**Volcanic Hazard Mapping Survey**

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There are many different types of maps and each person has their own preferences on what information they want displayed. We would like to know what information is important to you and how you would use it. The survey will take between 5­10 minutes to complete. The findings will not directly influence the hazard maps in your local area, but will go towards a general study on hazard map preferences globally. If you are not sure what hazard maps are and want to know more about my project watch my video. Full transcript of the video is provided. If you need any more information please contact:

Disclaimer: By completing this questionnaire I understand that: my responses will be kept anonymous; I can withdraw my consent and terminate the survey at any time; data will be stored securely on a password protected computer for a period of 3 years, after which they will be deleted; I am comfortable with my answers being used for a PhD thesis; I can request the findings of these results from the researcher.

**1. Which hazard map user best describes you?**

General population

Emergency responder (fire, police, doctor, red cross)

Local authority official

National government official

Scientist or researcher

Media

Other:

**2. Do you live in a volcanically active area?**

Yes

No *Skip to question 10.*

Not sure *Skip to question 10.*

**3. What are the names of the volcanoes in your area?**

**4. On average, how far away are you from these volcanoes?**

0­-20 km

20­-50 km

50-­100 km

Greater than 100 km

Not sure

**5. How important is it to you to have hazard areas indicated on maps of your area?**

1 2 3 4 5

Not at all important Very important

**6. Which of the following are you most likely to do if you were given a new hazard map for your area?**

Examine it right away and make an emergency plan

Examine right away, but not make any plans just yet

Keep the details and plan when necessary

Forget about it and not use it.

Other:

**7. Have you seen volcanic hazard maps for your area?**

Yes - Skip to question 8.

No - Skip to question 10.

Not sure - Skip to question 10.

I don't what a hazard map is. - Skip to question 10.

**8. Did the hazard map(s) have everything you wanted on them?**

Yes

No

Not sure

**9. If no, what could have made them better?**

**10. What information are you mostly interested in obtaining from a hazard map?**

Click the three that are most important to you.

Information on the type of hazard

Information on the timing of a hazard

Information on the probability of a hazard reaching your area

Information on the area of the hazard

Information on what to do in case of an emergency

Information on safe places and evacuation centres

Information on the impact of a hazard

Other:

**11. Which format would you prefer for viewing hazard maps?**

Printed maps

Online or digital maps (PC, Mobile or Tablet)

Other:

**12. What would be your preferred scale for a hazard map?**

A. Small Scale

B. Medium Scale

C. Large Scale

D. All of the above

Other:

**13. Which colours do you think best represent different levels of hazard on a hazard map?**

1. Red ­ Yellow

2. Red shades

3. Red ­ Green

4. Red ­ Blue

5. Black ­ White

I cannot see any differences

Other:

**14. How many hazard areas would you prefer to see on a hazard map?**

1

2

3

5

Not sure

Other:

The questions in this section are about your preferences for maps and hazard information, and are based on an imaginary volcano and location. Mt. Volcano hasn't erupted for 500 years. Imagine you lived in Zone A, which is one region of a larger city. This map has been posted online by your local authority.

**15. Looking at Map 1: Which hazard level is the majority of Zone A within?**

High hazard

Medium hazard

Low hazard

All zones

None

Not sure

**16. Looking at Map 1: What would you expect the hazard level to be within zone B?**

High

Medium

Low

None

Not sure

Other:

Here is another map produced by the local authority showing the same area.

**17. Using Map 2: Which of the following hazards could affect Zone A?**

Pyroclastic flows

Tephra fall

Lahars

None

Not sure

**18. Using Map 2: Would you expect tephra fall or ash to reach Zone C if there was an eruption?**

Yes

No

Maybe

Not sure

**19. Which map do you prefer?**

Hazard Map 1

Hazard Map 2

No preference

**20. If you have a preference, why do you prefer this map?**

Clear and easier to read

The colours are better

All the hazards are listed

All the hazards are combined into areas

Other:

**21. What additional information would you have liked to have seen on these maps?**

**22. If you lived in Zone B, do you think your map preferences would change, compared to living in Zone A?**

Yes

No

Not sure

Other:

Imagine if the volcano began showing signs of activity and for a few years experienced small earthquakes or tremors, but did not erupt.

**23. How important would the hazards maps from the previous question be to you now?**

1 2 3 4 5 Less Important More Important

**24. What extra information would you like to be told at this stage?**

**25. Which hazard map design appeals to you most?**

1

2

3

4

5

All of the above

None of the above

**26. Why does this appeal to you?**

**27. How important are seeing these standard map elements to you?**

Not important

Slightly important

Important

Fairly Important

Very important

No Preference

Levels of hazard

Types of hazard

Probabilities of hazard happening

Timings of a hazard

Potential scenarios

Evacuation areas

**28. How important are seeing these extra map elements to you?**

Not important

Slightly important

Important

Fairly Important

Very important

No Preference

Information on what to do

The accuracy of the hazard information

Explanation of the hazard information

Description of how the map was made

**29. Which background map items would you most prefer to see on a hazard map?**

My Location

Public transport hubs (railway and bus stations)

Roads and railways

Hospitals

Police stations

Evacuation centres

Evacuation routes

Other:

**30. Which background maps would you most prefer to see on a hazard map?**

Aerial images (google earth)

Topography (land levels)

Administrative boundaries

Other:

**31. Age**

18 or under

19­25

26­31

32­40

41­50

51­60

61 or older

Prefer not to say

**32. Country of residence**

*List of countries*

**33. How often do you use maps in your day to day life?**

Everyday

Once or twice per week

Once or twice per month

Once or twice per year

Not at all