

Session 2

Technologies for Water-related Disaster Management

**Ministry of Land, Infrastructure,
Transport and Tourism (MLIT), JAPAN**

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Technologies for Water-related Disaster Management

Main Message

Technologies should be incorporated into domestic institution and culture.

To cope with extreme natural events, Disaster Management should evolve from personal knowledge to institutional arrangements, and eventually become a part of national or local culture. New technologies, both advanced and traditional, could become self-sustained and rooted in developing countries if they are carefully customized for regional circumstances.

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Time schedule

0:00-0:10	Introduction of Session
0:10-1:10	Presentation (15min x 4)
1:10-1:40	Discussion
1:40-2:00	Summary of Session

Technologies for Water-related Disaster Management

Presentation

- How to introduce new technologies to, and make them **rooted in** developing countries;
- How to sustain local traditions (**culture**) against disasters.

Note: Presentation is not for introducing or showing off specific technologies.

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Disaster Management

Example (Traditional Technologies)

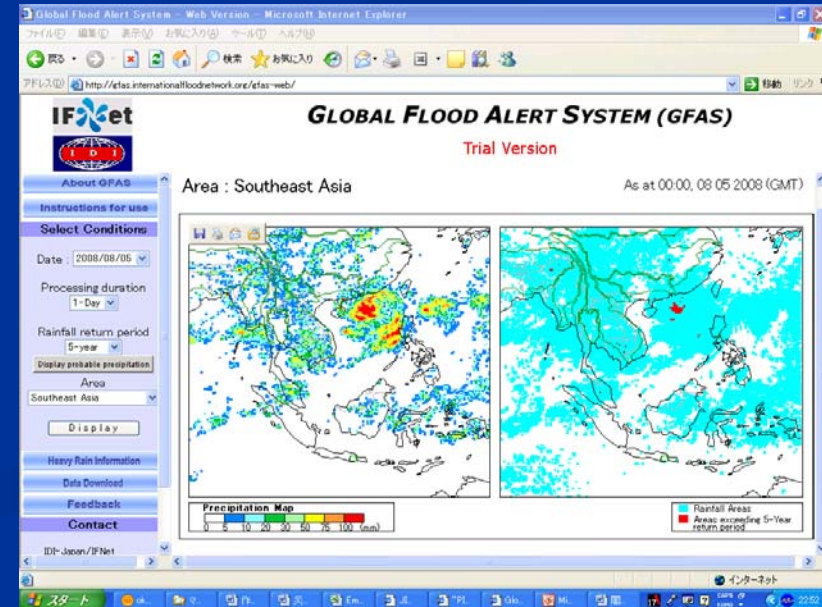
- *Soda-Mattress* Riverbank Protection in Mekong River, Lao PDR
- Reasons of success
 - Simple construction methods
 - Low cost local materials
 - Creating job opportunities
 - Repeated trainings



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Example (Advanced Technologies)

- **Global Flood Alert System (GFAS), Japan**
Flood forecasting and warning system based on satellite precipitation data
- **Advantage**
 - Global coverage
 - No ground observation
- **Challenge**
 - Accuracy improvement
 - Widespread use



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Discussion

- **Share experience, knowledge, innovative ideas for rooting new technologies and sustaining local traditions against water-related disasters**

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Potential Contributors

- **MLIT (ICHARM, IDI, JAXA), Japan**
- **DSI, Turkey**
- **MCTPC, Lao PDR**
- **MWR, China**
- **Middle East Technical University, Turkey**

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