory Learning Toward a More Sustainable World: Considerations for EE Policymakers

Applied Environmental Education & Communication, Volume 7, Issue 3, 2008. Arjen E. J. Walsa, Floor Geerling-Eijffa, Francisca Hubeekb, Sandra van der Kroona & Janneke Vadera. pages 55-65

Motivation 8 Agency

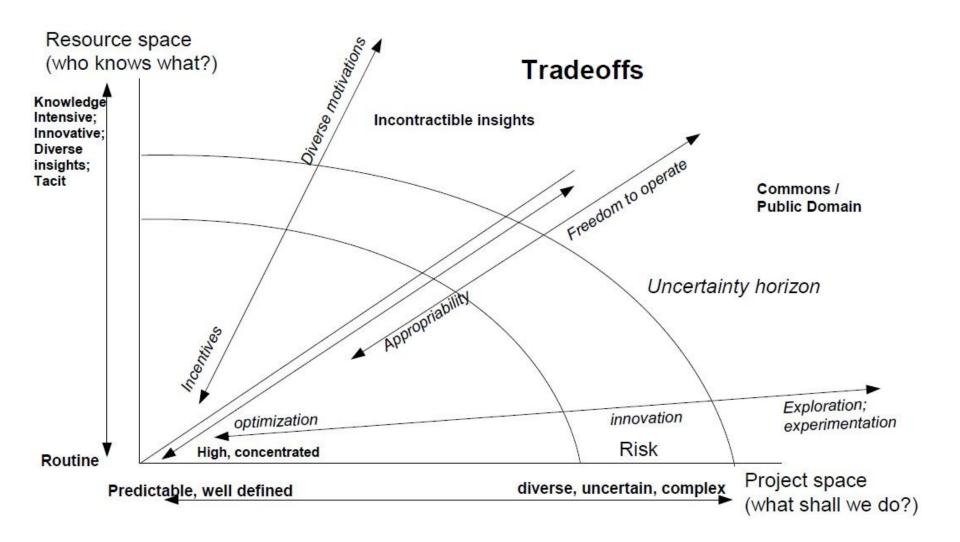


Shelley Arnstein, Ladder of Citizen Participation, 1969 Caroline Woolard, Louise Ma, Adapted Arnstein Ladder, 2013

"I would love to change the world, but they won't give me the source code"

Open source

Hardware, Software, Docs, Data, **Community structure**



Yochai Benkler, 2011 The Penguin and the Leviathan: How Cooperation Triumphs over Self-Interest

Outcomes data quality, lifespan of engagement, the generation of political will, and real world impact





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COMMUNITY PROJECTS ABOUT

lizbarry -





Find

a crowdcrafted project

that fascinates you, and help researchers analyse their data.

START CONTRIBUTING

Make

a crowdcrafted project

and get other volunteers to help you analyse your data.

CREATE A PROJECT

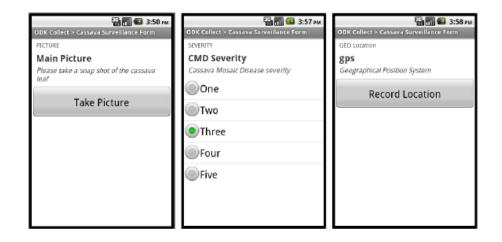








OPEN DATA KIT





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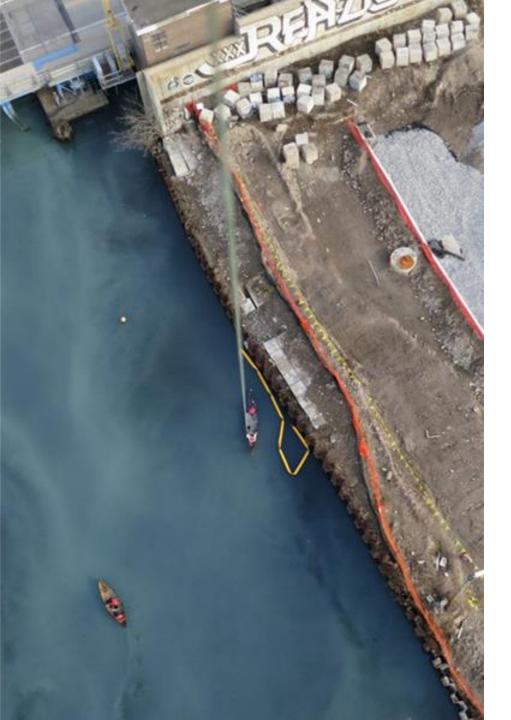
We work in an open community that anyone can join.

This makes us stronger community organizers,

technologists, scientists and activists.

In Public Lab, we believe that generating knowledge is a powerful thing.

We aim to open research from the exclusive hands of scientific experts.



By doing so, communities facing environmental justice issues are able to own the science and advocate for the changes

they want to see.

Promoting a hands-on, do-it-yourself ethos,

we support each other's exploration, which leads to technical development, and real applications in our communities. The science, technology and data in Public Lab are community-created and open source.

We utilize our open data to advocate for better environmental management, regulation, and enforcement.



We are a worldwide community with local focus.

We work online, through an interactive wiki where people can pose questions, post their research and reach out to others.



Research questions are focused on addressing local issues,

and are driven by on-the-ground community work.

Learn more at **PublicLab.org**

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