

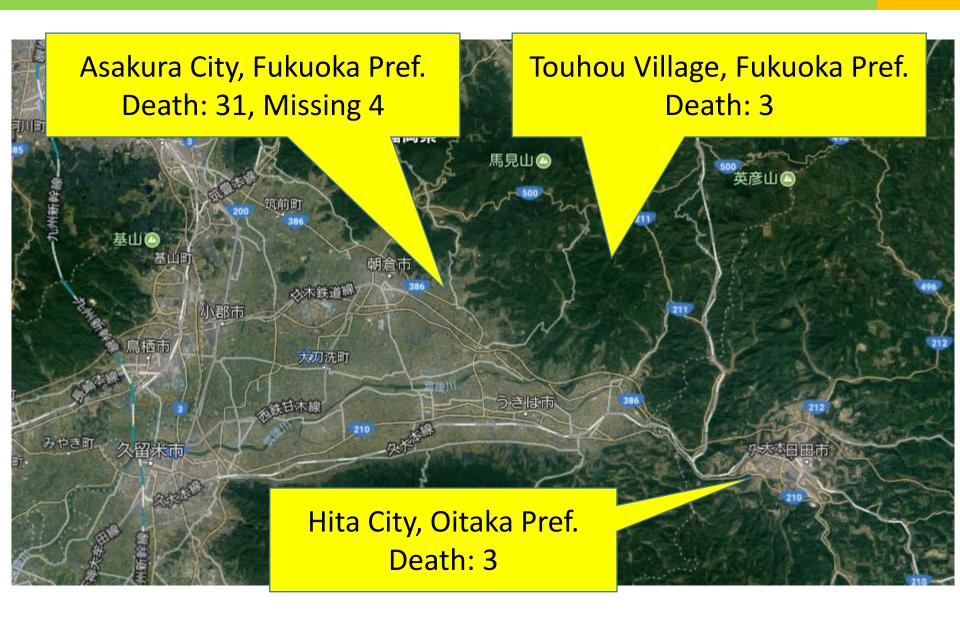




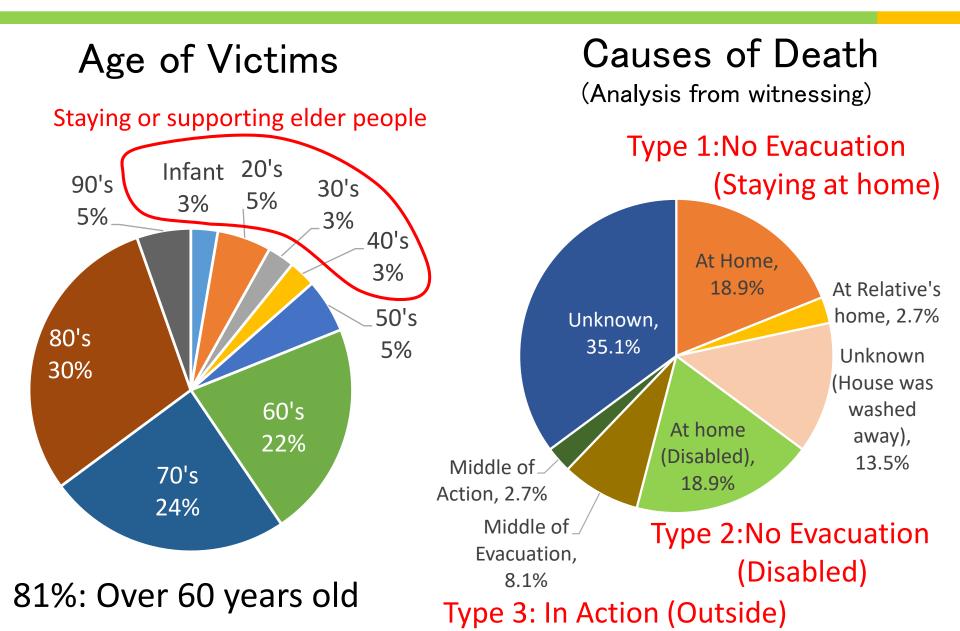
Platform on Water and Disaster -Community-

Miho OHARA (International Centre for Water Hazard and Risk Management (ICHARM), Public Works Research Institute (PWRI), Japan

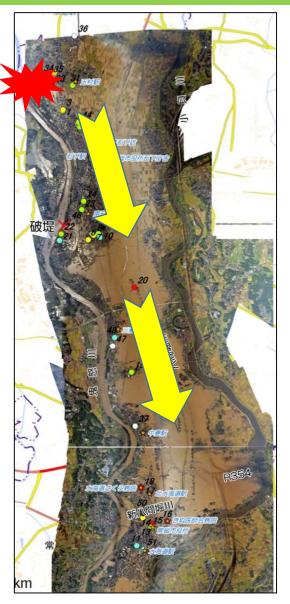
41 Victims due to Severe Rainfall at Northern Kyusyu, 2017



37 Victims due to Severe Rainfall at Northern Kyusyu, 2017



Kinu River Flood in Joso City (Sep, 2015)





- -Dyke Breach at 12:50 on Sep 10, 2015
- -Total Inundated area: 40km (1/3 of Joso City)
- -Death:2 (Total population: 61,483)

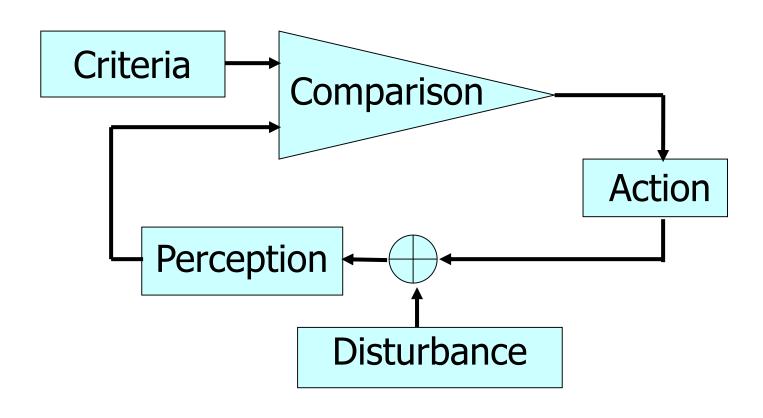
Kinu River Flood in Joso City (Sep, 2015)



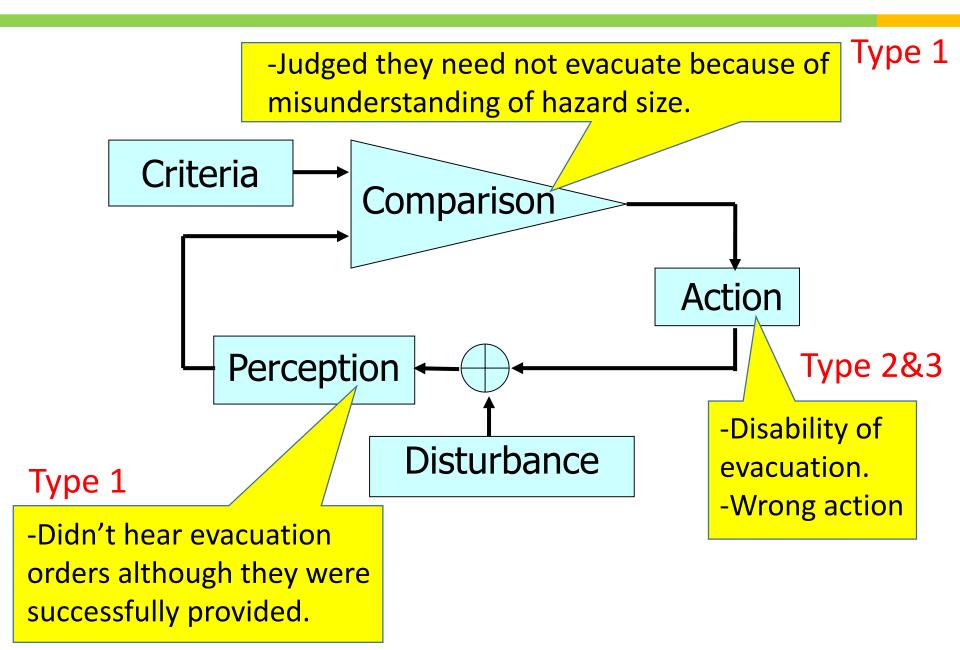
Why didn't people evacuate??

Human Behavior Model

By Atsushi Tanaka



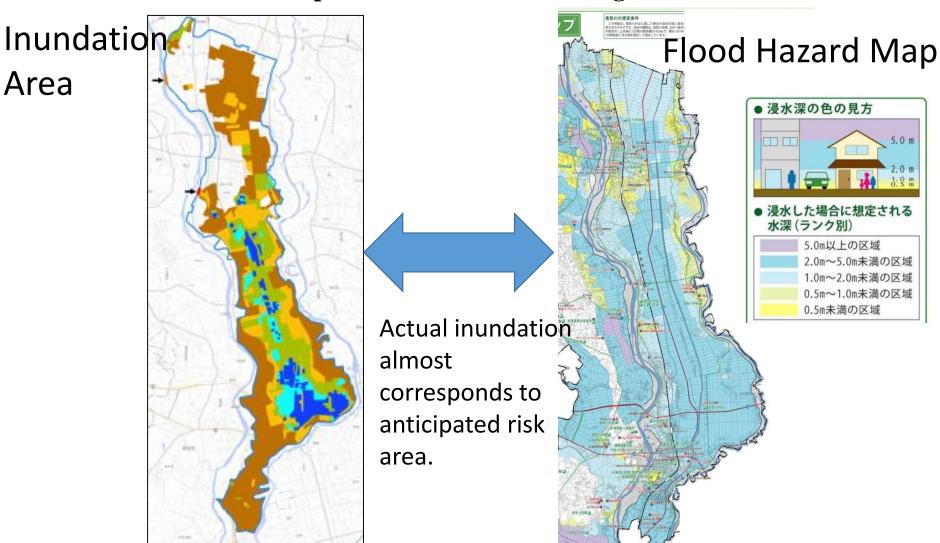
Why people didn't evacuate in Northern Kyusyu



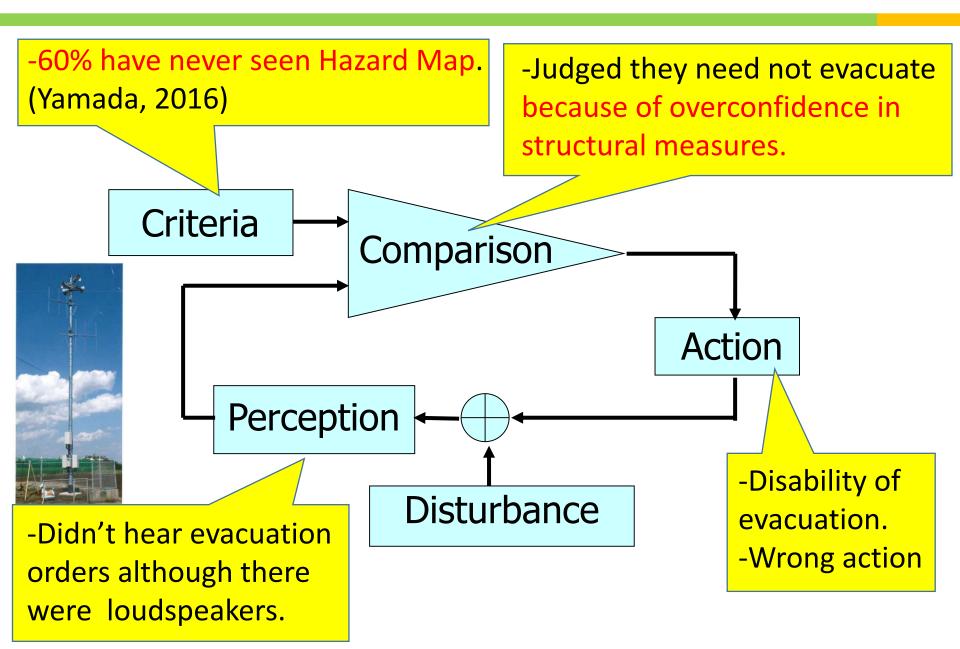
Kinu River Flood in Joso City (Sep, 2015)

Flood Control Act:

Governors of prefectures must publish flood hazard map and announce expected water level to local governments.



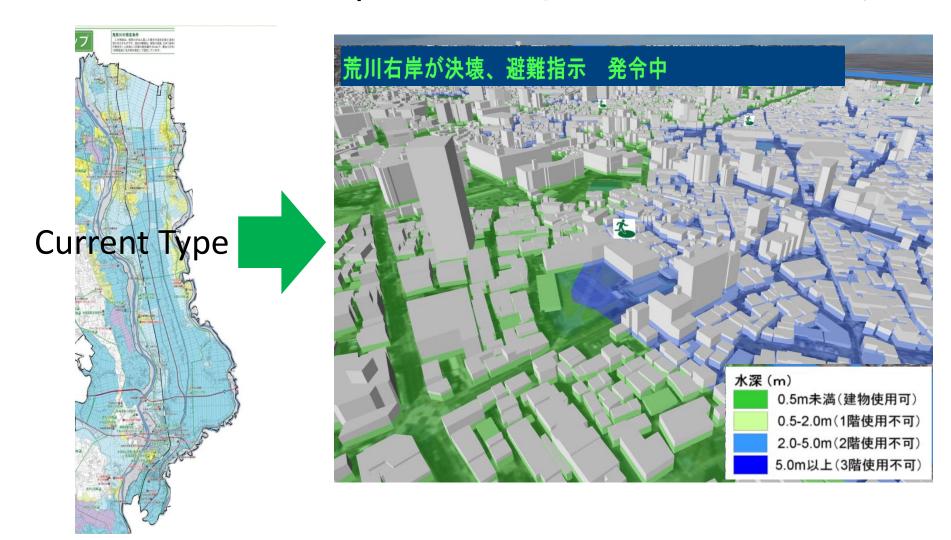
Why people didn't evacuate in Joso City



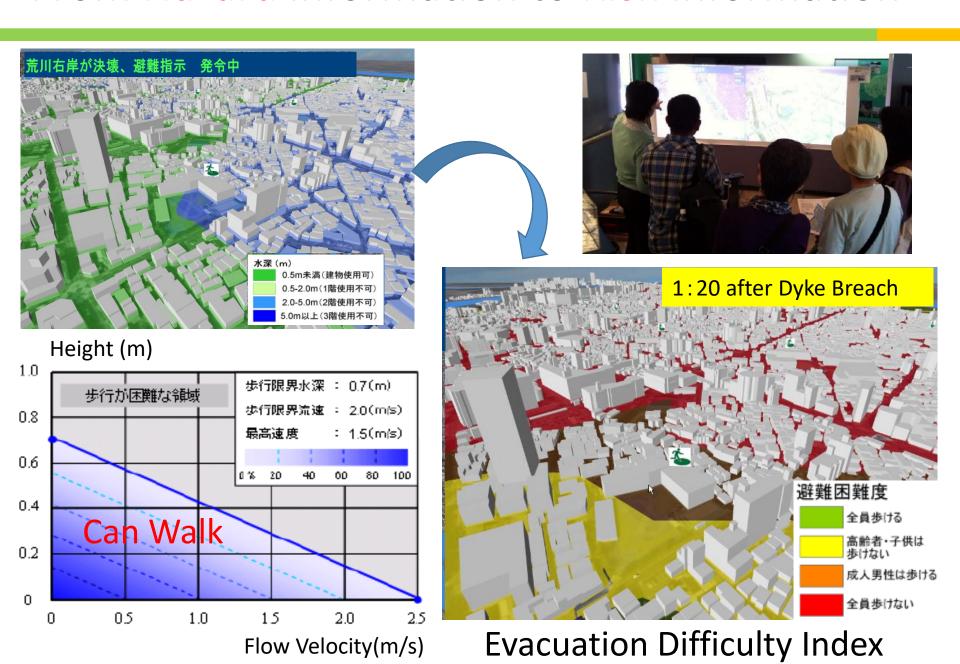
Necessity of More Effective Tool for Disaster Imagination

2D Static Hazard Map

3D Dynamic Hazard Map



From Hazard information to Risk Information



Risk Assessment Activity in the Philippines

Pampanga River Basin:

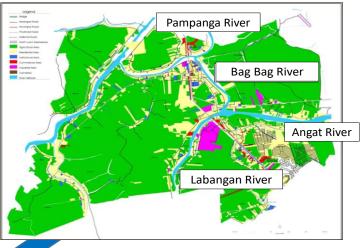
Catchment Area: 10,434 km²

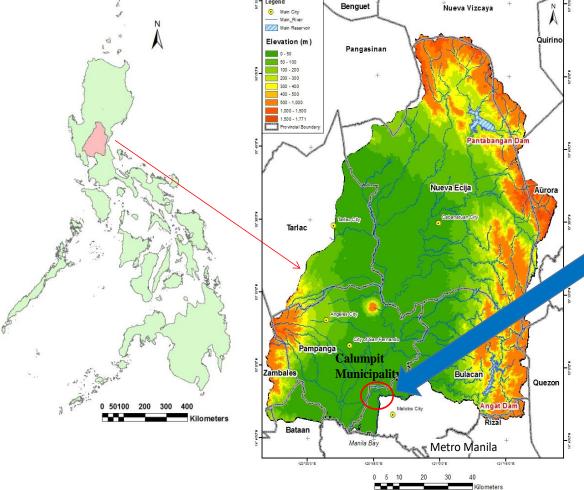
River Length: 260 km

Calumpit Municipality:

Population: 112,007 Households: 22,402

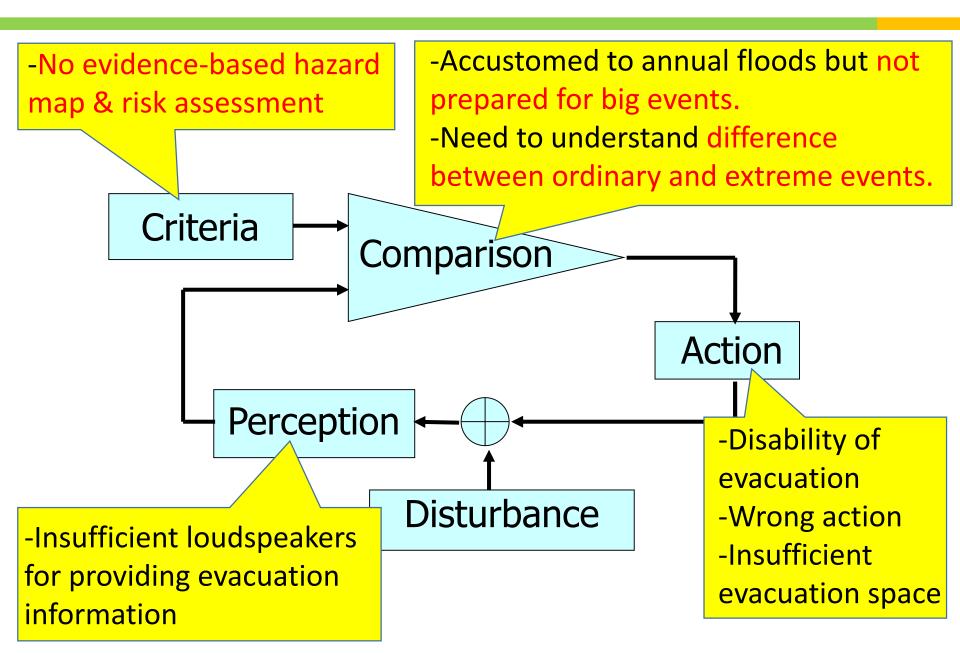
Area: 5,625 ha



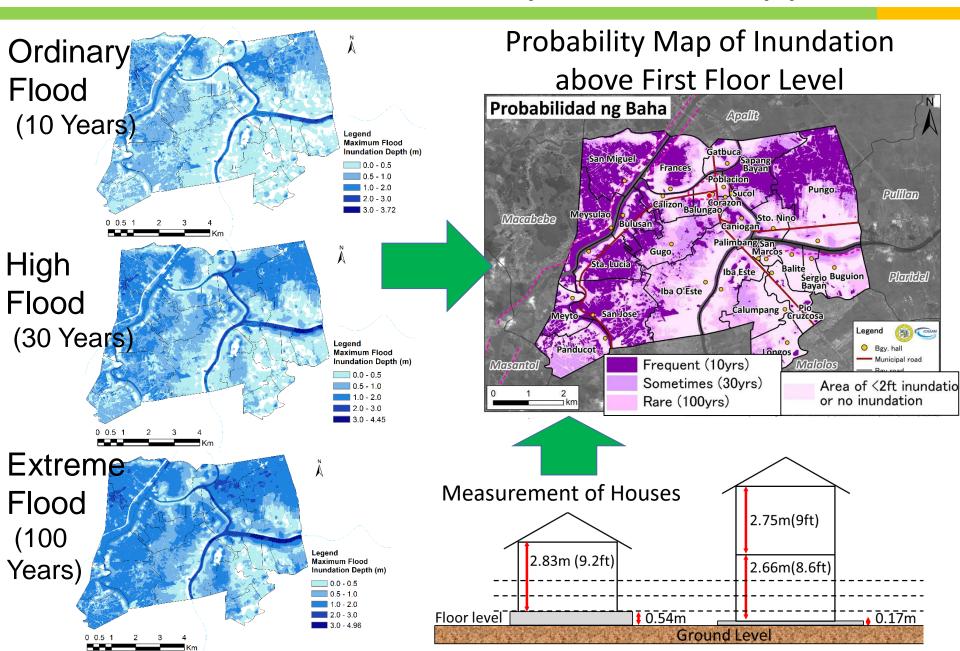




Why people didn't evacuate in Calumpit



Risk Assessment Activity in the Philippines



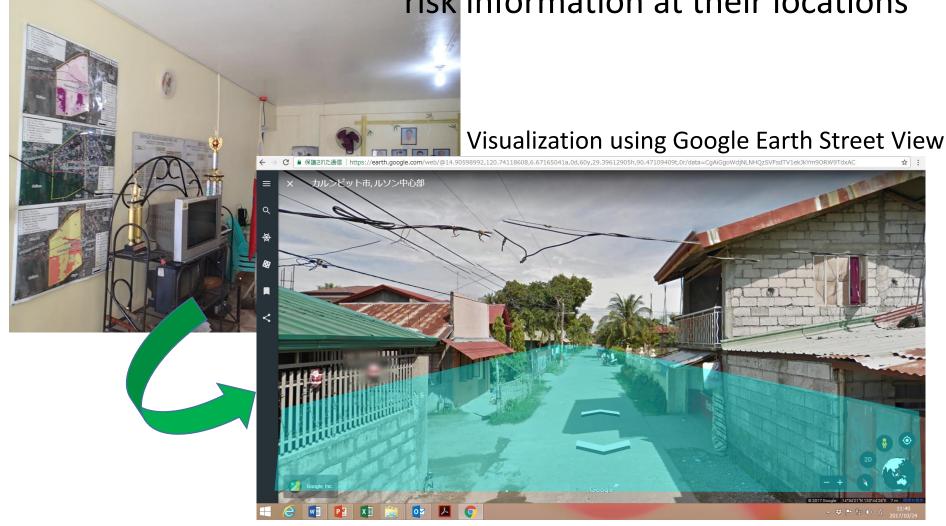
Sharing risk assessment results with people

Community Workshop



Next Step: Information platform for understanding risk

From Paper to ICT Tool which can provide more realistic risk information at their locations



Information & Data & Organizational Platform

Information Platform

Data Management
Platform

<mark>O</mark>rganizational Platform



Platform on Water-related Disasters