

# Risk Communication and Experiencing Learning for DRR: Initiatives of Kyoto University

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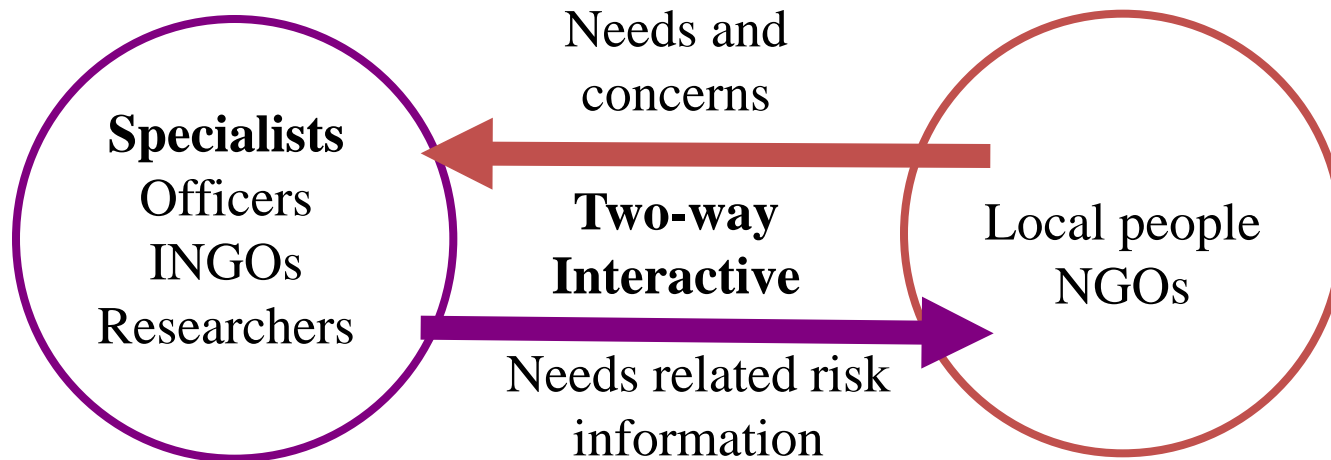
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# Risk Communication Framework

**Information sender**

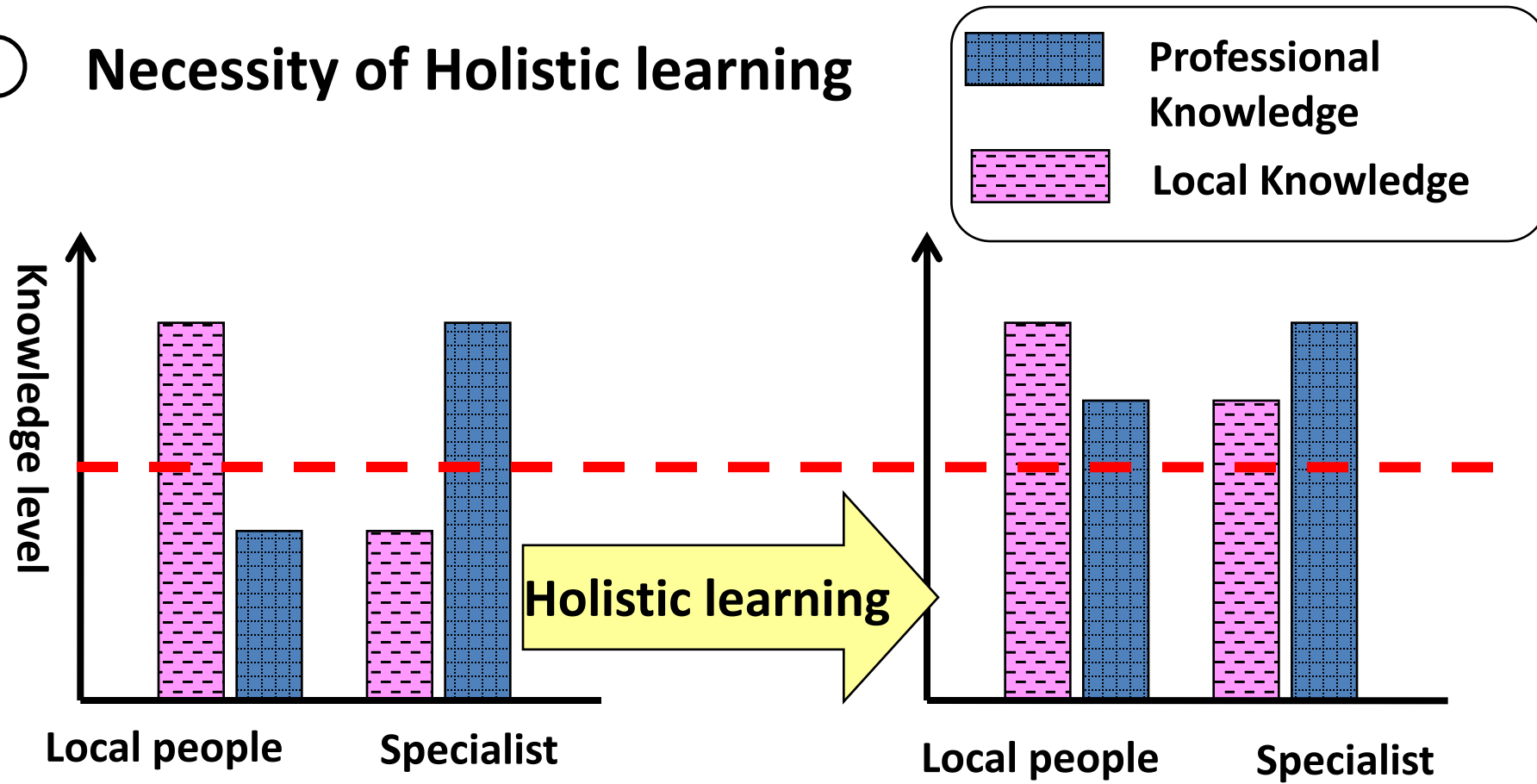
**Information receiver**



(Modified form Kikkawa, 1999)



# ① Necessity of Holistic learning



## ② Necessity of Facilitator (Takeuchi, 2006)

## ③ Trust with Communities (Hovland, C. & Weiss, W, 1951)

**Study** through

## **Lecture**

### **Purpose:**

Understand about  
**general knowledge**  
(Mechanism of disaster,  
disaster history, past  
disaster etc.)

### **Tool:**

Text book, Video,  
some document.

### **Implementer:**

School teacher  
Instructor etc...

**Learn** through

## **Experience**

### **Purpose:**

Understand **local issue**,  
history and  
environment.

### **Tool:**

Town Watching  
Interview  
Visit to Museum  
Disaster drill

### **Implementer:**

Specialist  
High experience person

**Learn** through

## **Presentation**

### **Purpose:**

Understand **own issue**.  
Make action plan

### **Tool:**

Some WS tool

### **Implementer:**

Student  
individual



# Framework of Regional Watching

## Understanding of River Basin

### Mountain Watching

- Understanding about region and environment, land slide and role of forest.
- Build up network in Community



### Town Watching

- Understanding about region and environment, Flood disaster and Earthquake disaster.
- Build up network in Community



### Coastal Watching

- Understanding about region and environment, Tsunami, storm surge and role of forest.
- Build up network in Community

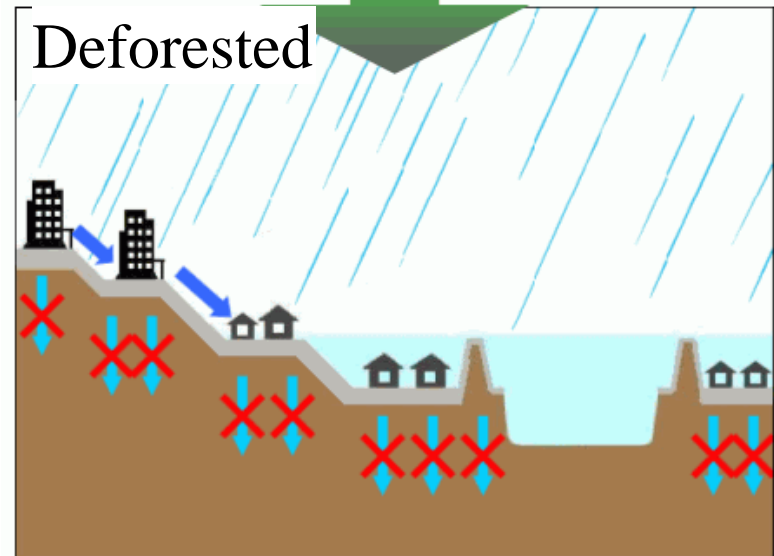
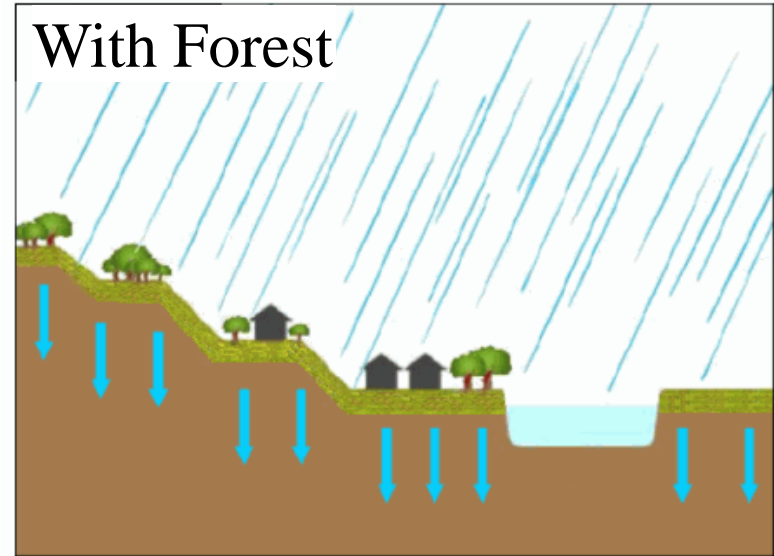


# Understanding of Mountain and plain linkage



<Using Material>

Sponge/ Bucket/ Plastics Sheet/  
Plastics Box/ Sprinkling can/ Water





# Understanding of Mountain and plain linkage

① check sponge



② Rain water



③ check bucket

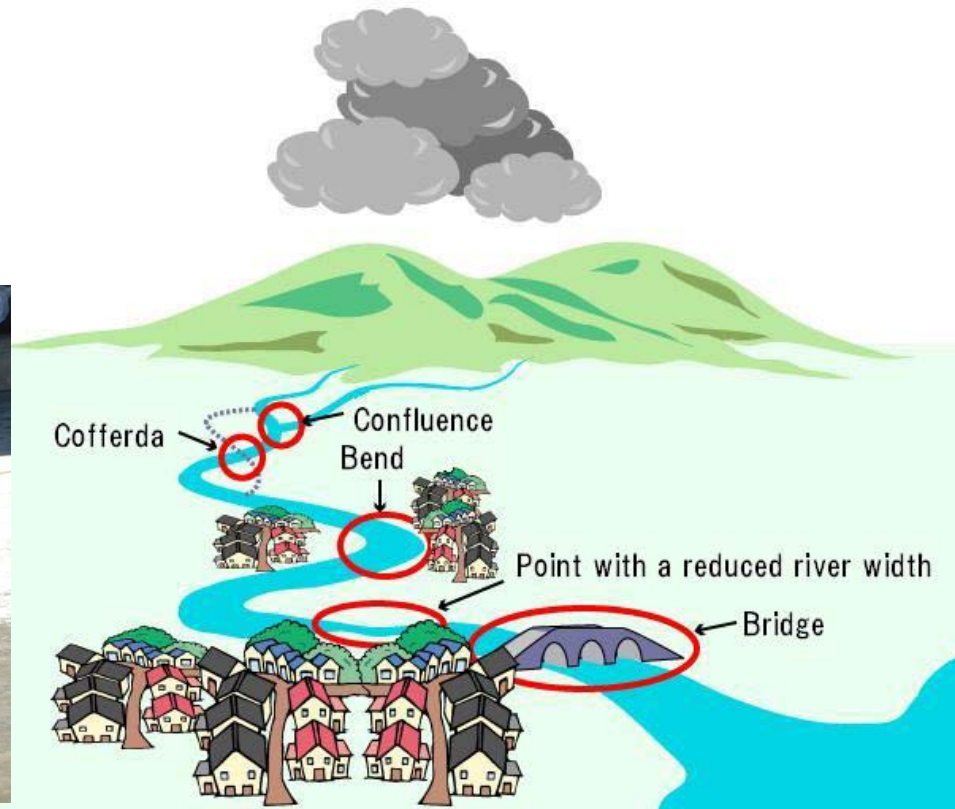


④ Rain fall again with sheet





# Understanding of River Meandering and Bending



<Using Material>

Hose/ banana tree's skin/ Bucket or Plastics Box/ Water



# Understanding of River Meandering and Bending

① usual time (one river)



② excessive rainfall (one river)



③ meeting points of two rivers



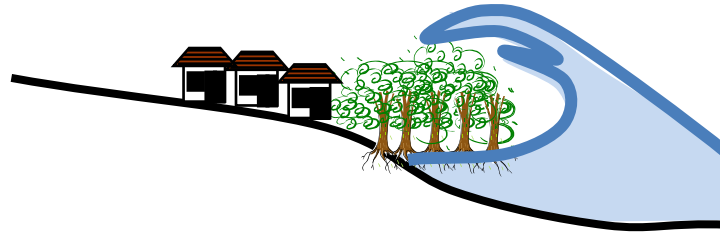
④ the river is meandering



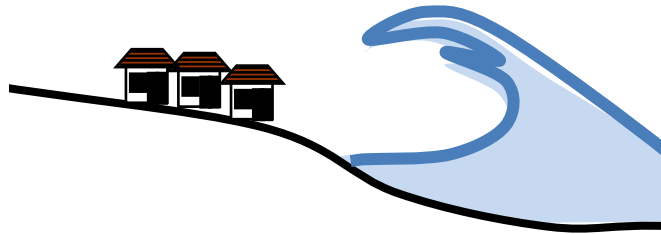
# Demonstration about Tsunami

## Understanding of Mangrove and Wave

With Mangrove



Without Mangrove





① Without Mangroves



② With big wave



③ Set the Mangroves



④ With big wave



To enhance **experiencing learning** in DRR, Kyoto University is hosting:  
**Asian University Network of Environment and Disaster Management**  
(AUEDM): **[www.auedm.net](http://www.auedm.net)**



- Higher Education on Disaster Risk Reduction
- Research on different learning tools
- Networking and experience sharing





## University Education

## Research

## Field Practice

### Global

#### Teaching

#### Media

#### Experience

#### Traditional

#### Teaching

#### Media

#### Experience

#### Traditional

### Local

- Multi disciplinary nature of disaster education
- Disaster education should go beyond university boundaries
- HFA (Hyogo Framework for Action 2005-2015) pledge for higher education and research in disaster risk reduction

- Research should be field based and action oriented
- Research results need to be linked to implementation

- Research should incorporate wider stakeholders and should not be confined only to the academicians

- Field practices mainly focus on traditional and indigenous knowledge existing in the communities
- Field observations need to be linked to local and national government policy and decision making
- Research on validation of field practices is an important issue

## Target of AUEDM

- ▶ To share and work together (bilaterally and/or multilaterally) in promoting environment and disaster management in higher education (focusing on, but not restricted to, post-graduate education)
- ▶ To seek possibilities of mutual collaboration on field-based action research
- ▶ To broaden the scope of education and learning in the environment and disaster management field through collaboration with other stakeholders like NGOs and local governments

Thank You  
Very Much!!!

Additional  
Information:

[www.iedm.ges.kyoto-u.ac.jp](http://www.iedm.ges.kyoto-u.ac.jp)  
[www.auedm.net](http://www.auedm.net)

