

## Social Infrastructure Comprehensive Management Forum ～ Focusing on severe disasters and social infrastructure accidents ～

The National Graduate Institute for Policy Studies (GRIPS) conducts study on management measures that can be adapted to severe rain disasters and aging social infrastructure. The International Centre for Water Hazard and Risk Management under the auspices of UNESCO (ICHARM) is engaged in innovative research, capacity development, and information networking related to water-related disasters and their risk management. In addition to cooperating with each other to advance these studies, both organizations will hold forum on a regular basis to disseminate and collect information. This time, as the first forum, we will take up examples of severe disasters and social infrastructure accidents, and discuss management and risk management based on them.

Specifically, we will take up the collapse of the Polcevera Viaduct in Italy, which was the most serious structural accident in recent years and the severe flooding in Pakistan, which was the most severe flood in the world in 2022.

The outline of this international forum is as follows.

### 1. Title

Social Infrastructure Comprehensive Management Forum

～ Focusing on severe disasters and social infrastructure accidents ～

### 2. Organizer

- National Graduate Institute for Policy Studies (GRIPS),
- International Centre for Water Hazard and Risk Management under the auspices of UNESCO (ICHARM)

### 3. Date

June 15 Thursday 2023

### 4. Venue

GRIPS (hybrid system: in person and online)

## 5. Language

Japanese/ English

## 6. Program

### (1) Opening Greetings

10:00 Opening Remarks (Pres. Hiroko Ota, President of GRIPS)

10:05 Opening Remarks (Dr. Toshio Koike, Executive Director of ICHARM)

10:10 Guest Greeting (Mr. Mikio Yoshioka, Technical Supervisor of MLIT)

10:15 Guest Greeting (Mr. Katsumi Ise, Vice President of JR East)

\*GRIPS: National Graduate Institute for Policy Studies

\*ICHARM: The International Centre for Water Hazard and Risk Management

\*MLIT: Ministry of Land, Infrastructure, Transport and Tourism

\*JR East: East Japan Railway Company

### (2) Infrastructure Session (Session 1)

How to Overcome the Infrastructure Crisis ~ Infrastructure accidents and required maintenance ~

10:25-11:05 Lecture:

“Looming Aging of Bridges - Collapse Accident of Polcevera viaduct accident in Italy and Deterioration of Myoko Bridge -“

Prof. Hiroshi Mutsuyoshi (Professor emeritus of Saitama University)

11:05-11:20 Q&A session

11:20-12:30 Panel discussion

The social infrastructure that was built in large quantities during the high-growth period at the same time as the Porcebella viaduct in Italy, where the bridge collapse accident occurred, is aging all at once. In order for such aging social infrastructure to be able to properly demonstrate its functions in the future, we will discuss the maintenance required in the future from various angles such as technological society, technical system, organization, and human resources.

Panelists : Presf. Chitoshi Miki, President of Tokyo City University

Prof. Hitoshi Ieda, Senior Professor of GRIPS

Dr. Shinichiro Nozawa, Executive officer Director of Structural Engineering Center of JR East

Moderator : Dr. Yoko Kabaki, Chief Senior Engineer of Eight-Japan

Engineering Consultants Inc.

12:30-13:45 Break

(3) Water-related disaster Session (Session 2)

Climate Change and Major Flooding ~ The Severe Floods in Pakistan and Japan's  
Flood Control in River Basins ~

13:45-14:10 Lecture 1 (via zoom):

“Summary and Causes of the 2022 Floods in Pakistan”

Dr. Khalid Mahmood Malik,

Chief Meteorologist, Flood Forecasting Division, Lahore,  
Pakistan Meteorological Department (PMD), Government of  
Pakistan

14:10-14:35 Lecture 2 (via zoom):

“Flood Countermeasures in Pakistan”

Dr. Syed Salman Shah,

Director-General, Provincial Disaster Management Authority  
(PDMA), Government of Sindh

14:35-14:50 Q&A session

14:50-15:00 Short report (via zoom):

“Comparison between 2010 Flood and 2022 Flood in Pakistan”

Mr. Hote Hassan Haren, GRIPS/ICHARM Ph.D. Student

15:05-16:15 Panel discussion

In recent years, Pakistan has experienced frequent floods, including major floods. It is said that heavy rains will increase in the future due to climate change, and it is thought that heavy flood damage will also increase. In response to such water-related disasters, issues and solutions for future watershed flood control will be discussed from various angles such as river countermeasures, watershed measures, disaster mitigation measures, and weather.

Panelists : Prof. Eichi Nakakita, Director of Disaster Prevention Research  
Institute of Kyoto University

Prof. Miho Ohara, Professor of Center for Integrated Disaster  
Information Research of Tokyo University

Prof. Takeyoshi Chibana, Professor of GRIPS

Moderator : Prof. Hiroto Suzuki Professor of GRIPS

16:20 Closing Remarks