

World Student Environmental Network 2018
Disaster Measures G

Disaster Measures

Disaster : Measures and Resilience

LINEUP

1. The purpose and concept of committee
2. Background
3. Determining theme for committee
4. Guidelines of committee
 1. Setting sub-theme of debate
 2. Committee schedule

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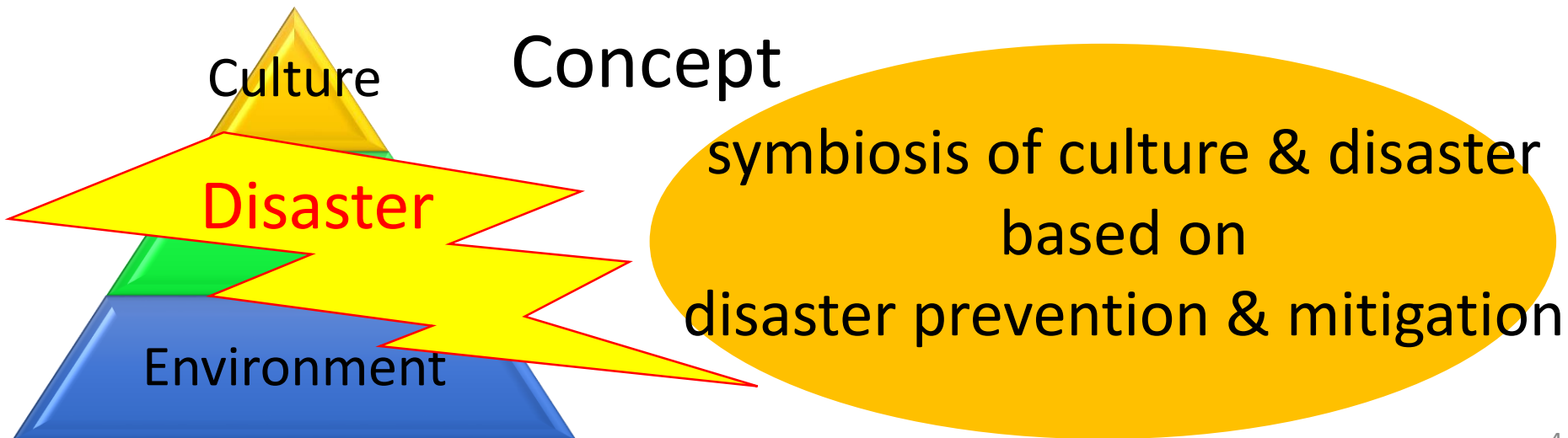
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The purpose and concept of committee

Committee “ Disaster Measures and Resilience”

Concept: symbiosis of culture & disaster based on disaster prevention & mitigation

Japan is one of the world's natural disasters-prone country including the earthquake, and has been "symbiotic" in the disaster and the culture such as the life of each person. In the world, there are countries without earthquakes, countries with unique natural disasters, and so on. Your own culture includes responding to such disasters and they're in "symbiotic" relations. In this committee, we consider the natural disasters that can never be avoided as "something sure to happen". Then, we will think about the way to protect the culture of each country from natural disaster and to develop a "symbiotic" relationship between culture and disaster, based on the idea of disaster prevention and mitigation, with presentations and discussions.



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Earthquake size and its damage

2011.3.11 Great East Japan Earthquake



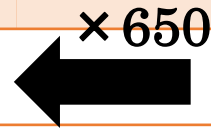
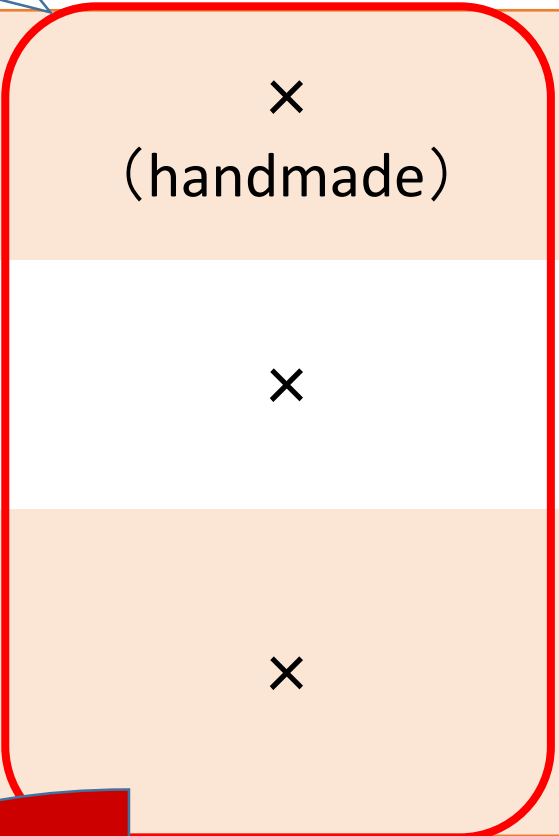
Mw	seismic intensity	death toll
9.0	IX(?)	16,000

Comparison of earthquake disaster in each country 《Haiti vs Chile》

Mw7
Seismic intensity VII

Mw8.8
Seismic intensity VII

	Haiti earthquake	Chile earthquake
Building standards (Prepare for the building)	× (handmade)	Earthquake-proof design obligation
Disaster education (Citizen's preparation)	×	Habitual practice
Disaster prevention system (Prepare for the administration)	×	Disaster response Success in discovery & rescue
Death toll	310,000 ~ 320,000	485



Death toll determining factor①

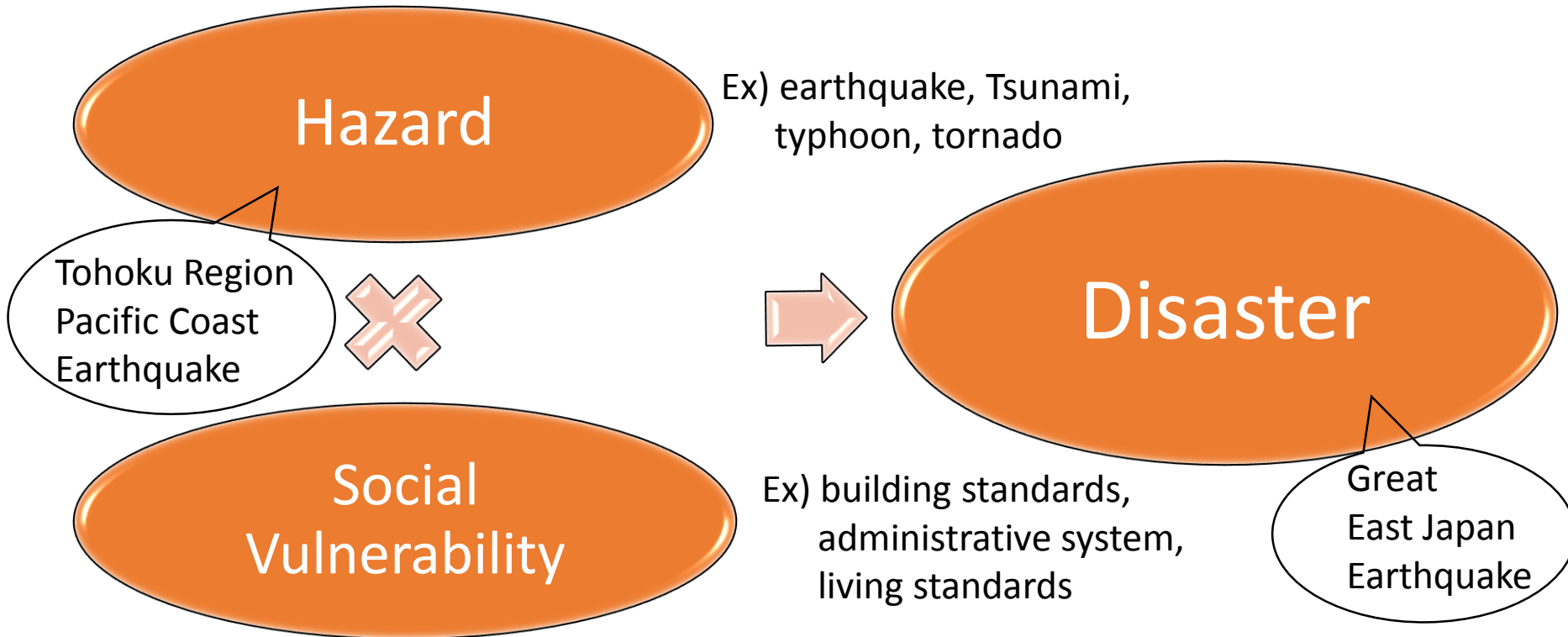
Social Vulnerability

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What is the disaster

➤ Hazard & Social Vulnerability



Hazards hit the social vulnerable factor ⇒ Disaster occurs

What is the disaster

Main perspective of committee

Disaster damage is “social product”



We can reduce the damage
by working on society!

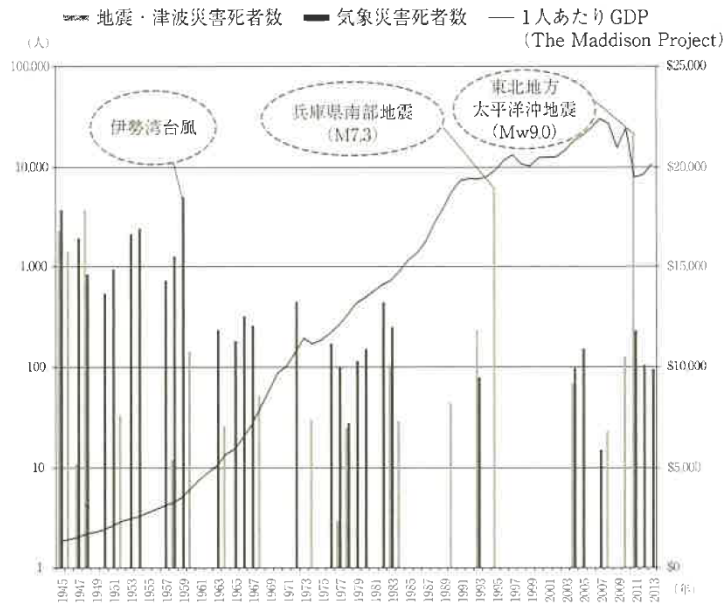
Disaster
prevention

Disaster
mitigation

The idea of “disaster prevention”

Since Japan’s period of high-growth economy

➤ Disaster prevention = the direct target is hazard



Tsunami, storm surge → breakwater
flood → levee, flood control basin

☞ Structural mitigation

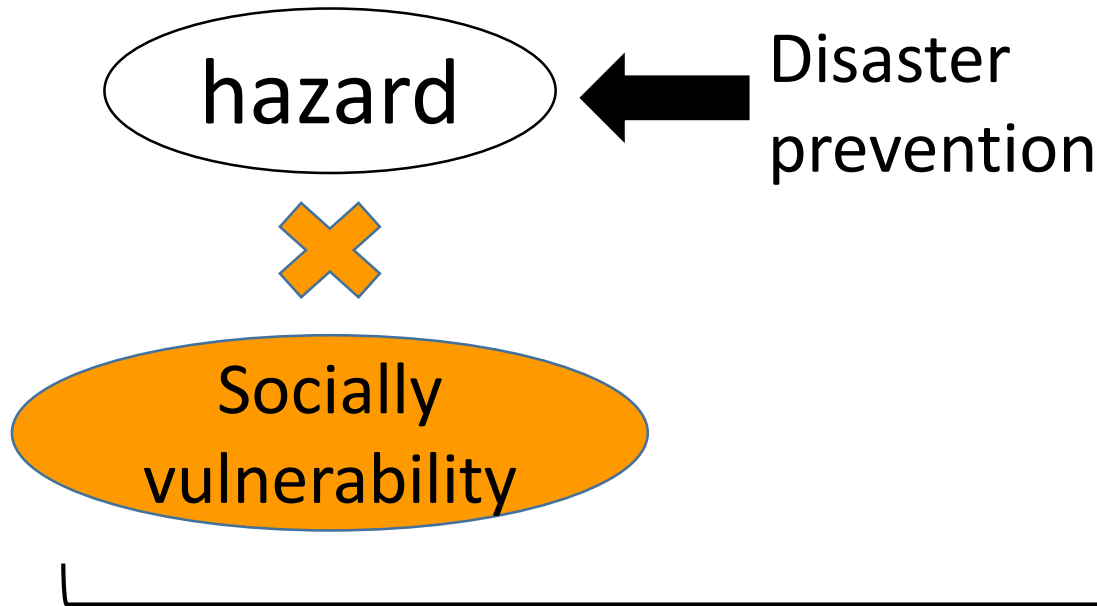
(注) 1. 1人あたりGDPは、1990年国際ドル基準。
2. 兵庫県南部地震は気象庁マグニチュード、東北地方太平洋沖地震はモーメントマグニチュード。
(出典) 国立天文台『理科年表』平成26年版(2014)、The Maddison-Project 2013 version。

図1-8 戦後日本における主な自然災害死者と1人あたりGDPの推移

☞ Attenuate energy of hazards

Limitations of “disaster prevention”

Disaster prevention = “Attenuating energy of hazard”



The Great Hanshin-Awaji Earthquake

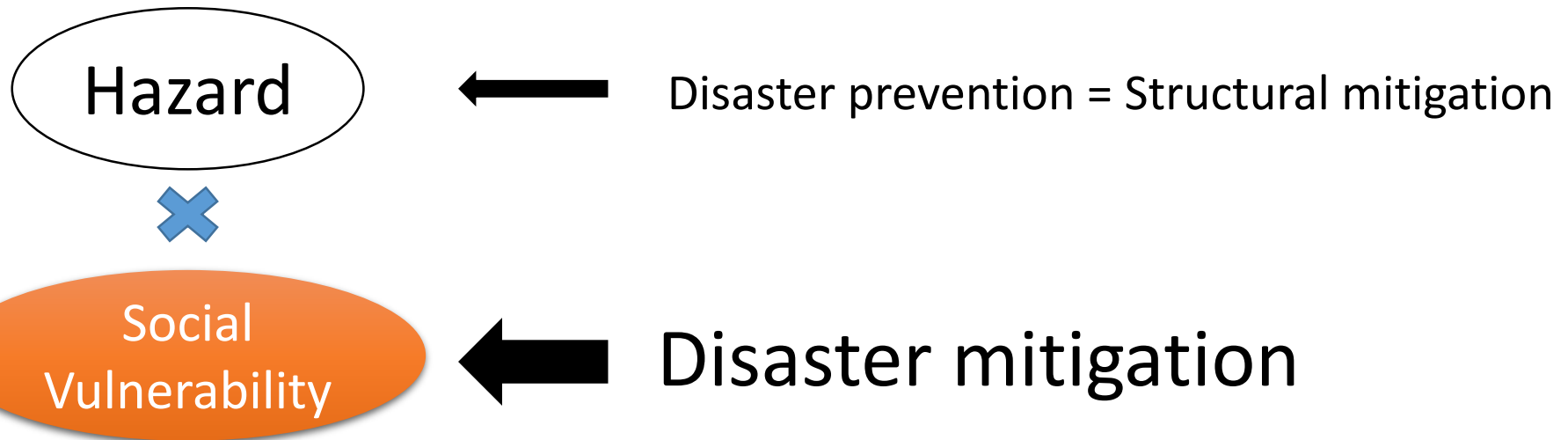
It is helpless to unexpected hazards

Ex) Christchurch earthquake

The idea of “disaster mitigation”

After the Great Hanshin-Awaji Earthquake

➤ Disaster mitigation = Shrinking the society’s vulnerability

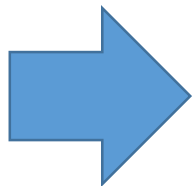
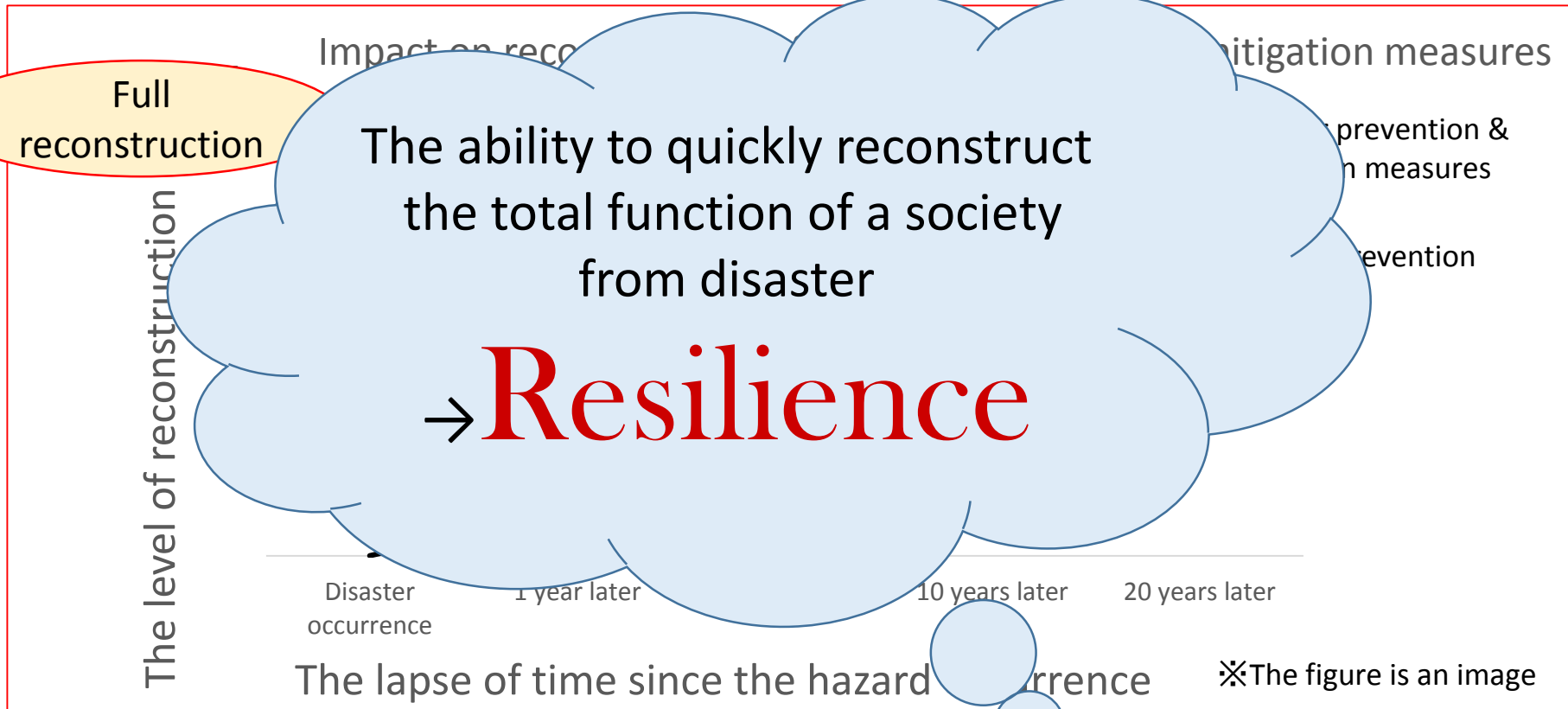


The theme of our committee

Through social process, we can mitigate and reduce the damage!

Resilience against disaster

Think about social process to reduce and control the disaster damage



Improving it can quickly reconstruct the total function of society from disaster!

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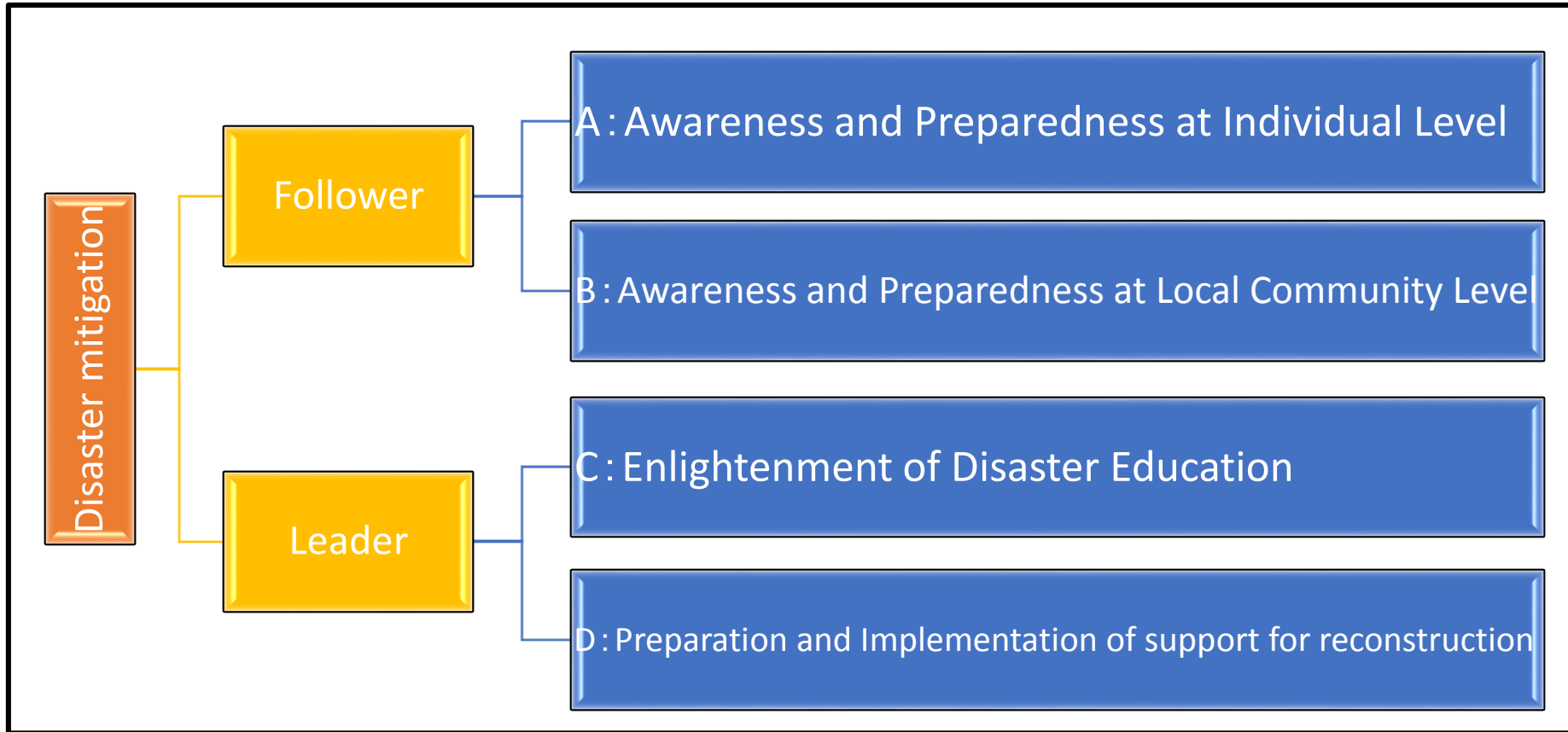
Perspective and sub-theme of committee

➤ Thinking about “Social Vulnerability” . . .



Perspective and sub-theme of committee

➤ Thinking about “Social Vulnerability” . . .



Sub-theme of committee: **Follower**

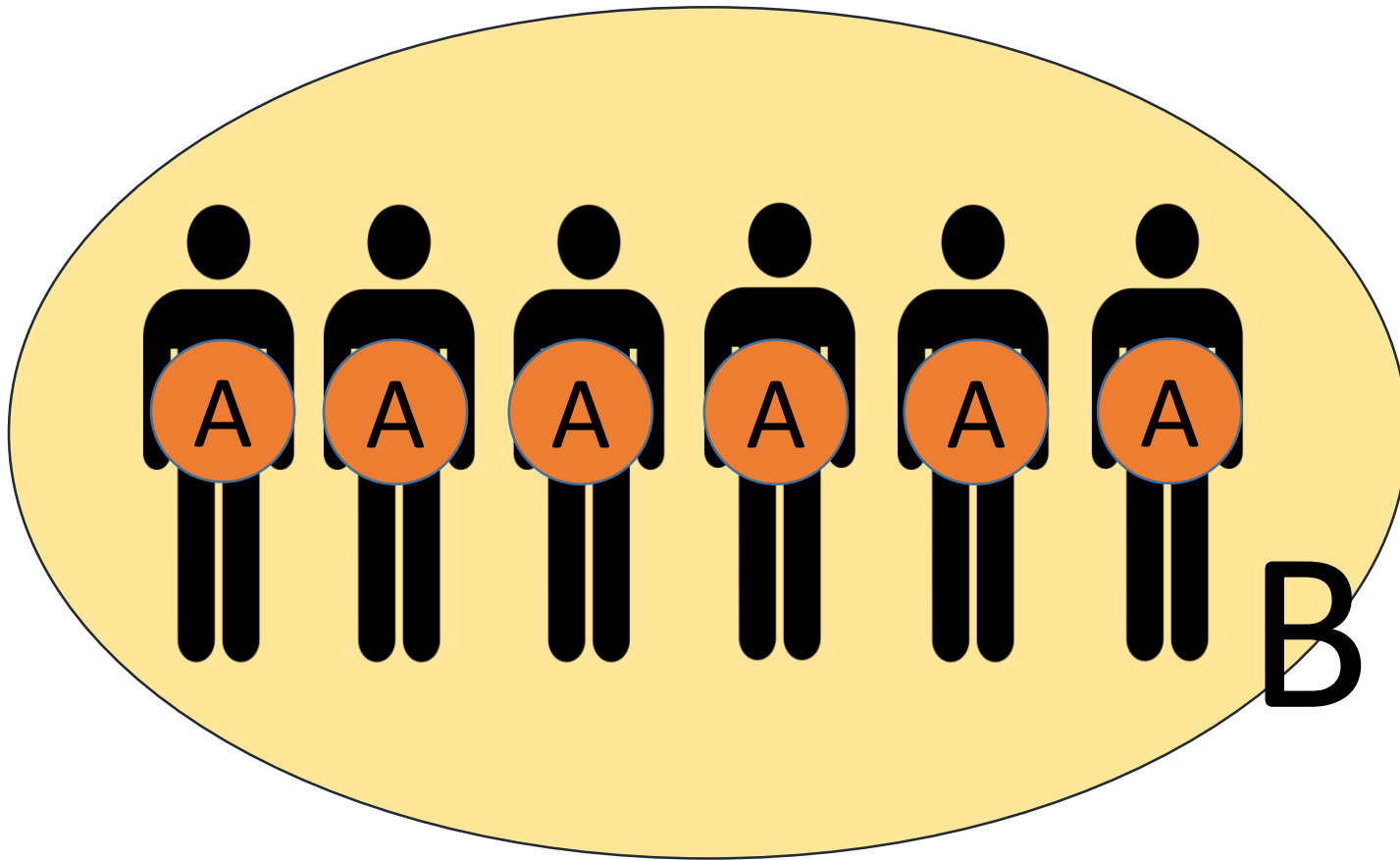
A. Awareness and Preparedness at Individual Level

Each individual must have high consciousness toward hazards and need to take spontaneous actions without being dependent on government during emergencies. We will exchange opinions about how individuals should be aware and prepare for future hazards and seek to reach essential common guidelines among all countries. Moreover, we will try to find a solution about how people can stay aware that the occurring of a hazard is not only about someone else being damaged but it's about yourself too.

B. Awareness and Preparedness at Community

When hazards occur, each individual must not be isolated to survive. We need to be recognized within the local communities in our daily lives. By getting the hold of the different styles of communities around the world, we will try to find the most effective state of communities against hazards.

Sub-theme of committee: Follower



Sub-theme of committee: Leader

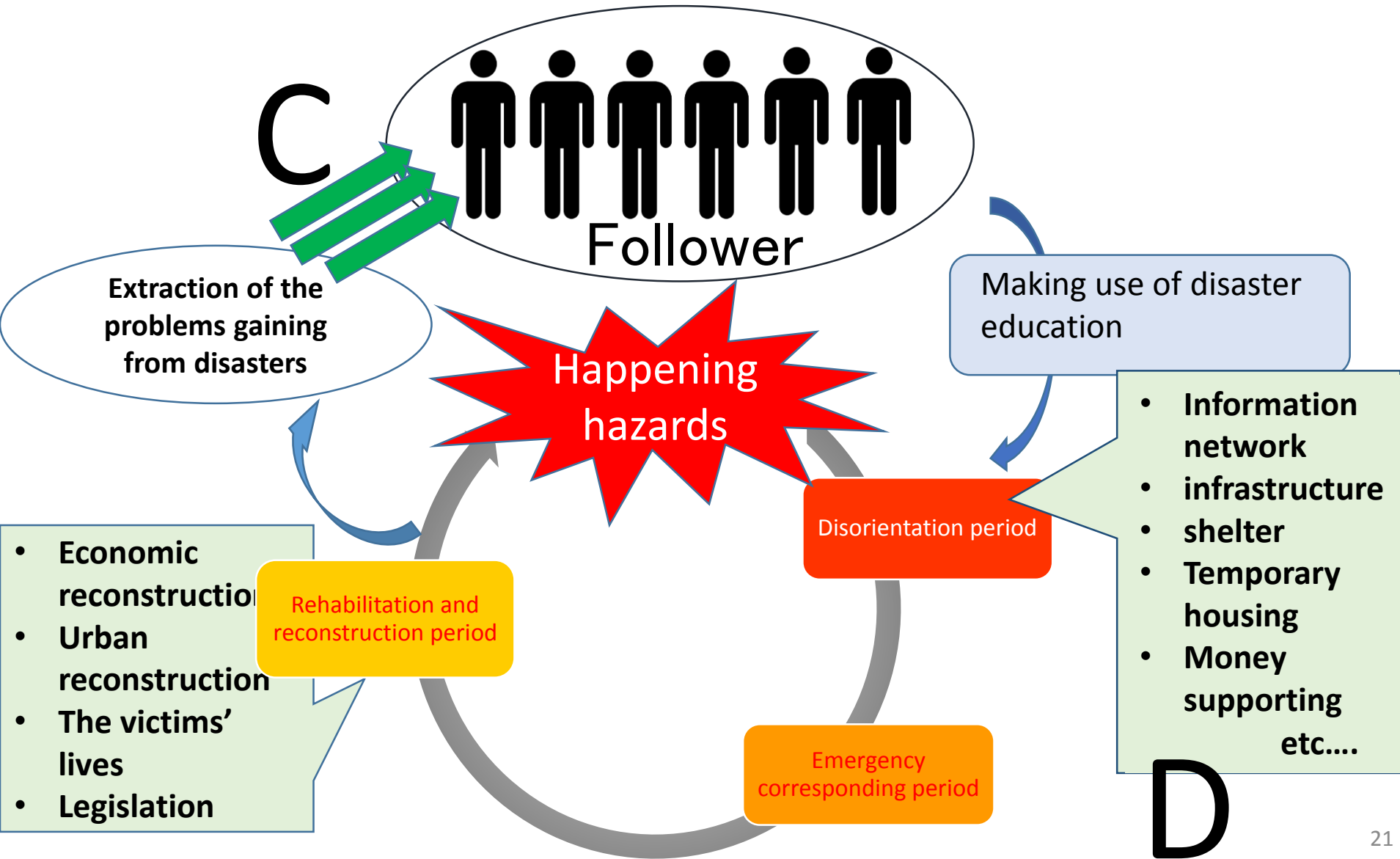
C. Enlightenment of Disaster Education

The administration should tell us the knowledge so that each individual properly deals with the hazard. We'll look for a better way of disaster education by discussing present disaster educations' strengths and weaknesses or whether they succeeded or failed around the world. Also, we 'll have to rethink what the government should be for the citizens so that they can acquire a lot of knowledge concerning hazard.

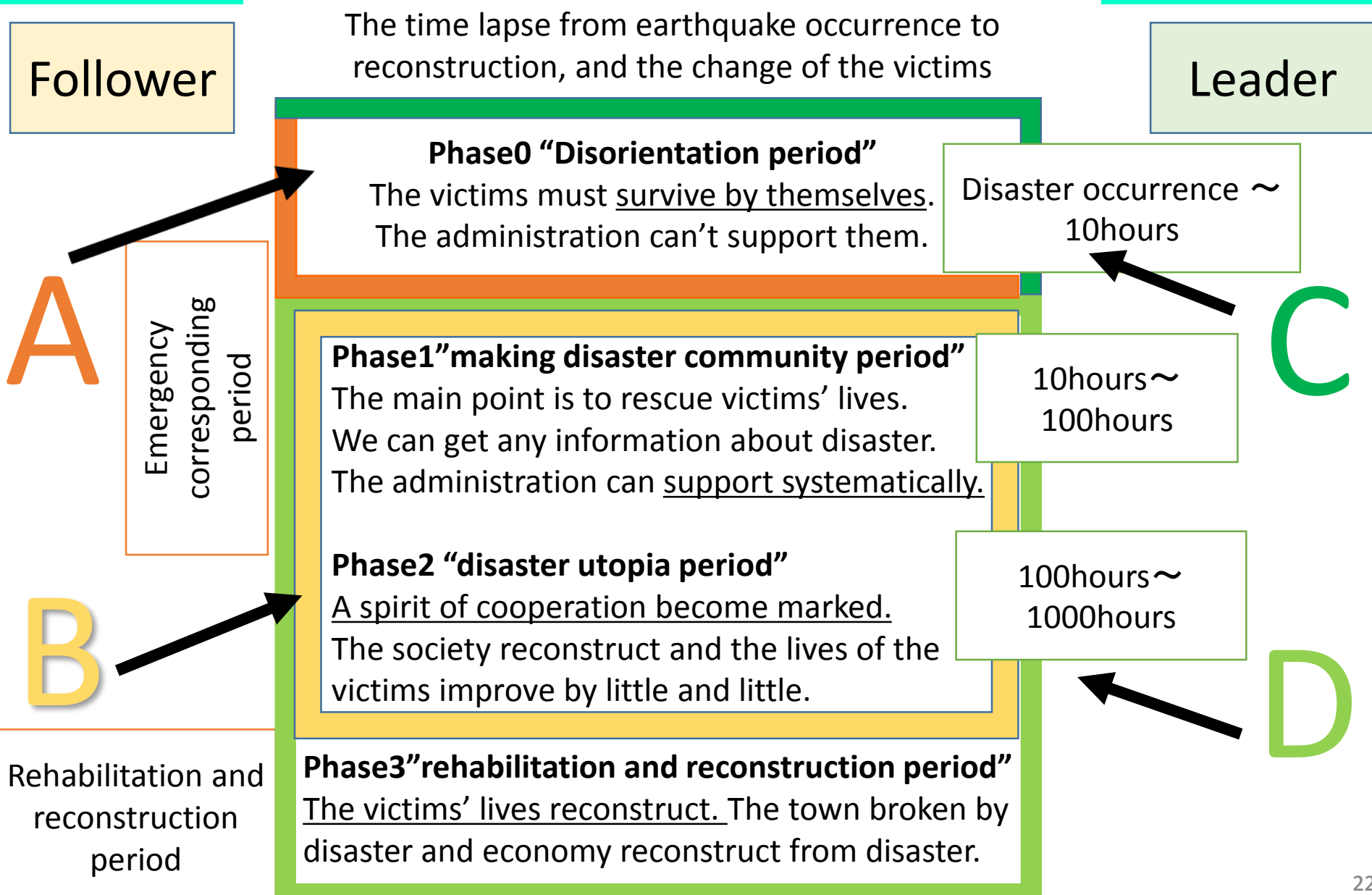
D. Preparation and Implementation of support for reconstruction

When a hazard occurs, the administration needs to prepare a better system working rapidly inside the country, especially in the disaster area confused. Also, it must provide a system assisting the victims to come back to their daily lives and the entire community to reconstruct. The administrations around the world actually cope with occurrence of a hazard. Through various disaster experience, we should consider a problem caused in the past again and introduce a new good method. Doing so, we'll be able to consider the ideal administration system recovering from disaster.

Sub-theme of Committee: Leader



Summary of committee's sub-theme



Committee schedule

➤ Sectional Meetings Day 1st : Lecture & Workshop

9:30-10:30	Lecture by Prof. Naoyuki KATO, Earthquake Research Institute ,The University of Tokyo
10:30-12:00	Workshop : Earthquake Simulation
13:30-14:30	Discussion about lecture & workshop

 Conduct for discussion as an example of
Japan's representative hazard : "Earthquake"

Committee schedule

➤ Sectional Meetings Day 1st & 2nd : Poster Session & Discussion


14:30-15:00 Introduction for poster session

15:30-17:30 Poster session & summary of sub-themes

9:00-11:30 Discussion with all sectional meetings members

Target “Build up Resilience for Disasters”

With Three Perspectives Led by Occurred Disasters

- 
- A) Social Vulnerabilities
 - B) Measures to Reduce Social Vulnerabilities
 - C) Success Stories and Pending Issues for these Measures