

**11th GEOSS Asia-Pacific Symposium**  
*Strengthening Regional Cooperation through AOGEOSS  
for the SDGs, Paris Agreement and Sendai Framework*  
Kyoto, Japan, 24 - 26 October 2018

# Task12

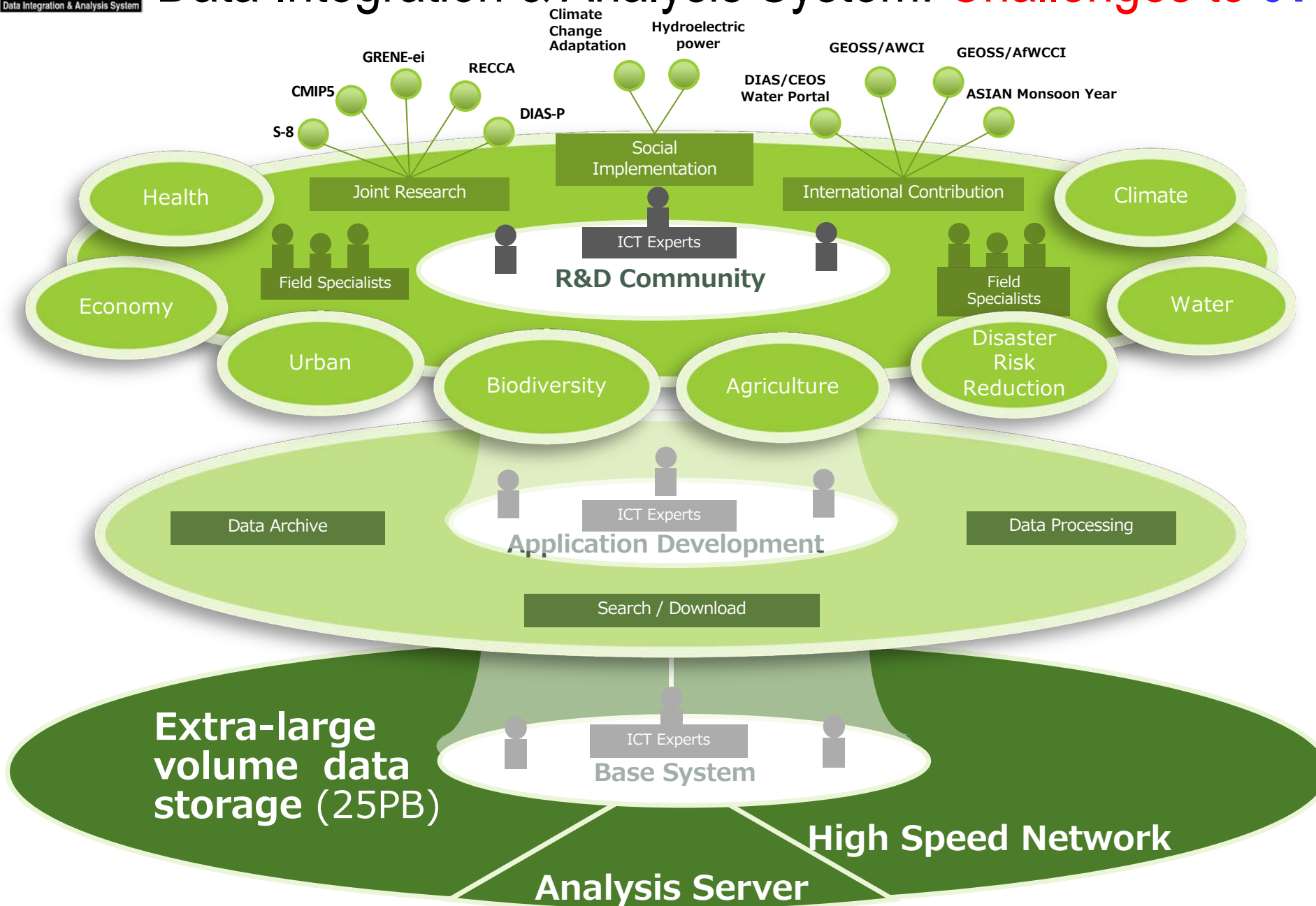
## Users Engagement and Communication

1. Public
2. Government
3. Private Sector
4. Regional Community

**Toshio Koike**

Director, International Centre for Water Hazard and Risk Management (ICHARM)  
Council Member, Science Council of Japan (SCJ), Cabinet Office of Japan  
Professor Emeritus, the University of Tokyo  
Chair, Japan GEO

# Data Integration & Analysis System: Challenges to 5V



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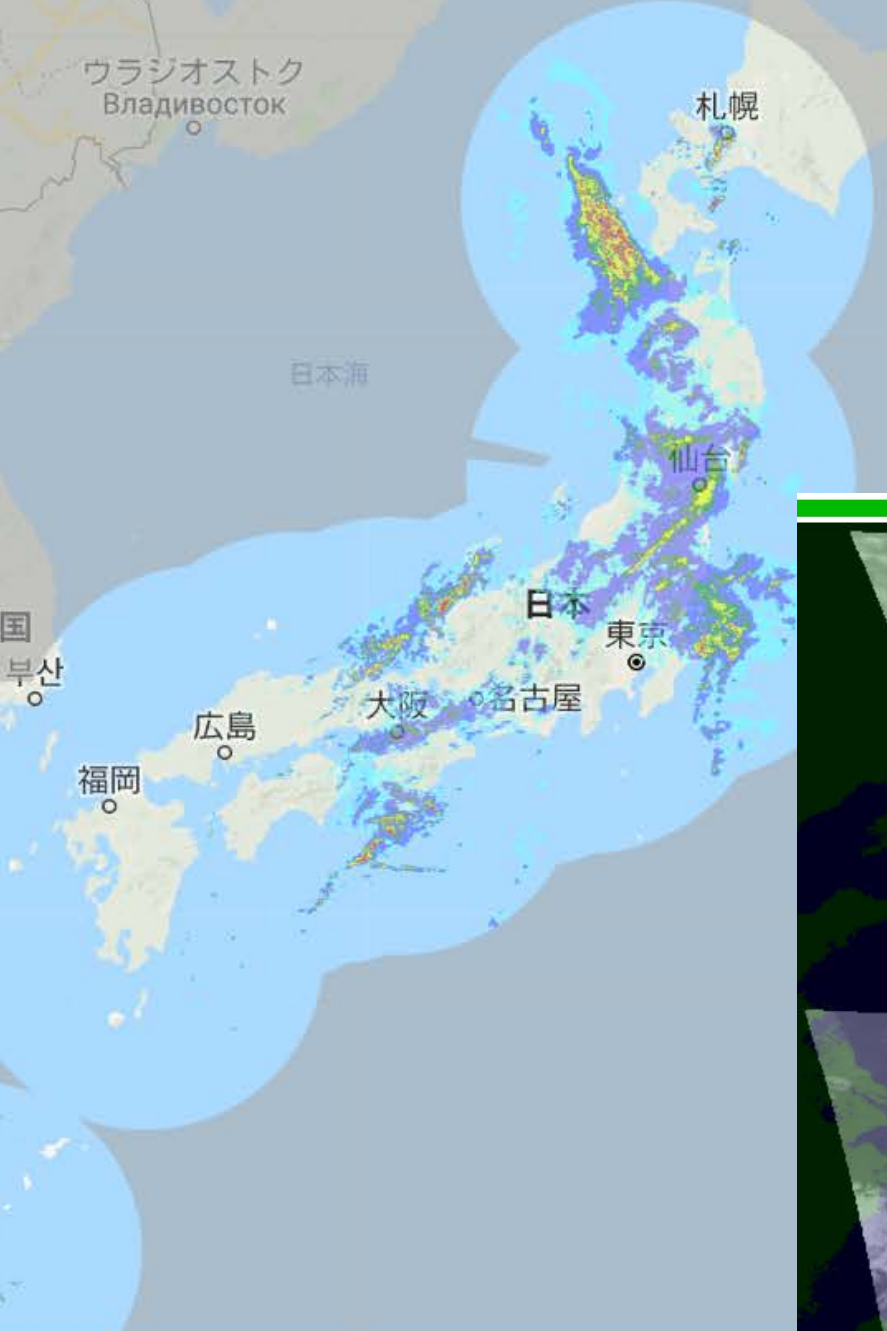
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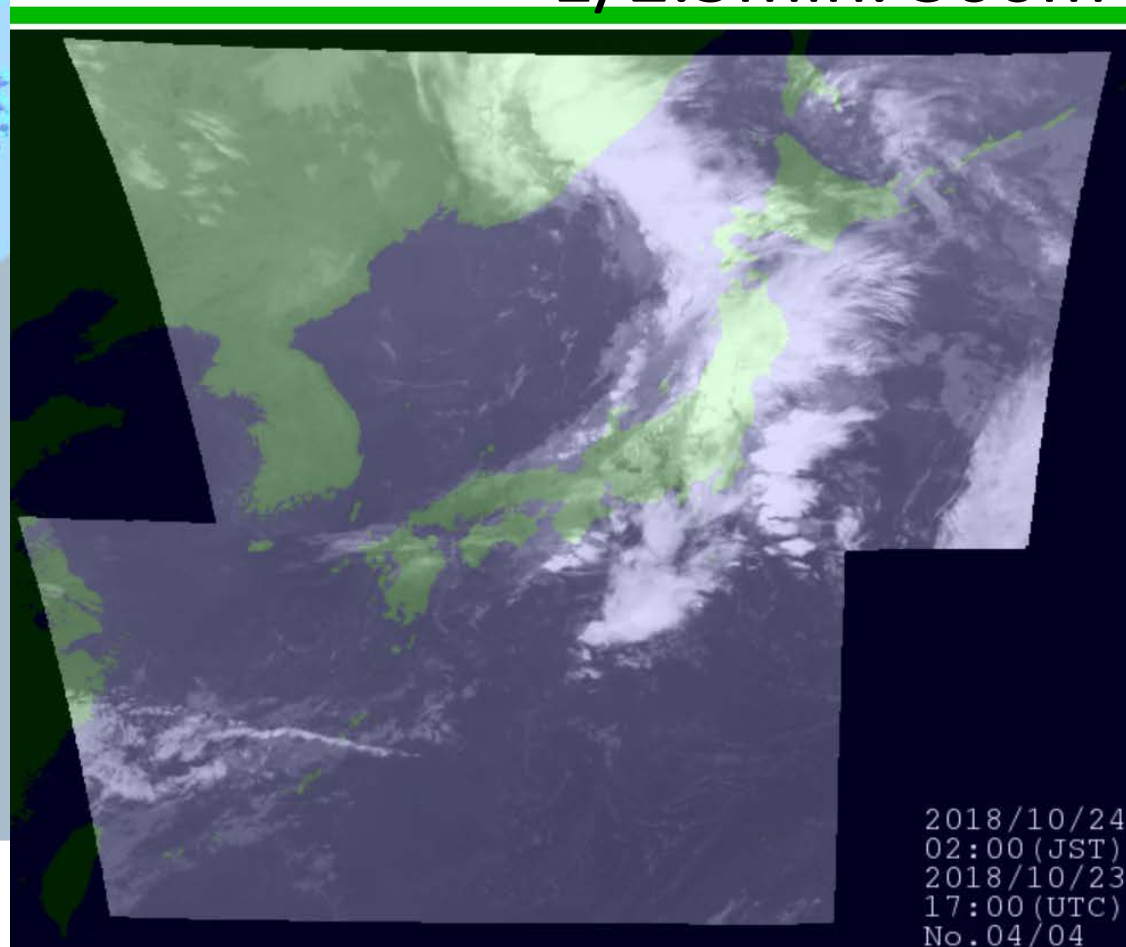
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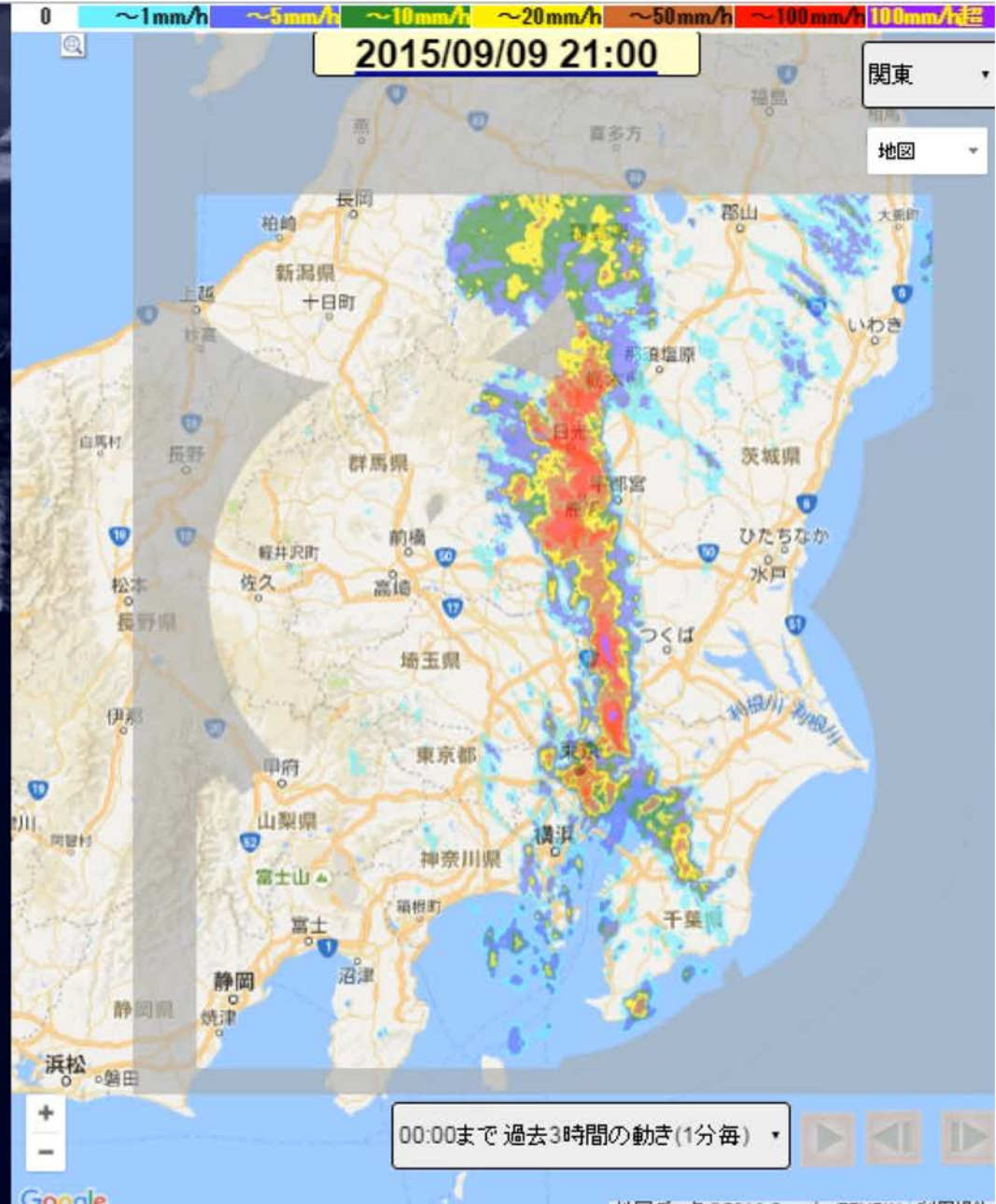
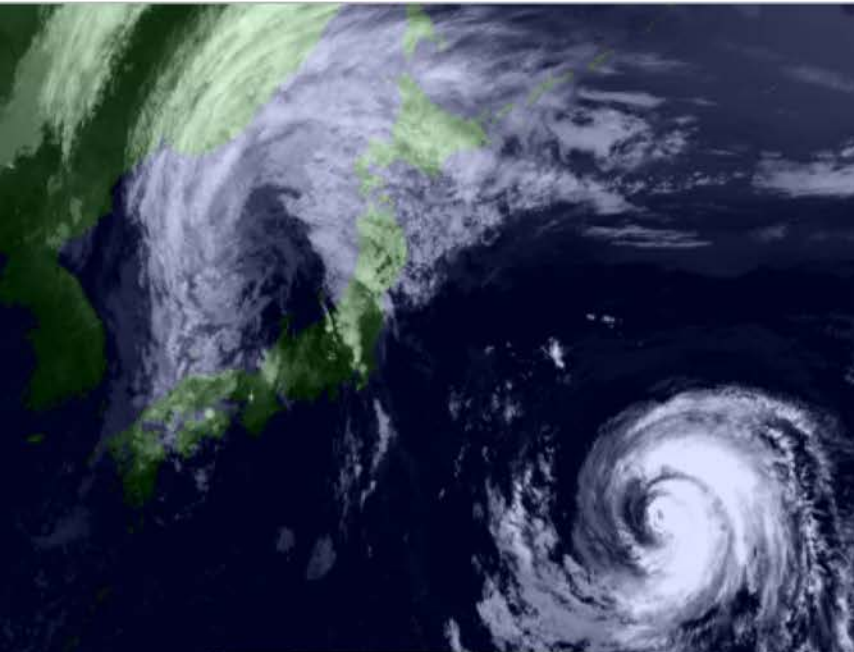


X-band MP Radar 39  
1/1min. 250m, quantitative

Himawari 8  
1/2.5min. 500m







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Observation & Simulation

Community

Training/  
Exercise

Mutual  
Support

Self-Help

Virtual  
Reality

Public/Private R&D  
Investment Strategic  
Expansion Program :  
**PRISM** *started in 2018*  
ICHARM/U-TOKYO/DIAS

preparedness

evacuation

Society Function

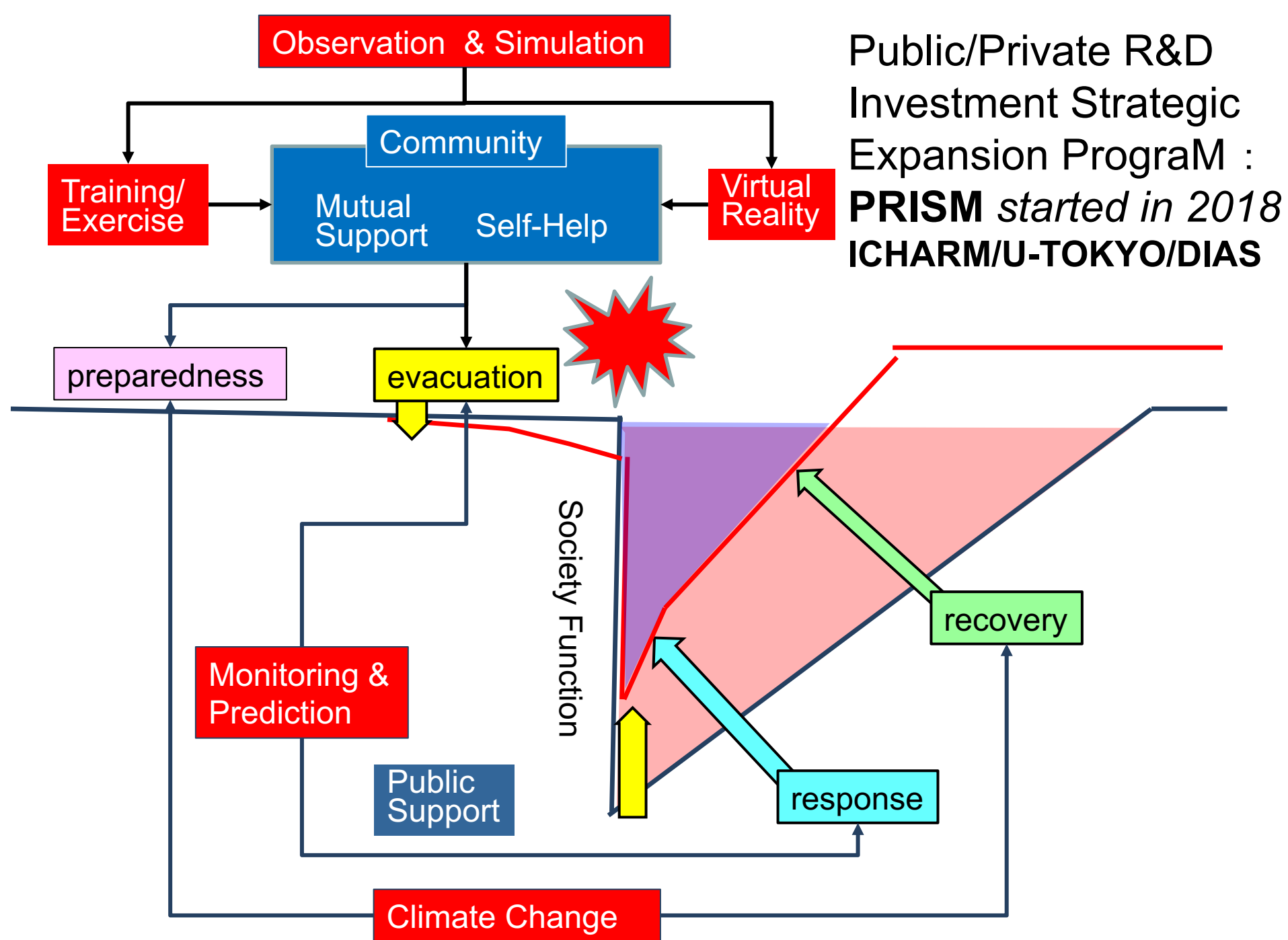
Monitoring &  
Prediction

Public  
Support

response

recovery

Climate Change



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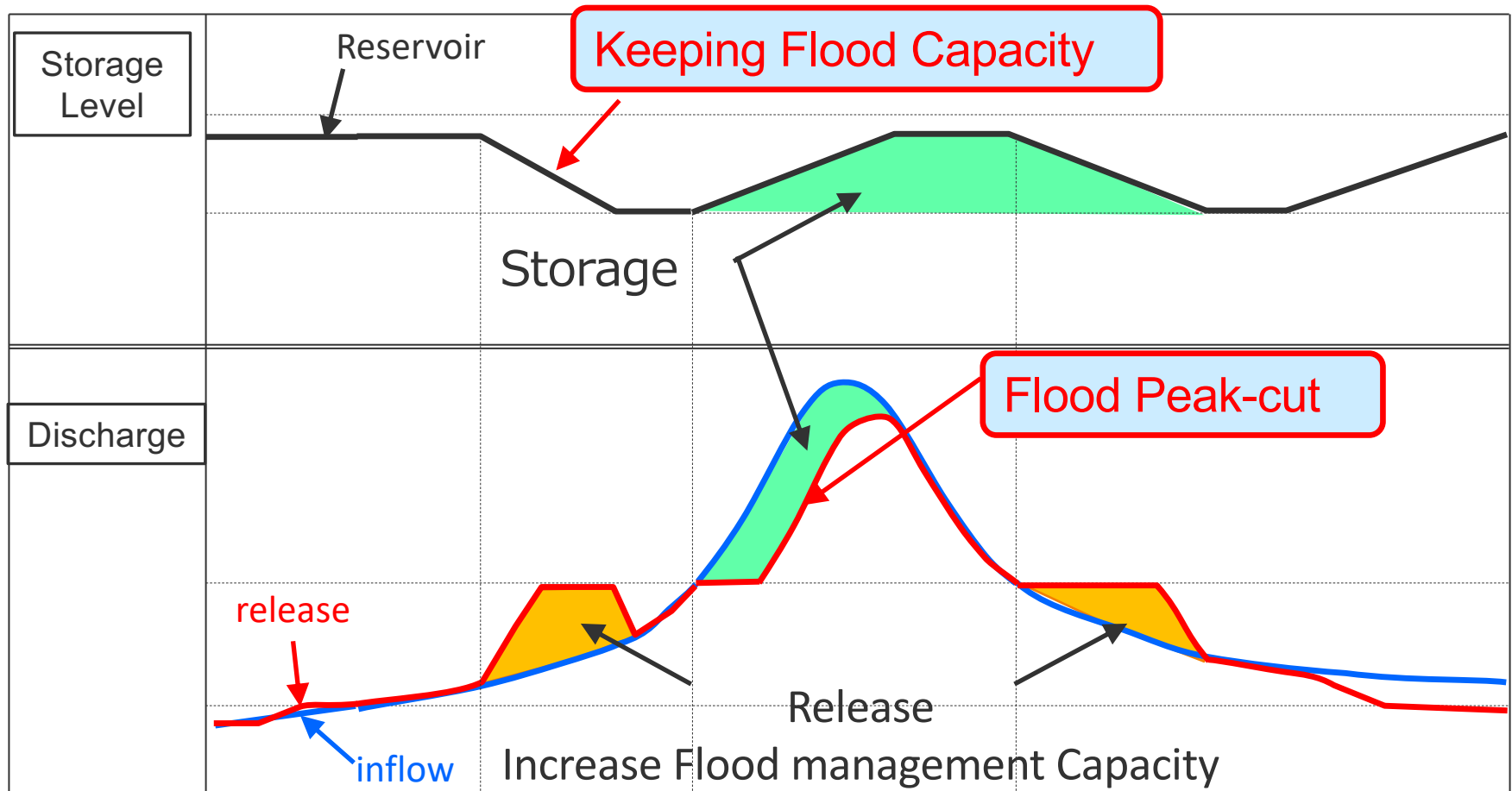
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# Effective Power Generation by Using Integrated Snow Information

10

## Step 1

Preparation of inputs for precipitation and temperature datasets including VPT

## Step 2

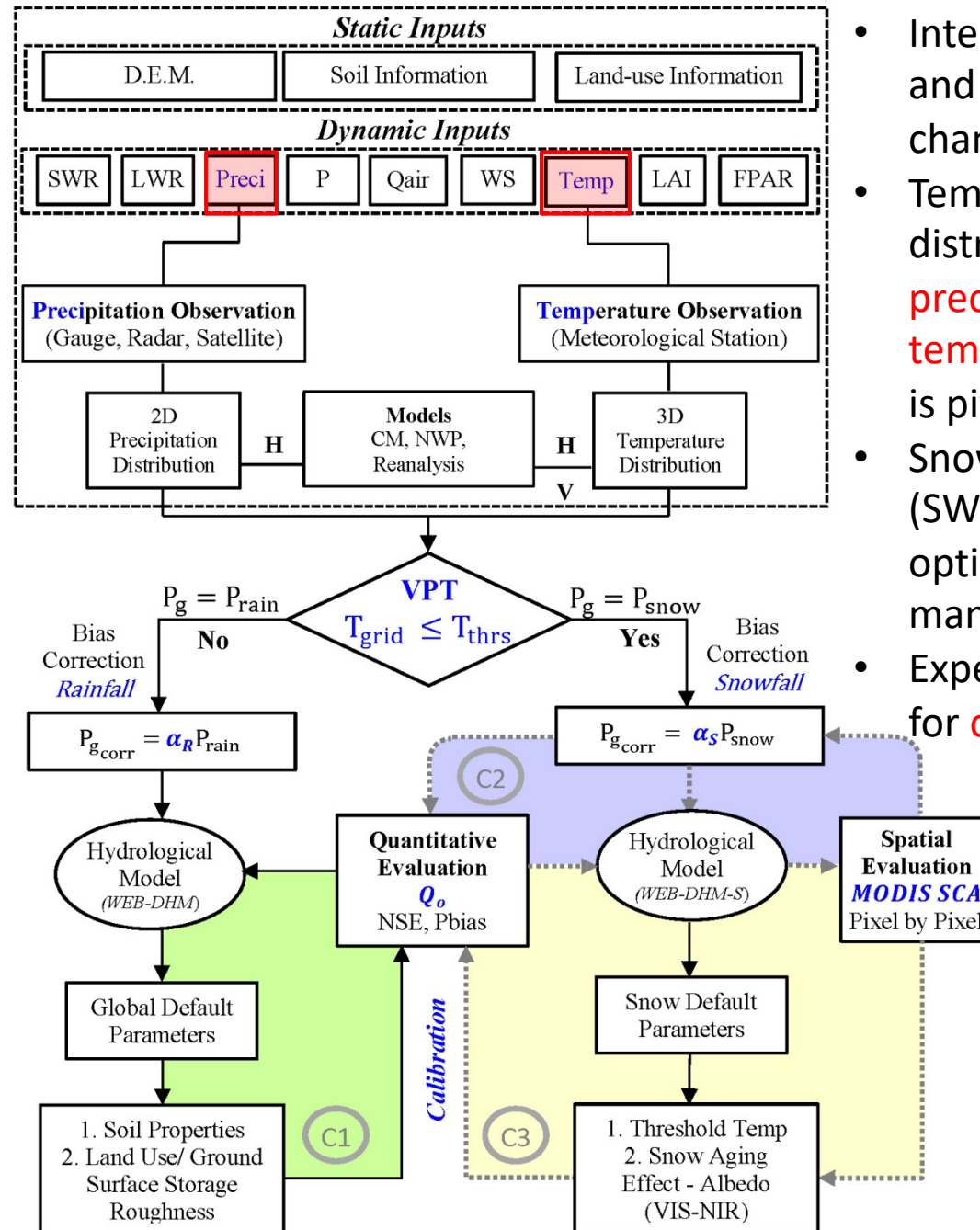
Classification of precipitation

## Step 3

Bias correction of rainfall and calibration for Global Default Parameters

## Step 4

Spatiotemporal bias correction of **Snowfall** and calibration and **Snowmelt** process



- Interplay of **precipitation** and **temperature** with changing altitudes
- Temporal and spatial distribution of **precipitation** - 3D **temperature** distribution is pivotal
- Snow Water Equivalent (SWE) **Prediction** – optimal water resource management
- Expected consequences for **climate change**

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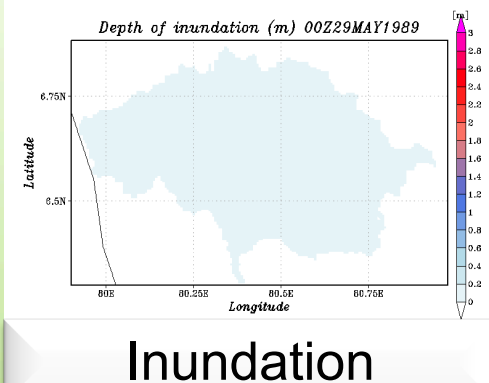
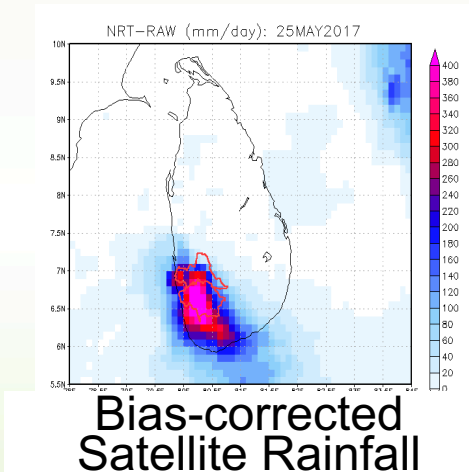
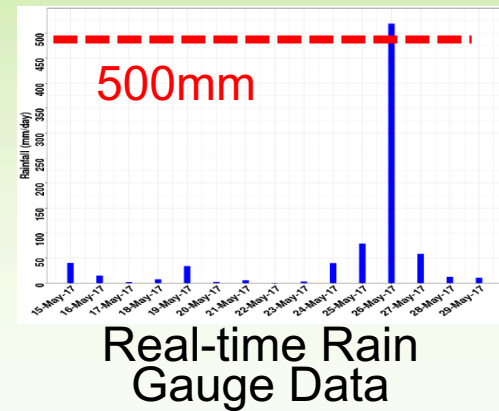
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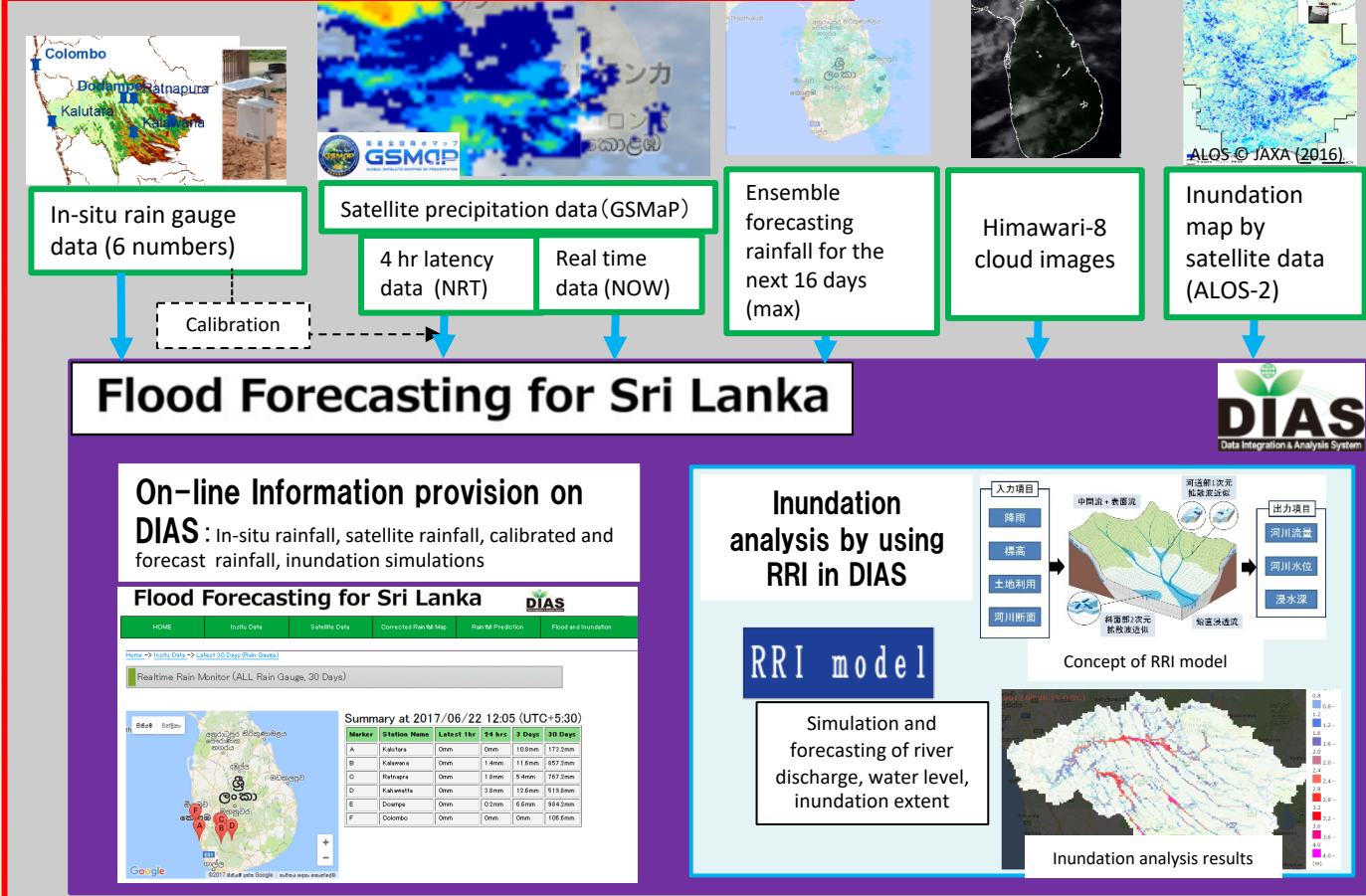
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# DIAS-ICHARM: Flood Information Sharing Support in Sri Lanka

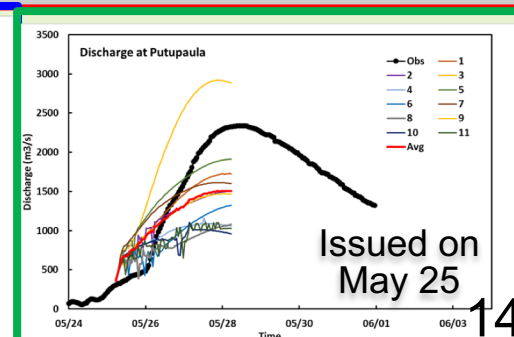
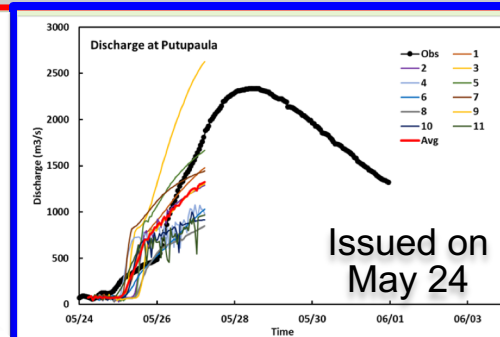


**Implemented by EDITORIA and ICHARM on DIAS**



Ensemble  
Flood  
Prediction

72hr  
11 ensembles  
every 24hr



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