VULNERABILITY AND DISASTER RESILIENCE

UNESCO CHAIR WORKSHOP



















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Vulnerability and Disaster Resilience Venue: Mae Fah Luang University, Thailand

2 May 2019

08.30 am Registration09.00 am Background of the project by Prof Ronni Alexander

09.15 am Opening Remarks by Assoc. Prof. Dr. Siriporn

Wajjwalku

09.25 am Group photo

09.30 am Keynote Speech

Key issues: "Disaster Resilience Effort in Thailand and ASEAN" by Ms. Pannapa Na Nan

10.15 am Q & A

10.30 am Break

10.45 am Presentation from each partner

What is each partner's RESEARCH PLAN?

- "Identifying issues in disaster risk, vulnerability and resilience from a gender and peace studies perspective" by Prof. Dr. Ronni Alexander
- "Rural women's role in disaster resilience and risk adaptation options" by Prof. Dr. Jin Long Lu, Assoc Prof. Dr. Hui-Lung Yu and Assoc Prof. Dr. Jyh-Shyen Sun
- " Development of Climate Hazards Decision Support System for Cameron Highlands, Malaysia" by Assist. Prof. Dr. Tan Kok Weng
- "The Disaster Occupational Recovery at Local Level: Policy Direction and Practical Guidelines in Chiang Rai Province" by Dr. Wanwalee Inpin

11.45 pm Discussion

12.15 pm Lunch

13.15pm Continue the presentation

- "Gender in Disaster from the social scientific perspective" by Assoc. Prof. Dr. Junko Okada
- "Integrating Elderly Care System with Set-top Box for Enhancing Social Capital" by Assoc. Prof. Dr. Kuo-Tsung Tseng
- "Inclusive DRR and Resilience Building Strategies from the Civil Society Perspective" by Mr. Hafiz Amirrol
- "Voluntarism and Disaster Resilience at Local Level in Thailand: Institutional Design" by Dr. Thanikun Chantra

14.15 pm Discussion

14.45 pm Break

15.00 pm Brainstorming on development of research proposal based on the presentation in the morning session

18.00 pm Dinner

3 May 2019

09.00 am Continue the presentation

- "Mainstreaming Gender into Disaster Recovery Policy and Practice: The case study of Postearthquake in Jogjakarta, Indonesia" by Ms. Maya Dania
- "Local Government Initiative Practice on Post Tsunami in Coastal Community in West Java, Indonesia" by Ms. Rani Juwitasari
- 3. "Gender Sensitivity in Disaster Management in Indonesia" by Ms. Uki Noviana

09.45am Research Proposal

- Joint Research Proposal Collective Proposal (JSPS, JICA)
- Individual Research Proposal Institutional or Personal Proposal

11.00 am Break

11.15am Source of Funding

- JSPS (Kobe University as a leader)
- Partners University
- JICA (Mae Fah Luang University as a leader)

12.00 pm Lunch

13.00 pm Excursion (Optional)

 Visiting the post-earthquake area in Chiang Rai and discuss with local authorities and people

18.00 pm Dinner

Background of the Project

Professor Dr. Ronni Alexander Director, Kobe University Gender Equality Office, Japan

Kobe University UNESCO Chair: Gender and Vulnerability in Disaster Risk Reduction Support

Focusing on our task

Ronni Alexander Director, Kobe University Gender Equality Office



What is a UNESCO Chair

- Objective: creation of a university network for:

 - TeachingResearch
 - Cross-border sharing of knowledge
- · Approval
- Needs approval by UNESCO headquarters
- Four-year period
- No accompanying funding
- · Role
 - · Research, education, partnering, community outreach

Kobe University UNESCO Chair



- Title: Gender and Vulnerability in Disaster Risk Reduction Support
- Purpose:
 - Share experience of disaster from Kobe University to the world
 - Deepen connections with other countries, institutions to create a safer and more inclusive world
- Duration: 4 years; 2018.4~2022.3
- Only UNESCO Chair on gender & disaster
- Under supervision of UNESCO Women's Division

Partner Institutions

- UGM: Gadjah Mada University, Indonesia
 NKUST National Kaohsiung University of Science and Technology, Taiwan
 NWEC: National Women's Education Center,
- NWEC: National women's Education Center, Japan
 NIDC: Network for International Development Cooperation, Tharmasait University, Thailan
 UTAR: Universit Tunku Abdul Rahman,
 Malaysia
 Mercy Malaysia, Malaysia
 Kobe University, Japan



Tasks

RESEARCH	EDUCATION/ AWARENESS	GUIDELINES	POLICY RECOMMENDATIONS	DDR NETWORK EXPANSION
Joint research with partners Gender sensitive and inclusive guidelines for disaster risk reduction Build multidisciplinary model for DRR	Awareness strategy implementation Training for students, professional, policy makers DRR awareness activities for local community	Establish guidelines • Circulate and disseminate through seminars, symposia, HP, etc.	Policy recommendations Should meet local needs Should aim to build more resilient and inclusive society	Expansion of DRR network Build international DRR network based on gender equality and social inclusion

Our task here

- · Begin work to establish guidelines
- · Those guidelines must be:
 - Gender sensitive (based on gender equality)
 Inclusive (based on social inclusion)
- · Guidelines will be used for
- · Policy recommendations
- Dissemination to local communities
- · Dissemination to international network

Some things to think about as we begin

- What are we creating?
 Guidelines (advice or rules for creating support measures and/or implementing support)
 Not indices (ways of measuring presence/success of support)
 For whom?
 Policy makers, NGOs, community, others?
 For what time frame?
 Pre/during/post-disaster
 For how long?
 After: days, months, years
 Before: forever?

- Should it be strategies using:
 Gender sensitive (approach) to vulnerability (categories)
 Gender sensitive (approach) to sensitive (approach) and sensitive (approach) and sensitive (approach)
 What should be the relative weight of theory and practice/praxis

Do we need a common approach?

- · Common definitions?
- GenderVulnerability
- How do we treat binaries?
 Ex: 2 genders or many?
 How do we treat multiple categories?
- How do we treat categories we cannot see or count?
 Invisible/invisibilized minorities



Vulnerability (and Gender) as ambiguous concepts

Natural Science tendencies

- Outcome
- Variable
- Complex system
- Adaptive capacity
- Populations

Social science tendencies

- Context
- Category
- · Constructed; process
- · Values, knowledge(s)
- Individuals
- Actor-oriented, agency, empowerment

Kobe University
UNESCO Chair

Opening Remarks

Associate Professor Dr. Siriporn Wajjawalku

Dean, School of Social Innovation

Good morning

Welcome all of you to the workshop titled "Vulnerability and Resilience", which is a part of the project called "Kobe University UNESCO Chair: Gender and Vulnerability in Disaster Risk Reduction Support". As mentioned by Prof. Ronni Alexander, this project is a collaboration among partners from several institutes of 5 countries including Indonesia, Japan, Malaysia, Taiwan, and Thailand. Mae Fah Luang University is very pleased to host this workshop, as a partner institute, to support the Project to move forward and achieve the agreed goal.

As you may know, Chiangrai Province is the area that is prone to disaster. In 2014, the earthquake of 6.3 magnitude had occurred and caused damage of lives, construction, as well as properties. Besides this serious earthquake, flood and landslide occur every year, which, partly, leads to the limited progress of development in the area.

In addition, Chiangrai Province, as a border area, has hosted people who are migrants from neighboring countries. As non-Thai and, sometimes, ethnic, they are more vulnerable to disaster. Some of them, in case that they stay illegally, cannot access to public services provided for affected people during emergency and compensation for recovery and rehabilitation later.

As being university in the area, Mae Fah Luang University has realized that it is responsibility of academic to help affected people and support the local authority to manage the disaster and its impacts.

In terms of disaster management, the idea of disaster risk reduction has been promoted with an aim to support the country and people to protect themselves, prevent and mitigate damage caused by disaster. On top of that, it also tries to strengthen local communities and authorities involved in this matter. In order to do so, concrete measures which are applicable at local level are needed.

This workshop has objectives firstly, to share experiences of all partners related to disaster and disaster risk reduction focusing on vulnerabilities including women, children, disable and ethnic people; secondly, to brainstorm and create a research and action plan project for disaster resilience at the local level with emphasis on local context of each country.

Without support from many people and organizations, this workshop will not be materialized. As the host, I would like to thank Mae Fah Luang University for financial support to this workshop. I also would like to thank Kobe University for having Thailand and our university as a partner; all of our partners from Indonesia, Malaysia, and Taiwan for your active preparation and participation. Lastly, my thanks and gratitude go to my staff of School of Social Innovation who enthusiastically take part in this project.

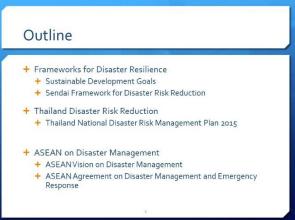
I am confident that this 2 day workshop will be fruitful and produce a useful output for both policy and practical levels.

Thank you very much.

Keynote Speech

Ms. Pannapa Na Nan
Foreign Relations Officer (Senior Professional Level)
Research and International Cooperation Bareau
Department of Disaster Prevention and Mitigation





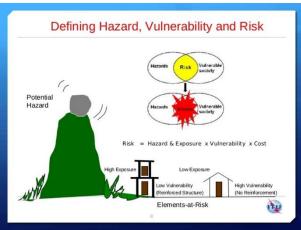


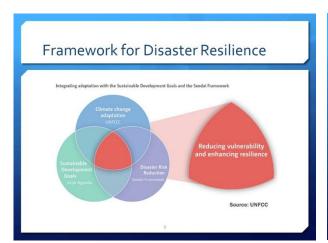












SDG: Sustainable Development Goals

+ Adopted by UN General Assembly on 25 September 2015
+ 194 countries + Global Civil Society
+ "Transforming our world: the 2030 Agenda for Sustainable Development"
+ 17 Global goals with 169 targets
+ 3 core elements must be harmonized: Economic growth, social inclusion, and environmental protection
+ Inclusive, Sustainable, and Resilient



Sendai Framework for Disaster risk
Reduction (2015 – 2030)

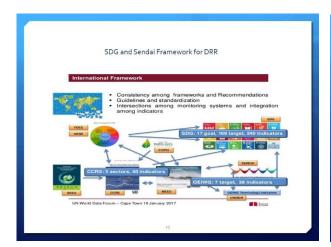
+ International document adopted during 3rd World Conference
on Disaster Risk Reduction, March 14 – 18, 2015 in Sendai
Japan

+ Endorsed by UN General Assembly in June 2015

Sendai Framework for Disaster Risk Reduction
2015 - 2030



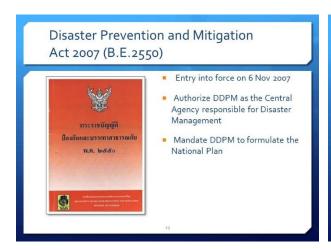






Thailand Disaster Risk Reduction Legal Framework: The Disaster Prevention and Mitigation Act 2007 (B.E. 2550) National Disaster Prevention and Mitigation Plan 2015 Core agency: DDPM as the central government agency to operate any related activities on national disaster prevention and mitigation Mechanisms to ensure the implementation of disaster management system: National Disaster Prevention and Mitigation Committee (NDPMC) Disaster Management Committee (National, Provincial and District level) Disaster Prevention and Mitigation Plan

Thailand: Disaster Management System Legal Framework: The Disaster Prevention and Mitigation Act 2007 (B.E. 2550) National Disaster Prevention and Mitigation Plan 2015 Core agency: DDPM as the central government agency to operate any related activities on national disaster prevention and mitigation Mechanisms to ensure the implementation of disaster management system: National Disaster Prevention and Mitigation Committee (NDPMC) Disaster Management Committee (National, Provincial and District level) Disaster Prevention and Mitigation Plan



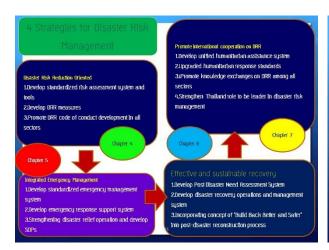














ASEAN and Disaster Resilience Efforts

- + ASEAN as the most disaster prone region
- + 3 notable high-impact, large scale disasters:
 - + 2004 Indian Ocean Tsunami
 - + 2008 Cyclone Nargis
 - + 2013 Typhoon Haiyan (Yolanda)

Combined damage cost reach over USD 22.5 billion, with 278,000 fatalities

 ASEAN is the only once regional cooperation with agreement specifically address on the issue of disaster management and climate change The ASEAN Agreement on Disaster Management and Emergency Response (AADMER - 2005), and the Agreement on the Establishment of the AHA Centre (2011), provide the Centre with a strong mandate as the regional operational coordination engine



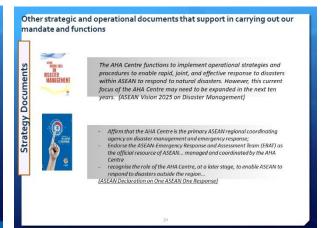
The AHA Centre shall be established for the purpose of facilitating co-operation and co-ordination among the Parties, and with relevant United Nations and international organisations, in promoting regional collaboration (AADMER Article 20.1 and Agreement on the Establishment of AHA Centre Article 3.1)



The AHA Centre shall work on the basis that the Party will act first to manage and respond to disasters. In the event that the Party requires assistance to cope with such situation, in addition to direct request to any Assisting Entity, it may seek assistance from the AHA Centre to facilitate such request (AADMER Article 20.2 Agreement on the establishment of AHA Centre Article 3.2)

At the 19th of ASEAN Summit, witnessed by ASEAN Heads of States, the agreement on the establishment of AHA Centre was signed by the ASEAN Foreign Ministers on 17 November 2011 in Bali Indonesia







The AHA Centre's office houses the Emergency Operations Centre (EOC), which serves as the nerve centre for monitoring and analysis of disasters and coordinating ASEAN's collective response to disasters

AADMER Work Program 2016 - 2020

- + Contribute to the aims of the AADMER
- + GOAL: to build resilient ASEAN Community
- + 8 Priority Programme with specific goal and outputs
 - + AWARE: Risk Aware ASEAN Community
 - + Build Safely: Safe ASEAN Infrastructures and essential services
 - + ADVANCE: Disaster resilient and climate adaptive ASEAN
 - + PROTECT: protect economic and social gains
 - + RESPONSE AS ONE: transforming ASEAN response mechanism
 - + EQUIP: enhance response capacity
 - + RECOVERY: ASEAN resilience recovery
 - + LEAD: ASEAN leadership for excellence and innovation in disaster management

Building Resilience "TOGETHER"

- + With Civil Society: Through AADMER Partnership Group
 - + ASEAN Safe School Initiative
 - + Climate Change Adaptation and Resilient cities
- + With UN: Through ASEAN-UN Joint Strategic Plan of Action on Disaster Management 2016 2020
- With ASEAN Economic Pillar: Disaster Risk Financing and Insurance Programme
- With academia: knowledge management and ASEAN 1st edition of ASEAN Risk Monitor and Disaster Management Review



Presentation from each partner

1. Identifying issues in disaster risk, vulnerability and resilience from a gender and peace studies perspective

Professor Dr. Ronni Alexander, Director, Kobe University Gender Equality Office, Japan

Identifying issues in disaster risk, vulnerability and resilience from a gender and peace studies perspective



Ronni Alexander Kobe University UNESCO Chair International Seminar 2019.5.2 Chiang Rai Mae Fah Luang University

Content and objectives

- My thoughts about guidelines and definitions
- What does peace studies tell
- · My interest and focus
- · Research plan?
- References



My thoughts about guidelines

- What are we creating?
 - Advice for policy makers Advice for support practitioners Advice for educators
- For what time frame?
 - Policy: Pre/post? - Practioners: Pre/post?
- Educators: Pre? • For how long?
 - Long term support and social transformation
- It should take a

 - Gender sensitive approach
 Address multiple and overlapping categories of vulnerability (category/ies)
 - Based on feminist theory and praxis; focus on practice
- Common approach?

 - Need to understand one another's definitions and coordinate them
 Need to have a shared understanding of how to measure success/failure

Vulnerability as...

Social vulnerability

- · Initial well being Livelihood
- Self-protection capacity
- Social protection availability/access capability
- Coping capacity
- Internal/external: double structure

Strategies reflecting

- Non-discrimination
- · Access to goods and services
- · Access to livelihoods and skills training, documentation
- Access to social protection -VAW, trafficking prevention
- · Access to information
- · Access to autonomy

From feminist critical thinking

- Gender as power relations
 - Multiple masculinities, femininities
 - Social constructed rules and expectations for men, women
 - Need to challenge gender binaries that:
 - Privilege men, masculinity
 Underlie social institutions and relations
 - Deny equal opportunities to women and marginal masculinities
- Vulnerability
 - Subjection to violation Struggle for freedom
 - Ethical obligation
- · Protection of vulnerable people as bio-politics
 - Othering and recreation of binaries
 - Violence in the name of protection

What does peace studies tell us?

- - War condemned - all human rights promoted and
- respected
- development is fully realized
- Peace as absence of violence, including structural, cultural, direct violence (Galtung)
- Societies with strong patriarchal systems tend to be less peaceful
- Right to live in peace (UNGA 2016) Disaster as cause and obstacle to peace making
 - · Interventions work better if strategies are adopted before disaster happens
 - · Levels of gender equality are a good indicator of tendency toward violence
 - · Gender sensitive approaches need to be in place before disaster

My interest and focus: strategies for invisible minorities

Invisible minority problem: How to address needs without outing them

- SOGI sexual and gender minorities
- Mixed race
- Mental illness
- Undiagnosed illness
- Multiple vulnerabilities
- Language minorities



Women, Peace and Security Index 2017-2018



- A gender-sensitive approach to measuring peacefulness
- Stresses women's autonomy and
- empowerment
 Inclusion: economic, social,
- political

 Justice: formal laws; informal
- discrimination Security: family, community and societal levels

Positive Peace index or SDGs?



- Positive peace

 Measures 'Pillars of Positive Peace

 Measures resilience in relation to positive peace

 Gender equality is treated as essential but not a separate category

 SOGS

 All or numbers 5 and 11



Research plan....

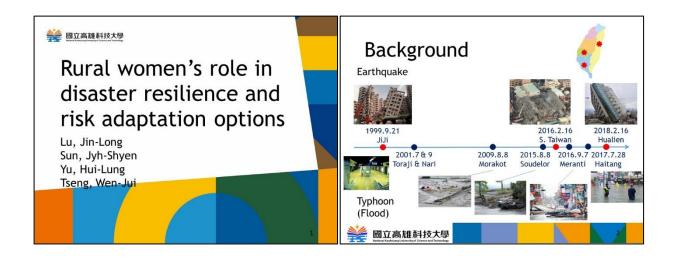
- · Background research
 - Strategies
 - Success and failure
- Local and general practices
- · Coordination with other areas?
- · What to do???



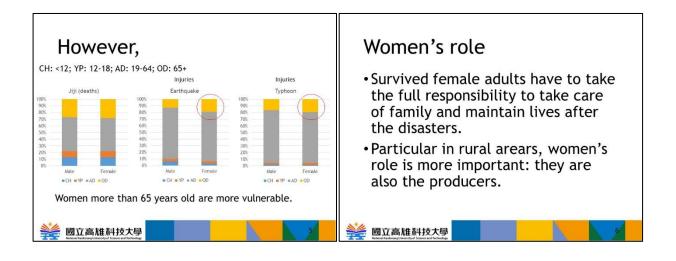
Some references

2. Rural women's role in disaster resilience and risk adaptation options

Professor Dr. Jin-Long Lu, Associate Professor Dr. Jyh-Shyen Sun, Associate Professor Dr. Hui-Lung Yu and Professor Dr. Wen-Jui Tseng, National Kaohsiung University of Science and Technology, Taiwan

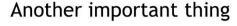






But,

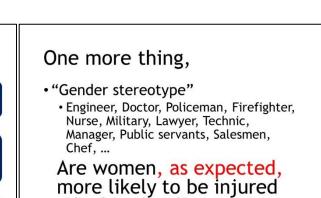
- Post-disaster's recover decisions/actions/management were lack of perspectives from women.
 - · Very few women had participated in the committee → male-centric point of view.
 - · The needs of women were ignored.



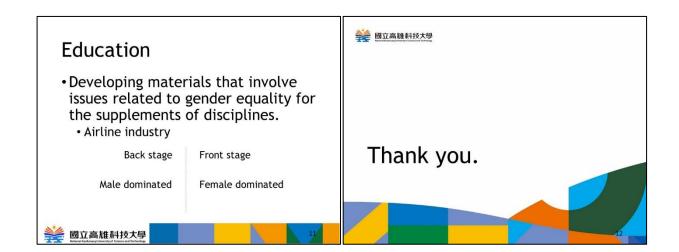
- Women in rural area are actually the biggest victims in natural catastrophes.
 - Their income deeply replies on natural resources.
 - · Micro-insurance could be a good mechanism to transfer the risks of lost welfares: natural resources.

國立高雄科技大學









3. Development of Climate Hazards Decision Support System for Cameron Highlands, Malaysia

Asstant Prof. Dr. Tan Kok Weng, Universiti Tunku Abdul Rahman, Malaysia

International Seminar of the Kobe University UNESCO Chair Project on Gender and Vulnerability in Disaster Relief and Recovery Support Mae Fah Luang University

Development of Climate Hazards Decision Support System for Cameron Highlands, Malaysia

TAN Kok Weng, LOH Phui Nying & HUANG Yuk Feng

Faculty of Engineering and Green Technology Universiti Tunku Abdul Rahman Kampar Campus, Malaysia

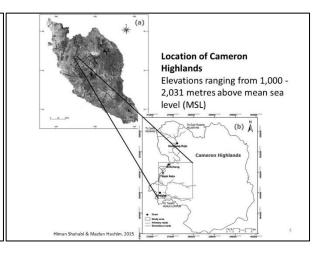


Introduction

- As part of decision support system for urban city management and development, the <u>well-defined</u> climate hazard indicators play an important role.
- This study aims to identify a set of indicators for decision support system that <u>suits the local climate hazard situation</u> in Cameron Highlands.
- The climate hazard Decision support system (DSS) development is based on <u>Driver-Pressure-State-Impact-Response</u> (DPSIR) conceptual framework

Background of study area

- Cameron Highlands is chosen as the case study area.
- Elevation of the catchment area is between 1,000 and 2,031 m above sea level.
- Diverse population of 38,000 (2010).





Source: www.fulloftravel.com



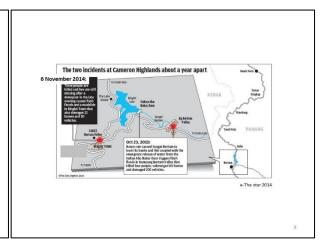
Agro-tourism e.g Flower, fruit and vegetable farming





2013 AND 2014 FLOOD DISASTERS IN RIGNLET AND BERTAM VALLEY

2016 TANAH RATA LANDSLIDE









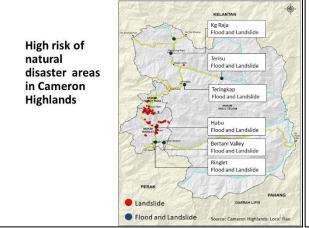
Flood waters almost reaching the roof of a low-level house

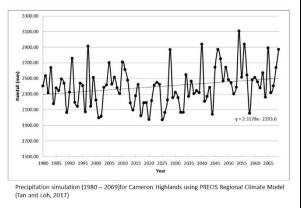




The floods leave a muddy trail of destruction in Ringlet



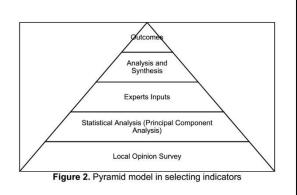




Methodology

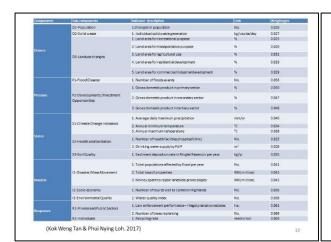
- This study adopted quantitative and qualitative approach in order to develop the climate hazards decision support system.
- Total 85 Local residents were interviewed using close-ended questionaire.
- Three statistical tests were carried out in Statistical Package for the Social Sciences (SPSS), 1. Reliability test 2. principal component analysis (PCA) 3. Sensitivity analysis.
- Identifying the climate change vulnerable domains and indicators for Cameron Highlands based on drivers—pressure state—impacts—response (DPSIR) framework.
- The pre-defined indicators were then given a weightage and rating by the 11 experts from different local institutions, that are from Universiti Kebangsaan Malaysia (UKM), Universiti Malaya (UM), Universiti Putra Malaysia (UPM), Universiti Sains Malaysia (USM) and Universiti Teknologi Petronas (UTP).

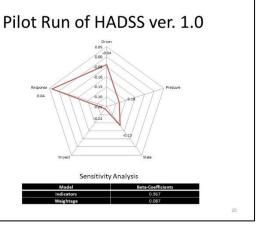
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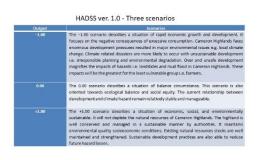


Outcomes

- Climate Change Hazard Decision Support System Conceptual Model (HADSS ver. 1.0) based on DPSIR framework.
- It comprises of 13 sub-domains and 25 indicators







- Three scenarios were also developed for HADSS ver. 1.0 to analyse the possible future events in Cameron Highlands.
- The computed output value found to be 0.5573 indicated Cameron Highlands may be gradually being deteriorated.
- The on-going development of the area has brought many climate change hazards such as floods and mudslides.
- The local residents have to bear the brunt of this massive environmental destruction.

Conclusion

- The changing climate is threatening the socioeconomic welfare of farmers, the environment, ecology and sustainable agriculture in Cameron Highlands.
- The communities in the area seem to be struggling to cope with such changes.
- Indicators/index for different characteristics of cities should be identified and consolidated to support the better decision making process

Acknowledgement

- UTAR Research Fund (IPSR/RMC/UTARRF/2015-C2/T01)
- UTAR IPSR
- District Council of Cameron Highlands, PWD, DID, DOA and DOE.
- REACH NGO, local farmers and residents.



References

- Kok Weng Tan & Phui Nying Loh. 2017. Development Of Climate Hazards Indicators Based On Drivers- Pressures-state-impacts-responses (DPSIR) Framework: Case Study in Cameron Highlands, Malaysia. 37th IAHR World Congress, August 13 18, 2017, Kuala Lumpur, Malaysia.

 Kok Weng Tan & Phui Nying Loh. 2017. Climate Change Assessment On Rainfall And Temperature In Cameron Highlands, Malaysia, Using Regional Climate Downscaling Method. Carpathian Journal of Earth and Environmental Sciences. 12,(2)413 421.
- Himan Shahabi & Mazlan Hashim. 2015. Landslide susceptibility mapping using GIS-based statistical models and Remote sensing data in tropical environment. Scientific Reports 5(9899).

4. The Disaster Occupational Recovery at Local Level: Policy Direction and Practical Guidelines in Chiang Rai Province

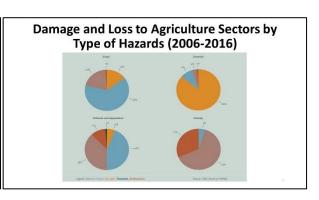
Dr. Wanwalee Inpin, Mae Fah Luang University, Thailand

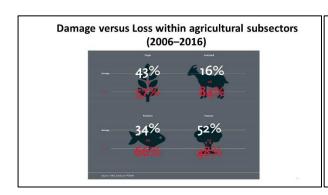


Background

In the past several years, numbers of disaster increase, causing losses and damages not only to the people, but their properties.





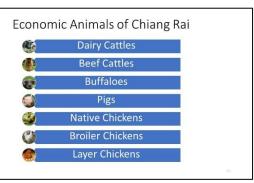












<u>Vulnerability</u> is not simply about poverty, but extensive research over the past 30 years has revealed that it is generally the poor who tend to suffer worst from disasters (DFID, 2004; Twigg, 2004; Wisner et al., 2004; UNISDR, 2009b).

The Thai government and the World Bank use poverty lines calculated by the number of poor people.

The World Bank uses the criteria of 1.9 US dollars per person per day (or about 2,000 baht per person per month)

Thailand uses 2,667 baht per person per month. (Royal Thai Government, 2018)

When considering in details, farmers in Thailand have an average of 20 land holdings per household. For the amount of 1 ton of rice, it will be about 2.22 Rais. (Farmers can grow rice 2 times each year, resulting in a net profit of 28,035.5 baht per year.)

From the survey of 2012, a production cost of Thai farmers was about approx. 9,763.4 baht per rai, with the income of approx. 11,319.37 baht, resulting in the remaining amount of 1,555.97 baht.

(The Chamber of Commerce, 2014)

Summary of Agricultural Economic Information 2011/12 by Regions Agricultural cash income (baht / household) 141,134 161,746 76,505 2. Agricultural money expenditure (baht / household) 182,603 81,982 3. Agricultural net cash income (baht / household) 56,944 71,615 30,917 82,800 104,627 + Non-agricultural cash income (baht / household) 100,326 134,768 101,168 5. Household net cash income (baht / household) 157,270 159,103 138,305 217,568 205,795 26,905 58,335 7. Debt at the end of the year (Baht / household) 76,697 84,530 8. Amount of land holding

Situated in a highland and groups of mountains, previously, Chiang Rai province was suffered from flood, flash flood, and landslide.





From damages caused by the flood and landslide, the government took responsibility in order to provide a compensation in agricultural areas to those affected farmers until recovered.

(Ministry of Agriculture and Cooperatives 2013)

Office of Agricultural Economics, 2018

However, under the Fund Advances for Disaster Relief and Emergency Assistance B.E. 2556 (2013), the amount of compensation provided by the government is inadequate comparing to the amount of damages and losses the farmers have.

Crops

Types	Rice	Filed Crops	Horticultural Crops
Crops are totally dead or damaged (paying no more than 30 Rais)	1,113 Baht/Rai	1,148 Baht/Rai	1,690 Baht/Rai
Landslide to Agricultural Area (paying no more than 5 Rais)		7,000 Baht/Rai	

Fishery

Types	Amount of Payment
Lobster, Sea Shrimp, Sea Crab or Sea Shell (paying no more than 5 Rais)	10,920 Baht/Rai
Fish or Fresh Water Animals (Earthen Pond) (paying no more than 5 Rais)	4,225 Baht/Rai
Fish or Fresh Water Animals (Floating Basket) (paying no more than 80 Square Meters)	315 baht/Square Meter

Livestock

Types	Amount of Payment
Public Grass Field for livestock damaged	In the amount that corresponds to the size of
(Paying no more than 250 kilograms per Rai)	the damaged area, by using no more than
	2 kilograms forage seeds.
Private Grass Field for livestock damaged	In the amount that corresponds to the size of
(Paying no more than 20 Rais)	the damaged area, by using no more than
(Paying no more than 250 kilograms per Rai)	2 kilograms forage seeds.
Cow (2 Animals as maximum/ person)	
Age less than 6 month	6,000 Baht/Animal
Age between 6 to 1 year	12,000 Baht/Animal
Age more than 1 to 2 years	16,000 Baht/Animal
Age more than 2 years	20,000 Baht/Animal
Buffalo (2 Animals as maximum/ person)	
Age less than 6 month	8,000 Baht/Animal
Age between 6 to 1 year	14,000 Baht/Animal
Age more than 1 to 2 years	18,000 Baht/Animal
Age more than 2 years	22,000 Baht/Animal

Types	Amount of Payment
Pig (10 Animals as maximum/ person)	
Age between 1-30 days	1,300 Baht/Animal
Age more than 30 days	3,000 Baht/Animal
Goat (10 Animals as maximum/ person)	
Age between 1-30 days	1,000 Baht/Animal
Age more than 30 days	2,000 Baht/Animal
Sheep (10 Animals as maximum/ person)	
Age between 1-30 days	1,000 Baht/Animal
Age more than 30 days	2,000 Baht/Animal
Native Chicken/ Turkey (300 Animals as maximum/ person)	
Age 1-21 days	25 Baht/Animal
Age more than 21 days	50 Baht/Animal
Layer Chicken (1,000 Animals as maximum/ person)	
Age 1-21 days	20 Baht/Animal
Age more than 21 days	80 Baht/Animal
Broiler Chicken (1,000 Animals as maximum/ person)	
Age 1-21 days	20 Baht/Animal
Age more than 21 days	50 Baht/Animal



Objectives of the study

 To assess the local government officials who are tasked with putting the policy under the Fund Advances for Disaster Relief and Emergency Assistance B.E. 2556 (2013) into practice effectively.

Objectives of the study

2. To assess and examine the inter-relationships between local government vertically and horizontally and affected farmers. The focus of this issue is to determine the degree of cooperation, support and interaction under a concept of consensus- oriented, which affect the local government's task in building community resilience;

Objectives of the study

3. To identify the nature of problems affecting the local government' officials in deliver disaster relief to affected farmers.

Theoretical Framework

This study focuses on the idea of resilience (build back better) (UNISDR 2017) which is an approach to post-disaster recovery performed by local governments in reducing vulnerability to future disasters as well as to build community resilience.

The study will also focus on a concept of good governance (Surendra Munshi 2012; UNESCAP 2014) under a consensus-oriented dimension where both local governments and affected people agree to help supporting, accepting, and making decisions for the best benefit for their affected areas.

Methodology

The purpose in this research is to outline and analyze disaster relief policy implementation through the case study of local governments (Municipality and Subdistrict Administrative Organization) in Chiang Rai province, Thailand. In addition, the following are groups identified for collecting research data:

- 1. Local government's officials (Municipality and Subdistrict Administrative Organization);
- 2. Provincial government's officials (Office of Disaster Prevention and Mitigation, Chiang Rai province);
- 3. Affected agricultural famers in selected areas.

The form of analysis proposed

1. Primary data will be obtained from in-depth interviewing of a focus group with key personnel on the following topics related to governmental policy in providing compensation, resilience and governance:

 Secondary data will be obtained from both English and Thai published material, including books, articles and government documents.
 Additional data will be drawn from articles in previous research, newspapers and magazines. In this research study, there are two different forms of analysis proposed:

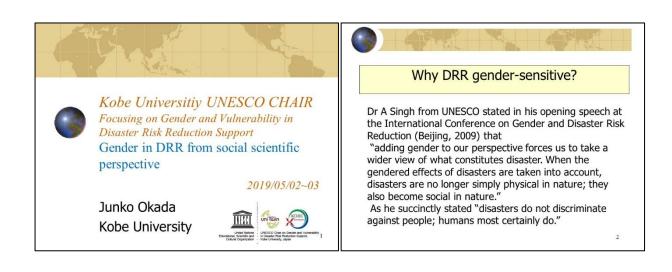
- 1. A quantitative form including
 - an in-dept interview
 - Focus group
- 2. A qualitative form made up of questionnaires.

Data will be collected from a random sampling of interviewees in examining research questions on The Disaster Occupational Recovery at Local Level in Chiang Rai Province. Results will be analyzed and then related to the research objectives, research framework and the hypotheses.

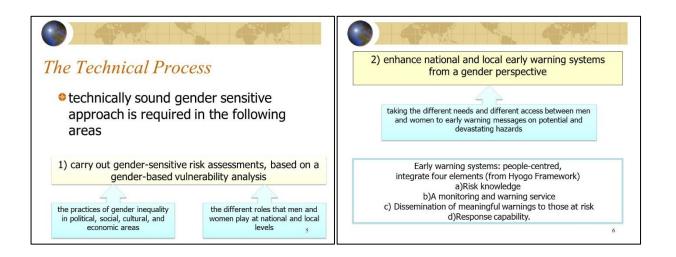


5. Gender in DRR from social scientific perspective

Associate Professor Dr. Junko Okada, Deputy Director, Kobe University Gender Equality Office, Japan









 take action to increase women's capacity and knowledge on gender-sensitive risk assessment and vulnerability analysis in disaster risk reduction



4) develop gender-sensitive indicators for disaster risk reduction

INTSDR

Making Disaster Risk Reduction Gender-Sensitive: Policy and Practical

Establish gender specific data and statistics on impact of disasters, carry out gender-sensitive vulnerability, risk and capacity assessments and develop gender-sensitive indicators to monitor and measure progress;

8



What is 'indicator'?

- Indicators: quantitative measures ex. how many men and women...?
- Indicators: reflect subjective aspects of society
 - ex. how free women feel to speak?
- Indicators: specific situations or conditions



Indicators;

a measure of the extent to which society is realizing gender equality.

- meaningful and realistic measures of change(s) overtime
- bring to light issues and trends not otherwise easily observed or evident
- allow for the impact of policy and programmes to be evaluated and for improvements to be made in all phases

10



Using indicators

- how to include women's knowledge, experiences, and perspectives in planning and implementing the DRR
- Monitoring and evaluation of indicators



what extent a community or society is upholding "the dignity and worth of the human person, in the equal rights of men and women and of nations large and small" (UN Charter preamble).

Ouantitative indicators

countable, measurableex. numbers, percentages of women and men

The percentage of women who have newly acquired boats in a community due to an initiative.



Qualitative indicators

- not directly quantifiable,
 ex. opinions, perceptions, judgments
- have an explanatory and analytical purpose, ex. the quality of women's participation and experience is important,

Women's perceptions in the community about whether the new boats have improved their quality of life and if not, why not.



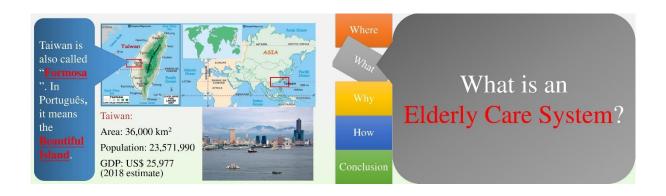
References

- UNISDR, UNDP and IUCN, Making Disaster Risk Reduction Gender-Sensitive, 2009
- Elaine Enarson, Women Confronting Natural Disaster From Vulnerability to Resilience, Lynne Rienner, 2012
- https://www.unisdr.org/files/42360_20p ontchecklistforgendersensivived.pdf

6. Integrating Elderly Care System with Set-top Box for Enhancing Social Capital

Assistant Professor Dr. Kuo-Tsung Tseng, National Kaohsiung University of Science and Technology, Taiwan and Associate Professor Dr. Akira Kawai, Shiga University, Japan







Social Capital There are many definitions presented for Social Capital. It may be regarded as the connections among people.

Effects on Health

A growing body of research has found that the presence of social capital through social networks and communities has a protective quality on health. Social capital affects health risk behavior in the sense that individuals who are embedded in a network or community rich in support, social trust, information, and norms, have resources that help achieve health goals. For example, a person who is sick with cancer may receive information, money, or moral support he or she needs to endure treatment and recover. Social capital also encourages social trust and membership. These factors can discourage individuals from engaging in risky health behaviors such as smoking and binge drinking. Furthermore, neighbourhood social capital may also aid in buffering health inequities amongst children and adolescents.



Older Adults Face More Danger in Natural Disasters

Figure 1: Casualties by Gender and Age Group in the Great East Japan Earthquake (Iwate, Miyagi, Fukushima Prefectures)

Casualties

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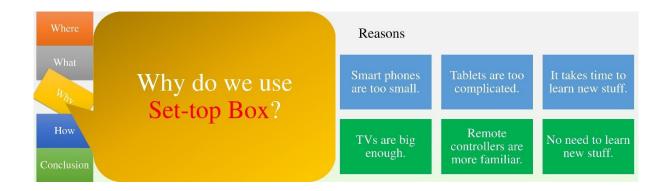
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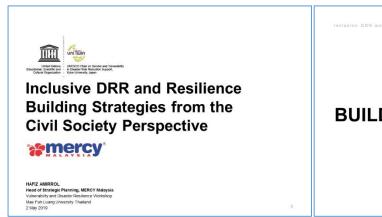






7. Inclusive DRR and Resilience Building Strategies from the Civil Society Perspective

Mr. Hafiz Amirrol, Head of Strategic Planning, MERCY Malaysia



BUILDING RESILIENCE





Inclusive DRR and Resilience Building Strategies from the Civil Society Perspective

ON INCLUSIVITY



Most vulnerable people in disaster

1. Children and adolescents 2. Women (including female headed households, victims of domestic violence)

Most vulnerable people in disaster

- 3. People with disabilities (PWDs)
- 4. Religious minorities groups
- 5. Trafficked persons
- 6. HIV-positive individuals
- 7. Older persons/ elderly citizens
- 8. Indigenous minorities
- 9. Very poor and homeless
- 10. Refugees and stateless persons

"Social exclusion describes a process by which certain groups are systematically disadvantaged because they are discriminated against on the basis of their ethnicity, race, religion, sexual orientation, caste, descent, gender, age, disability, HIV status, migrant status or where they live"

Social exclusion

Situation of these groups as a form of social exclusion on the following grounds:

- 1. These groups are, in various ways, kept away from full participation in the wider economic, political, cultural, and social life;
- 2. These groups are lacking in power and access to decision-making that could influence policies or create opportunities for improving their standard of living.

*mercy

CIVIL SOCIETY



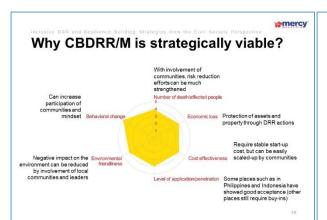
No matter where in the world disaster strikes, disaster management is all about people.

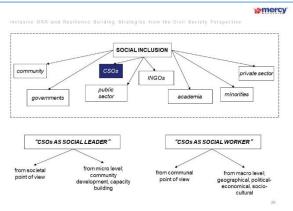






















8. Volunteerism and Disaster Resilience at Local Level in Thailand: Institutional Design

Dr. Thanikun Chantra, Mae Fah Luang University, Thailand



What is volunteerism?

"activities undertaken of free will, for the general public good and where monetary reward is not the principal motivating factor."

UN Volunteers (UNV) Programme, 2015





"(Disasters) bring social vulnerability to the forefront in considering how disasters unfold, clearly revealing that disasters are not created from the physical event alone. Equally important, people—even those considered vulnerable—respond in innovative and resilient ways that unveil the strength of human ingenuity and spirit. It is not a foregone conclusion that a hazard event, even a large one, will result in catastrophic loss."

Source: Thomas et.al (2013), Social vulnerability to disasters, Florida: CRC Press.



Statement of the problem



Disaster can pull group of people together to fight and help their communities to revive strongly This research looks at "volunteer" as a new actor that can encourage participation and strengthen community before and

Under the concept of volunteerism, the vulnerabilities will not be able to only develop themselves to be able to survive and have stronger life, but also be able to help community that they live to build back

So, instead of waiting for help from the government, it is better, as this research argues , for people and NGOs to strengthen themselves through appropriate institutional design that can promote partnership and participation in the long-term.

Research Objectives

To be able to explain how volunteers can participate in disaster resilient activities.



To be able to suggest institutional design for volunteering development and disaster management in Thailand.

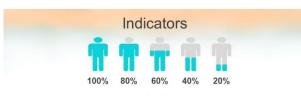
Research Questions Theoretical Framework 1. How does volunteerism impact disaster resilience at local level in Thailand? 3. Can institutional structure facilitate the works of volunteers and strengthen the capabilities of volunteers in building resilient and sustainable communities? 4. How institutional design for volunteerism in Thailand should be? Volunteerism Inclusive Development Volunteerism Inclusive Development

Research Methodology | Continue | Continue

Output

 Recommendations on the proper strategies to improve the roles of volunteers in enabling vulnerabilities and strengthening disaster resilience.

2. Institutional design for volunteering development and disaster management in Thailand in order to encourage resilient community at local level.



- 1. Total number of volunteers in resilient activities
- 2. Total number of vulnerability-become-volunteers in resilient activites.
- 3. Total number of activities that volunteers participate.

As someone who has had health problems get in the way, and mostly prevent every single activity I do, including anything work related, my confidence in my abilities is extremely low."



I really felt like a waste of space and so ashamed of what I am and how my body is a failure. But now I actually do something important.



I almost feel like my volunteer role was created as much for me as for the people I help

Source: O'Brien et al (2011), Volunteering in nature as a Perspect Public Health. 2011 Mar; 131(2):71-81.

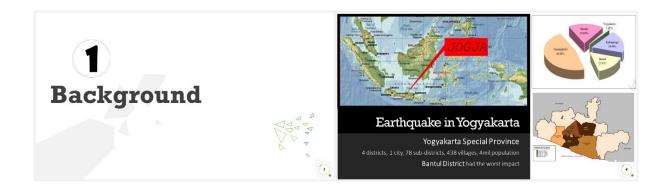
vay of enabling people to reintegrate into socie



Vulnerabilities are not necessary to always be vulnerable. Volunteers can build resilient community. 9. Mainstreaming Gender into Disaster Recovery Policy and Practice : The Case Study of Post-Earthquake in Yogyakarta, Indonesia

Ms. Maya Dania, Mae Fah Luang University, Thailand









Beijing Declaration and Platform of Action (1995)

9

Determined to advance the goals of equality, development and peace for all women everywhere in the interest of all humanity



23th Special Session on the General Assembly on Women (2000) Natural disaster was identified as the latest challenge for women that would prevent the implementation of Beljing Declarations and Platform for actions.

The same disaster might give different impact for different gender community capacity to anticipate, prepare for, protect one's self and recovery



Elaine Enarson

"Gender Equality, Work, and Disaster'
Reduction: Making the Connection"
"Gender mainstreaming is vital to achieving
sustainable development through
reconstruction"

Disaster risk perception is constructed differently in the local community through a complex concept, influenced by many factors (e.g., social power, privilege, domination, vulnerability, empowerment, political economy, and social change)

Women are included in the most vulnerable group when a disaster strikes.

Women and girls may not have access to equal resources and information in a disaster situation or face discrimination in the aftermath because of gender stereotypes and gender bias in the design, funding, implementation, monitoring, and evaluation of emergency shellers, water and sanitation, healthcare, and other post-disaster initiatives.



Nevertheless, in Indonesia, there are only few studies offer a detailed elaboration of specific strategies for mainstreaming gender within recovery policy and practice. Following a natural disaster, men's and women's roles are equally essential the survival and growth of households, communities, and societies. Yet, too often, women are not effectively engaged and represented in post-disaster recovery (GFDRR, 2011).

This area is still underexplored and thus calls for investigation into how gender mainstreaming is linked to disaster recovery policy and practice and how it could help policy makers to design better policies and frameworks to achieve community resilience to disaster.

Research Questions and Objectives



Research Questions

This study proposes two questions:

- 1. How does Indonesia implement gender mainstreaming policy for post-disaster recovery?
- 2. How does the practice of Indonesia's post-disaster recovery policy based on gender mainstreaming in Yogyakarta Special Province?

Objectives

This study purposes to:

- Find gender mainstreaming policy for post-disaster recovery implemented in Indonesia.
- 2. Discover the post-disaster recovery practice based on Indonesia's gender mainstreaming policy in Yogyakarta Special Province.



Theoretical Framework



Gender Equality and Equity

By the definition of UNESCO, gender equality, does not mean that women and men have to become the same, but that their rights, responsibilities, and opportunities will not depend on whether they were born as male or female. On the other hand, gender equity means fairness of treatment for men and women according to their respective needs.

Gender shapes the disaster experience and the ability to recover. Building back better encompasses a number of dimensions with gender-specific implications, beyond the construction of strengthened physical infrastructure (WBI, 2009, in IRP 2009).

This may include equal treatment or treatment that is different but which is considered equivalent in terms of rights, benefits, obligations, and opportunities (UNESCO, 2000)

Gender Equality and Equity

In the pre-disaster context, women's and girls' unequal access to social, political, and economic resources influences their access to post-disaster assistance and compensation for damage and losses.

The **post-disaster** context presents a host of challenges for women, yet, it is important to recognize that women are not just victims of disasters. Rather, significant evidence demonstrates that women are powerful agents of change during and after disasters.

In this perspective, the strength of postdisaster recovery lies with how well it responds to the needs of both women and men equally and equitably (GFDRR, 2018). Gender equality principles must guide all aspects of disaster mitigation, response and reconstruction.

While, gender mainstreaming is a globally accepted strategy for promoting gender equality. It is the process of assessing the implications for women and men of any planned action, policy or program in all areas and at all levels before any decisions are made and throughout the whole process (United Nations, 2002).





Some literature tends to discuss gender mainstreaming and disaster recovery policy and practice as two separate components, however, the two issues are fundamentally interrelated.

Gender issues cannot be discussed separately from disaster management policy and practice (Drolet, 2015)

Gender mainstreaming is a strategy to promote decision making and policy that considers the needs and interests of women and men (Bradshaw, 2015). Gender mainstreaming is not a goal in itself but an approach for promoting gender equality (UNICEF, 2017).

The goal for the implementation of gender mainstreaming is for development policy and programs to achieve a real, sustainable contribution toward equality between women and men (Yumarni, 2018).

Disaster recovery plan is a documented, structured approach with instructions for responding to unplanned incidents (UNDP, 2015)

In the recovery efforts, Indonesia perceives natural disasters exposed the underlying weaknesses and vulnerabilities in Indonesian community.

A term "building back better" introduced during the 2004 Indian Ocean Tsunami recovery efforts in Aceh, Indonesia

The need to integrate gender mainstreaming into post-disaster recovery has been emphasized by many studies (Enarson and Chakrabarti, 2009; Amaratunga and Haigh, 2011; Yi and Yang, 2014; Gotham and Cheek, 2017).

There are a number of key challenges that women face in different elements of post-disaster reconstruction and recovery: (1) housing and property rights, (2) health and post-disaster violence, (3) community services and infrastructure restoration, (4) poverty reduction, livelihood restoration and economic development (GFDRR, 2011)





Research Methodology

Mixed Method

Exploratory and Intrinsic case study

An exploratory case study is a suitable design that can facilitate the answering of the how and what questions of events within real-life contexts.

An intrinsic case study is selected as it is suitable to identify a special case.

Sida's model for gender mainstreaming

The tool for the research to highlight the differences between and among women, men, girls and boys in terms of their relative distribution of resources, opportunities, constraints and power in a given context.

Data Collection and Analysis

In-depth interviews and distribution of a set of questionnaire measuring gender mainstream to policy makers and beneficiaries who dealt with and had knowledge of Yogyakarta earthquake reconstruction.

Sida's Model

Gender Analysis

Any cooperation process must always begin by analyzing the gender equality situation in the given context and identify the expected results in terms of strengthened gender equality.

Identify How

Based on the gender analysis, Sida must identify relevant areas for collaboration, the approach to use and how to reach the expected results.

Three main approaches

Integration of gender equality in interventions in general, Targeting specific groups or issues through special interventions,

Dialogue with partners on gender sensitive issues and aspects.

Can be used together or seperately

INTEGRATION of gender equality

GENDER ANALYSIS

Gender-aware DIALOGUE

All three approaches equally relevant and important

Data Collection

In-depth interviews

Policy makers and beneficiaries who dealt with and had knowledge of Yogyakarta earthquake reconstruction.

Beneficiaries' interviews will be conducted separately between women and men in order to avoid male bias as well as to reveal women voices.

A set of questionnaire

Measuring gender mainstream its determinants

determinants

A checklist of good
practice for ensuring
gender sensitivity in
disaster recovery
phase adopted from
World Bank (2009)
will be used to
provide guidance for
in-depth interview
and questionnaires

Data Analysis

Content analysis will used to explore types and proses toward gender mainstream.

mainstream.
Questionnaires will be
analyzed using factor
analysis and t-test in
particular to identify
prominent types and key
determinants of gender
mainstream in postearthquake reconstruction
context.



Bradshaw, S. (2015), "Engendering development and disasters", Disasters, Vol. 39 No. 1, pp. 54-75.

Brodshaw, S. (2015), Engendering development, and oassetes, Jossasters, vol. 39 No. 1, pp. 34 75.
Childs, M. (2006), "Not through women's eyes; photo-essays and the construction of a gendered tsunami disaster", Disaster Prevention and Management, Vol. 15 No. 1, pp. 202-212.
Drolet, J., Dominelli, L., Alston, M., Ersing, R., Mathbor, G. and Wu, H. (2015), "Women rebuilding lives post-disaster: innovative community practices for building resilience and promoting sustainable development", Gender and Development, Vol. 23 No. 3, pp. 433-448.
Enarson, Elaine. (2019). "Gender Equality, Work, and Disaster Reduction: Making the Connections". Retrieved

from:https://www.researchgate.net/publication/228905667Gender_Equality_Work_and_Disaster_Reduction_Making_the_Connections/citation/
Enarson, E.P. (2012). "Women are Confronting Natural Disaster: From Vulnerability to Resilience". Boulder: Lynne

Rienner Publishers.

Fatimah, Dati. (2010). "Gender Mainstreaming dalam Pengurangan Risiko Bencana". Yogyakarta: Aksara. GFDRR. (2018). "Disaster Recovery Guidance Series: Gender Equality and Women's Empowerment in Disaster

Recovery". Washington: the World Bank.

GFDRR. (2015). "Resilient Recovery: an Imperative for Sustainable Development". Washington: the World Bank.

GFDRR. (2011). "Integrating Gender Issues and Recovery and Reconstruction Planning". Washington: the World

Bank.

International Federation of Red Cross and Red Crescent Societies. (2010). "A Practical Guide to Gender Sensitive
Approaches for Disaster Management". Kuala Lumpur: Asia Pacific Zone.
International Recovery Platform (IRIP), (2009). "Gender Issues in Recovery". Executive Briefs for Recovery: Extracts from
key documents series 24 September 2009.

key documents series 24 September 2009.

Swedish International Development Cooperation Agency (SIDA). (2015). "Iool: Gender Mainstreaming". Stockholm: SIDA. Iaber, K. S. (2014). "Methodological Issues in science education research: a perspective from the philosophy of science. In M. R. Matthews (Ed.), International Handbook of Research in History, Philosophy and Science leaching (Vol. 3, pp. 1839-1893). Dordrecht: Springer Netherlands."

UNICEF. (2017). "People's Perspectives of Relief after the 2006 Yogyakarta Earthquake". Jakarta: Reality Check Approach (RCA)

Yin, R.K. (2009). "Grase Study Besearch: Design and Methods" (4th Ed). CA: Sage Publications

Yonder, A., Akcar, S. and Gopalan, P. (2005). "Women's participation in disaster relief and recovery", in P. Council (Ed.), Seeds Pamphilet of Population Council, Vol. 22, Population Council, New York, NY, pp. 1-22.

Yumarni, Tir (Ed.), 1, 2018. "Gender Mainstreaming as a Strategy to Achieve Sustainable Post-Disaster Reconstruction".

Seeds Pamphiet of Population Council, Vol. 22, Population Council, New York, NY, pp. 1-22.

Yumarn, Tri (et.al), (2018). "Gender Mainstreaming as a Strategy to Achieve Sustainable Post-Disaster Reconstruction".

Built Environment Project and Asset Management, Vol.8 Issue: 5, pp.544-556, https://doi.org/10.1108/BEPAM-10-2017-0086.

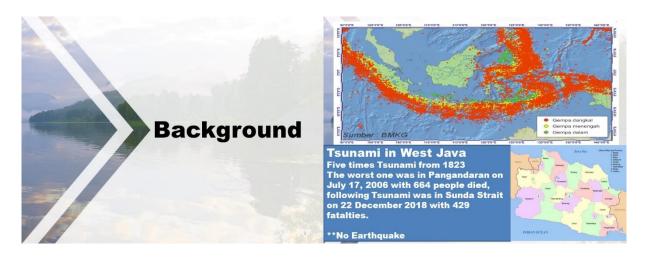
Yumarni, Tri (et.al). (2014). "Assessing Gender Vulnerability within Post-Earthquake Reconstruction: Case Study from

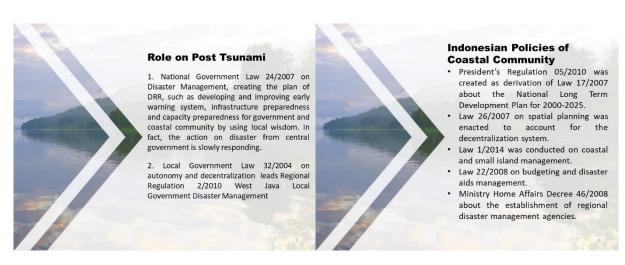


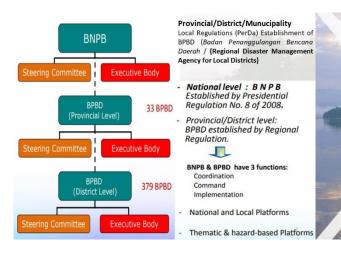
10. Local Government Initiative Practice on Post Tsunami in Coastal Community in West Java, Indonesia

Ms. Reni Juwitasari, Mae Fah Luang University, Thailand









During the recovery process, the local government can perform an emergency response phase as an initiative, divided into three sub-phases: 1) emergency preparedness, 2) emergency response, and 3) the transition period from emergency phase to the recovery phase (rehabilitation and reconstruction) phase (GFDRR, 2014).

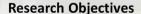
Disaster initiative recovery practice can be approached from two viewpoints: first, operational outlook. This includes emergency management approach, recovery support functions (RSF) and the National Disaster Recovery Framework; and second, outcomeoriented outlook. This includes policies and engagement that guide re-development.



Research Questions

This research rises two questions:

- 1. How does disaster recovery planning from the local government enhance coastal community resilience in West Java province?
- 2. How does the local government engage multi-stakeholder to bring resilience to economic recovery of the coastal community in West Java province?



This research is expected to:

- Elaborate operational and outcome-oriented disaster recovery planning initiative from the local government to enhance coastal community resilience in West Java province.
- 2. Expound the multi-stakeholder engagement committed by the local government to bring resilience to economic recovery of the coastal community in West Java province.

This research will apply the concept of resilience as the theoretical framework. Disaster resilience is part of the broader concept of resilience, which means the ability of individuals, communities and states and their institutions to absorb and recover from shocks, whilst positively adapting and transforming their structures and means for living in the face of long-term changes and uncertainty (UNISDR, 2005).

Disaster resilience concept act as a guiding principle behind an effective hazard risk management. Moreover, disaster resilience is determined by the degree to which individuals, communities and public and private organizations are capable of organizing themselves to learn from past disasters and reduce their risks to future ones, at international, regional, national and local levels (United Nations, 2007). Resilient communities will experience less damage and tend to recover quickly from disasters (Pedcris, 2012).



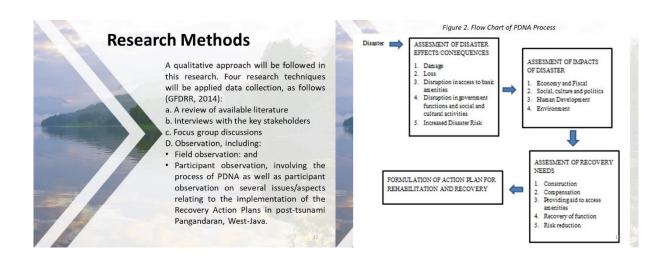


Coastal zones are critical to life and livelihoods, people and planet. They are conduits to trade, to communications, they provide resources and livelihoods, and they are often centers of economic growth (UNDP, 2018). However, coastal communities around the world are experiencing unprecedented change resulting from population growth in coastal regions and increased vulnerability to natural hazards. Resilient coastal communities plan for and take action to mitigate the risks from coastal hazards, increase the pace of recovery from destructive events, and adapt to changing environments (UNISDR, 2013). Furthermore, coastal communities are at the frontline of sea disasters, like Tsunami.

In post-disaster literature, the idea of turning the adversity of the disaster into an opportunity for achieving development is increasingly recognized (IFRC 2006, ERRA 2006b). A resilient coastal community is one that is prepared for a range of future scenarios and can adapt to change in a sustainable, integrated and inclusive way, at an acceptable cost. It is believed to be of importance for a successful disaster recovery to cease this "window of opportunity". Recovery efforts should, at minimum, ensure that communities become safer than they were before the disaster (Office of the UN Secretary-Generals, 2006). Moreover, the government can apply innovative solutions across all stages of the infrastructure planning cycle: from assessing risks to adjusting responses, if need be (OECD, 2018).

As the complicated act to be synergized, definitely local government, as main actor. has implemented the existed policy of disaster risk reduction. It will be measured the effectiveness of its implementation, moreover it will Monitoring and Adjusting also be described the initiative practice that have been implemented by local government. The main intended outcome of local government initiative practice is to minimize of destruction in the coastal area as well as community resilience (UNDP, 2010).





The following table provides information on the data that will be sought and the collection technique that will be applied.

Table 1. Data Collection and Technique

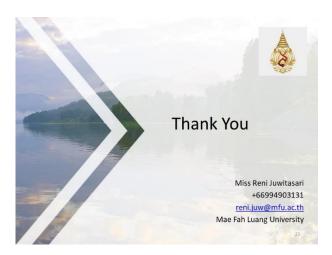
Data that will be sought	Main data collection technique
Regulations on institutional arrangement and policy framework on post-disaster recovery, e.g. the role of BNBP and other government ministries, the guidelines for disaster recovery, PDNA, Action Plan, Financing, monitoring, and evaluation of post-disaster recovery.	Review of existing regulations on post- disaster recovery such as national laws, government regulations of Head of BNPB among others
Planned priorities and recovery activities in post-tsunami Panganderan and Banten	-Review of Action Plans for Rehabilitation and Recovery post tsunami -Participant observation
Planned institutional arrangement, funding, monitoring and evaluation mechanism for recovery in Pangandaran and Banten	Review of Action Plans for Rehabilitation and Recovery post tsunami -Participant observation
and evaluation mechanism for recovery in	relevant BNBP officials at the national level and BPBD officials at the province and district level in West Java and Banten

The level of people's satisfaction with the recovery, programmes, can by the government and other actors.	Interviews with key stakeholders and/or focus group discussion with beneficiaries of recovery programmes. -Review of government documents regarding the recovery process. -Field observation
Inclusion of the community in the planning and implementation process, monitoring recovery programmes with regard to the inclusion of protection of vulnerable groups	relevant BNBP officials at the national level
Incorporation of DRR measures into recovery programmes.	

References:

- GFDRR. (2014). Institutionalizing Post-Disaster Recovery: Learning from Mentawai Tsunami and
- Merapi Eruption. Washington: The World Bank.
 IFRC. (2015). Strenghtening Law of Disaster Risk Reduction in Indonesia. Retrieved from https://www.ifrc.org/PageFiles/233375/Strengthening%20Law%20and%20DRR%20in %20Indonesia%20IND%20LR.PDF. Martin, Amanda. (2017). Enhancing Coastal Resilience through Long-Term Disaster Recovery
- Planning. Florida: Southeast Disaster Recovery Partership.
 Rafilana, I. (2014). Disaster Risk Reduction: A Retrospection on Post Tsunami in Aceh in 2004.
- Social Welfare Journal, 3(1), 48-60.
 OECD. (2018). Innovative Approaches to Building Resilient Coastal Infrastructure. Policy Perspectives, OECD Environment Policy Paper No. 13. Retrieved from: https://www.oecd-ilibrary.org/docserver/9c8a13a0-en.pdf?expires=1556459473&id=id&accname=guest&checksum=30BF7FE9677AB795E
- 9C53D732B7C073B Office of the UN Secretary General. (2006). Key Propositions for Building Back Better. A Report by the UN Secretary-General's Special Envoy for Tsunami Recovery, William J. Clinton on December 2006, retrieved from:
 - https://www.preventionweb.net/files/2054 VL108301.pdf

- Pedcris, M. Orencio and Masahiko, Fujii. (2012). "A localized disaster-resilience index to assess coastal communities based on an Analytical Hierarchy Process (AHP)". Japan: Hokkaido
- University
 UNDP. (2018). Innovative Finance for Resilient Coasts and Communities. A briefing paper prepared by the Nature Conservancy and the UNDP for Environment and Climate Change Canada. Retrieved from:
 - https://www.undp.org/content/dam/undp/library/Climate%20and%20Disaster%20Re silience/Climate % 20 Change/Innovative % 20 Finance % 20 For % 20 Resilient % 20 Coasts % 20 and % 20 Communities, pdf
- UNISDR. (2016). Sharing Innovations to Improve Implementation and Reporting of the Sendai Framework for Disaster Risk Reduction 2015-2030. Launching UNISDR Science and Technology Partnership and the Science and Technology Road Map to 2030. Geneva International Conference Centre, 27-29 January 2016.
- UNISDR, (2013), Coastal Community Resilience, National Disaster Training Preparedness Center UNISDR. (2013). Coastal Community Resilience. National Disaster Iraining Preparedness Cent (NDPTC). Retrieved from: https://ndptc.hawaii.edu/training/course_delivery/468 United Nations. (2007). Hyogo Framework for Action 2005 – 2015: Building the Resilience of Nations and Communities to Disasters. Extract from the final report of the World Conference on Disaster Reduction (A/CONF.206/6).
- Walker, W. (2000). Policy Analysis: A Systematic Approach to Supporting Policymaking in the Public Sector. *Journal of Multi-Criteria Decision Analysis*, 9(11), 11-27.



Brainstorming on joint research proposal

1. Gender, Vulnerability and Resilience: Planning, Acting and Educating for Disaster Risk Reduction





















