

## Summary

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### **A study on the development of multi-hazard educational support tools for learning about disaster risk as a personal matter**

A recent trend in disaster preparedness is to emphasize the importance of viewing disaster risk and disaster reduction as a personal matter. Tools such as "DIG (Disaster Imagination Game)" and "Escape Map" have been used in disaster risk education to teach personal disaster risk and disaster reduction, but they often only focus on evacuation and disaster risk reduction for single disaster events. However, disaster risks are multi-layered for each community and each individual, and it is necessary for future disaster reduction education to understand disaster characteristics from a multi-hazard perspective.

In this study, I systemized disaster reduction education since the Great Hanshin-Awaji Earthquake, and developed the "MY GENSAI MAP program" as a tool to support disaster reduction education. I verified the effectiveness of the program using a participant survey, which empirically demonstrated that the program had the following three effects: 1) participants could learn about personal disaster risk, 2) they could view hazards in the community from multiple perspectives, and 3) they could communicate what they learned to their families using the maps that they created. Furthermore, I devised an original analytical method that focused on the learning process in active learning. By applying this method to the program, I clarified the structure of the program and its ability to promote personal learning even in an online environment.

I developed the "MY GENSAI MAP program" as an educational support tool that enables people to learn about personal disaster from a multi-hazard perspective, even in an online environment. By devising and applying an original analytical method focused on active learning, I clarified the structure of the program's features. In order to further disseminate the program, we need to collaborate with fields other than disaster reduction, and improve the tool to make it easier to use in education settings.