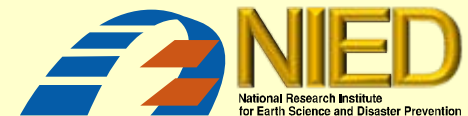


Development of Participatory Risk Communication Method using Disaster Risk Scenarios

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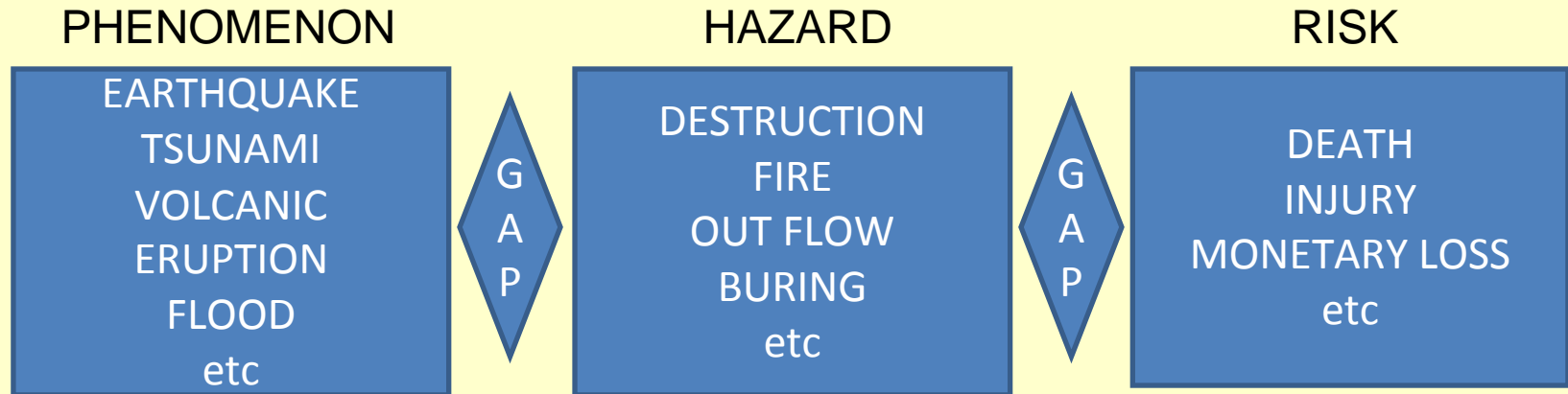


Introduction

In **2008**, the National Research Institute for Earth Science and Disaster Prevention (**NIED**) embarked on a mission to develop methods that will enable residents to improve the disaster prevention capabilities of their regions by means of their own efforts, so that each region can respond autonomously in case of a major disaster.

We will describe a mechanism devised as part of that mission in which **disaster risk scenarios** are used to cooperatively study a region's disaster risks, understand those risks, and enable local residents to devise effective solutions by means of their own efforts.

Why disaster risks are not well understood



Scientific risk information fails to adequately describe the kinds of things that would happen in connection with a disaster. The damage estimates include numerical forecasts such as the number of fatalities and injuries, number of buildings destroyed, and number of fires.

Disasters have a tendency to change, evolve, and expand over time. Based on follow-up surveys regarding the post-disaster lives of victims of the Kobe Earthquake, as well as the recovery process of the affected region, it is clear that the recovery has not simply restored everything to the same way it was before.

Scenario-based evacuation shelter operation workshops

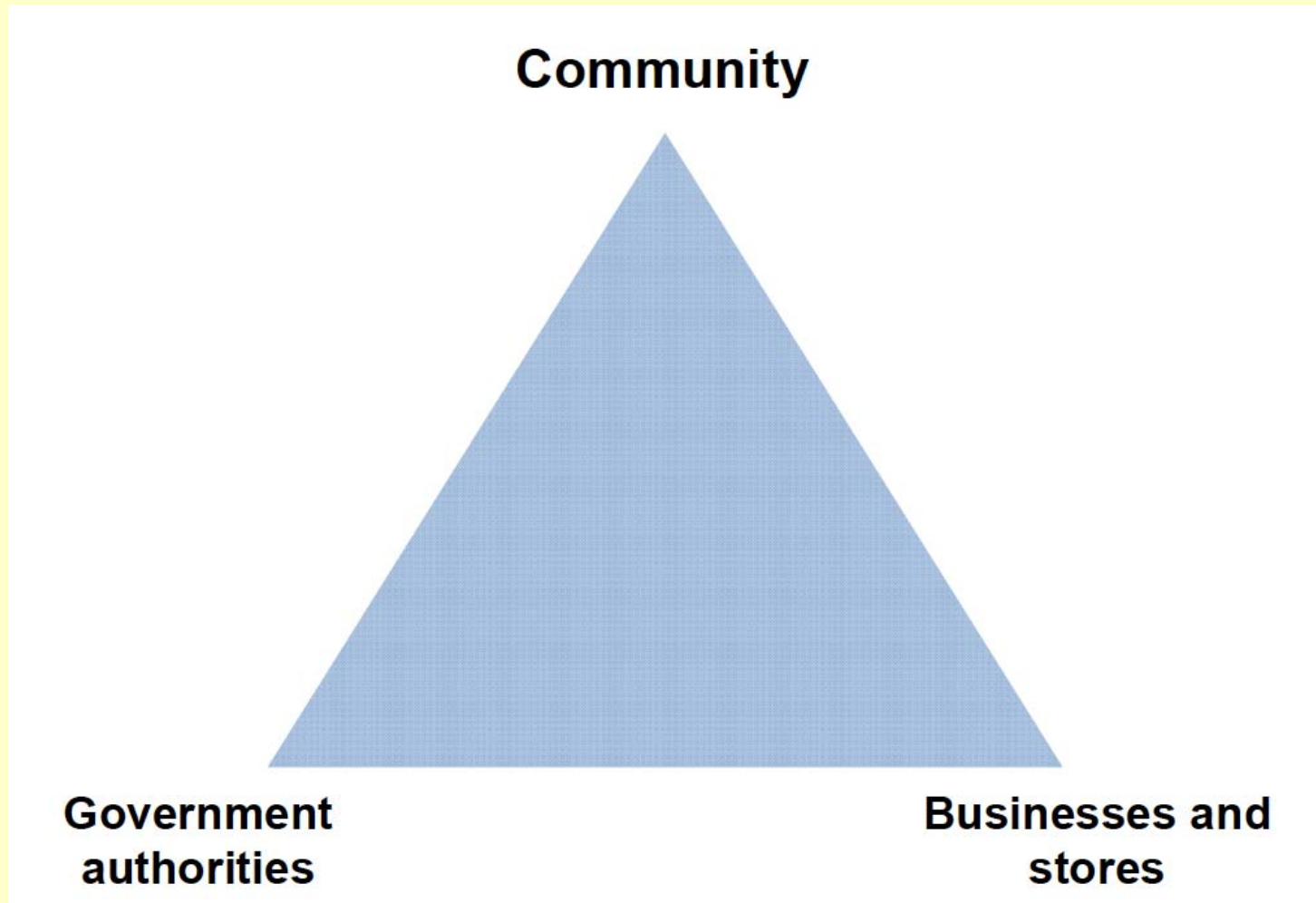
Disaster risk scenario : Chronological descriptions of the emergence of various risks related to a disaster.



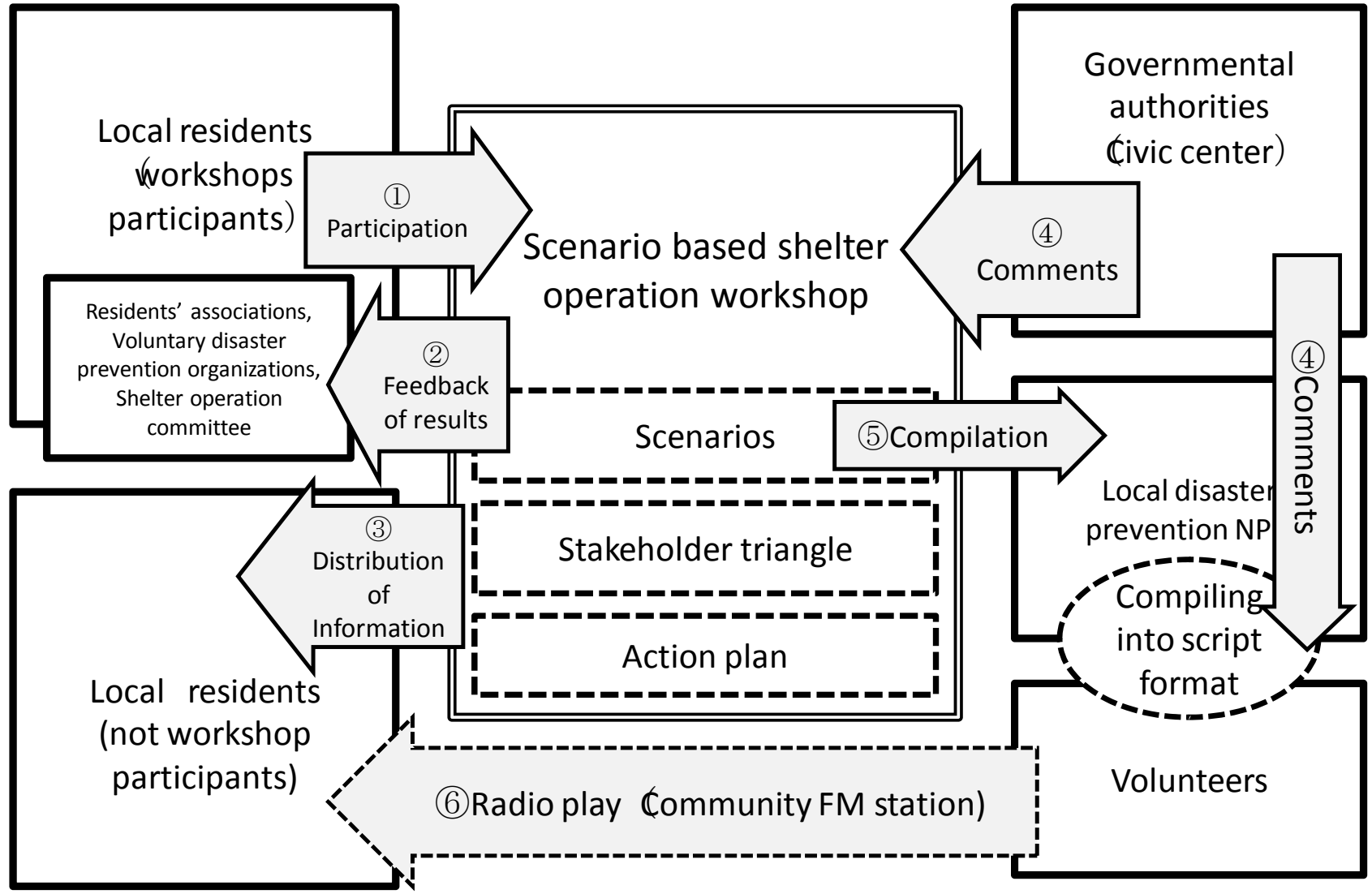
Three advantages of scenario based approach.

- a. As the participants take on fictitious identities, they are able to speak their minds with less reserve than they might feel if they were speaking from their own positions in the real world.
- b. Since the roles are changed for different scenes, each participant has the opportunity to consider the issues from various perspectives, resulting in a broader point of view.
- c. Records of the scenarios are kept, so participants can re-read them later to deepen their own understanding. In addition, the scenarios can be read by many local residents who did not participate in the workshop, so that the community can develop a shared awareness of disaster risks.

Scenarios and risk governance



Overall picture of "risk-scenario based workshop" in the framework of local risk governance



Radio Drama (Play) Recording

