The [System Name] Survey

This survey is part of the [system name] research. The purpose is to study how people use, share, and think about the [system name]. The information will help develop similar systems for supporting environmental justice. The survey is completely anonymous and is expected to take less than 30 minutes.

Please answer each question carefully and to the best of your ability. Thank you!

Before you knew the [system name]

1. Please select the answer that shows how you feel about the statement.
   (Answer this question based on the time **before** you knew the [system name])

	Strongly agree	Agree	Neither agree or disagree	Disagree	Strongly disagree
I was concerned about air quality.	◯	◯	◯	◯	◯
My involvement with ACCAN's actions was active.	◯	◯	◯	◯	◯
I was confident when I discussed air quality issues with other people.	◯	◯	◯	◯	◯
I felt my actions were influential in improving the local air quality with ACCAN.	◯	◯	◯	◯	◯
I was comfortable with local air quality.	◯	◯	◯	◯	◯
I was confident that I and ACCAN could achieve the goal of improving the local air quality.	◯	◯	◯	◯	◯

After you knew the [system name]

2. Please select the answer that shows how you feel about the statement.
   (Answer this question based on the time **after** you knew the [system name])

	Strongly agree	Agree	Neither agree or disagree	Disagree	Strongly disagree
I was concerned about air quality.	◯	◯	◯	◯	◯
My involvement with ACCAN's actions was active.	◯	◯	◯	◯	◯
I was confident when I discussed air quality issues with other people.	◯	◯	◯	◯	◯
I felt my actions were influential in improving the local air quality with ACCAN.	◯	◯	◯	◯	◯
I was comfortable with local air quality.	◯	◯	◯	◯	◯
I was confident that I and ACCAN could achieve the goal of improving the local air quality.	◯	◯	◯	◯	◯

3. About how many people did you discuss the [system name] with?

4. About how many times did you go to the monthly ACCAN meetings in 2015?

5. Did you **visit** or **use** the [system name]?
   ○ Yes
   ○ No [Skip question 4 and 5]

6. How did you **explore** data on the [system name]?
   (Ignore this question if you did not explore data.)
   [Please select all answers that apply]
   ○ I clicked on the video playback button to watch the video
   ○ I zoomed in and out of the video
   ○ I used the line charts showing air quality data
   ○ I clicked on the fast-forwarding button to jump to smoke emissions
   ○ I browsed the images produced by the automatic smoke detection tool
   Other (please specify)

7. How did you **document** data on the [system name]?
   (Ignore this question if you did not document data.)
   [Please select all answers that apply]
   ○ I found smoke in the video and used the thumbnail tool to generate images. Then I collected these smoke images in a document (e.g. Google Doc, Microsoft Word)
   ○ I selected the images produced by the automatic smoke detection tool. Then I collected these smoke images in a document (e.g. Google Doc, Microsoft Word)
   ○ I wrote stories on online platforms (e.g. Facebook, Twitter, and Post-Gazette), and these stories referred to the [system name].
   Other (please specify)

8. How did you **share** data via email or online platforms?
   (Data include images, web links, stories, etc. Online platforms include Facebook, Twitter, Post-Gazette, etc. Ignore this question if you did not share data.)
   [Please select all answers that apply]
   ○ I shared smoke images produced on the [system name]
   ○ I shared screenshots of the [system name]
   ○ I shared web links to the [system name]
   ○ I shared stories which refer to the [system name]
   Other (please specify)

9. If you **shared** data, what were your **motivations**?
   (Ignore this question if you did not share data.)
   [Please select all answers that apply]
   ○ I thought that the data is valuable. I shared to make people aware of air quality issues.
   ○ I shared to show that I care about air quality problems
   ○ I shared to stay close to people who also care about air quality problems
   ○ I shared to get feedback from others. This made me feel I was a part of the community
   ○ I shared to spread the word about the [system name]
   Other (please specify)

10. How often did you browse the [system name] after you noted smoke or bad smells? (E.g. look for evidence, check smell reports)

Every time	Almost every time	Sometimes	Almost never	Never
○	○	○	○	○

11. The [system name] shows and records air quality data. How likely do you think that browsing the [system name] makes people care about air quality problems?

Extremely likely	Likely	Neither likely nor unlikely	Unlikely	Extremely unlikely
○	○	○	○	○

12. There are published air quality stories which refer to the [system name]. How likely do you think that reading these stories make people care about air quality problems?

Extremely likely	Likely	Neither likely nor unlikely	Unlikely	Extremely unlikely
○	○	○	○	○

[Images of the system]

13. Please rate the importance of the features on the [system name].

	Extremely important	Very important	Moderately important	Slightly important	Not at all important
Short stories on the first page	○	○	○	○	○
The timelapse video	○	○	○	○	○
Zooming in and out of the video	○	○	○	○	○
Sharing a web link of a view and time	○	○	○	○	○
Smell reports	○	○	○	○	○
Line charts showing sensor readings	○	○	○	○	○
The line chart showing smoke detection	○	○	○	○	○
The map showing sensor values	○	○	○	○	○
The thumbnail tool that people can use to manually generate smoke images	○	○	○	○	○
The automatic smoke detection tool which produces smoke images	○	○	○	○	○
Smoke images which were shown during the community meeting with the EPA	○	○	○	○	○

14. Do you have other comments?

| |
| |

15. What is your age?
- ○ 18-24
- ○ 25-34
- ○ 35-44
- ○ 45-54
- ○ 55-64
- ○ 65-74
- ○ 75+

16. What is your education level
- ○ No formal educational credential
- ○ High school diploma or equivalent
- ○ Some college, no degree
- ○ Postsecondary nondegree award
- ○ Associate's degree
- ○ Bachelor's degree
- ○ Master's degree
- ○ Doctoral or professional degree

You have completed the survey. This survey is part of the [system name] research. Thank you very much for your participation.