ICUS

International Center for Urban Safety Engineering (ICUS)

[Towards a Development of Sustainable Urban Systems]

Institute of Industrial Science

◆ **1st Joint Student Seminar on Civil Engineering between Myanmar and Japan at Yangon Technological Univ.** (13th Dec., 2017)

Urban Safety & Disaster Mitigation | Environment Informatics | Social Infrastructure Management

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

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

- Urban safety and disaster mitigation strategy
- Development of temporal-spatial disaster process model
- Implementation of earthquake safer masonry structures
- Development of proper disaster broadcast model by mass-media
- Development of support for establishment of regional disaster management plan and its implementation
- Development of assessment method of vulnerability and fragility to natural hazard
- Restructure of urban disaster mitigation planning theory
- Post-disaster recovery and rehabilitation planning

- Development of shield tunnel enlargement method
- Technology management
- Ground maintenance and sustainability
- Ground improvement

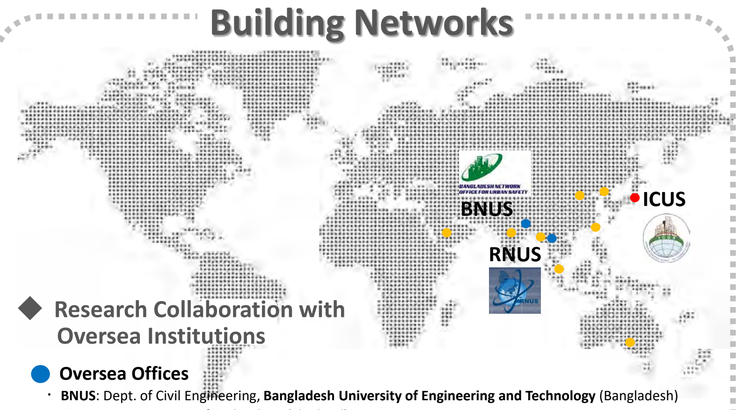
- Impact Assessments on Global Risks
- Real-time Estimates of Water-Related Natural Disasters in the World
- Design and control of safer signalized intersections
- Bottleneck performance analysis of pedestrian flow for evacuation planning
- Traffic flow model for disaster evacuation guidance
- Urban space design for aging society with fewer children

Information Sharing

◆ **International Conference**
16th USMCA 2017 in Sendai City, Japan (26-28 Nov., 2017)

◆ **1st Joint Student Seminar on Civil Engineering between Myanmar and Japan at Yangon Technological Univ.** (13th Dec., 2017)

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, **Shibaura 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)
- Siridorn International Institute of Technology, **Tammasat University** (Thailand)

International Symposium

USMCA2018

17th INTERNATIONAL SYMPOSIUM ON NEW TECHNOLOGIES FOR URBAN SAFETY OF MEGA CITIES IN ASIA

12th - 14th December, 2018
Hyderabad, INDIA

INTRODUCTION

Urban safety and environmental management are challenges for any country in the world today. Scientists, researchers, academics from Universities & Institutes of higher learning, governments and societies are working together to find new solutions to these global issues. Recognizing this critical importance, the *International Institute of Information Technology, Hyderabad,* and the *International Center for Urban Safety Engineering (ICUS)* at Institute of Industrial Science (IIS), The University of Tokyo (UoTokyo) are co-organizing this *International Symposium* on *New Technologies for Urban Safety of Mega Cities in Asia (USMCA)* during 12–14 December 2018 in Hyderabad, India. The main Symposium is during 12-13 December 2018, and the technical and city tours are on 14 December 2018.

ABOUT CITY of HYDERABAD

Hyderabad, the fifth largest city in India, has its own distinct culture. The city is nearly 400 years old and is noted for its natural beauty, mosques, minarets, bazaars, bridges, hills and lakes; *Charminar – the tower with four minarets*, an old monument and mosque located in Hyderabad is considered as one of the global icons of its kind. Hyderabad is perched on the top of Deccan Plateau, 1776 feet above the sea level, and sprawls over an area of 250 square miles. Secunderabad, the twin city, is separated from Hyderabad by an artificial lake Hussain Sagar, constructed in 1562 AD.

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY HYDERABAD

IMPORTANT DATES

Submission of ABSTRACT:
30 June 2018
Notification of Acceptance:
31 July 2018
Early Bird Registration:
31 July 2018
Submission of EXTENDED: ABSTRACT
30 August 2018
Regular Registration:
15 September 2018

WEBSITE

www.iiit.ac.in/USMCA2018/

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Hyderabad City

Project

ANZEN-SATREPS

Development of a Comprehensive Disaster Resilience System and Collaboration Platform in Myanmar

Science and Technology Research Partnership for Sustainable Development (SATREPS)

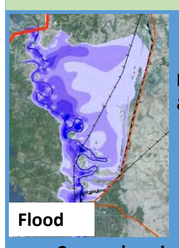
Myanmar is a disaster-prone country with earthquake- and water-related disasters. In addition to the increase in disaster risk associated with rapid and large-scale urban development, uncertainties in the occurrence of these events will increase with a global climate change. Therefore, it needs to promote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

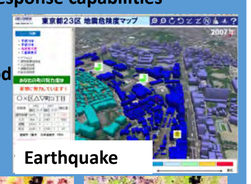
◆ Project Overview

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

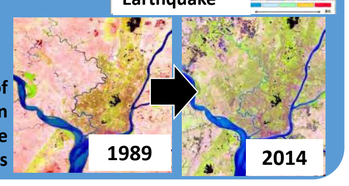
Non-structural Measures

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

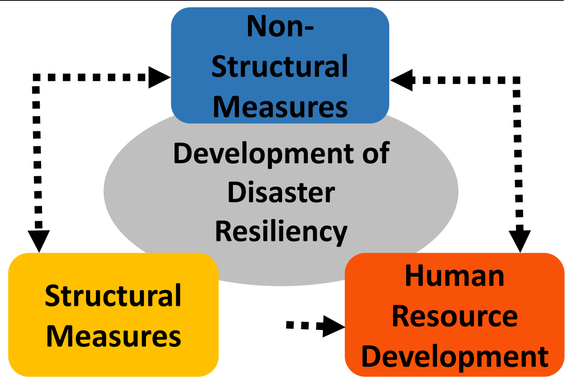




Making of Flood & EQ Risk Map



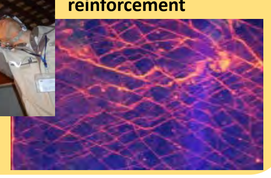
Comprehension of city formation using satellite images



Structural Measures

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

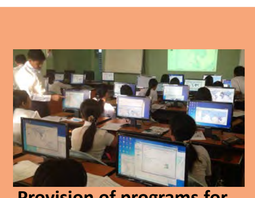
Proper repair and reinforcement



Cutting-edge technology for monitoring and evaluation

HR Development

Establishment of Research Center for Urban Safety



Provision of programs for Development of experts

Creation of a place of inter-disciplinary discussion about urban safety and development