

Workbook



Name	
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“How We Can Overcome a Disaster”

**“Project for Development of a Comprehensive
Disaster Resilience System and Collaboration
Platform in Myanmar”**

YTU-JICA project



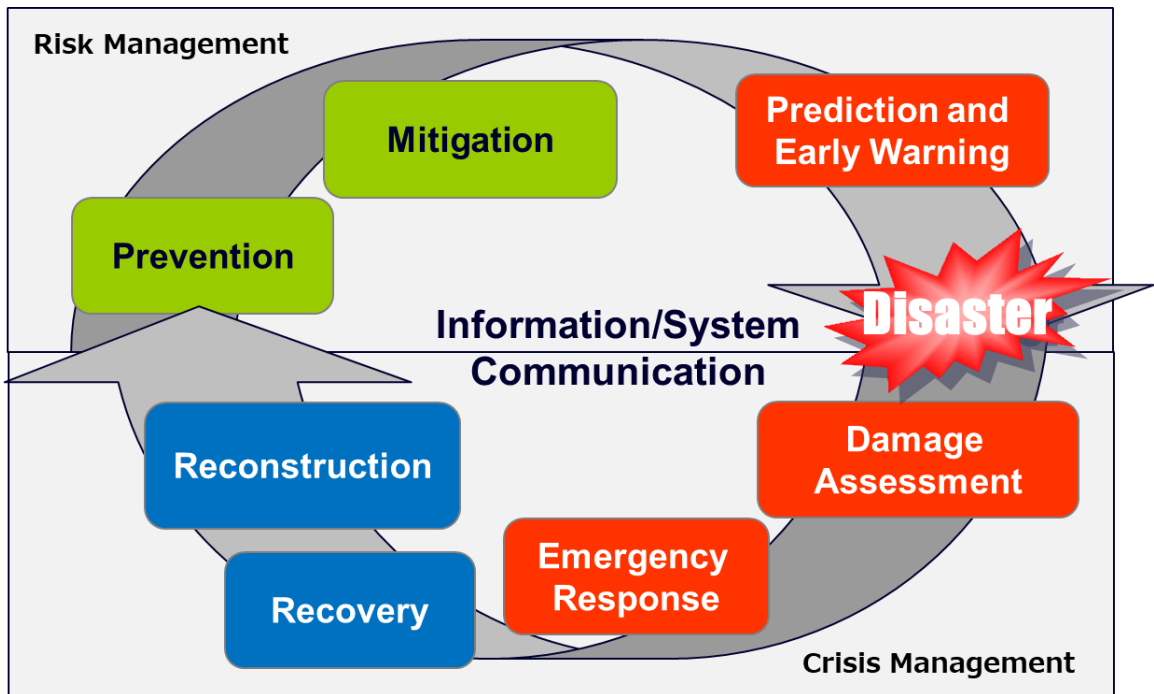
Project WEB site

<http://www.disasterinfo.jp/bs/mmr/>

Muneyoshi NUMADA

**Associate Professor
The University of Tokyo**

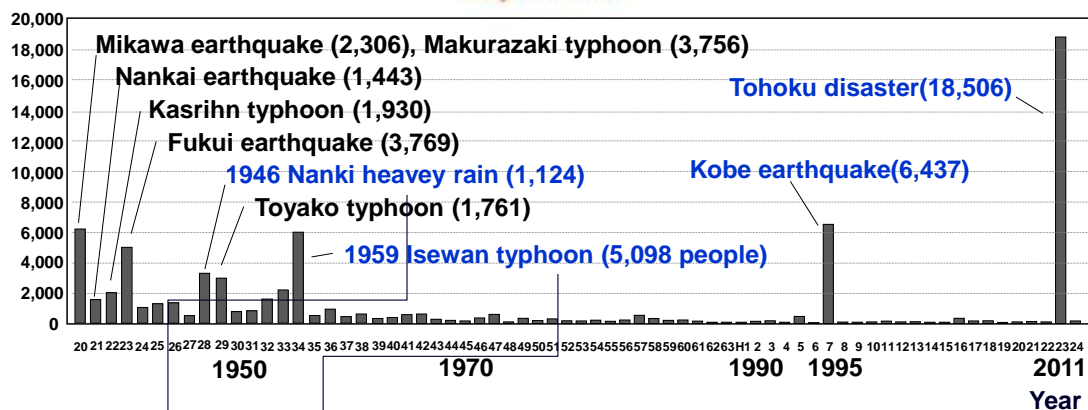
7 Disaster Countermeasure Phases



Phase	Examples
Prevention	Primarily improving the structural performance and preventing damages by adding amendments to land-use policy.
Mitigation	Seismic reinforcement of buildings and various structures, reinforcement to resilient structure, liquefaction countermeasures, earthquake-proofing residential homes, prevention of collapse of road bridge
Prediction	To predict and forecast disasters in advance and issue warnings
Damage Assessment	To assess with high accuracy the location as well as the degree of damage as soon as possible.
Emergency Response	Based on the damage evaluation results, the carrying out of rescue operations and recovery of region's basic functions.
Recovery	The general definition of recovery is the restoration to the state before the disaster.
Restoration	Since the former state of the region is not disaster-resilient, there is a need to rebuild the region with stronger disaster resilience. This is called reconstruction.



Death tolls



1947 Disaster Relief Act

1961 Disaster Countermeasure Basic Act

1963 Basic disaster prevention plan (BDPP)

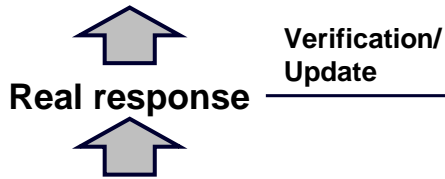


Before

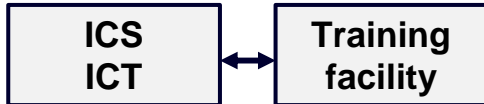
After

Good case

International application



Verification/ Maintenance/ Update



System

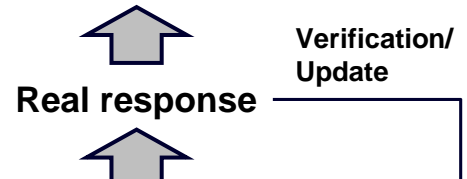
Training/
Education

SOP (Standard Operation Procedure),
Disaster Standard Framework

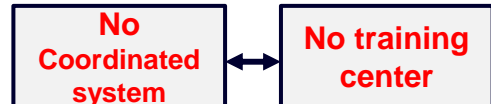
Disaster Basic Principal

Bad case

International application



Verification/ Maintenance/ Update



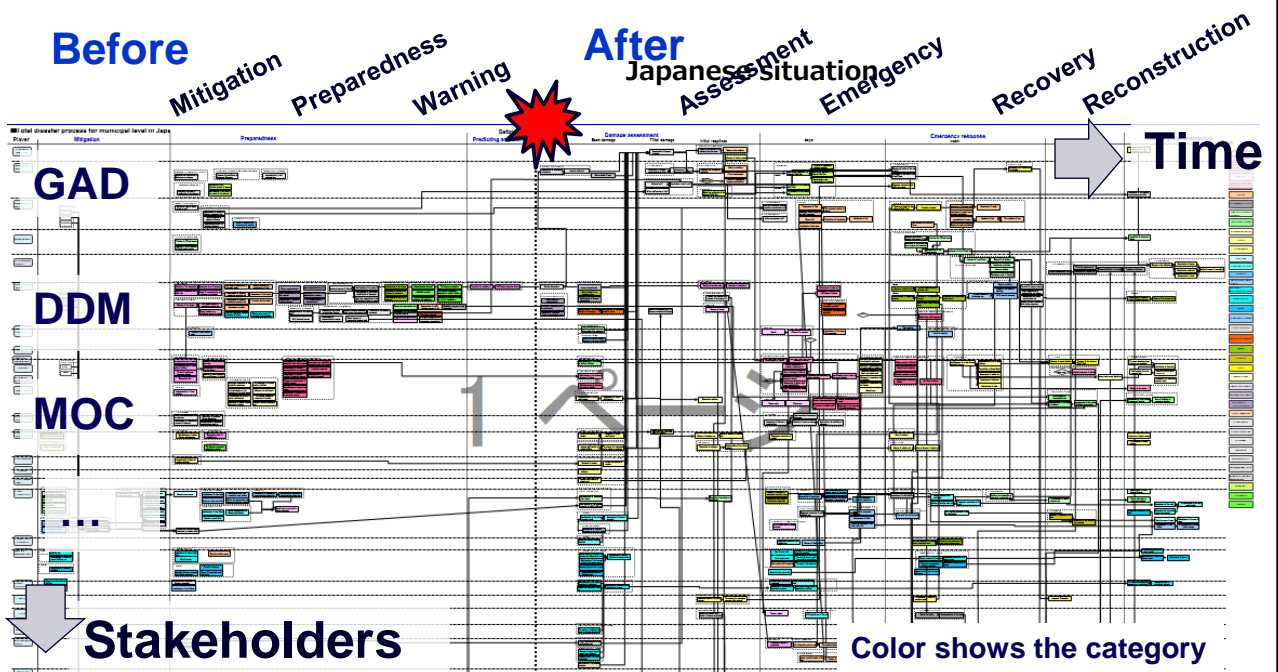
System

Training/
Education

NO SOP,
Individual research/ discuss

Disaster Basic Principal

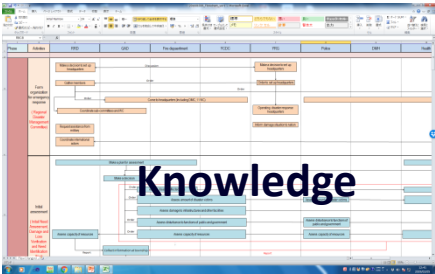
SOP



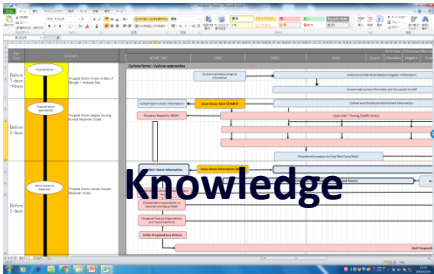
Developed system: Work flow chart system

How we can share the knowledge of disaster management with young staffs ?

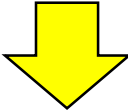
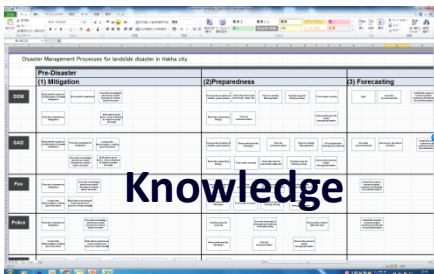
Earthquake



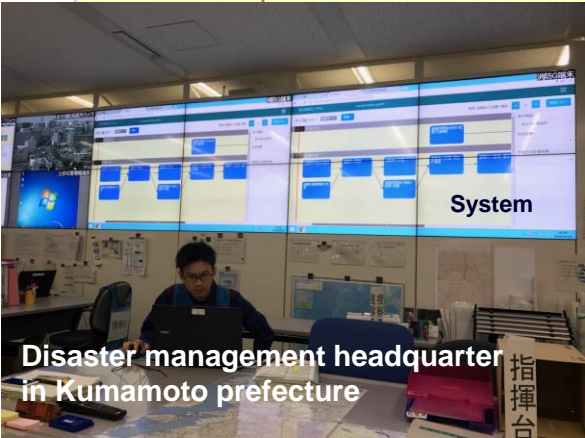
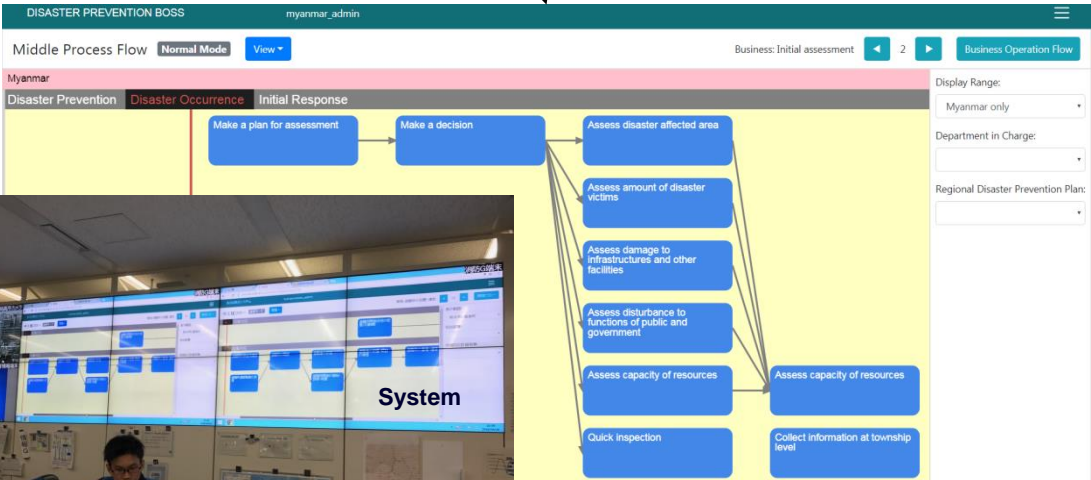
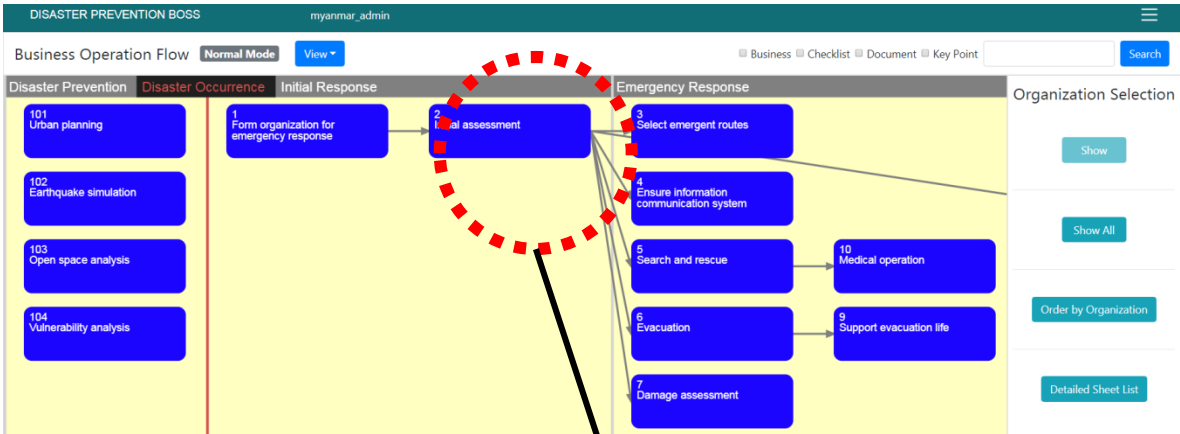
Floods



Landslide



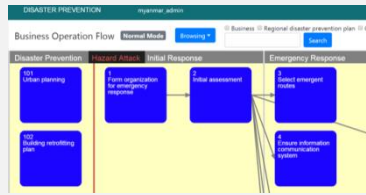
Knowledge sharing by the system



<http://eng.iis-boss.com/work-flowchart>

Developed system: overview

Layer 1: Overview



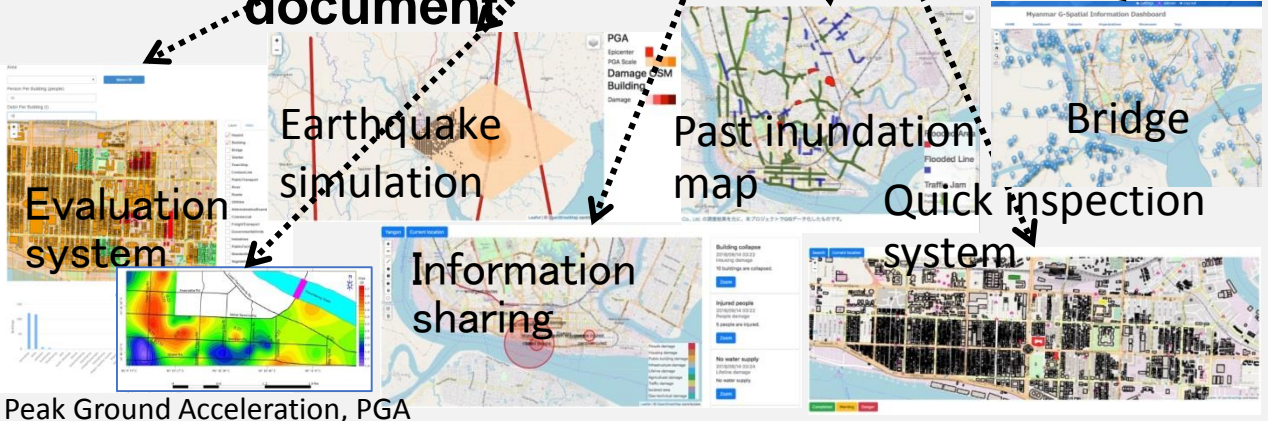
Layer 2: Detail flow



Layer 3: Detail info.



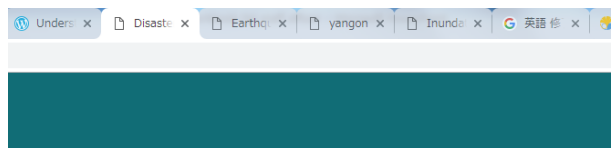
Layer 4: Necessary data/ system/ information/ document



How to use the system

http://eng.iis-boss.com/

1. Login



Login

User Name

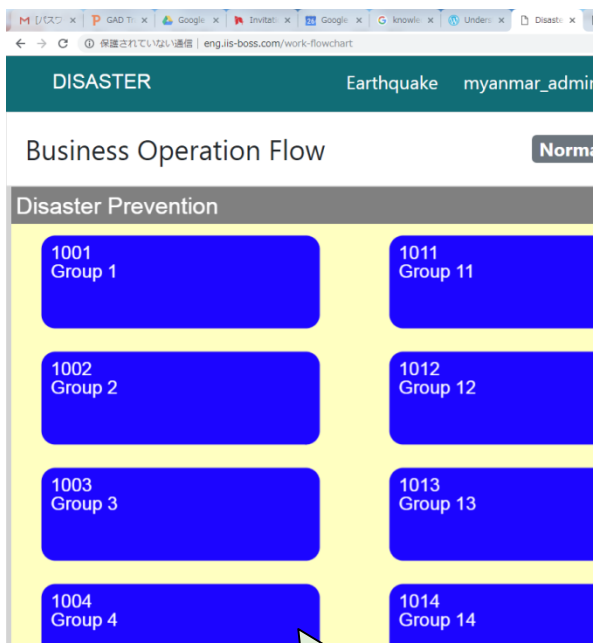
ID: Myanmar_admin
Pass: kumamon

Disaster
Earthquake

Earthquake
Flood
Landslide

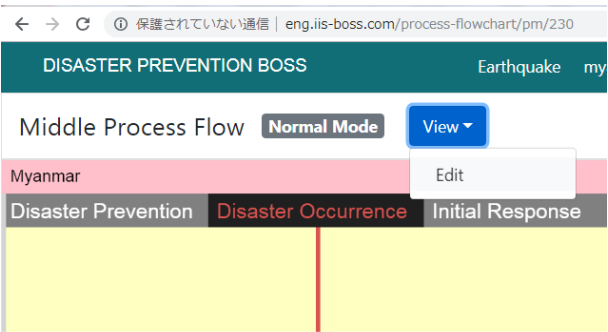
LOGIN

2. Select your Group ID

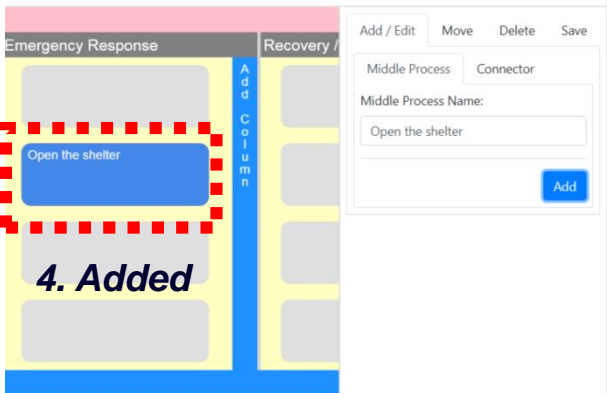
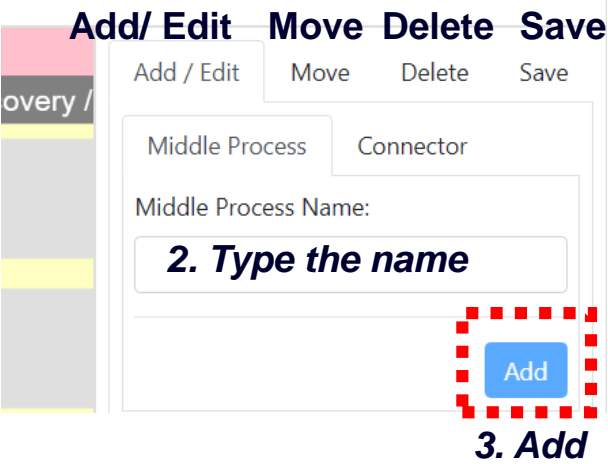
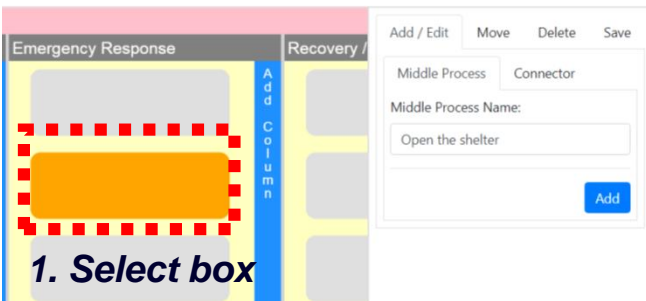


Select your Group number

3. Change from “View” to “Edit” mode



4. Make your flow chart



How to use the system

5. Connector

Emergency Response

Recovery /

Add Column

Open the shelter

Receive people

2. Select box

Add / Edit

Move

Delete

Save

Middle Process

Connector

Select the starting textbox and the end textbox.
The textbox on the left side is the starting point. The textbox on the right side is the ending point.

Same textbox in the same column as the starting point can not be selected.

Emergency Response

Recovery /

Add Column

Open the shelter

Receive people

3. Select box

4. Line

Add / Edit

Move

Delete

Save

Middle Process

Connector

Select the starting textbox and the end textbox.
The textbox on the left side is the starting point. The textbox on the right side is the ending point.

Same textbox in the same column as the starting point can not be selected.

6. Move

Emergency Response

Recovery /

Add Column

Open the shelter

Receive people

3. Select box

2. Select box

Add / Edit

Move

Delete

Save

Click

Drag and Drop

Select the textbox that you want to move and the destination to move.

Textboxes can not move between "Disaster Prevention" and the other phases.

If you move the starting textbox to the behind of the ending textbox, the connector will be deleted. The oppsite is also same.

Open the shelter

Receive people

4. Moved

Don't forget "SAVE"

7. Save

Recovery /

Add Column

Add / Edit

Move

Delete

Save

Save the data.

Save

SAVE

Situation visualize and Damage situation mapping

Disaster Management Support System

Our activity Our system Our team Informations Contact Only member

Concept

Business Operation Support System

Situation visualize

Earthquake simulation

Damage situation mapping

Quick inspection of buildings

Future development simulation

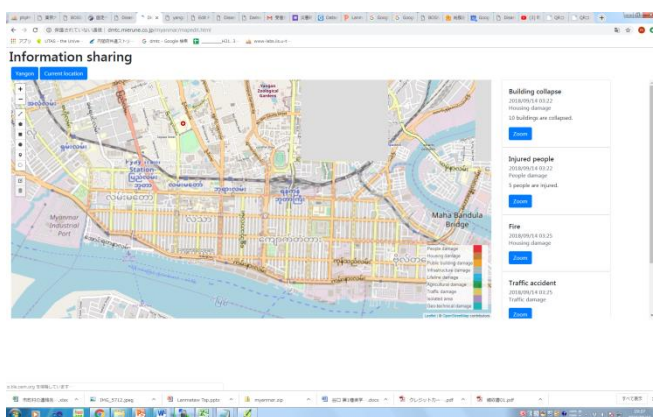
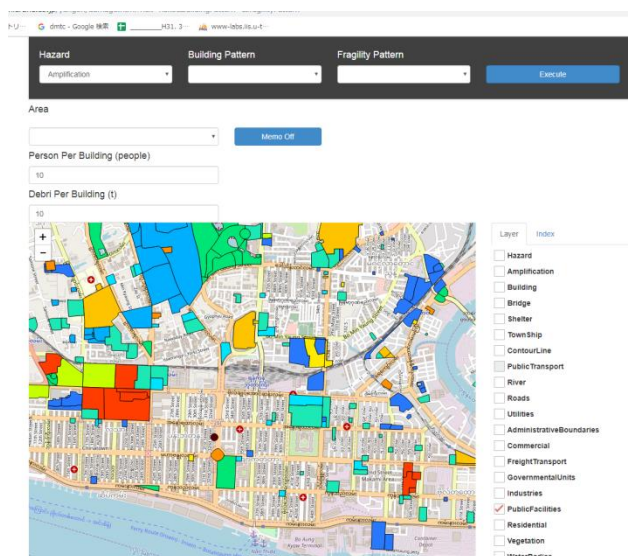
Floods area in Yangon collaborate with Myanmar Japon

Situation visualize

Damage situation mapping

Situation visualize

Damage situation mapping

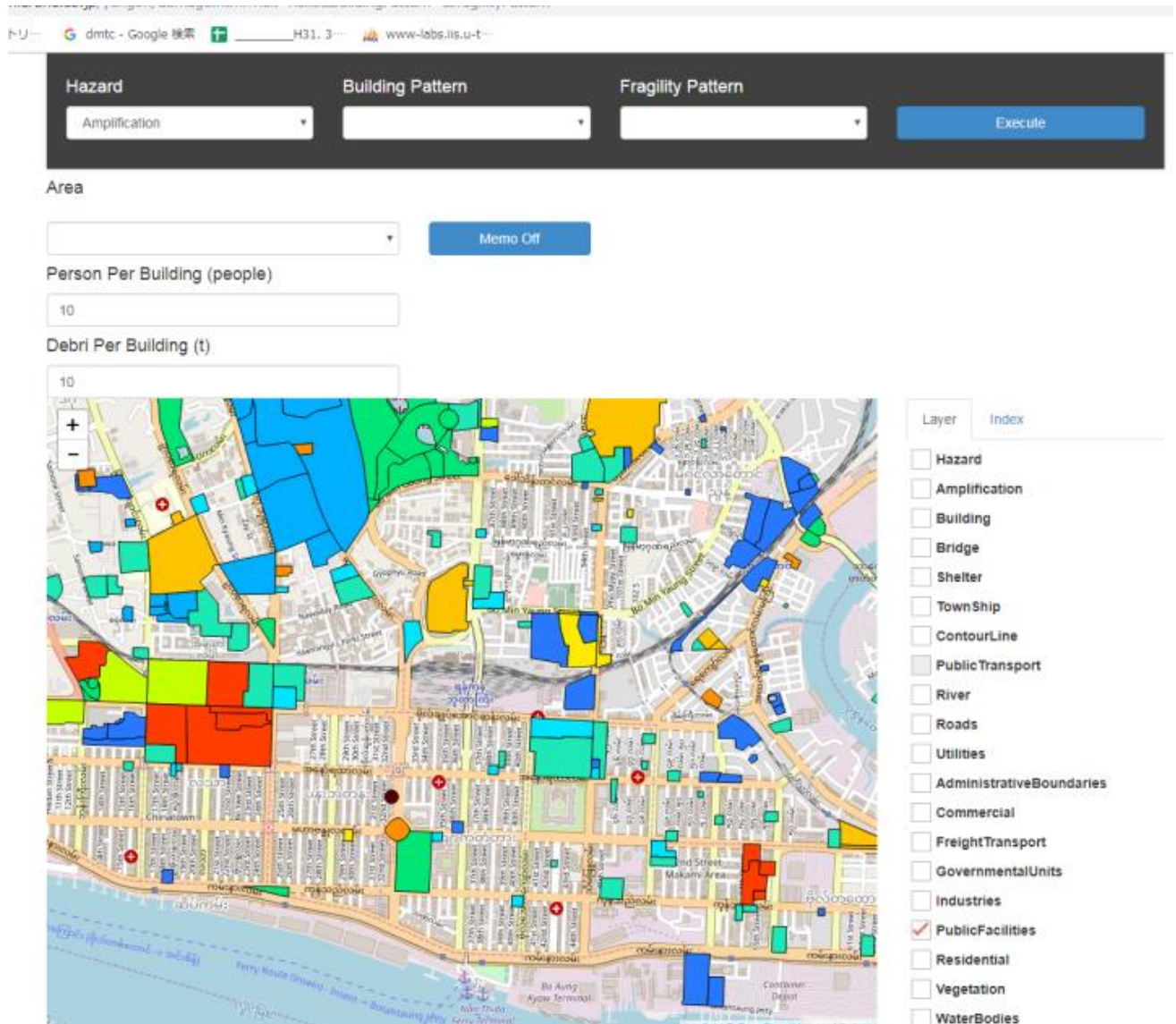


Access



<http://www.disasterinfo.jp/bs/mmr/>

Situation visualize to understand the situation



Explain about the risk situation in your township

Sketch up the risk condition on the map

dmtc.mierune.co.jp/myanmar/mapedit.html

How to use the system

Information sharing

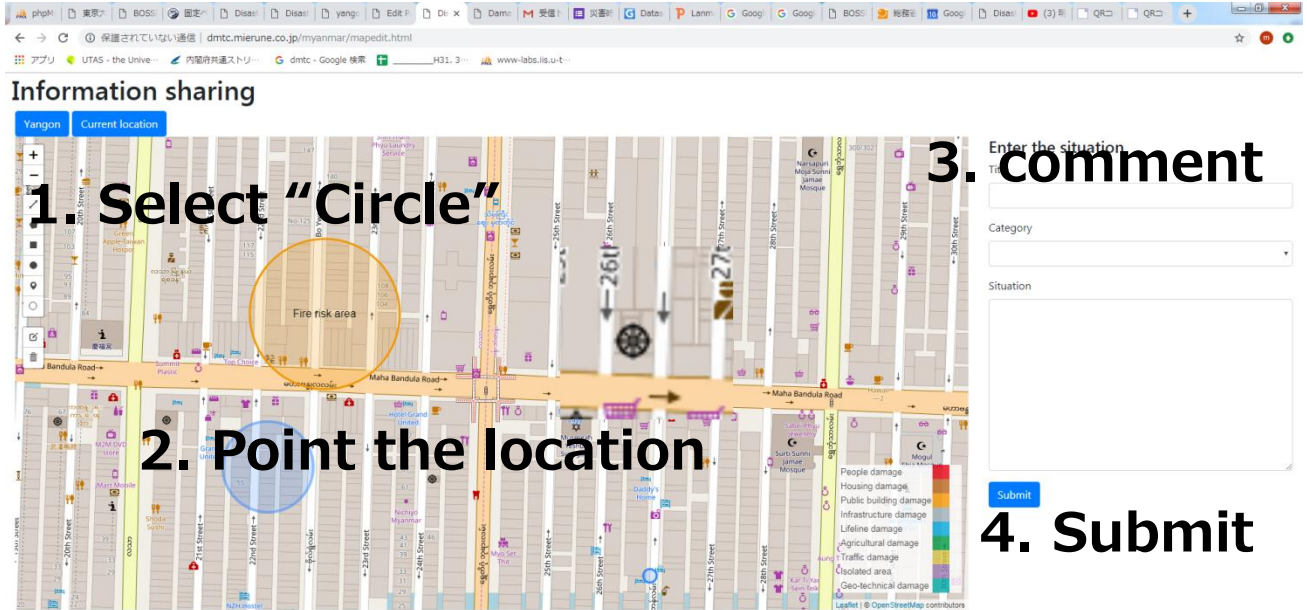
Yangon Current location

1. Select "Circle"

2. Point the location

3. comment

4. Submit



What to sketch up

Step 1: Where are evacuation places ?

Step 2: How many people evacuate ?

Step 3: Where is dangerous road ?

Step 4: Where are dangerous buildings ?



<http://tdmtc.tokyo/>



DMTC