ICUS

# International Center for Urban Safety Engineering (ICUS)

## [Towards a Development of Sustainable Urban Systems]

Institute of Industrial Science

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

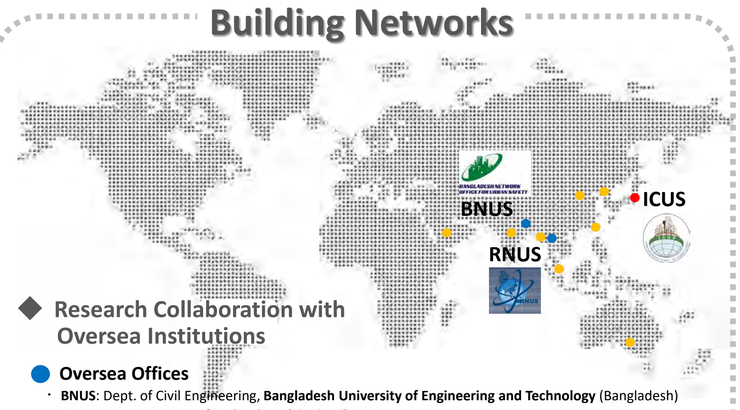
- Impact Assessments on Global Risks
- Real-time Estimates of Water-Related Natural Disasters in the World
- Design and control of safer signalized intersections
- Bottleneck performance analysis of pedestrian flow for evacuation planning
- Traffic flow model for disaster evacuation guidance
- Urban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

## Information Sharing

◆ International Conference
**17th** USMCA 2018 in Hyderabad, India (12-14 Dec., 2018)

◆ Joint Student Seminar on Civil Engineering between Myanmar and Japan at IIS, Utokyo.
(28th Mar., 2019)

## 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

# USMCA2019

**18th INTERNATIONAL SYMPOSIUM ON NEW TECHNOLOGIES FOR URBAN SAFETY OF MEGA CITIES IN ASIA**

**Symposium:**

**9th - 10th December, 2019 Yangon, Myanmar**

**Technical tour:**

**11th -12th December, 2019, Bagan, Myanmar**

**IMPORTANT DATES**

Submission of ABSTRACTS: JULY 15, 2019
Notification of Acceptance: AUGUST 15, 2019
Submission of FULL PAPER or EXTENDED ABSTRACT: SEPTEMBER 15, 2019
Early Bird Registration: SEPTEMBER 15, 2019

**Symposium Venue**

Yangon Technological University, Myanmar

**Registration fee**

The registration fee includes one symposium USB proceedings, two lunch-boxes, four tea-breaks and one gala dinner.
Foreign delegates:
US$250 Early Bird Registration (Before September 15, 2019)
US$300 (After September 15, 2019)
Students: US$125

**Contact**

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Project

# ANZEN-SATREPS

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

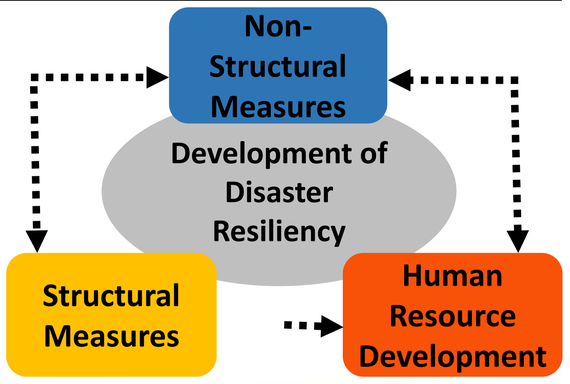
Science and Technology Research Partnership for Sustainable Development (SATREPS)

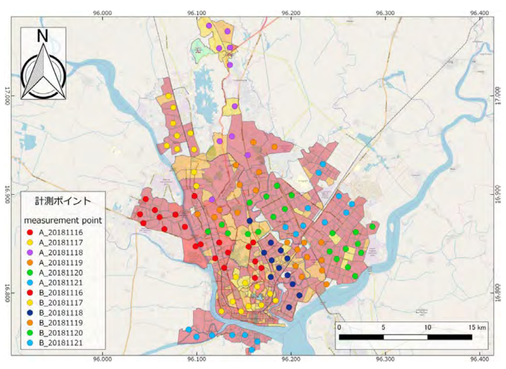
**Myanmar is a disaster-prone country with earthquake- and water-related disasters. In addition to the increase in disaster risk associated with rapid and large-scale urban development, uncertainties in the occurrence of these events will increase with a global climate change. Therefore, it needs to 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. | | | | |

WL Station Installation @Dagon Bridge




Ground data measurement point in Yangon city

Myaung Mya Bridge, Which was Dropped