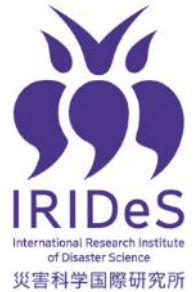




Tohoku University DRR Actions
Contributing to Global Disaster Resilience



APRU

Workshop on Building Disaster Resistant University

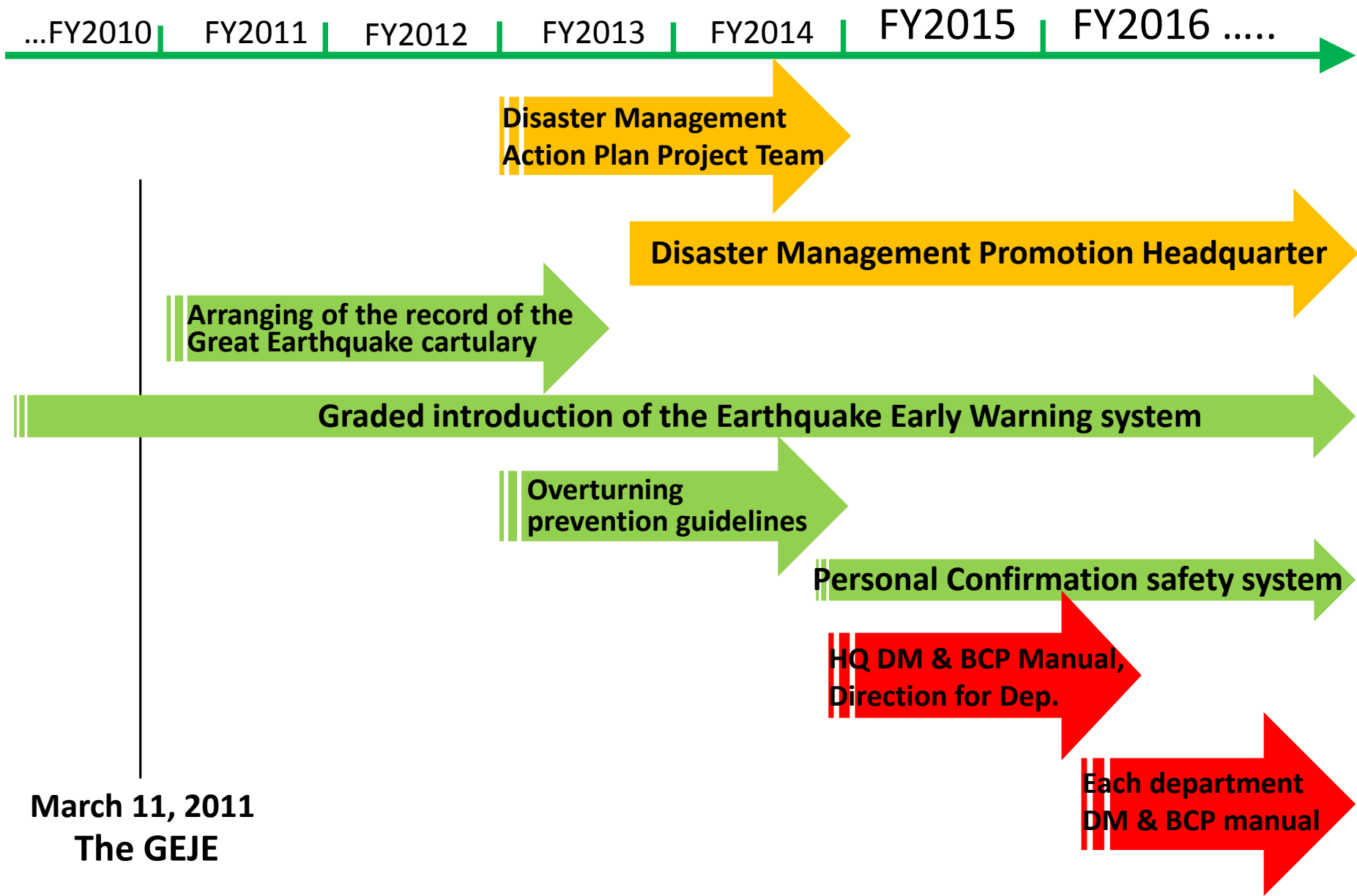
Case Study 1

Tohoku University, Japan

2016.2.2

Hiroaki MARUYA, Dr. Econ
IRIDeS, Tohoku University

3.1 History of Disaster Management of Tohoku Univ.



3.3 Concept of BCM & BCP

- **BCM** (Business Continuity Management): To facilitate rapid recovery and restoration of critical operations with minimum interruption.
- **BCP** (Business Continuity Plan): Documented procedures and instructions to realize BCM
- Late recovery cause serious problems :
 - 1) Losing customers,
 - 2) Decline in market share,
 - 3) Serious social inconvenience,
 - 4) Negative impact on an organization's reputation.
- Recognize ‘permissible limit of recovery time’, and recover before the “Recovery time objective (RTO)”
- Keep the operational degree above the level of permissive limit. “Recovery level objective (RLO)”

3.4 Disaster Response and Business Continuity Plan (BCP) of Tohoku Univ.

Disaster response operations

~ Present DM manual partly covers

Necessary only in the time of disaster

→ Chosen from the character and the experience of the GEJE of Tohoku Univ.

Ordinary time operations that should be continue

~ Additional items by BCP

That should be continue even in the time of disasters

→ To consider the effect of stoppage of each operation and to prioritization

To confirm whether the indispensable resources for each critical operation are secured at each timing

- To secure the indispensable resources by countermeasures in presence
- To educate and train the professors and staff to be able to act in the time of disasters
- Periodically check and improve when any changes occur including personnel change

3.5 Method for Critical Operation List

- Critical operation = Disaster response operations + Necessary operations that should be continued at the time of disaster



3.6 Tohoku University's Critical Operations with Seasonality

It is the characteristic of the university that the critical operations has seasonality.



■ Exit Examination

- For undergraduate and graduate (January, February)

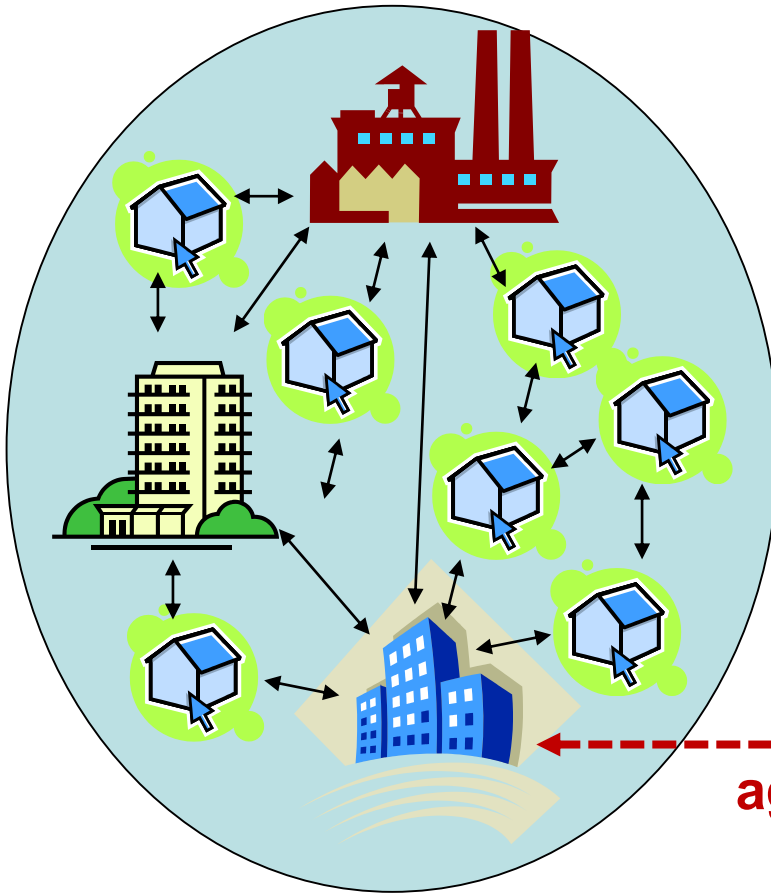
IF postponed, serious effect on students and organizations to accept them

■ Entrance Examination

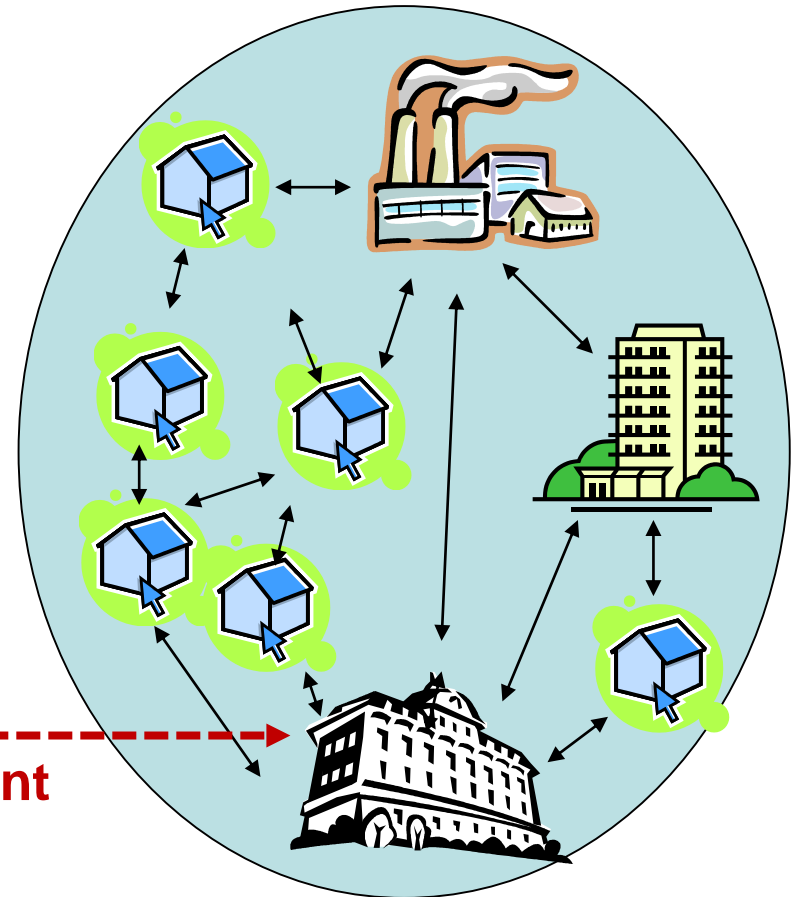
- For undergraduates (February, March)
- For graduate students (September – November)

IF postponed, lose good quality students and university fees (income)

3.7 Future Plan: Agreement with Other Universities Located in the Distant



**Interdependent in an area
for Business Continuity**







**Interdependent in an area
for Business Continuity**

agreement

4.1.1 Fire Drill of Tohoku Univ. Administration Bureau at Oct. 9. 2015



凡例:  総長・理事・副学長席  部課長席
 災害時優先電話  衛星携帯電話

4.2.3 BCP Exercise of Tohoku Univ. Exercise of Disaster Management Headquarter (1)



4.3 Problems that was discovered in the exercise

- The room of the Disaster Management Headquarter (DMH) was too small. Persons faced hard to move in the room during the exercise.
- The extension (telephone) was usable at first several hours. However, there was too little number of the lines which were usable in the DMH.
- We prepared a extension line to communicate with the different campus where there were many students. The line was always busy. We should prepare a fax line additionally.
- There were several important response units which a vice president was in charge of, and duties centered on this vice president and sometimes disturbed smooth correspondence.
- It is necessary to review the situation that an emergency electric power is not usable in work room such as the General Administration Division.
- Drill to set up facilities of the DMH was seemed to be necessary.