

Creative Thinking in Digital Cities - Application7: Formulate your problem statement

This is a team assignment. Every team member should contribute to this assignment, and only the team members should work on this assignment. Once you submit this form, you will receive a copy of your responses to your email address.

You may use the following resources for this assignment:

- NEET Digital Cities presentation, slides/pages 10-27
- The results of "Application7 optional addendum: Outdoor mapping activity," if you carried out this activity

You are allowed to use additional resources, as long as you report on your use below.

You are allowed to use generative AI, as long as you report on your use below.

Problem Description

In June 2021, the City of Cambridge published Cambridge Bicycle Plan. The leading principle of this plan is to enable people of all ages, abilities, and identities to bike safely and comfortably throughout Cambridge.

* Indicates required question

1. Email *

2. First name and last name of every team member *

3. Who are the stakeholders of the problem? *

Start with the provided problem description above. List 3-5 major stakeholders. Give each group a name that is 3+ words long, and describe it. Indicate one group as the primary stakeholder group, selected based on a balance between the group most affected by the problem and which you believe you are best positioned to help. Each stakeholder group should have some relationship with the primary stakeholder group.

4. What are the effects of the problem on the primary stakeholders? *

List 3-5 clear and direct detrimental major effects of the problem on the primary stakeholders, such as negative effects on the stakeholders' health, wealth, reputation, feelings, and so on. Give each effect a name that is 3+ words long and describe it.

5. Where does the problem occur? *

List 3-5 physical or virtual major locations. Give each location a name that is 3+ words long and describe it.

6. When does the problem occur? *

List 3-5 major times of day, seasons, events, etc. Give each period/time a name that is 3+ words long and describe it.

7. Why does the problem occur? *

List 3-5 clear and direct major causes. A cause should tell a short story of how it leads directly to one or more of the effects under "2. What?". Give each cause a name and describe it as a narrative of cause/s and effect/s leading up to the direct effects described under '2. What?'. One cause may lead to multiple effects, and one effect may be brought on by multiple causes.

8. Problem statement *

Summarize your answers to the five Ws above in 100-200 words. Make sure to include every element/item of the five Ws in your statement.

9. Usefulness criteria *

List 3-5 criteria by which you will compare the ideas you come up with, and justify the selection of each criterion you list. At least one criterion has to be directly related to addressing the problem (its effects as detailed under "2. What"). Usefulness is the same as effectiveness, utility, or value.

10. If you used any additional resources for this assignment, please provide their URLs/references here and describe what item/s you used them for.

11. If you made use of generative AI (like chatGPT) while working on this assignment, please provide details here about what tool/s you used, how you used them, how you found it useful, and what potential shortcomings you found. Add any other information you deem relevant.

12. If there was anything that was not clear in this assignment, please add your comments here.

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