

# International Center for Urban Safety Engineering (ICUS)

Institute of Industrial Science

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

- Urban Safety & Disaster Mitigation ● Environment Informatics ● Social Infrastructure Management

## Towards a development of sustainable urban systems

With three fields of research “Urban Safety & Disaster Mitigation”, “Environment Informatics” and “Social Infrastructure Management,” and through the **promotion of advanced research**, **information-sharing** and **building of networks**, ICUS strives to achieve its goal to realize safe and sustainable urban environment from the international point of view.

### Promotion of Advanced Research



### Information Sharing



◆ International Conference 14<sup>th</sup> USMCA 2015 in Nepal (30-31 Oct. 2015 at Kathmandu)



◆ Public Symposium 31<sup>st</sup> ICUS Open Lecture (17 March 2016 at IIS)

### Building Networks



#### ◆ Research Collaboration with Oversea Institutions

- Oversea Offices**
  - BNUS: Dept. of Civil Engineering, Bangladesh University of Engineering and Technology (Bangladesh)
  - RNUS: Asian Institute of Technology (Thailand)
- MoU Agreement for Research Collaboration (Alphabetical order)**
  - School of Applied Sciences and Engineering, Monash University (Australia)
  - Bangladesh Earthquake Society (Bangladesh)
  - National Centre for Earthquake Engineering (Bangladesh)
  - Dept. of Construction Engineering, National Kaohsiung First University of Science and Technology (Chinese Taipei)
  - LCM Research Center, The Port and Airport Research Institute (Japan)
  - Dept. of Civil Engineering, Shiba Institute of Technology (Japan)
  - Global U-City Construction & Information Hub, Dept. of Civil Engineering, Han Yang University (Korea)
  - National Urban Disaster Prevention Research Center (Korea)
  - NSET (the National Society for Earthquake Technology) (Nepal)
  - Center for Public Safety Research, Tsinghua University (P.R. China)
  - Qatar Transportation and Traffic Safety Center, Qatar University (Qatar)
  - Dept. of Civil Engineering, National University of Singapore (Singapore)
  - Sirindhorn International Institute of Technology, Thammasat University (Thailand)

### ICUS PROJECT

## Development of a Comprehensive Disaster Resilience System and Collaboration Platform in Myanmar Science and Technology Research Partnership for Sustainable Development (SATREPS)

Myanmar is a disaster-prone country with earthquake- and water-related disasters. In addition to the increase in disaster risk associated with rapid and large-scale urban development, uncertainties in the occurrence of these events will increase with a global climate change. Therefore, it needs to promote a close collaboration among government, academia and industry to strengthen the capability of comprehensive disaster risk reduction in Myanmar.

### ◆ Project Overview

<b>Project Area</b>	Republic of the Union of Myanmar	<b>Duration</b>	5 years (2014 – 2020)	<b>Support</b>	Japan International Cooperation Agency (JICA) Japan Science and Technology Agency (JST)
<b>Purpose</b>	To develop integrated disaster resilience systems by supporting the advancement of technology both <b>Structural</b> and <b>Non-structural</b> as well as <b>HR Development</b> to strengthen Myanmar's disaster response ability that will contribute to the formation of safe urban environment and steady economic growth of the country.				

**Non-structural Measures**

Promotion of comprehensive disaster response system and development of disaster response capabilities

Making of Flood & EQ Risk Map

Flood

Comprehension of city formation using satellite images

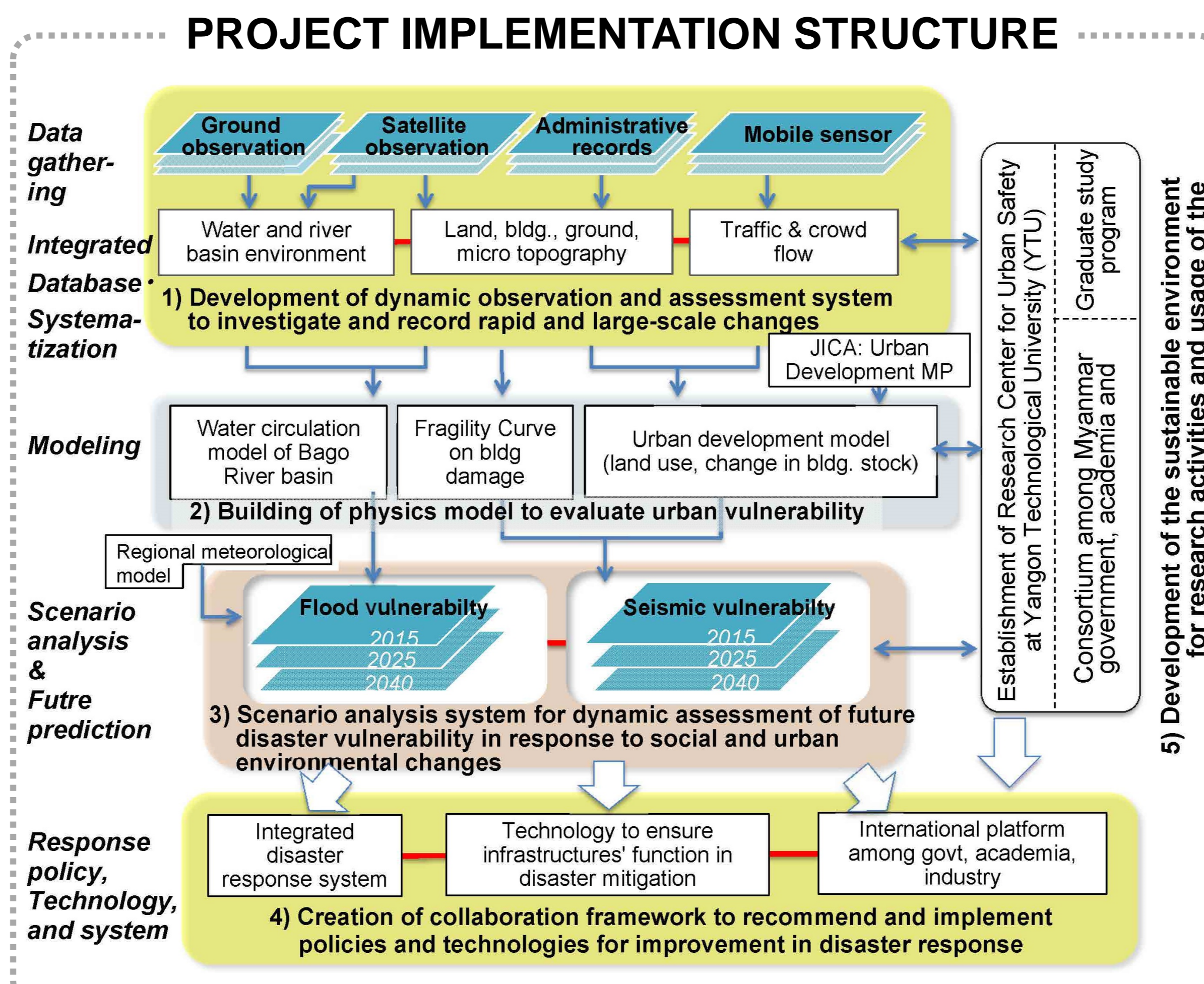
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**Structural Measures**

Basic knowledge, design, construction, proper maintenance and repair technology

Proper repair and reinforcement

Cutting-edge technology for monitoring and evaluation



**Non-Structural Measures**

Development of Disaster Resiliency

**Structural Measures**

**Human Resource Development**

**HR Development**

Establishment of Research Center for Urban Safety

Provision of programs for Development of experts

Creation of a place of interdisciplinary discussion about urban safety and development