



# Kato Takaaki Lab. (ICUS)

## [Establishing Social Safety System]

International Research Center for Urban Safety

<http://kato-sss.iis.u-tokyo.ac.jp/>

Safety Social System

Department of Urban Engineering

### Considering Social Safety System

Our researches cover the optimization of urban system as hardware and social system as software which supports citizens' lives from the viewpoint of urban safety. We set our research themes on all phases of disaster measures such as disaster urban mitigation, response for disaster, and post-disaster urban rehabilitation and reconstruction. They have been studied in both practical and theoretical approaches.

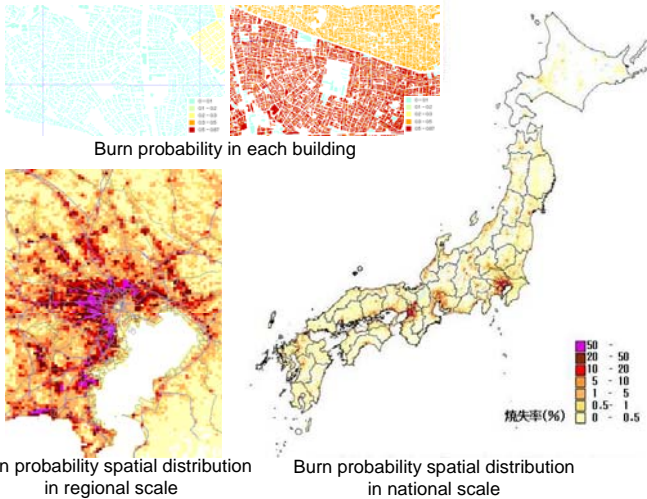
Our final goal is to achieve safety and amenity city. We will establish "Social Safety System" as an integrated academic field through our research activities.

**A. Evaluating vulnerability in urban areas**

Natural disaster vulnerability assessment in urban areas

■ A study on earthquake fire risk assessment method

Calculating earthquake fire risk in building, regional and national scale



**B. Considering countermeasures with community**

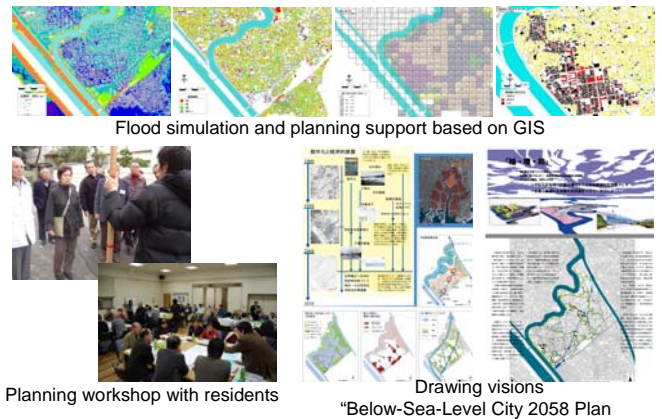
Adaptation measures in cities for climate change

Methodology for disaster prevention machidukuri

Theory for disaster prevention urban planning

■ Working with citizens in "Below-sea-level City"

Establishing risk communication method based on objective information  
Attempting area management by "New Public Sector"

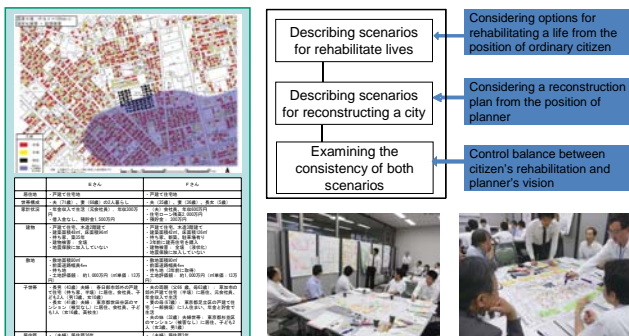


**C. Preparing for disasters from the position of planner**

A study on rehabilitation and reconstruction of cities

■ Establishing a training method for imaging recovery

■ Describing recovery model and optimizing recovery

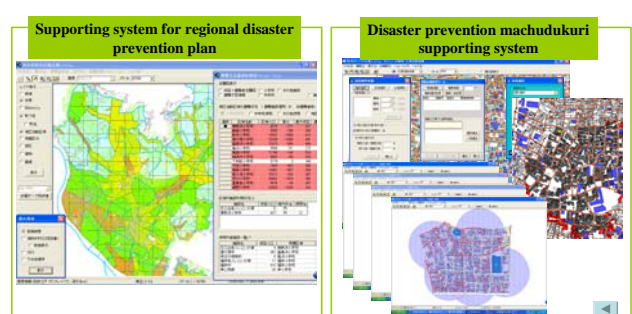


**D. Technically supporting to achieve safety society**

Turning into practical use and upgrading the techniques

■ A study on planning supporting system

■ Practical use of disaster prevention mash-up system



Creating an environment for planning and considering countermeasure based on evaluation