

**JASTIP-Net Workshop on Indonesian Proposals for Disaster Prevention (WP4)
in conjunction with
The 3rd JASTIP Bioresources and Biodiversity (WP3) Workshop
"Synergy of ASEAN Countries and Japan for Sustainable Development"
&
The 2nd Humanosphere Asia Research Node Workshop toward Sustainable
Utilization of Tropical Bioresources
Date: 3rd November 2017, 13:00 – 17:30**

Introduction to JASTIP

Kaoru Takara

Professor, former Director,
Disaster Prevention Research Institute (DPRI);
Dean, Graduate School of Advanced Integrated
Studies in Human Survivability, Kyoto University

2017/11/03

Workshop objectives

of **“JASTIP-Net Workshop on Indonesian Proposals for Disaster Prevention (WP4)”**

- to invite proposers of JASTIP-Net 2017;
- to exchange their ideas to strengthen Indonesian JASTIP research activities; and
- to consider future collaborations between Indonesia and Japan.

JASTIP-Net Workshop on Indonesian Proposals for Disaster Prevention (WP4) , 3rd November 2017, 13:15 – 17:30

Salak Tower Hotel, Bogor, Indonesia

Provisional Agenda

12:30-13:00	Registration		
Opening			
13:15-13:30	Introduction to JASTIP	Kaoru Takara	Kyoto University
JASTIP-Net (WP4) Indonesian Proposals			
13:30-13:45	The Utilization of Space Technology for Disaster Early Warning System	Sofian Rizal	PUSTEKSAT LAPAN
13:45-14:00	Application of Traditional Housing Construction FALA KANCI as Simple House Earthquake Resistant for Future in Bobanehena Village, West Halmahera, Nort Maluku	Firdawaty Marasabessy	Khairun University
14:00-14:15	Assessing PM2.5 for Study on Health Impact of Trans-Boundary Haze from Peat Forest Fires in Indonesia	Muhayatun Santoso	National Nuclear Energy Agency of Indonesia, BATAN
14:15-14:30	Integration Model Development of Disaster Risk Reduction Principles of Volcanic Eruption into School Development Plan of Senior High School: Case study at SMA N 1 Tiganderket in Sinabung Volcano Region, Karo, North Sumatra, Indonesia	Dwi Wahyuni Nurwihastuti Darwin Aji	Universitas Negeri Medan
14:30-14:45	Geomorphological Approach for Disaster Risk Reduction of Sinabung Eruption in Karo Highland, North Sumatra, Indonesia	Dwi Wahyuni Nurwihastuti Darwin Aji	Universitas Negeri Medan

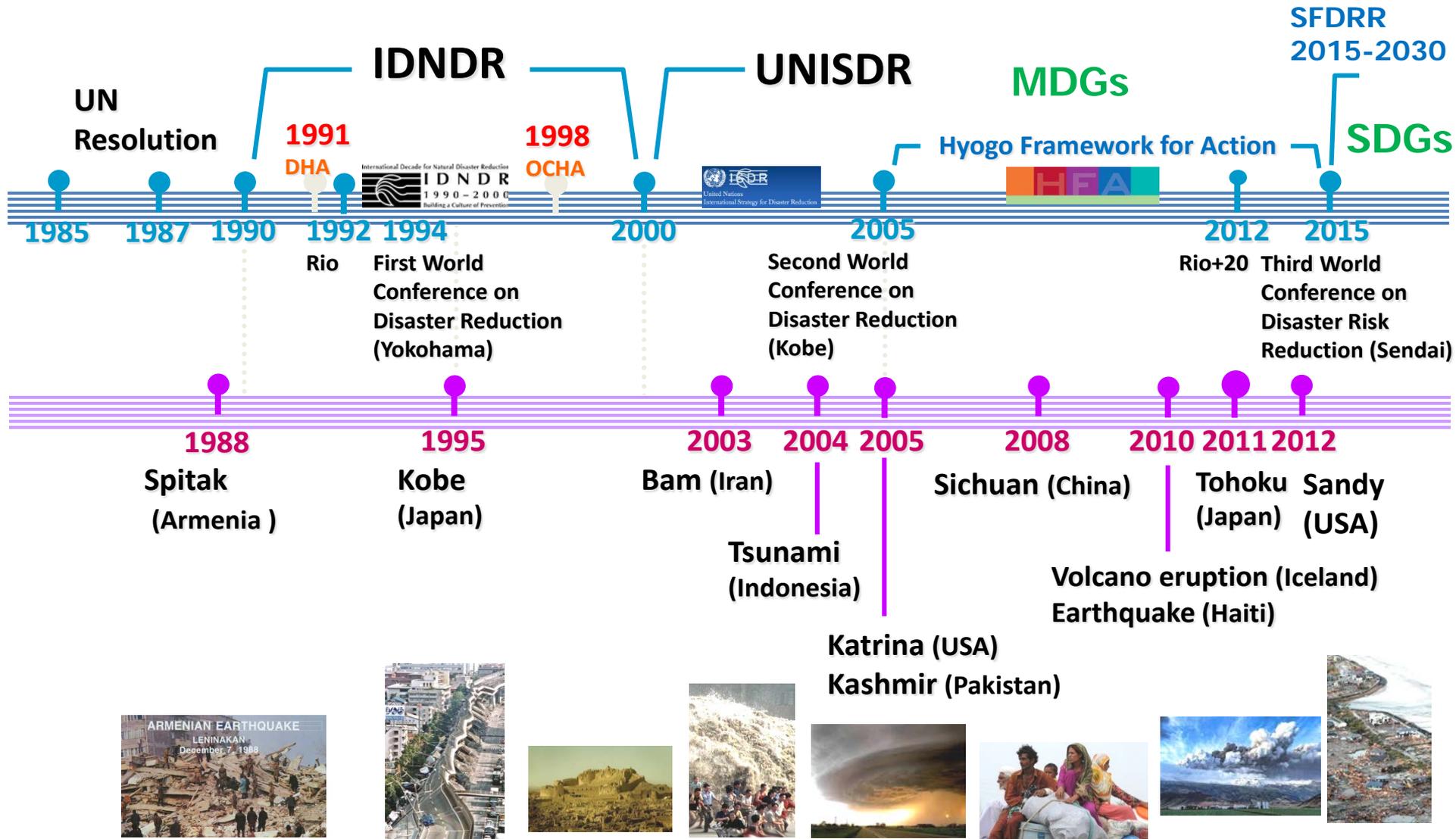
(to be continued)

Provisional Agenda (continued)

Presentations from JASTIP members			
15:00-15:15	Hydrologic Process Understanding and Modeling in the Batanghari River Basin, Sumatra, Indonesia	Takahiro Sayama	Kyoto University
15:15-15:30	Climate Change and Anthropogenic Impacts Assessment on the Flood Hazard in the Batanghari River basin, Sumatera, Indonesia	Apip	Asia Pacific Centre for Ecohydrology (APCE), LIPI
15:30-15:45	Hillslope Hydrology and Landuse Effect on Streamflow and Water Quality in the Batanghari River Basin, Indonesia	Luki Subehi	Research Center for Limnology, LIPI
15:45-16:15	Additional Presentations / Summary Discussions		
Break			
WP3-WP4 Joint Session			
16:30-17:00	General discussion on international collaboration with Biodiversity & Bioresources Group Moderator: Mamoru Kanzaki & Takashi Watanabe		
Panelists			
1.	Biodiversity	Enos Tangke Arung (Mulawarman Univ., Indonesia)	
2.	Biodiversity	Shoji Maehara (Fukuyama Univ., Japan)	
3.	Biodiversity	Khin Thant Sin (Pang Long Univ., Myanmar)	
4.	Biodiversity	Agusta Andria (LIPI, Indonesia)	
5.	Bioresources	Hunsa Punnapayak (Chularongkorn Univ., Thailand)	
6.	Bioresources	Keonakhone Khounvilay (National Univ. of Laos)	
7.	Bioresources	Sulaeman Yusuf (LIPI, Indonesia)	
8.	Disaster	Kaoru Takara (Kyoto Univ., Japan)	
9.	Disaster	Takahiro Sayama (Kyoto Univ., Japan)	
10.	Disaster	Apip (LIPI, Indonesia)	

History of global DRR agenda

Courtesy of Badaoui Rouhban (2015)



Sendai Framework for DRR (SFDRR) 2015-2030

- **SFDRR: 1 Goal, 7 Global Targets, 13 Guiding Principles, 4 Priorities for Action, at 4 levels (Local, National, Regional and Global)**
- SFDRR focuses on **disaster risks** while the HFA focuses on **disaster losses**.
- SFDRR focuses more on “**the how**” while the HFA focuses more on “**the what**”
- SFDRR puts more emphasis on the means for **implementation**

Sendai Framework for DRR (SFDRR) 2015-2030

The Seven Global Targets

- (a) Substantially **reduce** global disaster **mortality** by 2030, aiming to lower average per 100,000 global mortality rate in the decade 2020-2030 compared to the period 2005-2015.
- (b) Substantially **reduce** the number of **affected people** globally by 2030, aiming to lower average global figure per 100,000 in the decade 2020 -2030 compared to the period 2005-2015.
- (c) **Reduce** direct disaster **economic loss** in relation to global gross domestic product (GDP) by 2030.
- (d) Substantially **reduce** disaster **damage** to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030.
- (e) Substantially **increase** the **number of countries** with national and local disaster risk reduction strategies by 2020.
- (f) Substantially **enhance international cooperation** to developing countries through adequate and sustainable support to complement their national actions for implementation of this Framework by 2030.
- (g) Substantially **increase** the **availability** of and **access** to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030.

Sendai Framework for DRR 2015-2030

Four priorities for Action

Priority 1 Understanding disaster risk

Priority 2 Strengthening disaster risk governance to
manage disaster risk

Priority 3 Investing in disaster risk reduction for
resilience

Priority 4 Enhancing preparedness for effective
response, and to “**Build back Better**” in
recovery, rehabilitation and reconstruction ⁸

Sustainable Development Goals

Sustainable Development Goals



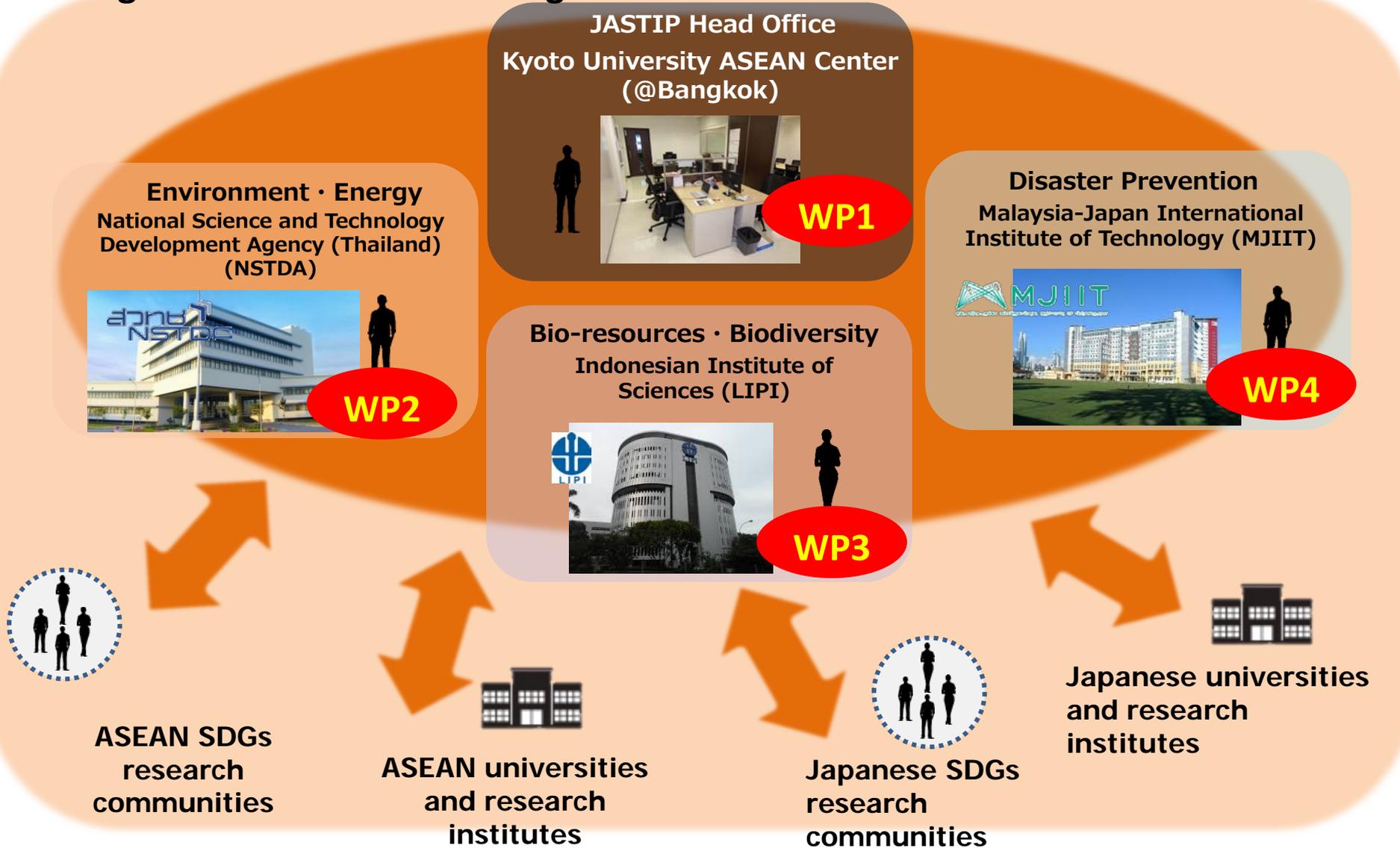
17 goals and 169 targets

Many of them are related to DRR

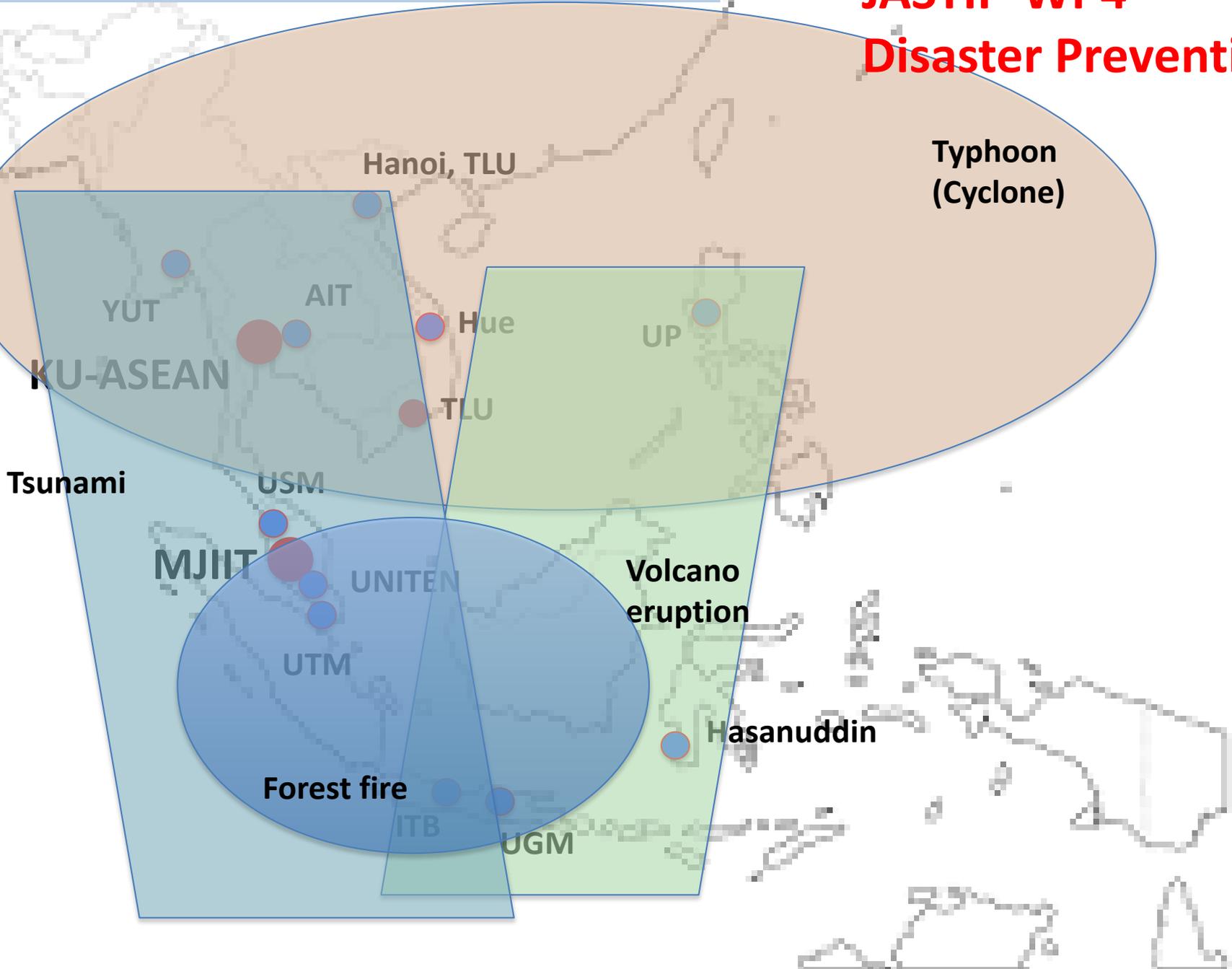


Japan-ASEAN Science, technology and Innovation Platform (JASTIP) 2015-2020

Core Organization and Networking



JST's Strategic International Collaborative Research Program (SICORP)



Hanoi, TLU

**Typhoon
(Cyclone)**

YUT

AIT

Hue

UP

KU-ASEAN

TLU

Tsunami

USM

**Volcano
eruption**

MJIT

UNITEN

UTM

Hasanuddin

Forest fire

ITB

UGM

First JASTIP-WP4 Symposium was held in Main Campus and Uji Campus, KU on March 24-26, 2016

The First Symposium on JASTIP Disaster Prevention International Cooperation Research, JASTIP-WP4 Symposium, Kyoto University, Japan, March 24-26, 2016





Forthcoming JASTIP-WP4 meetings

- Third Symposium on JASTIP Disaster Prevention International Cooperation Research (JASTIP-WP4 Symposium), Manila, the Philippines, November 15-16, 2017 in conjunction with UNESCO-IHP (UNESCO-JASTIP Joint Symposium)

http://hywr.kuciv.kyoto-u.ac.jp/ihp/events/2017/UNESCO-JASTIP_WP4_Symposium_14.09.pdf

Other Forthcoming Conferences

- **Global Forum on Science and Technology for Disaster Resilience, Tokyo, Japan, [SCJ](#) and [UNISDR](#), on November 23-25, 2017**
- **World Bosai Forum, [IDRC \(International Disaster and Risk Conference\)](#), [GRF](#), Sendai, Japan, November 25-28, 2017**
- **International Symposium on Utilization of Field Sites in Research and Education, [Kyoto University](#), December 8-9, 2017**

What I expect in JASTIP-Net Bogor 2017 Meeting:

- Strengthening our partnership between Japan and ASEAN, especially Indonesia
- Further developing Geoscience and Disaster research and capacity building
- Contributing to Sendai Framework for DRR 2015-2030, SDGs and Paris Agreement with such Japan-ASEAN collaboration

**Welcome and
Enjoy your important occasions here!**

1st Global Summit, Nov. 24-25, 2011



1st Global Summit of Research Institutes for Disaster Risk Reduction:
Exploring New Paradigms of Natural Disaster Research Based on
the Lessons Learned from the Great Natural Disasters

November 24-25, DPRI, Kyoto University, Japan



Participating Institutes: 40 (International: 25, Domestic: 15)
Total participants: 88+ From 14 countries/areas





The 2nd Global Summit of Research Institutes for Disaster Risk Reduction: Development of a Research Road Map for the Next Decade



March 19-20, 2015, Disaster Prevention Research Institute, Kyoto University, Uji, Kyoto, Japan

Participating Institutes: 86 (International: 56, Domestic: 30)
Total participants: 186 (International: 71, Domestic: 115)
From 21 countries/areas

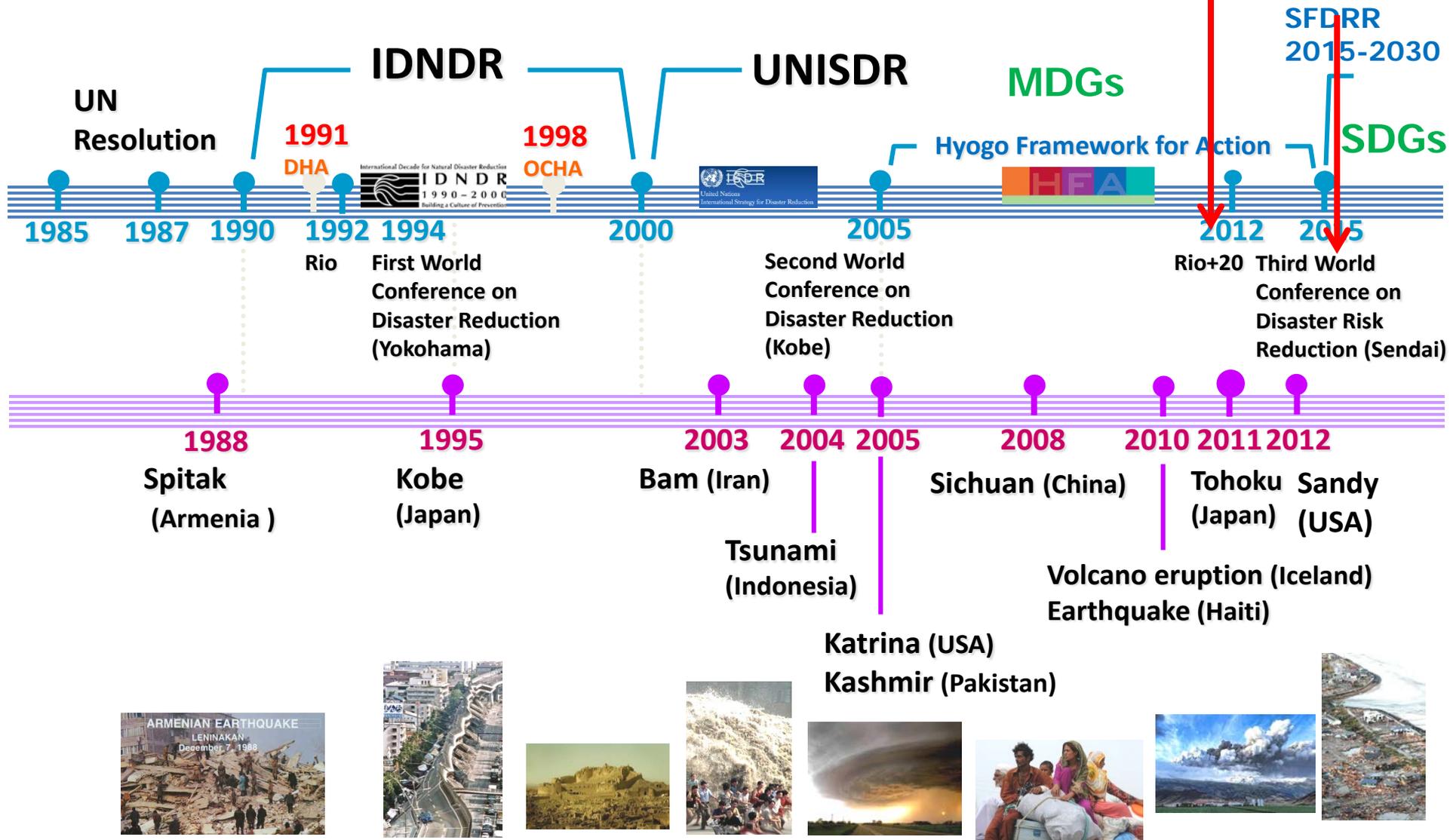


History of global DRR agenda

1st Summit (2011)

Courtesy of Badaoui Rouhban (2015)

2nd Summit (2015)





GADRI

Global Alliance of
Disaster Research Institutes

Since 2015

<http://gadri.net>

130 member organizations from
35 countries/areas

++

Secretariat: DPRI, Kyoto Univ.

Third Global Summit of Research
Institutes for DRR in Kyoto

251 participants (incl. 123 from abroad)
from 38 countries/areas
58 GADRI members (13 new)

First GADRI General Assembly
on March 21, 2017

128 participants
from 30 countries/areas

History of global DRR agenda

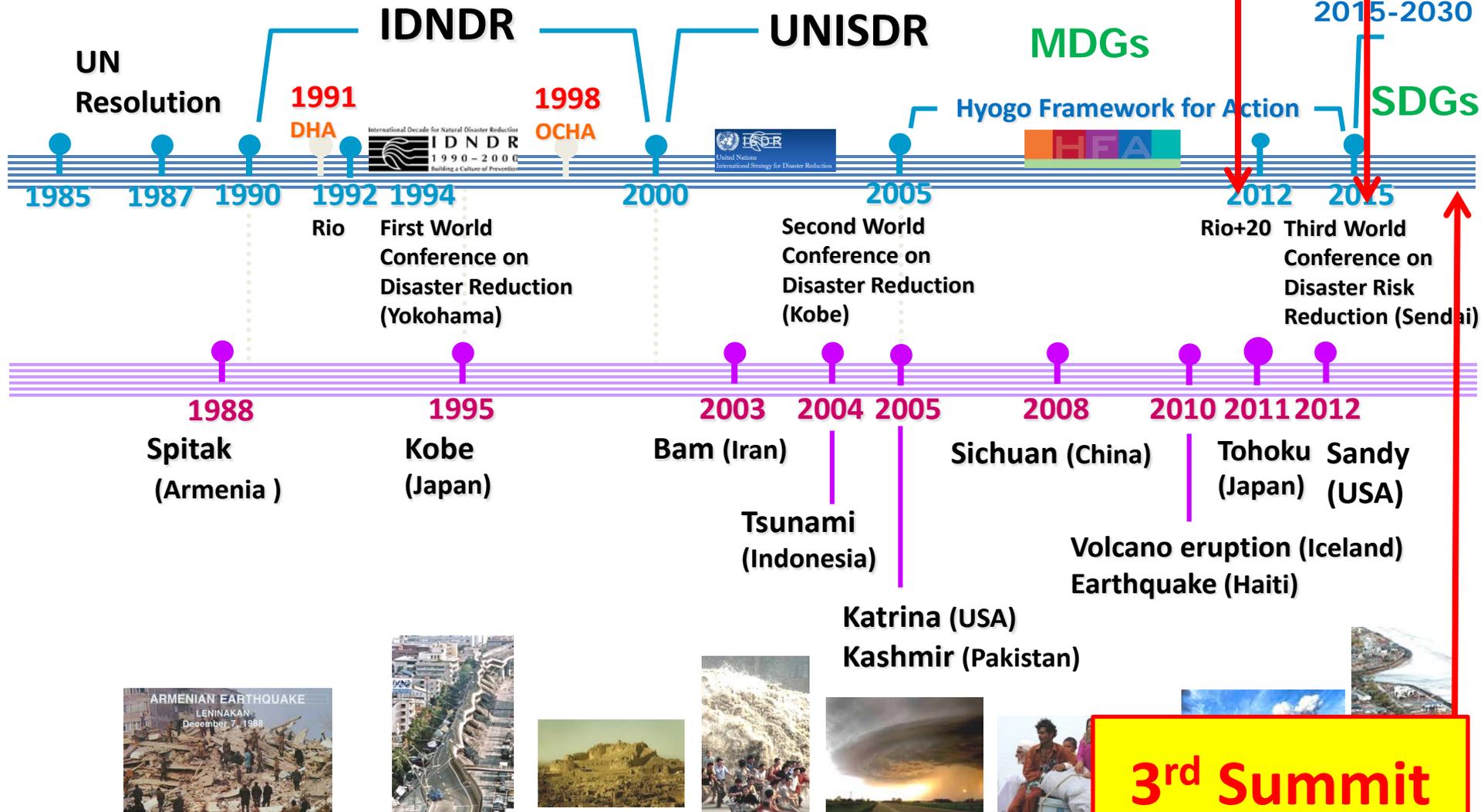
1st Summit (2011)

Courtesy of Badaoui Rouhban (2015)

2nd Summit (2015)

SFDRR 2015-2030

SDGs



3rd Summit



3rd Global Summit, March 19-21, 2017



Projects funded by SATREPS in Disaster Prevention and Mitigation as of September 2017

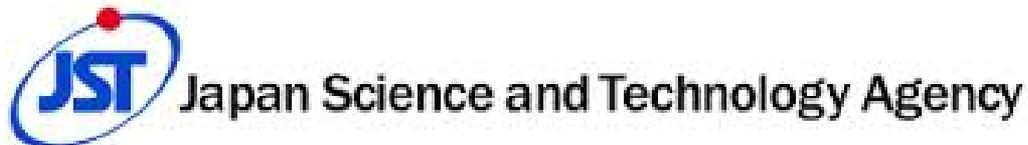
12 on-going projects

- Turkey (2012-) EQ and tsunami
- Bangladesh (2013-) flood, high tide
- Indonesia (2013-) volcano
- Myanmar (2014-) resilient system
- Colombia (2014-) EQ, tsunami, volcano
- Bangladesh (2015-) EQ, city planning
- Nepal (2015-) EQ
- Mexico (2015-) EQ, tsunami
- The Philippines (2016-) Extreme weather
- Bhutan (2016-) EQ, buildings
- Thailand (2017-) BCP
- Egypt (2017-) water resources

11 projects completed

- Indonesia (2008-2012) EQ, volcano
- Bhutan (2008-2013) GLOF
- Croatia (2008-2013) landslide
- The Philippines (2009-2014) EQ, volcano
- South Africa (2009-2014) EQ
- India (2009-2014) Extreme weather info.
- Peru (2009-2014) EQ, tsunami
- Cameroon (2010-2015) CO2 lakes
- Malaysia (2010-2015) landslide, flood
- Chile (2011-2016) EQ, tsunami
- Vietnam (2011- 2016) landslide

SATREPS For the Earth, For the Next Generation



SATREPS Projects implemented by DPRI

- Bangladesh 2013-2018 (PI: Prof. Hajime Nakagawa):
Research Project on Disaster Prevention/Mitigation Measures against **Floods and Storm Surges** in Bangladesh
http://www.jst.go.jp/global/english/kadai/h2507_bangladesh.html
- Indonesia 2013-2018 (PI: Prof. Masato Iguchi):
Integrated Study on Mitigation of Multimodal disasters caused by **Ejection of Volcanic Products**
http://www.jst.go.jp/global/english/kadai/h2506_indonesia.html
- Mexico 2015-2020 (PI: Assoc. Prof. Yoshihiro Ito):
Hazard Assessment of **Large Earthquakes and Tsunamis in the Mexican Pacific Coast** for Disaster Mitigation
http://www.jst.go.jp/global/english/kadai/h2710_mexico.html
- Egypt 2017-2022 (PI: Prof. Tetsuya Sumi):
Flash Floods Integrated Management Considering Climate Change for Secured Development in Wadi Basins
http://www.jst.go.jp/global/english/kadai/h2907_egypt.html