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Urban Resilience

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With a high probability in the first half of 21st century, Nankai Trough earthquakes will cause a tremendous amount of damage and losses which might exceeds Japanese national annual budget. In addition, we might take into account the possible occurrence of Tokyo Metropolitan earthquake which may cause a serious threat to our national security. It is virtually impossible to complete all the works needed to prevent those possible damage and losses due to these mega earthquakes before they will happen. It means that we need to develop a science and technology to minimize the resulting damage and losses due to these mega scale earthquake disasters and to realize high disaster resilience for quick and steady recovery based on the lessons taken from past earthquake disasters including 3.11 Tohoku Earthquake and Tsunami Disaster in 2011.

Recent progress in information and communication technology such as internet and mobile device with GPS should be adapted for effective disaster response and recovery. In this project, we will develop two ICT based system for creating common operational pictures among stakeholders. First system will be web-GIS system to provide an informational platform in which various kinds of information provided from seismology to social psychology will be mashed up for creating a new value. Second system will be Micro Media Service which will provide the information selected for each uses to meet their needs.

It is our ultimate goal to improve disaster preparedness of each individual who might be function as disaster response personnel or disaster victims. We will develop a Web portal site named as Disaster Literacy Hub to provide educational materials prepared for all disciplines related for earthquake disaster reduction based on the theory of instructional design.

All the academic achievements will be presented through the website shown below: