

3rd JASTIP Symposium

5 February 2017

MUHAMAD ALI MUHAMMAD YUZIR

DISASTER PREVENTION & PREPAREDNESS CENTER (DPPC)
MALAYSIA-JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY (MJIIT)
UNIVERSITI TEKNOLOGI MALAYSIA
KUALA LUMPUR

DISASTER PREPAREDNESS & PREVENTION CENTER (DPPC)

INTRODUCTION: DPPC

Support and Int'l Collaboration

JUC
DM Sub-Comm

Tsukuba
University

Kyoto University
Kyshu University

Shibaura Inst. Tech.,
Yamaguchi U.,
Kanazawa U.
iCHARM, NIED...

NCKU/DPRC (Taiwan)
JASTIP (Kyoto Univ.)
ASEAN Univ.....

Malaysia-Japan Advanced
Research Consortium

MJARC

Master of Disaster
Risk Management

DPPC

Disaster Preparedness
and Prevention Centre

MDRM Program

CPT

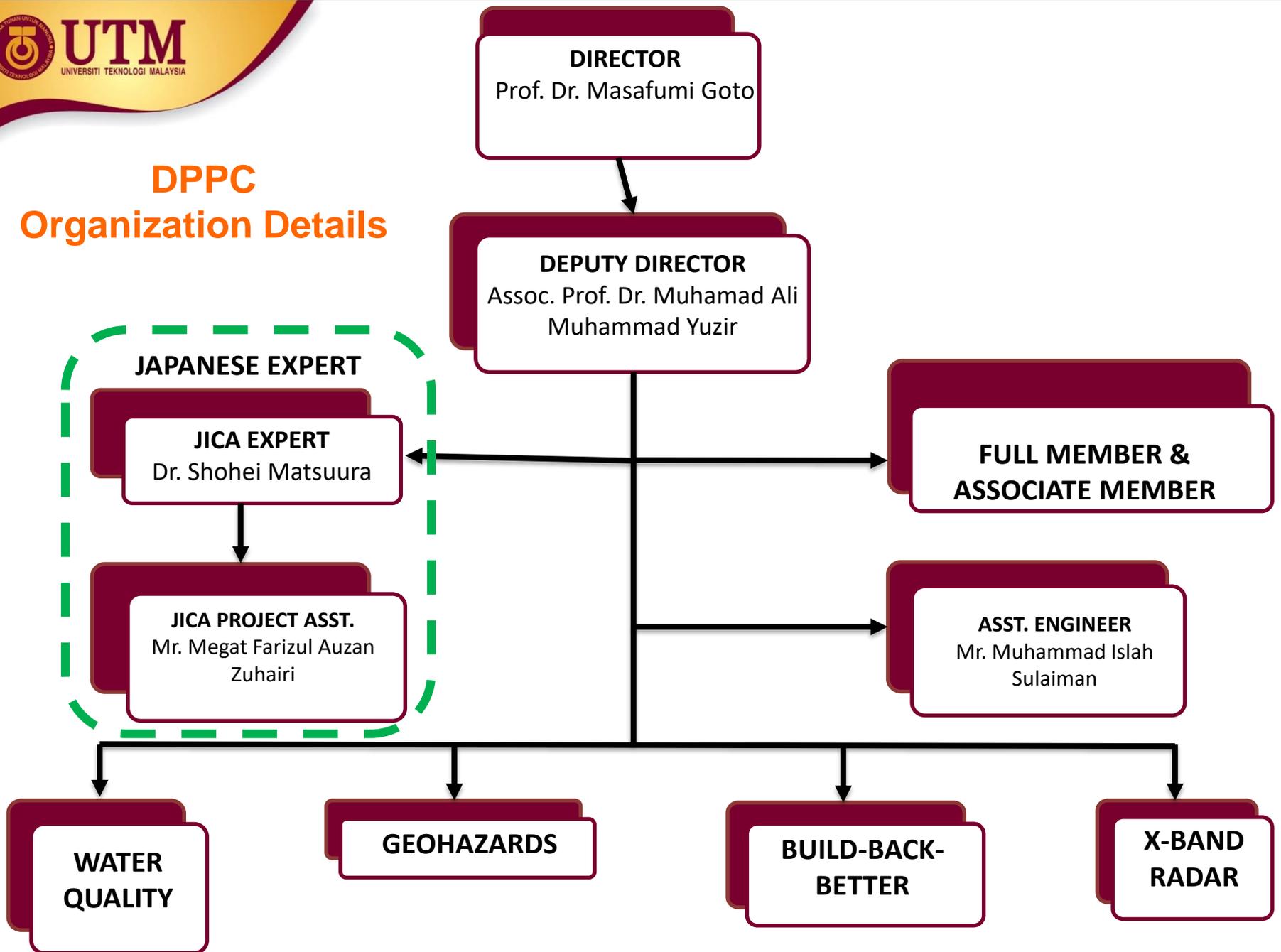
X-band MP Radar

Water, Waste
Management
- aftermath -

Multi-Geo Hazard

Build Back Better
BCP, City Planning

DPPC Organization Details



bhvarsit@bh.com.my

beritaip

info

Program Sarjana Pengurusan Risiko Bencana

- Lokasi pembelajaran di UTM Kampus Kuala Lumpur
- Pelajar perlu menyelesaikan 42 jam kredit.
- Pembelajaran merangkumi aspek kemahiran praktikal, kemahiran dan tanggungjawab sosial serta komunikasi kepemimpinan.
- Pelajar perlu memiliki ijazah pertama dalam bidang berkaitan seperti sains, teknologi atau kejuruteraan.



FOTO NIK HARIZY HASSAN/BH

Dr Zaini (tempat dari kiri) memdu gong sebagai tanda merasmikan Persidangan Serantau dalam Bencana Alam dan Majlis Makan Malam MJIT 2016.

UTM perkenal Sarjana Pengurusan Risiko Bencana

Oleh Mohd Khairul Anam Md Khairudin khairul.anam@bh.com.my

■ Kuala Lumpur

Universiti Teknologi Malaysia (UTM) melalui Institut Teknologi Antarabangsa Malaysia-Jepun (MJIT) memperkenalkan program Ijazah Sarjana Pengurusan Risiko Bencana, bermula bulan lalu. Ketua Setiausaha

Kementerian Tenaga, Teknologi Hijau dan Air, Datuk Seri Dr Zaini Ujang, berkata pengajian selama setahun ini akan mendedahkan pelajar kepada aspek pengurusan bencana secara berkesinambungan. Beliau berkata, program julung kali dilaksanakan di Malaysia itu adalah platform terbaik untuk pelajar menimba pengalaman dan pengetahuan daripada kepakaran Jepun,

termasuk persediaan serta langkah awal menangani sebarang risiko bencana. "Pengislahan program itu merangkumi kaedah pengurusan sebelum, semasa dan selepas suatu bencana berlaku. **Pelaksanaan tepal** "Dahulu, kita tidak pernah mengalami keadaan seperti tsunami di gempu bumi tetapi sekarang kejadian banjir pun tidak menentu. "Oleh itu, pelaksanaan

program ini adalah tepat untuk menerapkan kaedah pengurusan bencana secara lebih khusus dan sistematik," katanya. Beliau berkata demikian kepada pemberita selepas melancarkan program itu dan merasmikan Persidangan Serantau dalam Bencana Alam serta Majlis Makan Malam MJIT 2016 di sini, baru-baru ini. Sementara itu Dekan MJIT, Prof Datin Dr Rubiyah Yusof, berkata kemaskinan program

sarjana berkenaan menyasarkan pelajar memiliki ijazah pertama bidang berkaitan, selain mereka yang berpengalaman luas dalam lapangan industri. **Malakan projek di Jepun** Beliau berkata, pelajar perlu melaksanakan semua modul disediakan dalam tempoh tiga semester, termasuk satu semester pendek, selain berpeluang menjalankan beberapa projek selama dua minggu di Jepun.

"Pelajar disasarkan bukanlah graduan baharu tetapi lebih khusus kepada mereka (pembuat keputusan) daripada badan yang terlibat secara langsung dalam pengurusan bencana seperti Angkatan Pertahanan Awam (APM). "Seramai 10 pelajar sedang mengikuti program ini. Kami juga merancang menarik kemaskinan lebih ramai pelajar dari negara ASEAN," katanya.



Flagship Project

Fourth AUNSEED-Net Regional Conference on Natural Disaster September 2016

The 4th AUN/SEED-NET Regional Conference on Natural Disaster 2016 (RCND2016)

in conjunction with

The 1st International Conference on Advanced Technology and Applied Sciences (ICaTAS2016)

and

Malaysia-Japan Joint International Symposium (MJJIS 2016)

The 4th AUN/SEED-Net Regional Conference on Natural Disaster 2016

in conjunction with

The 1st International Conference on Advanced Technology and Applied Sciences (ICaTAS2016)

&

Malaysia-Japan Joint International Conference (MJJIC 2016)

CALL FOR PARTICIPANTS



Date:
September
6-7, 2016

Hosted by:
Malaysia-Japan
International
Institute of
Technology
(MJIIT)

Venue:
Seri Pacific
Hotel
Kuala Lumpur

KEYNOTE SPEAKER



Prof. Kaoru Takara is Professor of Disaster Prevention Research Institute, Kyoto University since 1998 and Adjunct Professor of United Nations University (UNU) since 2008.

His major is hydrology and water resources engineering, focusing on integrated water resources management (IWRM), precipitation-runoff analysis, modelling and forecasting, frequency and risk analysis of extreme events such as heavy rainfalls, floods and droughts, as well as sustainability science for disaster management

Theme

"TOWARDS DURABLE DISASTER PREPAREDNESS AND SUSTAINABLE RECOVERY"

THEMATIC AREAS

The Conference is scheduled annually to provide a forum to collect and disseminate the most updated technology and research on regional issues and public interests in the field of natural disaster in order to contribute to the community and to draw support from industry and government sectors.

The Conference covers broad topics of natural disaster, including but not limited to the following:

Earthquake Hazard	Tsunami Hazard	Volcanic Hazard	Geo-hazard
Fluvial and Coastal Disaster	Water-related Disaster	Early Warning System	Water Quality
Disaster Risk Management	Disaster Prevention and Mitigation		

The AUN/SEED – Net Regional Conference on Natural Disaster (RCND) is a continuing series of regional conferences on natural disaster previously hosted by Indonesia and The Philippines.

The Malaysia-Japan International Institute of Technology (MJIIT), Universiti Teknologi Malaysia (UTM) Kuala Lumpur invites researchers, professors, students and practitioners on disaster related studies and researches to submit abstracts for the 4th AUN/SEED – Net Regional Conference on Natural Disaster (RCND2016) to be held at Seri Pacific Hotel Kuala Lumpur.

PARTICIPANT FEES

FOR STUDENTS

RM 400

FOR NON-STUDENTS

RM 800

For registration, please directly email to utmrcnd2016@gmail.com before 16th of August 2016.



AUN/SEED-Net



Conference Secretariat:
e-mail: utmrcnd2016@gmail.com
Tel: 603 2203 1200 Fax: 603 2203 1266

<http://mjiit.utm.my/rcnd2016/>

Nurturing Values, Empowering Minds

new

MASTER OF DISASTER RISK MANAGEMENT (MDRM)

- ❖ Taught course Master Programme
- ❖ Full-Time, Mid-career professional
- ❖ 2 Semesters + 1 Short Semester
- ❖ Professional support from Japan
- ❖ More details at mjiit.utm.my/mdrm

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UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Malaysia-Japan
International
Institute of Technology
(MJIT)



Japan International
Cooperation Agency



JASTIP Signing Ceremony



JASTIP Disaster Prevention Joint Laboratory



Japan - ASEAN
Science, Technology and
Innovation Platform

Researchers from all ASEAN and Japan



Community Initiative
Research for SDG

Joint lab
Environment · Energy

Environment · Energy
National Science and Technology
Development Agency (Thailand)
(NSTDA)



Japan-ASEAN Joint Research
to Achieve SDGS

Disaster Prevention

Bio-resources ·
Biodiversity

Joint lab

Joint lab

Disaster Prevention × Biodiversity

Research into prevention of peat bog fires for
biodiversity conservation and ecological restoration

Bio-resources · Biodiversity

Indonesian Institute of
Sciences (LIPI)



Malaysia-Japan International Institute of Technology (MJIIT), UTM Kuala Lumpur



DPPC: Laboratories (Level 2 MJIT)



The **laboratory** will be used mainly for water, geohazard and microbiological testing for disaster response.



MJIT with JASTIP will establish a **disaster prevention joint-laboratory** which aims to build up a comprehensive international laboratory for disaster prevention researches dealing with heavy rain and flood, sediment disaster, volcanic disaster, atmospheric disaster, earthquake and tsunami, etc. which break out frequently in ASEAN countries. MJIT provides office space for visiting JASTIP and/or Japanese counterparts.

DPPC: Office (Level 2 MJIIT)



JASTIP Disaster Prevention Joint Laboratory (Level 2 MJIIT)



Flagship & JASTIP 2017

Main study framework

JASTIP

- Assessing Water Quality in the Langat River Basin During Disaster Period Using Integrated Remote Sensing and Modeling Methodologies



Aftermath counter measure
on water supply and
sanitation in disaster area



Integrated Study On Disaster Management In Malaysia

Development of
natural disaster
vulnerability index
for Malaysia

Machine learning
and drones for
disaster response
and relief
operation



Flood and landslide
forecasting



Objectives

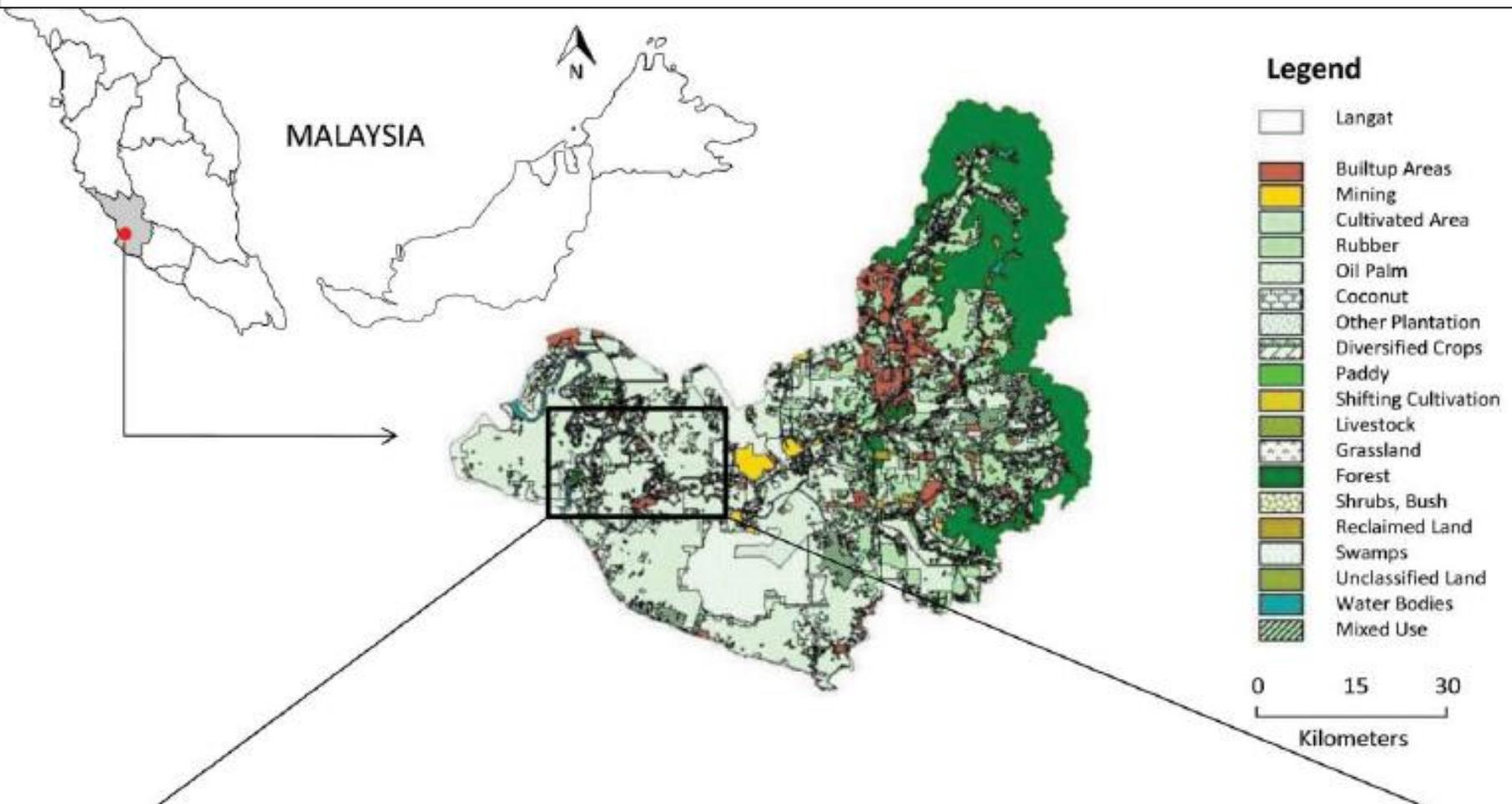
- To produce a risk map for natural disaster induced by climate change considering the adaptive capacity of the Malaysian people.
- To produce plan or systems for disaster risk reduction.
- To engage and educate the community on disaster issue (colloborate with NCKU, Taiwan)

Challenges:

- Subjects to regular flooding



LAND USE



(Source : Mokhtar et al., 2011)

Study Area & Scenario

- 1) 1 river basin (Langat River Basin).

- 2) Scenario for Risk Maps
 - i) Scenario 1
(Worst case scenario using current-MMD or historical data-GCM)
 - ii) Scenario 2
(Worst case scenario induce by climate change-GCM 50 or 100 yrs)

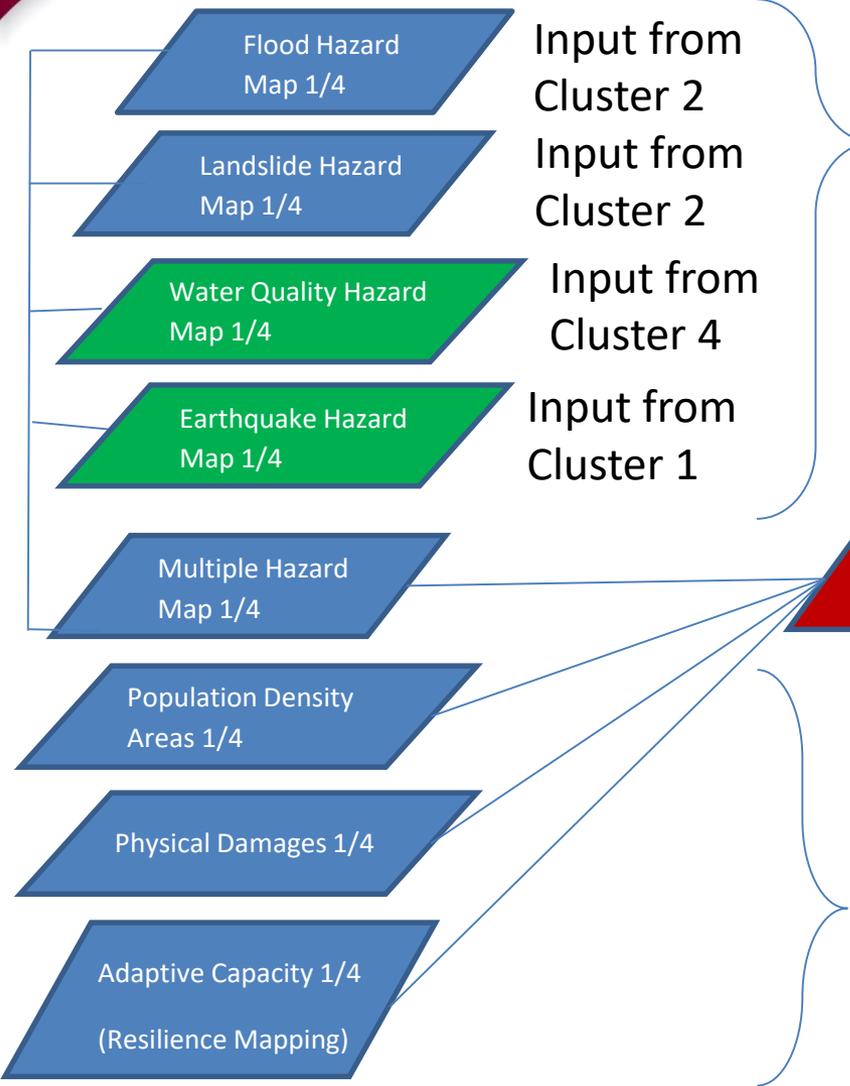
Research Framework

1 COMMON STUDY – 1 river basins (Langat River Basin)
SCENARIOS – 1) Worst case scenario (current data) 2) Worst case scenario (induced by climate change)

Scenarios

Scenario 1: worst case scenario (Historical data)

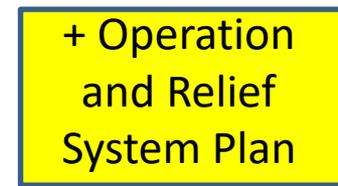
Scenario 2: worst case scenario (Induced by climate change)



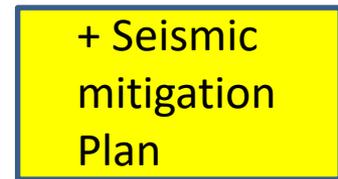
Disaster Risk Reduction



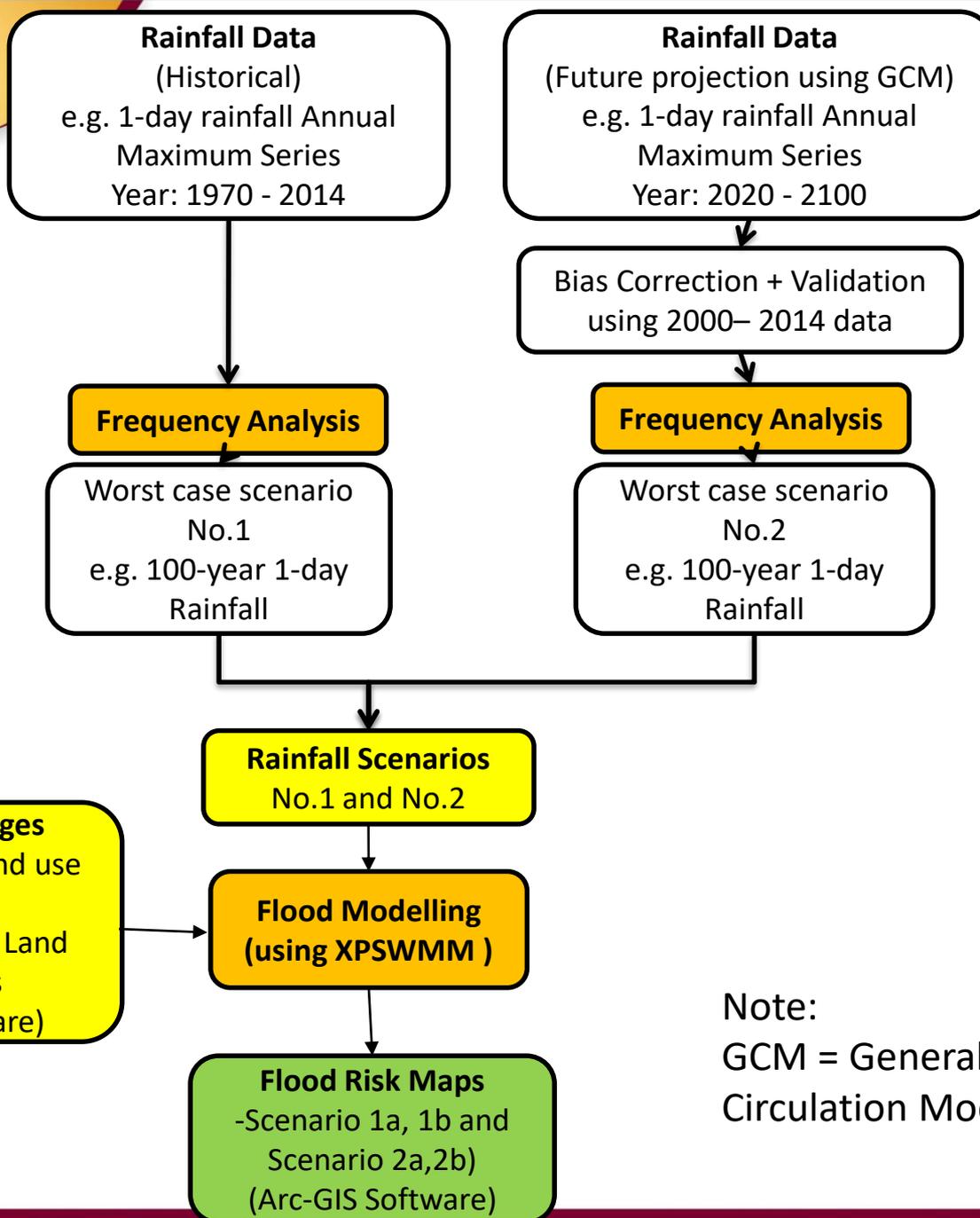
Input from Cluster 2



Input from Cluster 3



Input from Cluster 1



Note:
GCM = General
Circulation Model

Terima Kasih
Thank you
ありがとうございます
- Arigatou Gozaimasu-