Gender Summit 10 Asia Pacific 2017

Parallel Session 1
Participation from Women's Participation in Science, Technology and Innovation

Importance of Women's Perspectives for the Re-union of Community after the Great Disasters

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Gender in Town Planning

Gender in City & Regional Planning is one of the basic issues in our society. Especially, when great disasters occurred, it will take significant roles for surviving community.

The author will talk about six years' experiences about the community-based reconstruction from Great East Japan Earthquake Disaster which was occurred in March, 2011.

The target town is Iwanuma City, Miyagi-pref., Japan.

The community-based reconstruction



the process of social, environmental, and cultural reconstruction

for community,

carried out by disaster survivors with the support by municipality and others.

Great East Japan Earthquake

Great East Japan Earthquake

Date: March 11. 2011 dead 15,879 missing 2,712

Completely
destroyed Houses
130,000
Partially
destroyed Houses
265,000



Radiation Accident Fukushima



Many traditional Local Communities









The Great East Japan Earthquake (March 11, 2011) Iwanuma City, Miyagi Pref.



Problem: Alluvial Flats area No higher land to escape





Method

1) Time

Analyze the reconstruction process based on time.

2 Stakeholders and Activity

Clarify stakeholders in each stage, and analyze its roles and activities.

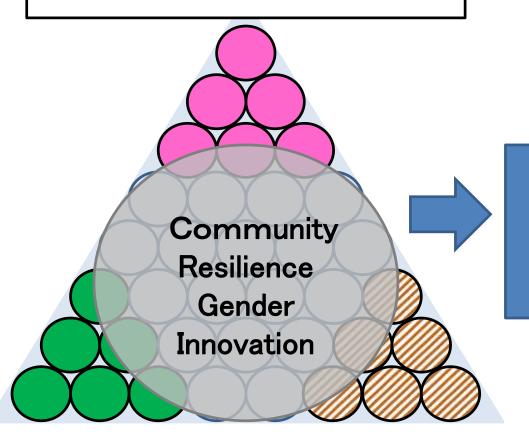
3 Planning & Design

Environmental, social and cultural aspects.

4Implementation

Clarify women's roles for the reconstruction of community.

Social Resilience



Sustainable Society

Environmental Resilience

Cultural Resilience

Social Overhead Capital

Reconstruction Process and Roles of Different Stakeholders

	Immediate Action	Stage 1 Grand Design	Stage 2 Citizen Workshop	Stage 3 Formal Committee	Stage 4 New Machizukuri	Stage 5 Innovative Community Activities
Period	March 11-31 2011	April-Sept. 2011	Oct. 2011- June 2012	June 2012- Nov.2013	Jan.2014- July 2015	Aug.2015-present
Survivors	Communal Support	Join to the Reconstruction Committee	Free Participation	Join to the formal Committee run by City	Create new Community Association	Develop Community Activities
Role of City	Set up Refugee Center based on traditional community	Support Corrdinate	Observer	Organizer	Observer	Supporter
Role of Various Stake- holders	Various Support from All over Japan & international Society	University: Leading role to create grand design	University: Leading role to run WS Active support on Agriculture	University : Adviser Active supports on Agriculture, Creating forest	Collaborator	Collaborator
Gendered Innovation	Women's Association for Preventing Disasters took Immediate action	Equal representatives to committee Starting Small Agriculture	Free Participation Active work on Small Agriculture together with IT supporters	Lead the dual decision making system between formal committee and traditional community	Start to create new community activities in removed site Greening small parks, gardens, Igune (Community forest) Community forest for elders	Establish new Women's Preventing Disasters Association Start to create new forest in sea shore, where they lived before Helping other community, utilizing their Knowledge

Immediate Action

Mach 11- April 11, 2011

City: Set up the Refugee Center based on the traditional community

Women's Activity

- 1.Support the family ,especially children , elders and handicapped people.
- 2. Women's Association for Preventing Disasters took the immediate action for providing food.

Stage 1 Grand Design (April-Aug, 2011)

<7 Goals>

- 1: To Setting up temporary houses as soon as possible for the survivors.
- 2: Finding a suitable location to for the re--establishment of the six villages
- 3: Revitalizinge agriculture as a first priority
- 4: Create new employment using the advantages of the city's airport
- 5: Promote natural energy projects
- 6: Develop a system of multiple defense system against tsunami by creating <u>a</u> "Hill of Hopes for Thousand Years_Hill of Hope" on coast
- 7: Revitalizinge the cultural landscape as the city's identity.

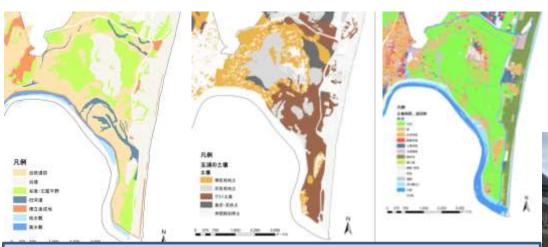
Gendered Innovation

- 1. Equal Representatives to the Reconstruction Committee
- 2. Promoting Small Agriculture as a first step

To find the appropriate place to move, based on the experience of tsunami and scientific analysis

Vegetation

Micro Geography is essential for weakening the power of Tsunami
Based on the hearing of many experiences of survivors from Tsunami
Identify the landscape unit for the principals of land use plan



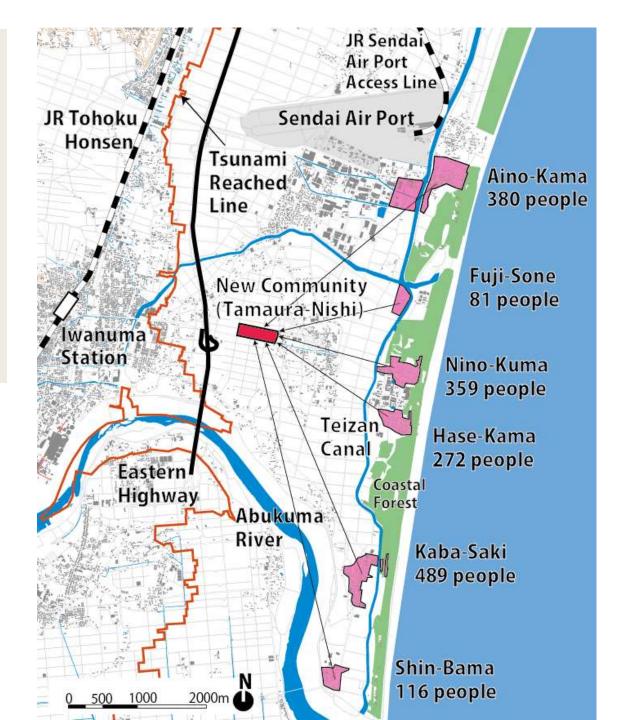
Soil

Micro geography





Iwanuma City Miyagi Pref. Japan



Small Agriculture for Tomato



Stage 2 Free Workshops (Oct.2011-June 2012)

Survey









Workshop: Discussion & Presentation





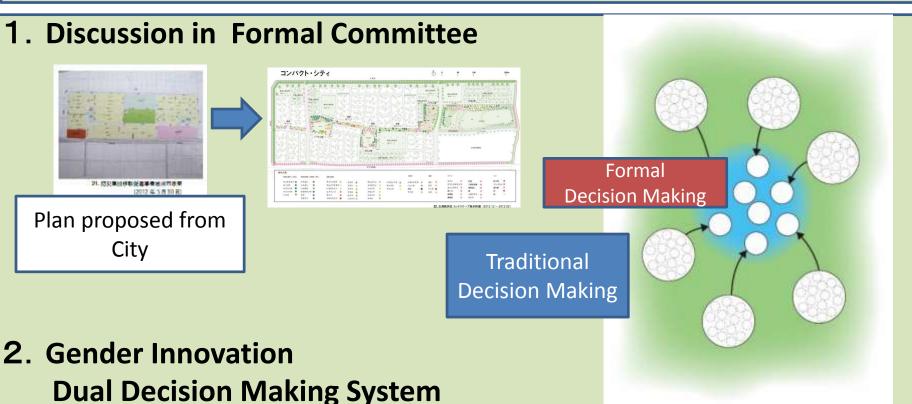
Completely free workshop, run by the University.

Many women had a chance to speak out their opinion.

Free Workshops



Stage 3 Formal Committee & Many Activities (June 2012--Nov. 2013)



Modern system and Traditional system work together. In both system, women took the important roles. However, especially in traditional decision making system, women took the initiatives.

Creative Activities
For community
Opening
"Everybody's
House" July, 2013

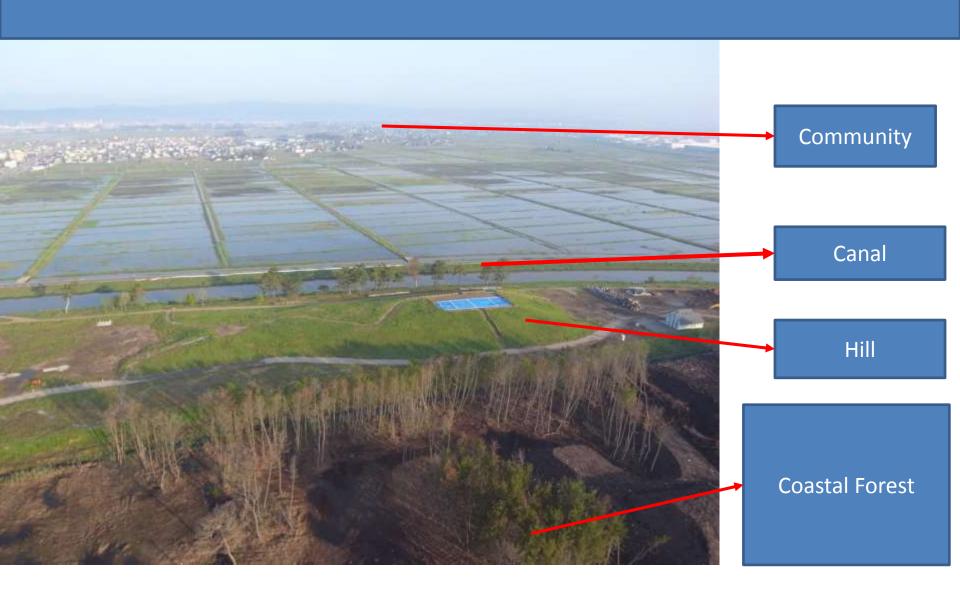
Small Agriculture

Meeting Place for mothers

and children



Multi-Defense System for safe city



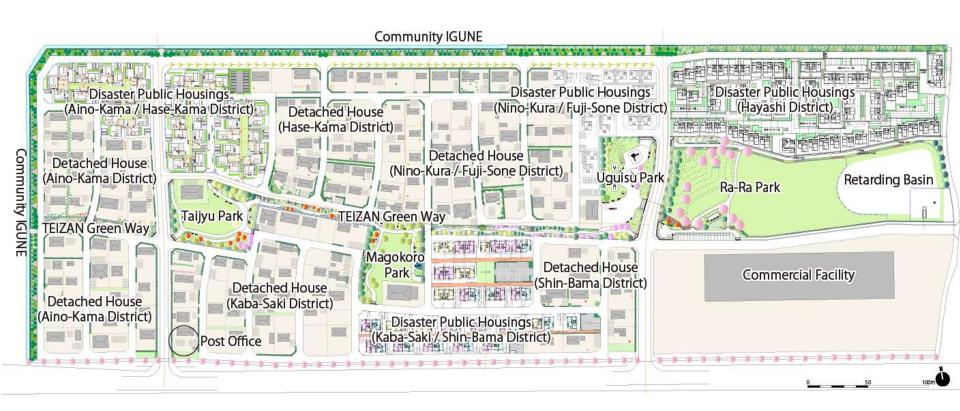
Multi- Defense System
Planting Coastal Forest
Thousand year hill of Hope
June 9, 2013



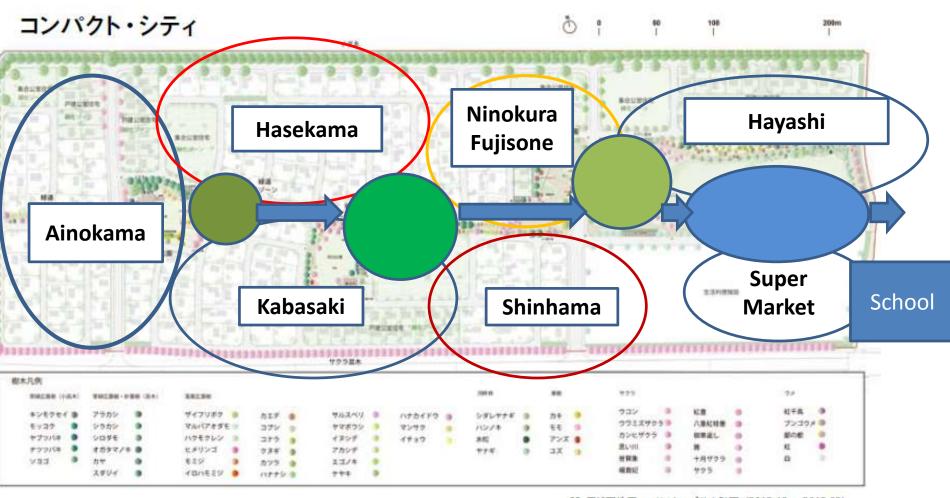




Stage 4 New Machizukuri (Town Planning) (Jan. 2014~July 2015)



Keeping the tie of Community



22. 玉浦西地区 ランドスケープ基本計画 (2012.12~2013.02)

Creating Commons Aug. 31, 2014 July 26, 2015









Creating Community Festival by Children



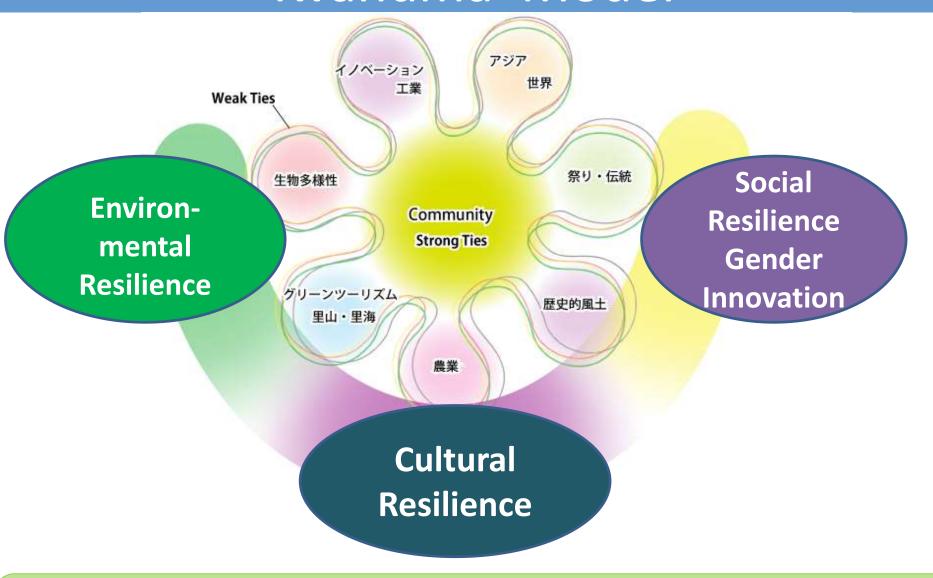




Stage 5 Innovative Community Activities (Aug. 2015~)

- 1. Many activities, utilizing Commons
- 2. Re-establishment new Women's Preventing Disasters Association
 - 3. Creating new forest in sea-shore where they lived
 - 4. Helping other community

Iwanuma Model



Various Gender Innovation in each stage works

Conclusion

- In this presentation, I have analyzed the characteristics of the ccommunity-based reconstruction from the Great East Japan Earthquake, carried out by disaster victims with the support of the municipality and others and clarified the characteristics and evaluated them through the lens of gendered innovation.
- As a result, this research has clarified the process in immediate stage and following five stages. The first stage is the establishment of grand design; the second is citizen free workshops; the third is the formulation process carried out by the municipality, the fourth is the creation of a new Machizukuri (town planning), and the fifth is diverse community activities.
 - In each stage, gendered innovation was introduced to play diverse roles.
 When the community faced huge crisis, the most important things were to set the proper goals, to figure out means of implementation, and to create a system of consensus building, and to reach real implementation
- Finally, the gendered innovation took the significant roles on social resilience. The
 combination of environmental, social, cultural resilience would produce the power of
 community, and which leads the sustainable society