



ICUS

Kato Takaaki Lab. (ICUS)

[Establishing Social Safety System]

International Research Center for Urban Safety

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

Social Safety 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.

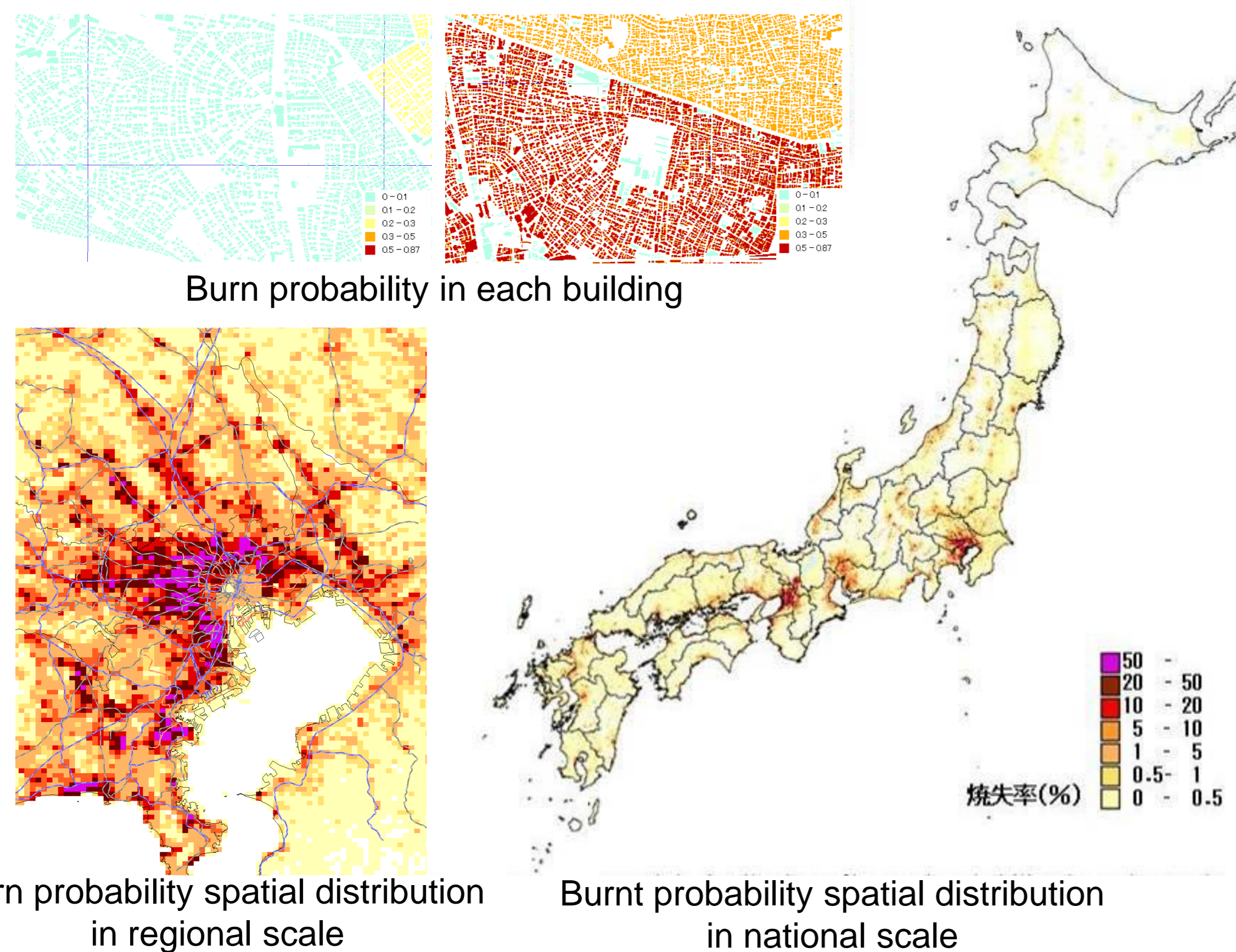
Our final goal is to achieve safety and amenity city. We will establish "Social Safety System" as an integrated academic field through our research activities.

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

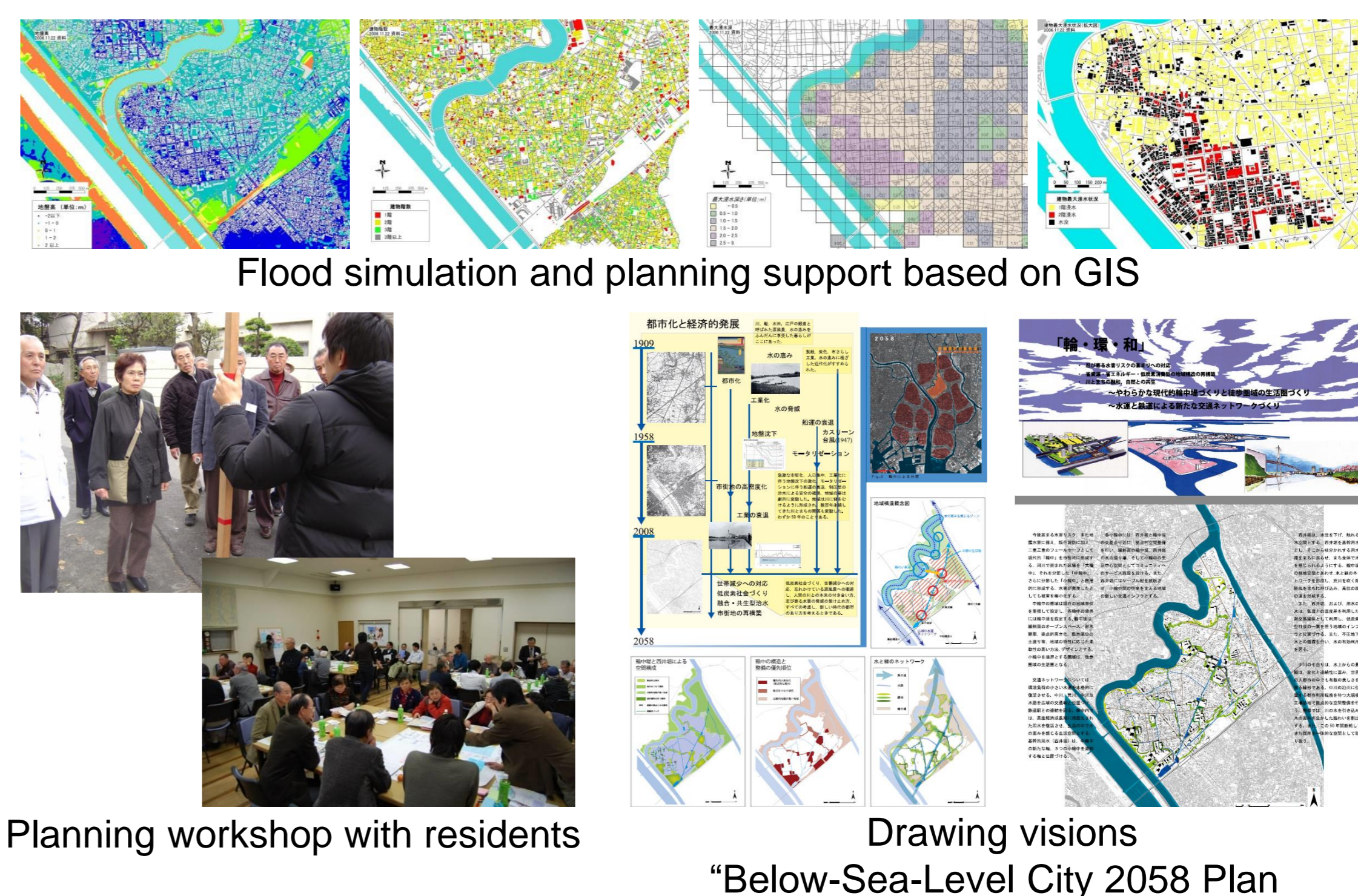
Adaptation measures in cities for climate change

Methodology for disaster prevention machidukuri

Theory for disaster prevention urban planning

■ Planning 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 an image training method for post-disaster planning

■ Supporting community-based activities in Tohoku

Describing scenarios for rehabilitate lives

Describing scenarios for reconstructing a city

Examining the consistency of both scenarios

Considering options for rehabilitating a life from the position of ordinary citizen

Considering a reconstruction plan from the position of planner

Control balance between citizen's rehabilitation and planner's vision

Support of recovery activity by civic group

D. Technically supporting to achieve safety society

Turning into practical use and upgrading the techniques

■ Developing support system and technologies for urban planning and community-based activities for disaster mitigation and response.

Planning supporting system for disaster prevention plan

Tool which based AR technology

Tool which can know overview

Technologies for community-based planning and activities