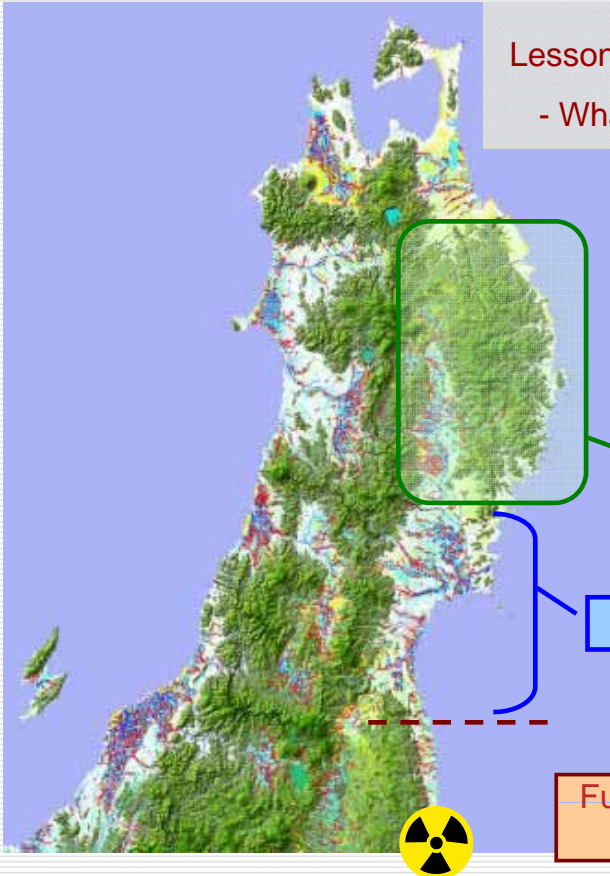


Lessons from the 2011 East Japan Earthquake
 - What needed for regional reconstruction -



ISAP 2011

26 July 2011

Prof. Katsumi FUJII
 President, Iwate University

Iwate Pref.

Miyagi Pref.

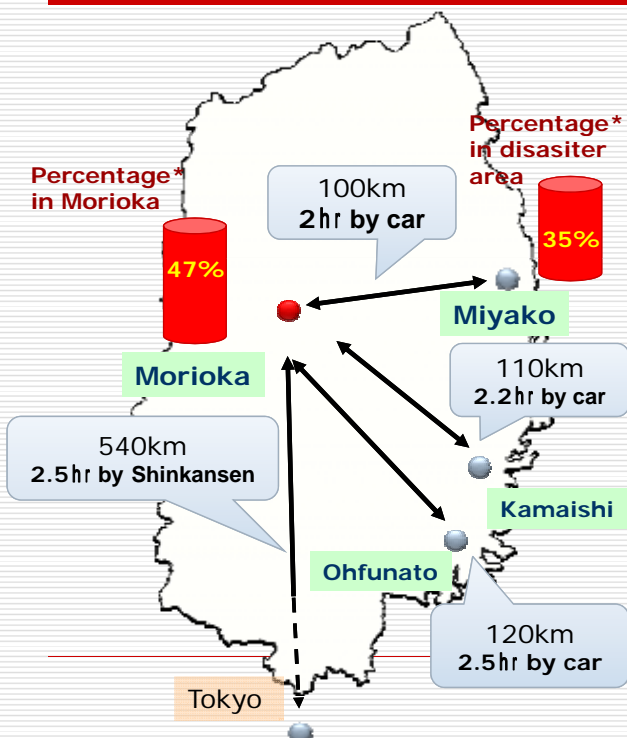
Damage was severely caused by **"Tsunami"**

4,500 victim (in Iwate)

15,500 victim (total)

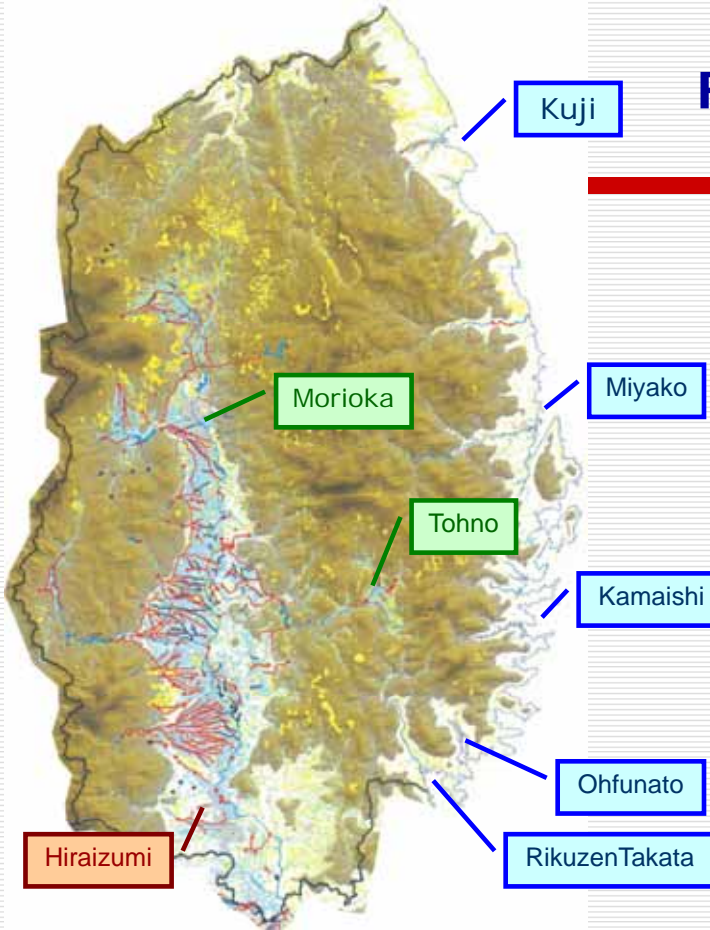
Fukushima Pref.

The percentage* of students who advance to higher education stays 35% for disaster area, but it reaches 53% in Japan



Regional gap is widening, in traffic conditions, in industrial and social structure, e.g. population ageing, in educational, medical and welfare conditions.

Disaster would enhance these regional gaps?!



Fishery in Iwate Pref.

111 fishing ports scatter on 150km coast line, 108 ones were severely damaged.

About 10,000 fishermen organize 24 cooperative associations.

They produced 45.3 billion yen in 2008, 31.4 by fishing and 13.9 by farming.

Marine resources are primarily managed by fishery associations as "Commons".

Hiraizumi

Kuji

Morioka

Miyako

Tohno

Kamaishi

Ohfunato

RikuzenTakata

Forestry:

neighboring forest commons are open to community

Agriculture:

irrigation facilities for paddy field are managed by community

— : canals

Cooperative management system of common land and facilities by rural communities

Traditional system from 19C.

Fishery: cooperative associations have priority of coastal fishing rights over private sector
To prevent **over-fishing** of limited resources
As a countermeasure to "**tragedy of commons**"

Kuji

Miyako

Morioka

Tohno

Kamaishi

Ohfunato

RikuzenTakata

Hiraizumi

East Japan Great Earthquake (11 Mar.2011)

Reconstruction Headquarter (1. Apr.2011) Iwate Univ.

Absent-minded Stage **Exciting Stage**

- ❑ Confirmation of Safety and Damages
- ❑ Change of Academic Schedule
Classes delayed their start almost 1 month.
- ❑ Supports to suffered students
- ❑ **Prompt responses** were forced without exclusive information, just after disaster.
- ❑ **Out of reality and sensibility** on hunger, fear, ...
- ❑ Lack of information and experience of great disaster

vigorous & patient



Iwate Univ. Campus (Morioka city)

To stand up not from personal activities, but as **rural community work...**



Questioning on individual view of life, Seeking for optimal social system to the future

- ❑ Over-dependence on abundant energy

Advantage of Non-electrical Low-tech device

- ❑ Reduce the waste in production and transportation

Too slimmed up Supplying Chain is fragile

- ❑ Pursue the efficient, concentrated and unique system

Gaps are expanding

Tokyo ~ Tohoku ~ Morioka ~ **Suffered Coast**



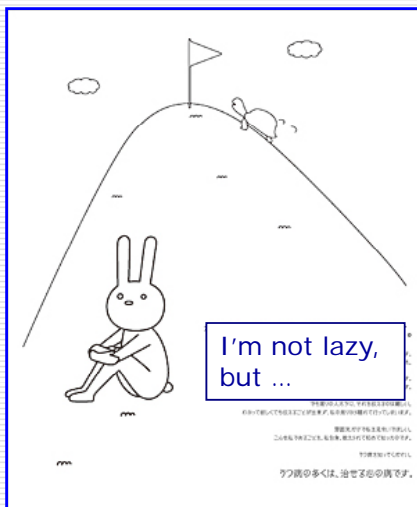
- ❑ **Advantage of self-consistent, decentralized and collaborative system**

Redundancy leads to robustness and solidity of total system
Importance of Social Diversity

Respect and Tolerance to individuals

Absent-minded Exciting Depressed Stage (2.5month ~)

Importance of Imagination and Acceptance



Mainichi advertisement Grand prix 2010

Understanding of the Partner's Mind is difficult



Polish up the hidden part!

Yomiuri advertisement Grand prix 2010

Development of Underlying Ability is important



Bravo! Japan Women Football Team
Team's pass work prevailed over personal power

Iwate university will take an active
role of **intelligent base** for regional
reconstruction



宮澤賢治



旧盛岡高等農林学校本館(重要文化財)