

Questionnaire Citizen Science Payback Framework

To what extent will citizens be involved in the following phases of the project? Please use the scale of 0-3 and enter the appropriate number for each phase in the space provided. If citizens are/were involved as part of a collaboration (2) or as co-creation (3), then citizens should be included when answering the questions for this phase.

0: Citizens does not participate

1: Contribution which means participation to a limited degree e.g. for gathering data and information

2: Collaboration which implies participation to a moderate degree

3: Co-creation that involves citizens as equal partners in all stages of the project.

Number according to
citizen participation

- Stage 0: Topic/Issue identification

- Interface A: Project specification and selection

- Stage 1: Inputs of research

- Stage 2: Research processes

- Stage 3: Primary outputs from research

- Interface B: Dissemination

- Stage 4: Secondary outputs – policymaking and product development

- Stage 5: Adaption by practitioners and public

- Stage 6: Final outcomes

Stage 0: Topic/Issue identification

2. How did the identification of the projects' topic happen?
3. Who initiated the project?
 - What reasons did these actors have for initiating the project?
4. Have the researchers worked with policy makers, practitioners or other potential users of research in any way before the project?

Interface A: Project specification and selection

5. How is the project specified in the project proposal?

Stage 1: Inputs of research

6. How is the project financed?
7. What financial resources are available for the project?
8. What material resources are available for the project?
9. What human resources are available for the project?
10. What experience, knowledge, etc. do the people involved have?

Stage 2: Research processes

11. What methods are used in the project?
 - Which methods are used in general?
 - Did these proved to be adequate?
12. What kind of difficulties are encountered during the project?

Stage 3: Primary outputs from research

Knowledge production

13. What kind of knowledge is produced?
14. Could you tell me about the peer reviewed publications which have derived from this project and where they have been published?
15. Are you aware of any papers that gave a citation to the papers you have published from your research?
 - If yes, please give the reference if possible.
16. Could you tell me about any other publications such as reports to funders, or articles in press?

Benefits for future research and research use

17. Has your research project led to any PhDs or other higher degrees for those working on the project, or is it likely to do so?
18. Has your project contributed to an increase in overall research capacity of your administrative unit?

19. Has this research project had any effect on your research team's capacity to use appropriate existing research from elsewhere?
20. Have the project findings or methodology generated subsequent research by members of the team?
21. Has your research had benefits in attracting further research funding?
22. Have the project findings or methodology generated or influenced subsequent research by other groups?
23. Has this project had any other staff development or educational benefits?

Interface B: Dissemination

24. To whom will the project results be communicated? (scientists, potential users in the political, industrial, professional or civil society sector).
25. Have the results been featured in the media?
26. Have the results been disseminated elsewhere: specific conferences or seminars?
27. What personal factors have influenced the publication and impact of the project?
28. Were any of the dissemination strategies particularly influential in achieving utilisation of the research findings? Why?
29. Please describe any other factors which have affected the impact of your research and any other outcomes not already covered.

Stage 4: Secondary outputs – policymaking and product development

30. What products will result from the project?
31. Are there any other outputs from this project?

Political and administrative benefits

32. Has this project led to improved information by which to influence policy and executive decisions?
 - Can you give examples?
33. Do you know if policy makers have used the results of this research project in any way?
 - If yes, please give details.
34. Do you know if it has led to changes in policy?
35. Do you know if it has led to the development or refinement of any Government programs and initiatives?
36. Has it contributed/led to changes in knowledge, understanding and attitudes by policy makers?
 - Has it been used to support arguments in a persuasive way?
37. Have there been other policy outcomes from this research?

Stage 5: Adaption by practitioners and public

38. To what extent are results or products taken up or applied by practitioners or public?
39. What behavioral changes are induced in which group of people by the project?
40. Has your interface with potential users of the research impacted on how the results of your project have been used?

Stage 6: Final outcomes

Impact on practice

41. Are you aware of any impact that your research has, either directly, or through further research by yourself or others?
42. Has this research led to any cost reduction in the delivery of existing services?
➤ Is there potential for this to happen in future?
43. Has it led (or might it lead) to any improvements in the process of service delivery?
44. Has it increased the quality or effectiveness of services?
45. Has this project led (or might it lead) to any other organisational development?
46. Has the research contributed to better outcomes or improved quality of life for consumers at an individual or population level?
47. Has it led to improved allocation of resources at an area level, better targeting or accessibility?
48. Have there been any other social, cultural or environmental outcomes or benefits from your project that are not mentioned?

Extended economic benefit

49. Has it had an effect (or might it) on equity?
50. Have any revenues been gained from intellectual property rights?
51. Are you aware of any patents, or other commercial products, to which your research has contributed?
➤ If yes, please give details.
52. Is there any possibility of wider economic benefits from commercial exploitation of innovations from this research?
53. Has this research led to economic benefits from a healthy workforce and reduction in working days lost?

References:

Kalucy, E. C., Jackson-Bowers, E., McIntyre, E., & Reed, R. (2009). The feasibility of determining the impact of primary health care research projects using the Payback Framework. *Health Research Policy and Systems*, 7(1), 1-10.