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Break out session 3.3 Synthesis system of science and technology final report

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MIED. mall的災科学技術研究所 2018.10.17 What the role of facilitator Connect external resources and local community Empower local community to be sustainable by reducing disaster risk Provide proper knowledge, experience, and tools for disaster risk reduction • Help local leaders to learn a standardized but effective way to improve disaster resilience in terms of life safety, asset protection, and business continuity • Help local leaders to implement what he/she learned Share the experiences and lessons obtained with the people in other areas



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WHAT facilitator will do on site

- 1. Establishing trust from local stakeholders
- 2. Assessing Local Risk
 - 1. Identify the hazards local community faces
 - 2. Assess the exposure of Community to hazards
 - 3. Assess physical and social venerability of community in relation to hazards
- 3. Setting Goal
 - 1. Establish the goals to be achieved through workshop by local stakeholders
- 4. Developing local solution plan
 - 1. Finding a set of (or at least one) feasible solution which use local technology, local materials, and local resources.
- 5. Implementing local solution plan
 - 1. Help local community solve the problem by themselves with outside assistance
- 6. Reviewing the whole process as a lesson for future
 - 1. Design after action review with local stakeholders
 - 2. Compile the document to record the activities

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• We need to synthesize science and technology on disaster risk reduction to help the abovementioned five steps in terms of knowledge and tools

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Understanding disaster risk-	Past and/or on-going activities.	Success factors-	Problems in implementation -	
Root causes and disaster risk-	FORIN project of IRDR-	Studied social processes leading to	Needs more integrated approach to	
drivers.		"risk drivers"	involve policy-making and practice	
Root causes and disaster risk-	Study of root causes for the 2004-	Found that causes are lack of	Findings are not reflected in policy-	
drivers.	Indian Ocean tsunami -	tsunami-early-warning-system, lack-	makers	
		of knowledge and vulnerabilities \sim		
Root causes and disaster risk-	Study of root causes for the 2010	Found that causes are poverty,	Findings are not reflected in policy-	
drivers.	Haiti-earthquake-	political instability and lack of	makers; Root causes still remain-	
		building codes -		
Root causes and disaster risk-	Study of root causes for the 2011	Found that causes are under-	Vulnerability still remain-	
drivers.	Great East Japan Earthquake and	estimation in tsunami early warning,		
	Tsunami disaster, including	vulnerability of elderly people, and		
	Fukushima NPS accident: -	insufficient assessment of NPS-		
Collection, analysis, management	Establishment of tsunami early	Tsunami early warning systems are	Some countries have problem to	
and use of disaster data-	warning systems -	installed in Indian Ocean,	maintain the instruments and	
		Mediterranean and Caribbean Seas-	warning systems-	
Collection, analysis, management	Surveys to residents in Haiti-	Estimated itemized victims from the	Not reflected in official damage	
and use of disaster data-		2010 earthquake	estimates -	
Collection, analysis, management	Collection of data for the 2011 EJET-	Documented details of the 2011	Data are not fully shared and utilized	
and use of disaster data-	disaster and publication of white	EJET hazard and disaster -	globally -	
	paper-			
Collection, analysis, management	Collection of data at World Data	Data are collected and exchanged	Data are not fully utilized by other	
and use of disaster data-	Service by NOAA-	among scientists.	stakeholders	
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Draft Plan for Nation's	Synthesis
1. Background and Goals	-,
2. Purposes	
(1) Country	
(2) International Community	
3. Goals	
(1) Develop an information infrastructure	
(2) Facilitate dialogue	
(3) Promote the efforts in 3-(1) and (2)	
(4) Supports by international community	
4.Desired functions of the information infrast	ructure
 Function to collect and store information on sc activities 	ientific knowledge and various
(2) Function to collect and store lessons from past	efforts and good practices
(3) Function to promote dialogue	
(4) International cooperation to support individual	countries
5. Schedule	
(1) Development of an action plan: Present-May 20	019
(2) Implementation Phase 1 (FS): May 2019 to 2020	0
(3) Implementation Phase 2 (Implementation): 202	1 to 2023



Andoral Smarch Instruments in 防災科学技術研究所	2018.10.17 C HARUO HAYASHI
Future Tasks to be cleared	
 Establishing Governance (Legitimacy) Leaders Managers Supporters 	
 Using right Technology Web-based system Maintenance staff Physical system location Training program 	
 Establishing SOP How to search data and information How to register data and information 	
 Looking for Funding "Money eating creature" to maintain Who pays the cost Establishing echo-system 	
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Simon & Report Register Monte and Disaster Statione	2018.10.17 C HARUO HAYASHI
What we will do today	
• Start with Pre-synthesis by SCJ	
 Followed by a discussion of "Activities done so far" "Contents to be included" "Things to be cleared" 	
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