**Background:**

The aim of the questionnaire is to help understand what disaster impacts matter to which stakeholders (and social groups) at specific snapshots in time (e.g., two weeks/six months/two years after the disaster). You are invited to participate in this questionnaire, as the representative of a relevant stakeholder group that will be clarified by the workshop organisers. By participating in this study, you will provide valuable insights on your perception of various disaster impacts; this information is potentially important for informing policy-related decision-making on disaster risk. Summarised findings of the workshop will be provided to you once the questionnaire responses have been processed and analysed. These findings will highlight the collective disaster-impact perspectives of workshop participants.

**Questionnaire Structure:**

This questionnaire consists of three sections. Section A includes questions on basic information related to you and the company/organisation to which you belong. Section B includes questions on your disaster-impact perspectives focusing on beneficiaries of your company/organisation. That is, you will be asked about your company/organisation’s perspectives of the disaster impacts on the beneficiaries of your company/organisation (i.e., people your company/organisation serves). The disaster impacts included in this questionnaire are related to the labels on the Disaster Impact Metrics (DIMs) pyramid shown in Figure 1, which are defined in Annex A (page 50). The DIMs Pyramid conceptualises the realisation of disaster impacts on society and forms the basis of the questionnaire you will complete today. Section C invites you to provide optional further feedback about additional disaster impacts not covered in Section B. Definitions or clarifications for terms marked with a numbered superscript are provided in Annex A.

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Description automatically generated

Figure 1. Disaster impact metrics (DIMs) pyramid.

1. **Background Information**

Please provide us with some background information related to your company/organisation and the people your company/organisation serves. Circle the number that best describes you or your company/organisation.

A1. Which stakeholder group do you represent? (This should be pre-assigned by the workshop organisers.)

|  |  |  |  |
| --- | --- | --- | --- |
| Regulatory bodies | 1 | Industry | 2 |
| Utilities companies | 3 | Professional/Experts | 4 |
| Other public stakeholders | 5 |

A2. Please elaborate, if possible, your position in the company/organisation that you represent:

A3. What does your company/organisation do? (e.g., consulting, building contractor, managing power grid, etc.)

A4. Which area is your company/organisation located?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Urban | 1 | Rural | 2 | Both | 3 |

A5. Which area does your company/organisation serve?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Urban | 1 | Rural | 2 | Both | 3 |

A6. Specify the gender(s) of the leader(s) of your company/organisation (circle all that applies):

|  |  |  |  |
| --- | --- | --- | --- |
| Female | 1 | Male | 2 |
| Prefer not to say | 0 | Other | 99 |

If other, please elaborate if possible:

A7. Specify the predominant gender(s) of staff of your company/organisation (circle all that apply):

|  |  |  |  |
| --- | --- | --- | --- |
| Female | 1 | Male | 2 |
| Prefer not to say | 0 | Other | 99 |

If other, please elaborate if possible:

A8. Specify the predominant gender(s) of people your company/organisation serves (circle all that applies):

|  |  |  |  |
| --- | --- | --- | --- |
| Female | 1 | Male | 2 |
| Prefer not to say | 0 | Other | 99 |

If other, please elaborate if possible:

A9. Specify the age range associated with your company/organisation leader(s) (circle all that applies):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 18-24 years old | 1 | 25-34 years old | 2 | 35-44 years old | 3 |
| 45-54 years old | 4 | 55-64 years old | 5 | Above 65 | 6 |
| Prefer not to say | 0 | Don’t know | 99 |

A10. Specify the predominant age range associated with the staff of your company/organisation (circle all that applies):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 18-24 years old | 1 | 25-34 years old | 2 | 35-44 years old | 3 |
| 45-54 years old | 4 | 55-64 years old | 5 | Above 65 | 6 |
| Prefer not to say | 0 | Don’t know | 99 |

A11. Specify the predominant age of people that your company/organisation serves (circle all that applies):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 18-24 years old | 1 | 25-34 years old | 2 | 35-44 years old | 3 |
| 45-54 years old | 4 | 55-64 years old | 5 | Above 65 | 6 |
| Prefer not to say | 0 | Don’t know | 99 |

A12. How many staff are there in your company/organisation?

|  |  |  |  |
| --- | --- | --- | --- |
| Under 10 | 1 | 10 to 49 | 2 |
| 50 to 249 | 3 | Over 250 | 4 |
| Prefer not to say | 0 | Don’t know | 99 |

A13. Among staff of your company/organisation, how many of them have special needs (e.g., those who have disability; require regular visits to the hospital due to chronic disease; are older adults)? And what percentage of staff do they account for? Please provide estimates.

|  |  |
| --- | --- |
| Number of people with special needs |  |
| Percentage (e.g., 5%) |  |

A14. Among people your company/organisation serves, how many of them have special needs (e.g., those who have disability; require regular visits to the hospital due to chronic disease; are older adults; are under 18)? And what percentage of people served do they account for? Please provide estimates.

|  |  |
| --- | --- |
| Number of people with special needs |  |
| Percentage (e.g., 5%) |  |

A15. If applicable, how much of your revenue (%) is generated from customers in the following categories:

|  |  |  |  |
| --- | --- | --- | --- |
| Customers from nearby neighbourhoods |  | Customers from nearby regions (e.g., city, province) |  |
| Customers from across the country |  | Customers from overseas |  |
| Prefer not to say |  | We are not-for-profit |  |

A16. Does your company/organisation rent or own its premises?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Rent | 1 | Own | 2 | Other | 99 |

If other, please elaborate if possible:

A17. Specify the education qualification level of the leader(s) of your organisation/company (circle all that applies).

|  |  |  |  |
| --- | --- | --- | --- |
| Illiterate | 1 | Literate (but no formal education) | 2 |
| Primary level | 3 | Lower secondary level | 4 |
| Secondary level | 5 | SLC pass/A-level | 6 |
| +2/Intermediate Pass | 7 | Bachelor | 8 |
| Master’s and above | 9 | Other | 99 |
| Don’t know | 0 |

If other, please elaborate if possible:

A18. Specify the predominant highest education qualification of staff in your organisation/company (circle all that applies).

|  |  |  |  |
| --- | --- | --- | --- |
| Illiterate | 1 | Literate (but no formal education) | 2 |
| Primary level | 3 | Lower secondary level | 4 |
| Secondary level | 5 | SLC pass/A-level | 6 |
| +2/Intermediate Pass | 7 | Bachelor | 8 |
| Master’s and above | 9 | Other | 99 |
| Don’t know | 0 |

If other, please elaborate if possible:

**B. Perception of disaster impacts – beneficiaries**

Please indicate how you 1 feel about each disaster impact described below, by writing down the number that best matches your opinion according to Table 1. In questions that have a temporal component, please also specify the longest duration that you could tolerate the corresponding disaster impact for (see Table 2). This section is divided into two parts. Part I contains questions related to disaster impacts on the natural environment (shown on the bottom of the DIMs pyramid in Figure 1). Part II contains questions related to disaster impacts on various social and economic infrastructure (shown on the second layer of the DIMs pyramid in Figure 1), including services and activities critical to human lives.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Not relevant | Unimportant | Somewhat unimportant | Neither important nor unimportant | Somewhat important | Important |
| 0 | 1 | 2 | 3 | 4 | 5 |

Table 1. Different opinions on disaster impacts and the associated importance score.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months | ***[Your input for the longest tolerable duration]*** |
| ***[your input for the importance score]*** | ***[your input for the importance score]*** | ***[your input for the importance score]*** |

Table 2. An example of providing your disaster-impact perspectives and the longest duration for which you can tolerate the associated disaster impact.

***Part I: Natural Environnent***

B1-1. Water bodies 2 in your neighbourhood 3 are contaminated.

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B1-2. Water bodies in your region 4 are contaminated.

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B2-1. Air quality 5 in your neighbourhood is reduced.

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B2-2. Air quality in your region is reduced.

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B3-1. Soil quality 6 in your neighbourhood is reduced.

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B3-2. Soil quality in your region is reduced.

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B4-1. Natural habitats 7 in your neighbourhood are destroyed.

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B4-2. Natural habitats in your region are destroyed.

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B5-1. Green infrastructure 8 in your neighbourhood is damaged.

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B5-2. Green infrastructure in your region is damaged.

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Part II: Social and economic infrastructure***

***Natural Ecosystem Services***

B6-1. Your immediate access to good-quality soil is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B6-2. Access to good-quality soil is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B6-3. Access to good-quality soil is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B7-1. Your immediate access to clean air is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B7-2. Access to clean air is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B7-3. Access to clean air is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B8-1. Your immediate access to green infrastructure is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B8-2. Access to green infrastructure is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B8-3. Access to green infrastructure is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B9-1. Natural water purification is lost in your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B9-2. Natural water purification is lost in your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B10-1. Your immediate access to clean untreated freshwater sources 9 is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B10-2. Access to clean untreated freshwater sources is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B10-3. Access to clean untreated freshwater sources is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B11. If applicable, please state and provide a brief description of any other natural ecosystem services not captured here. Please also indicate how you feel about the importance of these services by writing down the number that best matches your opinion according to Table 1.

|  |  |
| --- | --- |
| Additional disaster impacts | Importance |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

***Mobility services***

B12-1. Your immediate access to train 10 services is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B12-2. Access to train services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B12-3. Access to train services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B13-1. Your immediate access to bus services is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B13-2. Access to bus services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B13-3. Access to bus services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B14-1. Your immediate access to private mobility services 11 is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B14-2. Access to private mobility services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B14-3. Access to private mobility services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B15-1. Your daily commute time to work significantly increases.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B15-2. Daily commute time to work significantly increases across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B15-3. Daily commute time to work significantly increases across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B16. If applicable, please state and provide a brief description of any other mobility services not captured here. Please also indicate how you feel about the importance of these services by writing down the number that best matches your opinion according to Table 1.

|  |  |
| --- | --- |
| Additional disaster impacts | Importance |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

***Utility Services***

B17-1. Your immediate access to water is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B17-2. Access to water is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B17-3. Access to water is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B18-1. Your immediate access to sewage treatment services is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B18-2. Access to sewage treatment services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B18-3. Access to sewage treatment services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B19-1. Your immediate access to electricity is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B19-2. Access to electricity is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B19-3. Access to electricity is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B20-1. Your immediate access to natural gas is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B20-2. Access to natural gas is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B20-3. Access to natural gas is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B21. If applicable, please state and provide a brief description of any other utility services not captured here. Please also indicate how you feel about the importance of these services by writing down the number that best matches your opinion according to Table 1.

|  |  |
| --- | --- |
| Additional disaster impacts | Importance |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

***Telecommunication Services***

B22-1. Your immediate access to telephone networks is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B22-2. Access to telephone networks is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B22-3. Access to telephone networks is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B23-1. Your immediate access to WiFi services is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B23-2. Access to WiFi services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B23-3. Access to WiFi services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B24-1. Your immediate access to cellular services is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B24-2. Access to cellular services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B24-3. Access to cellular services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B25-1. Your immediate access to corporate and academic wide area networks (WANs) is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B25-2. Access to corporate and academic wide area networks (WANs) is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B25-3. Access to corporate and academic wide area networks (WANs) is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B26-1. Your immediate access to broadcast networks 12 is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B26-2. Access to broadcast networks is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B26-3. Access to broadcast networks is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B27. If applicable, please state and provide a brief description of any other telecommunication services not captured here. Please also indicate how you feel about the importance of these services by writing down the number that best matches your opinion according to Table 1.

|  |  |
| --- | --- |
| Additional disaster impacts | Importance |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

***Health Services***

B28-1. Your immediate access to required healthcare 13 is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B28-2. Access to required healthcare is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B28-3. Access to required healthcare is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B29-1. Your immediate access to remote medical consultation 14 is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B29-2. Access to remote medical consultation is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B29-3. Access to remote medical consultation is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B30-1. Your mental well-being is affected.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B30-2. The mental well-being of people across your neighbourhood is affected.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B30-3. The mental well-being of people across your region is affected.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B31. Acute severe injuries occur 15.

|  |  |  |
| --- | --- | --- |
| You | Your neighbourhood | Your region |
|  |  |  |

B32. Fatalities occur 15.

|  |  |  |
| --- | --- | --- |
| You | Your neighbourhood | Your region |
|  |  |  |

B33. Chronic diseases develop 16.

|  |  |  |
| --- | --- | --- |
| You | Your neighbourhood | Your region |
|  |  |  |

B34-1. You are infected with communicable diseases 17.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B34-2. Your neighbourhood is infected with communicable diseases.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B34-3. Your region is infected with communicable diseases.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B35. If applicable, please state and provide a brief description of any other health services not captured here. Please also indicate how you feel about the importance of these services by writing down the number that best matches your opinion according to Table 1.

|  |  |
| --- | --- |
| Additional disaster impacts | Importance |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

***Social Connection***

B36-1. Your immediate access to community assets 18 is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B36-2. Access to community assets is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B36-3. Access to community assets is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B37-1. You are temporarily displaced 19.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B37-2. Temporary displacement occurs across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B37-3. Temporary displacement occurs across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B38. Permanent displacement occurs.

|  |  |  |
| --- | --- | --- |
| You | Your neighbourhood | Your region |
|  |  |  |

B39. Voluntary relocation 20 occurs.

|  |  |  |
| --- | --- | --- |
| You | Your neighbourhood | Your region |
|  |  |  |

B40. Connection with family members and friends is permanently lost 21.

|  |  |  |
| --- | --- | --- |
| You | Your neighbourhood | Your region |
|  |  |  |

B41-1. You temporarily lose connection with family members and friends 22.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B41-2. There is a temporary loss of connection with family members and friends across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B41-3. There is a temporary loss of connection with family members and friends across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B42. If applicable, please state and provide a brief description of any other community assets not captured here. Please also indicate how you feel about the importance of them by writing down the number that best matches your opinion according to Table 1.

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| --- | --- |
| Additional disaster impacts | Importance |
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B43. If applicable, please state and provide a brief description of any other social connections not captured here. Please also indicate how you feel about the importance of these connections by writing down the number that best matches your opinion according to Table 1.

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| Additional disaster impacts | Importance |
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***Sheltering***

B44-1. You become homeless 23.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B44-2. Homelessness affects your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B44-3. Homelessness affects your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B45-1. You are forced into temporary housing 24.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B45-2. Forced temporary re-housing occurs in your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B45-3. Forced temporary re-housing occurs in your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B46-1. You continue to live in uninhabitable conditions.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B46-2. Households in your neighbourhood continue to live in uninhabitable conditions.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B46-3. Households in your region continue to live in uninhabitable conditions.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B47. If applicable, please state and provide a brief description of any other sheltering not captured here. Please also indicate how you feel about the importance of them by writing down the number that best matches your opinion according to Table 1.

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| Additional disaster impacts | Importance |
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***Education Services***

B48-1. Your immediate access to in-person primary and secondary education services is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B48-2. Access to in-person primary and secondary education services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B48-3. Access to in-person primary and secondary education services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B49-1. Your immediate access to online primary and secondary education services is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B49-2. Access to online primary and secondary education services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B49-3. Access to online primary and secondary education services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B50-1. Your immediate access to in-person higher education services is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B50-2. Access to in-person higher education services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B50-3. Access to in-person higher education services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B51-1. Your immediate access to online higher education services is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B51-2. Access to online higher education services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B51-3. Access to online higher education services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B52. If applicable, please state and provide a brief description of any other education services not captured here. Please also indicate how you feel about the importance of these services by writing down the number that best matches your opinion according to Table 1.

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| --- | --- |
| Additional disaster impacts | Importance |
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***Religious Services***

B53-1. Your immediate access to places of worship 25 is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B53-2. Access to places of worship is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B53-3. Access to places of worship is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B54-1. Your immediate access to remote worship services is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B54-2. Access to remote worship services is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B54-3. Access to remote worship services is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B55. If applicable, please state and provide a brief description of any other religious services not captured here. Please also indicate how you feel about the importance of these services by writing down the number that best matches your opinion according to Table 1.

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| --- | --- |
| Additional disaster impacts | Importance |
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***Food Services***

B56-1. Your immediate access to food is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B56-2. Access to food is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B56-3. Access to food is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B57-1. Your immediate access to drinking water is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B57-2. Access to drinking water is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B57-3. Access to drinking water is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B58-1. You are exposed to food contamination.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B58-2. food contamination exposure occurs in your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B58-3. Food contamination exposure occurs in your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B59. If applicable, please state and provide a brief description of any other food services not captured here. Please also indicate how you feel about the importance of these services by writing down the number that best matches your opinion according to Table 1.

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| --- | --- |
| Additional disaster impacts | Importance |
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***Employment Services***

B60-1. You become unemployed 26.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
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B60-2. Unemployment occurs in your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B60-3. Unemployment occurs in your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B61. If applicable, please state and provide a brief description of any other employment services not captured here. Please also indicate how you feel about the importance of these services by writing down the number that best matches your opinion according to Table 1.

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| --- | --- |
| Additional disaster impacts | Importance |
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***Economic Activities***

B62. Damage to buildings leads to direct 27 economic loss for building owners.

|  |  |  |
| --- | --- | --- |
| You (this option is only relevant if you are the building owner) | Your neighbourhood | Your region |
|  |  |  |

B63. Damage to transportation networks leads to direct economic loss for operators.

|  |  |  |
| --- | --- | --- |
| You (this option is only relevant if you are the operator) | Your neighbourhood | Your region |
|  |  |  |

B64. Damage to utility networks leads to direct economic loss for operators.

|  |  |  |
| --- | --- | --- |
| You (this option is only relevant if you are the operator) | Your neighbourhood | Your region |
|  |  |  |

B65. Damage to telecommunication networks leads to direct economic loss for operators.

|  |  |  |
| --- | --- | --- |
| You (this option is only relevant if you are the operator) | Your neighbourhood | Your region |
|  |  |  |

B66. Damage to the natural environment leads to direct economic loss for relevant stakeholders.

|  |  |  |
| --- | --- | --- |
| You (this option is only relevant if you are the operator) | Your neighbourhood | Your region |
|  |  |  |

B67-1. Your closure leads to indirect 28 economic loss.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B67-2. Closure of companies/organisations in your neighbourhood leads to indirect economic loss.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B67-3. Closure of companies/organisations in your region leads to indirect economic loss.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B68-1. Impact on tourism activities in your neighbourhood leads to indirect economic loss.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B68-2. Impact on tourism activities in your region leads to indirect economic loss.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B69. Damage to the natural environment leads to indirect economic loss.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B70. If applicable, please state and provide a brief description of any other economic activities not captured here. Please also indicate how you feel about the importance of these activities by writing down the number that best matches your opinion according to Table 1.

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| --- | --- |
| Additional disaster impacts | Importance |
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***Recreational Activities***

B71-1. Your immediate access to recreational facilities 29 is lost.

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| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B71-2. Access to recreational facilities is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B71-3. Access to recreational facilities is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B72-1. Your immediate access to natural or semi-natural areas 30 is lost.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B72-2. Access to natural or semi-natural areas is lost across your neighbourhood.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B72-3. Access to natural or semi-natural areas is lost across your region.

|  |  |  |
| --- | --- | --- |
| For two weeks | For six months |  |
|  |  |  |

B73. If applicable, please state and provide a brief description of any other recreational activities not captured here. Please also indicate how you feel about the importance of these activities by writing down the number that best matches your opinion according to Table 1.

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| --- | --- |
| Additional disaster impacts | Importance |
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1. **What disaster impacts have we missed and how important are they?**

Please write down any other disaster impacts (including but not limited to those related to the DIMs pyramid shown in Figure 1) that you have experienced in previous disasters or may experience in future ones. Please also indicate how you feel about the importance of these disaster impacts, by specifying the number that best matches your opinion (see Table 1).

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| --- | --- |
| Additional disaster impacts | Importance |
| E.g., businesses in your neighbourhood are temporarily relocated for six months. | 4 |
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**Annex A**

**(a) Definitions or clarifications related to numbered superscripts**

1. 'You’ is used throughout section B to refer to the beneficiaries of your company/organisation, as appropriate.

2. Water bodies include lakes, streams, rivers, seas, etc.

3. ‘Your neighbourhood’ is used throughout section B to refer to the neighbourhood in which your beneficiaries live. A neighbourhood is defined as a geographically localised community within a larger city, town, suburb or rural area.

4. ‘Your region’ is used throughout section B to refer to the region in which your beneficiaries live.

5. Air quality can be reduced for a variety of reasons, including volcanic eruption, climate change, etc. See D. Jacob and D. Winner (2009) for details on the effects of climate change on air quality. <https://www.sciencedirect.com/science/article/abs/pii/S1352231008008571>

6. Soil quality refers to “the capacity of a soil to function within ecosystem and land-use boundaries to sustain biological productivity, maintain environmental quality, and promote plant and animal (as well as human) health” (Doran and Parkin, 1994, Doran and Parkin, 1996). Soil quality can be reduced for a variety of reasons, including volcanic eruption, flood, and climate change.

7. Natural habitats provide spaces for wildlife critical to biodiversity.

8. Green infrastructure includes large open natural spaces, riparian areas, wetlands or greening steep hillsides. It can provide flood protection, promote biodiversity, and/or serve as a green space.

9. Clean untreated freshwater sources include streams, lakes, rivers, etc., as opposed to treated water supplies provided by utility companies.

10. Train services include metro, railway, tram, etc.

11. Private mobility services include private car, motorbike, scooter, bike, etc.

12. Broadcast networks include TV, radio, etc.

13. Healthcare can be offered via healthcare facilities such as clinics and hospitals. Required healthcare includes the necessary availability of doctor visits, medical supplies, required operations, ambulance services, etc.

14. Access to remote medical consultation could be lost due to a lack of telecommunication services, for example.

15. Acute severe injuries and fatalities could occur because of the collapse of buildings, bridges, etc.

16. Chronic diseases could develop due to some longer-term disaster impacts, e.g., air pollution or poor water quality.

17. Communicable diseases could spread within and/or across communities following disasters due to lack of clean water, functioning latrines, healthcare, etc.

18. Community assets provide critical services and spaces for people to bond and maintain their social ties. Examples include grocery stores, hospitals, schools, and green spaces.

19. Displacement occurs due to a lack of housing, water, electricity, etc. In this document, displacement refers to the forced vacating of pre-disaster homes, on either a temporary or permanent basis.

20. Voluntary relocation occurs when an individual decision is made to seek better housing conditions, employment opportunities, etc.

21. Permanent loss of connection with family and friends could occur due to relocation, permanent displacement, casualties, etc.

22. Temporary loss of connection with family and friends could occur due to temporary displacement, etc.

23. Homelessness can occur when homes are destroyed, and households end up in public shelters.

24. Temporary housing can include rental homes, hotels, family and friends’ housing, mobile units such as boats, etc.

25. Places of worship include churches, mosques, prayer rooms, etc.

26. People can become unemployed due to business interruption or closure.

27. Direct economic loss refers to the monetary value of total or partial destruction of physical assets.

28. Indirect economic loss refers to a decline in economic value added because of direct economic loss and/or human and environmental impacts. Examples include revenue declines from business interruption and relocation, interruptions to supply chains or temporary unemployment, impacts on natural assets, increases in government debt, etc. See the definition of direct and indirect economic losses provided by the Sendai Framework On Disaster Risk Reduction: <https://www.undrr.org/terminology/economic-loss#:~:text=Direct%20economic%20loss%20is%20nearly,or%20human%20and%20environmental%20impacts>.

29. Recreational facilities include gyms, museums, stadiums, parks, etc.

30. Natural and semi-natural areas concurrently serve as recreational areas (e.g., camping sites).

**(b) Definitions of labels within the DIMs pyramid**

**Transportation:**

Transportation refers to the various networks and/or associated infrastructure (e.g., roads, tunnels, bridges, airports, railways, etc.) by which the movement of persons and goods from place to place is accomplished.

**Utilities:**

Utilities refers to the infrastructure networks supporting public services related to electricity, water, gas, sewage, etc.

**Buildings:**

Buildings include all types of structural assets, e.g., residential, commercial, mix-use, etc.

**Telecommunication:**

Telecommunication refers to communication over a distance by cable, telegraph, telephone, or broadcasting.

**Natural Environment:**

Natural environment includes natural resources, natural habitats, natural ecosystems that exist within nature as well as green infrastructure. For example, rivers, beaches, mountains, forests, and air.

**Natural Ecosystem Services:**

Natural ecosystem services are the conditions and processes through which the natural environment (ecosystems, and the species that comprise them) sustain and fulfil human life. Natural ecosystem services regulate and support the functioning of built environments. These services include, for example, provision of clean air, flood management, water purification, provision of natural habitats (for wildlife).

**Mobility Services:**

Mobility services refer to those supported by transportation networks, and transport passengers from place to place via one or more transport modes, e.g., private car, car sharing and rental, underground, rail, bus, bike, motorbikes, taxi, etc.

**Utility Services:**

Utility services refer to those supported by utility networks. For example, the provision of water and wastewater services, electricity, natural gas, etc.

**Telecommunication Services:**

Telecommunication services refer to those supported by telecommunication networks. For example, the provision of a landline service, cellular services, broadcast services, and internet services.

**Food Services:**

Food services refer to the provision of nutritious substances that people eat or drink to maintain life and growth (including drinking water).

**Economic Activities:**

Economic activities refer to processes that lead to the manufacture of goods or the provision of services. Disaster impacts on economic activities can lead to direct economic loss to business owners (as well as relevant employees) and wider indirect economic loss.

**Health Services:**

Health services refer to the provision of medical care via hospitals, clinics, remote consultation, etc.

**Education Services:**

Education services refer to the provision of systematic instruction, especially at a school or university (in-person and online).

**Employment Services:**

Employment services refer to the provision of jobs and stable sources of livelihood.

**Religious Services:**

Religious services refer to the act of public worship following prescribed rules.

**Social Connection:**

Social connection refers to the inherent social fabric of communities bonded via community assets and social ties (e.g., family, neighbours, friends, co-workers).

**Sheltering:**

Sheltering refers to the provision of housing on different timescales, including permanent homes, temporary housing, and public shelters.

**Recreational Activities:**

Recreational activities refer to those that people choose to do to refresh their bodies and minds and make their leisure time more interesting and enjoyable. Examples of recreational activities are hiking, swimming, camping, meditation, reading, playing games and dancing.