

# POST SOCIO-BEE Citizen Science Activists Evaluation Questionnaire

This questionnaire is filled in ONCE, for ex-post analysis, by those participants who started a campaign. These data will be compared with answers to some of these questions previously filled in by some users through the PRE SOCIO-BEE Citizen Science Activists' Evaluation Questionnaire.

SOCIO-BEE (Wearables and droneS for City Socio-Environmental Observations and BEhavioral ChangE) project has been funded by H2020 programme for research, technological development and demonstration, under grant agreement No 101037648. For more information about the project, please visit: <https://socio-bee.eu/>

*\* Indica que la pregunta es obligatoria*



1. First, did you previously answer the PRE SOCIO-BEE Citizen Science Activists Evaluation Questionnaire? \*

*Marca solo un óvalo.*

☐

Yes

*Salta a la pregunta 10*

☐

No

*Salta a la sección 2 (Consent form SOCIO-BEE)*

## Consent form SOCIO-BEE

All the information that we collect about you during the course of the research will be kept strictly confidential. You will not be able to be identified in any publications. The results of this investigation may be published in reports, scientific journals or conferences and used in further studies, but it will not be possible to identify the source of the information.

Nothing of the provided data will be handed out to third parties. The authorization for the use and access to your information is valid until the end of the project, unless you decide to cancel it before. Your decision whether or not to give your authorization for the use and diffusion of the information provided by you is completely voluntary.

If you want further information about the SOCIO-BEE project you click in this [Information Sheet link](#)

Based on all the information provided in the information sheet we continue with the following.

Regarding *my participation*, or the *participation of a minor I represent*, in the project, I declare that:

- I have been informed that SOCIO-BEE project is a research project currently run under the Horizon 2020 Framework Programme under the grant agreement no. 101037648. The co-ordinator of the project is CERTH (ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS). The coordinator of the project may be contacted at +30 2310 498100. The coordinator of this study may be contacted with regard to any question about my participation at [drosou@iti.gr](mailto:drosou@iti.gr) or at +30 23 10 498 100. I have been informed that in case of injury, I can contact the following number [insert national emergency number, e.g. 112].
- I have read and understood the Research Ethics Protocol for SOCIO-BEE Citizen Scientists and I abide by its principles.
- I have been informed about the purposes of the project and I have fully understood which tasks my participation in the study entails from my side. I had enough time to think and I have been able to ask all the questions that have come to mind and I have received a clear answer to those questions.
- I have fully understood that my participation is entirely voluntary and that I can withdraw at any time without any detrimental consequences.
- I understand I will not be paid for my participation.
- I understand the risks that my participation to this research may carry.
- I understand that if I choose to withdraw from the project, I am obliged to return all the technology and tools I have received from the SOCIO-BEE partners.
- I understand the benefits that my participation to this research entails.

## Consent form acceptance

Regarding the *processing of my personal data*, or the *personal data of the minor I represent*, in the project, I declare that:

- I understand that my personal data will be made available only to the SOCIO BEE Consortium and the European Commission, if requested.
- I was informed about the nature, the purposes and the context of the processing.
- I was informed about my rights as a data subject, including my right to lodge a complaint with the relevant supervisory authority.
- I was given the contact details of the project coordinator and the data protection officer and I understand that I can contact them for any relevant questions in relation to the processing of my personal data.
- I understand that no further use of my personal information in the course of the project is foreseen.
- I understand that I am free to withdraw my consent for the processing of my personal data at any time without any negative consequences.
- I understand that I can ask for photographic and video material featuring me to not be further used by the project, by contacting the end user at [add contact details of the person responsible [ZGZ, Maroussi, Ancona]].
- I was informed about the risks arising from the processing and about the safeguards put in place to mitigate them.
- I require my participation remains anonymous and that I will not be identified in any research results.
- I understand that the laws of [Spain, Greece, Italy] shall apply.
- I hereby give my consent for my personal data to be processed by [end user name - ZGZ, Maroussi, Ancona] for the purposes of the project activities.

2. 3.1 Consent (if you do not consent you will not be able to continue with the questionnaire) \*

*Selecciona todos los que correspondan.*

☐ I accept the consent form

## Citizen Science Activists Evaluation Questionnaire

This post evaluation questionnaire is targeted to potential Queen Bees, Worker Bees and Beekeepers. Those more highly engaged in the Citizen Science experiments that are co-created with the expectation to enhance and address Air Quality issues in their communities.

Please notice that whenever there is a range of values the middle value corresponds to a neutral (don't know/don't care) answer.

**Tell us about yourself**

We gently request you to answer the questions below in order to improve the quality of the test

## 3. 4.1 In what role would you use SOCIO-BEE platform? \*

*Marca solo un óvalo.*

- ☐ Worker bee
- ☐ Queen bee
- ☐ Beekeeper

## 4. 4.2 What is your age? \*

*Marca solo un óvalo.*

- ☐ 12-14
- ☐ 14-16
- ☐ 16-18
- ☐ 18-35
- ☐ 35-50
- ☐ 50-65
- ☐ 65-70
- ☐ 70-75
- ☐ over 75

## 5. 4.3 Gender \*

*Marca solo un óvalo.*

- ☐ Female
- ☐ Male
- ☐ I do not want to answer

## 6. 4.4 What is your level education? \*

*Marca solo un óvalo.*

- ☐ Secondary school
- ☐ High school diploma
- ☐ Vocational training
- ☐ Bachelor's degree
- ☐ Master's degree
- ☐ PhD
- ☐ Other

## 7. 4.5 What is your level of knowledge in the use of digital tools? \*

*Marca solo un óvalo.*

- ☐ Zero level (I do not use any digital tool including a smartphone)
- ☐ Basic level (I use WhatsApp, I browse a little through websites, ...)
- ☐ Intermediate level (I browse websites, I watch videos on YouTube, ...)
- ☐ Advanced level (I make purchases electronically, I use spreadsheets, ...)

## 8. 4.6 Could you indicate your work status? \*

*Marca solo un óvalo.*

- ☐ Unemployed
- ☐ Self-employed
- ☐ Employed (private sector)
- ☐ Employed (public sector)
- ☐ Retired
- ☐ Other

## 9. 4.7 Choose your location \*

*Marca solo un óvalo.*

- ☐ Ancona
- ☐ Maroussi
- ☐ Zaragoza

Thanks, now we will proceed with the questionnaire

## 10. 5.1 Before to start though, we kindly ask you to provide your email account \*

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**Acceptance**

The following questions are based on The Technology Acceptance Model ([Davis, 1989](#)).

## 11. 6.1 Using SOCIO-BEE tools as a Citizen Science (CS) activist I have been able to accomplish tasks more quickly \*

*Marca solo un óvalo.*

1 2 3 4 5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

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## 12. 6.2 Using SOCIO-BEE made it easier to understand the effects of Air Quality and take decisions for mitigating air pollution \*

*Marca solo un óvalo.*

1 2 3 4 5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

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13. 6.3 I found SOCIO-BEE useful to understand the effects of Air Quality and take decisions for mitigating air pollution \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

14. 6.4 My interaction with SOCIO-BEE (wearable sensor, AcadeME, Drone, Campaign Blueprint, Toolkit or SOCIO-BEE knowledge portal) has been clear and understandable \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

15. 6.5 I found SOCIO-BEE (wearable sensor, AcadeME, Drone, Campaign Blueprint, Toolkit or SOCIO-BEE knowledge portal) easy to use \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## Interests and attitudes

Some of the following questions are based on an Instrument for Examining Elementary Engineering Student Interests and Attitudes ([Lachapelle & Brennan, 2018](#)).

## 16. 7.1 I am interested or engaged in science \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 17. 7.2 I would like to be involved in new citizen science projects \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 18. 7.3 I have an overall understanding of the scientific process \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 19. 7.4 I really want to learn science \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree



## 20. 7.5 Science is fun \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 21. 7.6 Science is useful in helping to understand the problems of everyday life \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 22. 7.7 It is important for me to understand science \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 23. 7.8 Scientific advances create problems in the world \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 24. 7.9 Scientists help make people's lives better \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 25. 7.10 I would enjoy being a scientist as a career \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 26. 7.11 I would enjoy a job helping to protect the environment \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 27. 7.12 Did you like participating in a citizen science experiment, what did you like the most, and if there was something you didn't like, tell us that too (it helps us to improve)? \*

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**Satisfaction**

28. 8.1 I am satisfied with the features provided by SOCIO-BEE (wearable sensor, AcadeME, Drone, Campaign Blueprint, Toolkit or SOCIO-BEE knowledge portal) to support CS activities \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

29. 8.2 The activity supported by SOCIO-BEE exceeded my expectations \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

### Accessibility

30. 9.1 SOCIO-BEE tools increase the options to realize Citizen Science experiments since are designed and developed so that people can accessibly perceive, understand, navigate, interact and contribute content. \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

31. 9.2 SOCIO-BEE tools can be used without being bound to a certain time (e.g. office hours), a certain place (e.g. possible to use it from home) or a certain technical prerequisite (e.g. a certain browser, operating system). \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## Inclusiveness

32. 10.1 SOCIO-BEE solution to aid Citizen Science is sensitive to inclusiveness aspects, e.g. low digital acquaintance demand, facilitates accessibility or multilingual aspects, among others. \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

33. 10.2 The SOCIO-BEE solution aimed at supporting Citizen Science brings forth opportunities for enhancing digital literacy, fostering respect for diverse societal backgrounds, addressing accessibility needs for individuals with disabilities, providing multilingual support, and accommodating the requirement for Internet connectivity \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## Awareness regarding Air Quality

34. 11.1 SOCIO-BEE platform's visualizations and analysis tools enhance the decision-making process towards fighting against Air pollution \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 35. 11.2 Thanks to SOCIO-BEE I am more aware of air quality issues \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree**Usability**

The following questions are based on System Usability Scale - SUS ([Brooke, 1996](#)).

## 36. 12.1 I think that I would like to use the SOCIO-BEE platform frequently \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 37. 12.2 I found the SOCIO-BEE platform unnecessarily complex \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

## 38. 12.3 I thought the SOCIO-BEE platform was easy to use \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

39. 12.4 I needed the support of a technical person to be able to use the SOCIO-BEE platform \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

40. 12.5 I found the various functions in the SOCIO-BEE platform were well integrated \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

41. 12.6 I thought there was too much inconsistency (e.g., User Interface Discrepancies, Functionality Contradictions, Documentation Discrepancies) in the SOCIO-BEE platform \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

42. 12.7 I imagine that most people would learn fast how to use the platform \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

43. 12.8 I found the SOCIO-BEE platform very cumbersome to use \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

44. 12.9 I felt very confident using the SOCIO-BEE platform \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

45. 12.10 I had to learn a lot of things before I could get going with the SOCIO-BEE platform \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

### Behavioral change

46. 13.1 I am concerned about the levels of air pollution in my city / neighbourhood \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

47. 13.2 I feel that I can take actions to reduce my personal contribution to the problem of air pollution \*

*Marca solo un óvalo.*

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

48. 13.3 Air pollution levels in your city/ neighbourhood. Please indicate how much you think you know about each statement below \*

*Marca solo un óvalo.*

1 2 3 4 5

Notf ☐ ☐ ☐ ☐ ☐ A lot

49. 13.4 Initiatives to tackle air pollution in your city / neighbourhood. Please indicate how much you think you know about each statement below \*

*Marca solo un óvalo.*

1 2 3 4 5

Notf ☐ ☐ ☐ ☐ ☐ A lot

50. 13.5 If possible I rather walk/bike or take public transport than drive a car \*

*Marca solo un óvalo.*

1 2 3 4 5

Nev ☐ ☐ ☐ ☐ ☐ Always



51. 13.6 I talk with others about environmental pollution / climate change \*

*Marca solo un óvalo.*

1 2 3 4 5

Never ☐ ☐ ☐ ☐ ☐ Always

**Thank you very much for your time!**

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