HOW TO MEASURE ENGAGEMENT

used by:
Queen Bees

Citizen science: How can you measure participant engagement?

Ever wondered about what fuels citizen science projects? It's called engagement, and measuring it is the compass that points to the success of the project.

Why does engagement matter?
Imagine your project as a symphony – engagement is the melody that binds us, propels us forward, and makes the magic happen. It's the heartbeat of community, the spark of innovation, and the key to unlocking knowledge.

Let's dive into the essential steps in figuring out how to measure this engagement!

Understanding Different Engagement Types

First of all, why do people get on board with citizen science projects?

There are two categories to explain people's reasons for taking part – inner and outer motivations.

Inner (intrinsic) motivation is when people do something because it's fun or interesting. For example, a participant could be passionate about tackling climate change, or they could enjoy being part of the bigger science community.

Outer (extrinsic) motivation, on the other hand, that's when rewards or reactions from others come into play. For instance, participants might sign up to participate because they're aiming to boost their status, earn some reputation points, or even get exciting job opportunities.

Understanding Different Engagement Types

Understanding what drives participants is like having a superpower for project organisers! If participants are in it for joy and curiosity (inner/intrinsic motivation), organisers can amp up the excitement of learning and making a real impact.

On the other hand, if they're in it for rewards or recognition (outer/extrinsic motivation), organisers can add incentives and shout-outs.

It's all about tailoring the experience to what makes participants tick. This magic touch ensures that citizen science projects become not just tasks but exciting projects, keeping everyone hooked and contributing in the most awesome ways!

Defining metrics

Before measuring different types of engagement, you need to 'define your metrics'.

But what does this actually mean?
'Defining metrics' means setting clear guidelines to measure how involved and connected participants are. It means deciding on what things to look at, like how often people contribute, talk to each other, or work together. These measures are important because they will help you to understand if the project is achieving its goals, whether it's building a community, helping people learn new things, or reaching important milestones.

So, defining metrics is like creating a roadmap to see how well everyone is working together and making a real impact within the project!

1. Affective engagement

So, what different types of engagement are there?

The first type is called 'affective engagement'. It deals with feelings — from excitement to level of commitment. Measuring this evaluates the project's ability to offer a positive experience. It checks if participants find the project personally meaningful and fulfilling.
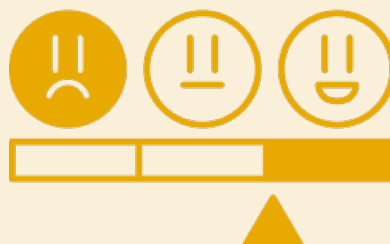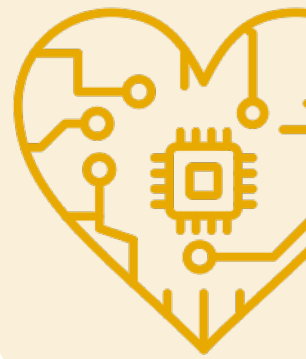
Great ways to measure the joy, commitment, and overall satisfaction of participants include:
Surveys
Feedback sessions
Participant testimonial

2. Cognitive engagement

The second type is called 'cognitive engagement' and involves learning new skills and gaining knowledge. Measuring this gives us insight into the project's educational effectiveness. It assesses whether participants gain knowledge, skills, or insights, contributing to the project's broader goals.

Great ways to measure whether participants have gained knowledge and have developed skills and insights include:
Quizzes
Assessments before and after participating
Participant reflections (through surveys, interviews, focus group discussions, dedicated reflection sessions)

3. Social engagement

The third type is 'social engagement' and is about relationship building and knowledge sharing. Measuring this is really important for assessing the project's ability to build a sense of community. It checks if the project fosters collaboration, mutual support, and shared knowledge, which is vital for sustained engagement.

Great ways to track community interactions, collaborative efforts, and shared knowledge include:
- Social surveys
- Discussion forums
- Feedback loops

Collecting data

Unleashing the magic of participant engagement in citizen science is like having a set of investigative tools! Surveys are like engagement detectives, interviews and focus groups are Sherlock Holmes, and observation and logs are time-travelling companions.

Together, these tools create an engaging journey to understand and enhance citizen science project engagement!

Feedback & Flexibility

It's important to keep the conversation flowing. Actively seek feedback from participants and create open channels for communication. Establish feedback loops as your engagement allies, consistently gauging participant experiences for a truly participant-centric approach.

And remember, flexibility is key! Make sure to regularly reassess and tweak your engagement measurement strategies in response to project evolution, participant insights, and emerging trends.
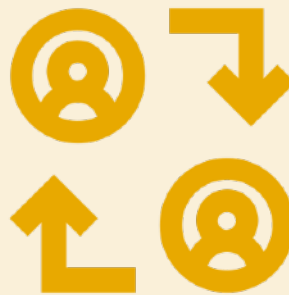
Documentation & Reporting

Finally, documentation and reporting are really important in citizen science. They keep track of what's happening, help us learn from it, and show how well our engagement plans are working. They're our way of being transparent and accountable, telling everyone — from stakeholders to participants — how the project is going.

Reports guide our decisions, help us use resources wisely, and prove the project's impact to supporters. By doing this, we close the loop, letting participants see how their contributions make a real difference. In a nutshell, documentation and reporting are our secret weapons for making sure citizen science projects not only measure engagement but also get better and better over time!

Remember, your citizen science project is all about people — what drives them, how they feel, and what they do. Have a blast exploring, learning, and making a difference in your community!

For more information, check out this useful guide:
https://www.scivil.be/en/ book/communication- citizen-science