



The Regional Integrated Multi-Hazard Early Warning System for Africa and Asia

CAP in RIMES

1. RIMES Overview
2. DSS tools developed in RIMES
3. CAP Integration Plan

About RIMES

- ❖ Established on 30 April 2009
- ❖ Registered with the UN under Article 102 of the UN Charter
- ❖ Intergovernmental, owned and managed by its Member States
- ❖ 45 Member and Collaborating States in Asia, Africa, and the Pacific



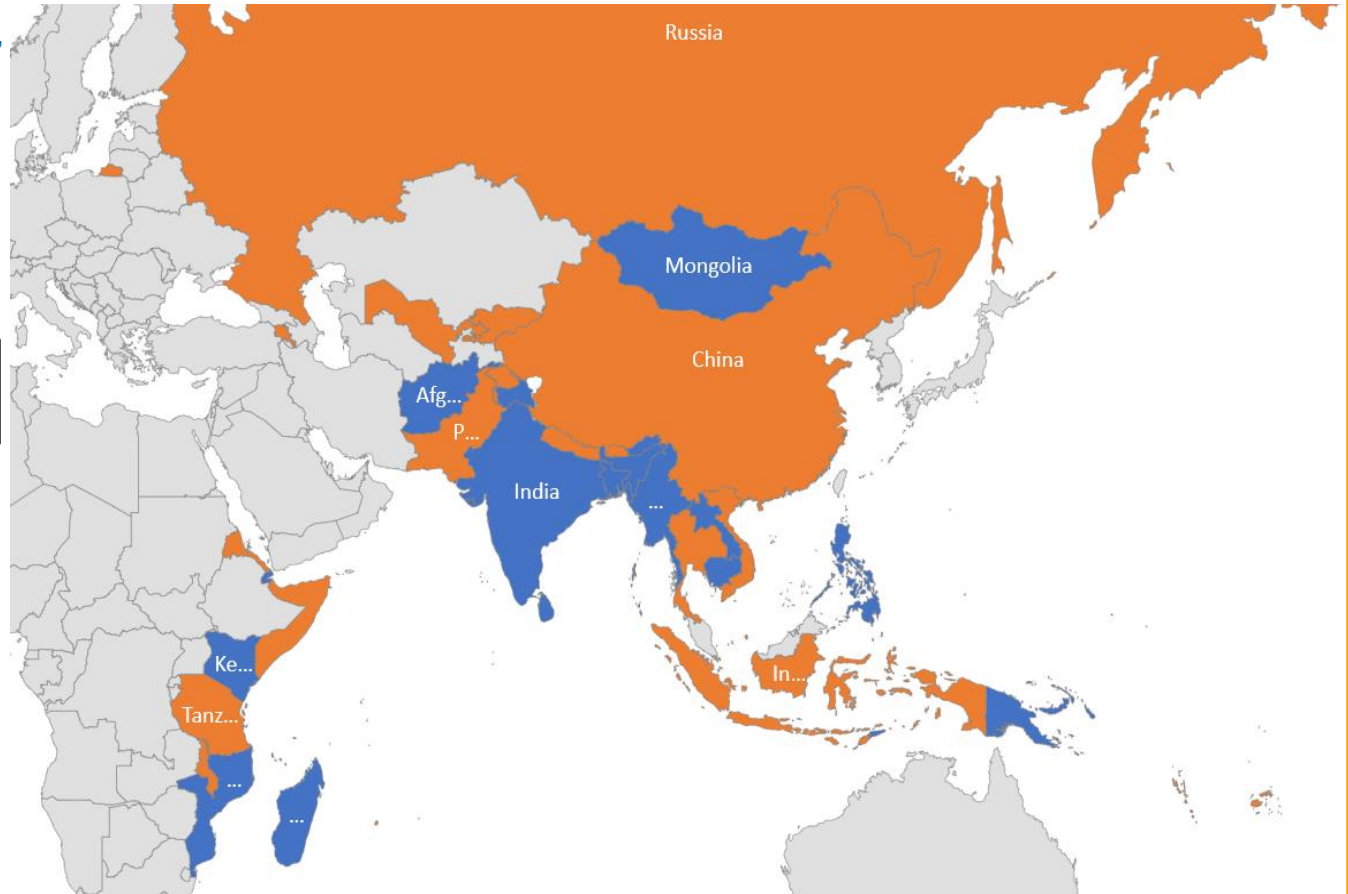
Know More About us at
www.rimes.int

RIMES Membership

19 Member States: Afghanistan, Bangladesh, Cambodia, Comoros, Djibouti, Lao PDR, Maldives, Seychelles, India, Kenya, Madagascar, Mongolia, Myanmar, Mozambique, Papua New Guinea, Philippines, Sri Lanka, and Timor-Leste, Tonga

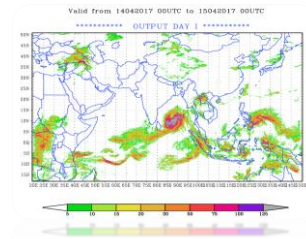
India as **RIMES Council Chair**,
Maldives as **Secretariat**

26 collaborating countries:
Armenia, Bhutan, China, Indonesia, Fiji, Kyrgyzstan, Mauritius, Nepal, Pakistan, Somalia, Samoa, Marshall Island, Eritrea, Vanuatu, Tuvalu, Malawi, Cook Island, FSM; Russia
Tanzania, Thailand, Vietnam, and Uzbekistan have signed Memorandum of Understanding



RIMES Objective

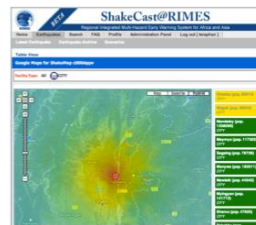
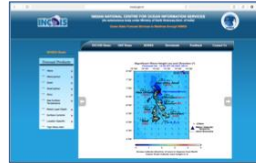
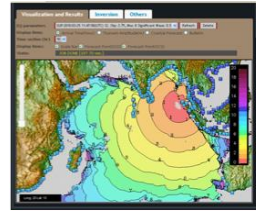
- ❑ Facilitate establishment and maintenance of core regional observation and monitoring networks
- ❑ Provide regional tsunami services within UNESCO/IOC framework
- ❑ Support NMHSs for providing localized hydro-meteorological risk information within WMO framework
- ❑ Enhance warning response capacities



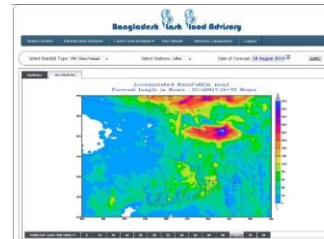
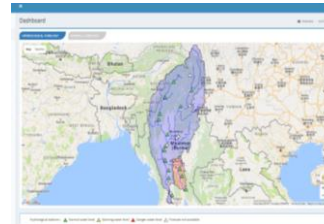
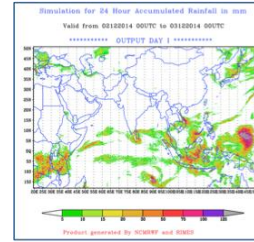
Key Services

EQ, tsunami & ocean services

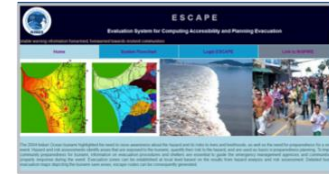
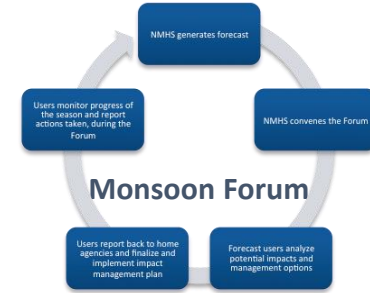
Improving data availability



Weather, climate & hydrological services



Capacity building



Forecast Application in Risk Management (FARM) School

DSS Developed at RIMES

- Agriculture advisory
- Crop Calendar

SESAME



- Public Health advisory
- Extreme heat stress indicators

CRISH



- Disaster Management and response planning

SMART



- OCEAN INFORMATION SYSTEM
- Ocean State advisory

OSFAS



- Flood forecast
- Flash flood
- Outlooks

Flood
DSS



- Climate Projections
- Data Analysis
- CMIP5 Repository

CDAAS



Flood DSS

- ❑ Basin-based flood forecasting and warning system
- ❑ web-based system for generation of basin discharge and river level forecasts based on 3-day and 10-day weather forecasts, analysis and mapping of flood risks, and generation and issue of appropriate advisories

- ❑ **Specialized Expert System for Agro-Meteorological Early Warning**
- ❑ a web portal for mapping crop sensitivity to a predicted weather condition, generating crop advisories using machine-learning algorithm, and disseminating multi-timescale weather/climate, risk, and guidance information by email, SMS, fax, social media, and mobile application, with capability for receiving user feedback

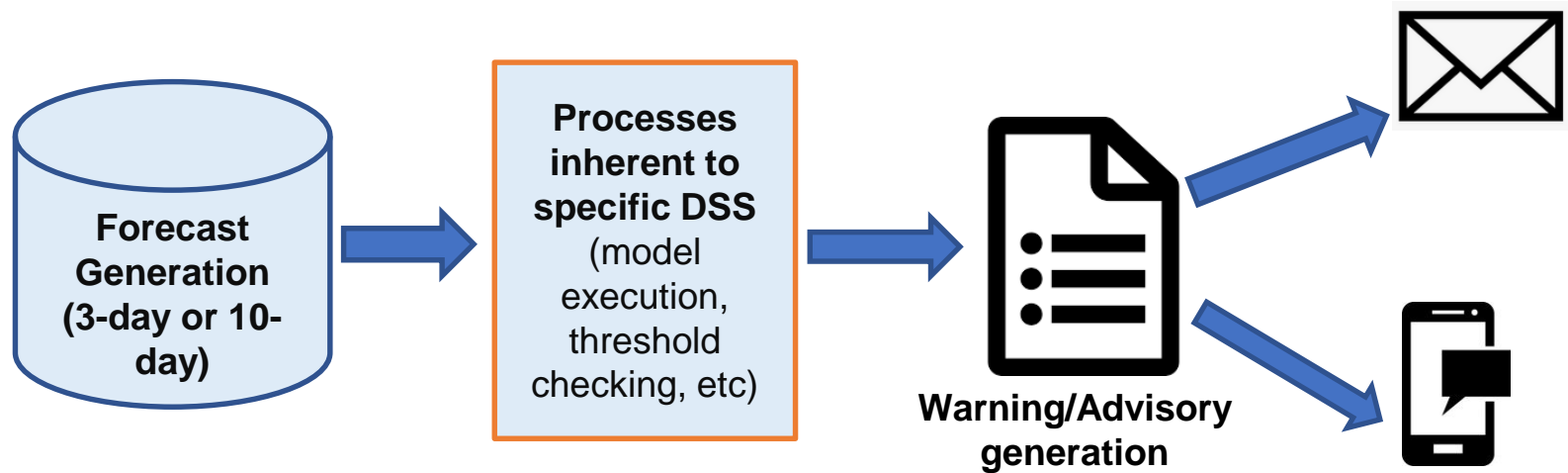
- ❑ **C**limate **R**isk **I**nformation **S**ystem for Public **H**ealth
- ❑ A public health advisory system that is based on 3-day and 10-day forecasts of extreme weather conditions, for diseases that have high correlation with weather patterns
- ❑ Analyzes and maps localities that have likelihood of disease occurrence, generates and disseminates weather forecast products with accompanying health advisories for each disease

- ❑ **Ocean State Forecasting and Advisory System**
- ❑ Web-based system for generating advisories based on location-specific ocean state forecast information from INCOIS' Indian Ocean Forecast System (INDOFOS).
- ❑ The system disseminates 3- day forecasts of wave and swell height, direction, and period, sea surface current and temperature, and wind speed, with accompanying advisories
- ❑ Also provide buoy data and drift alert

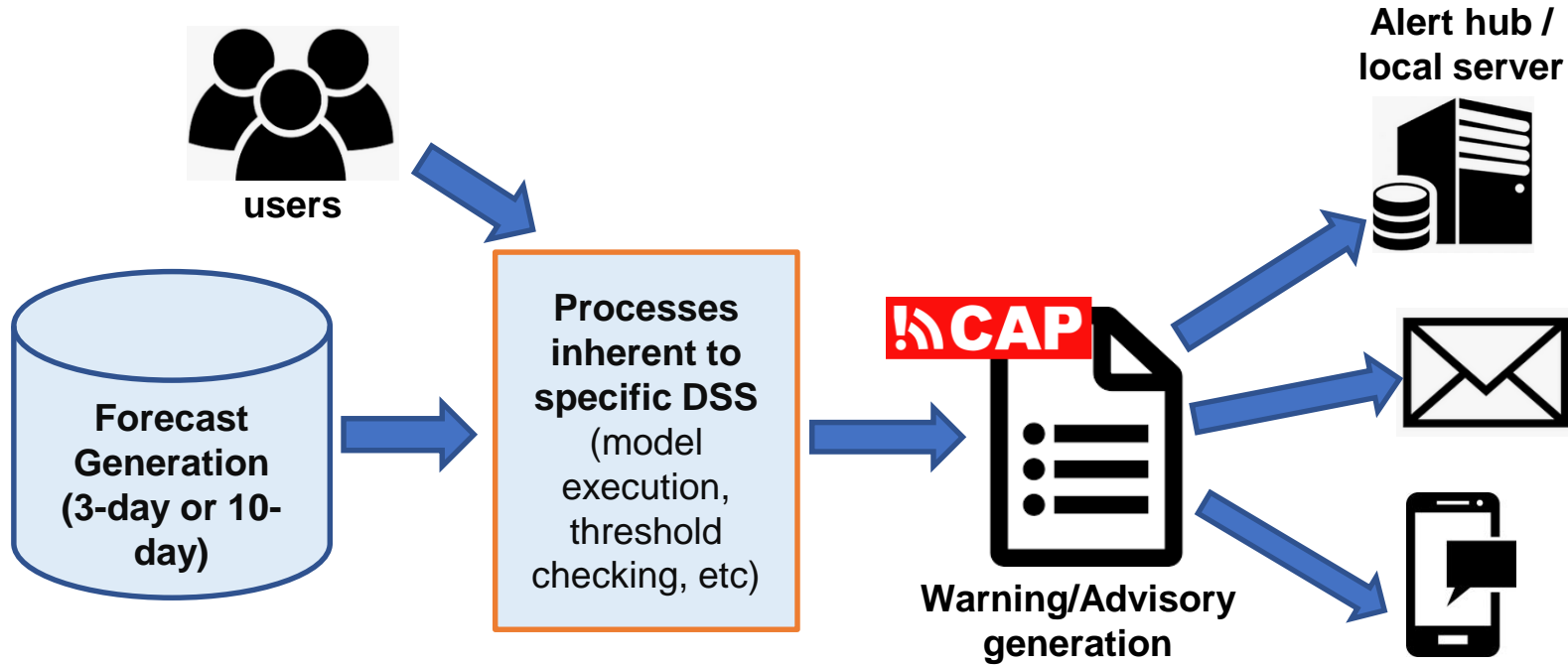
SMART

- ❑ **S**ystem for **M**ulti-hazard potential impact **a**ssessment, alert, emergency **r**esponse planning and **t**racking
- ❑ provide updated information about latest weather forecast product for assessing its associated risk and potential impact
- ❑ Portal also has a data management archive which helps to understand past disasters that occurred

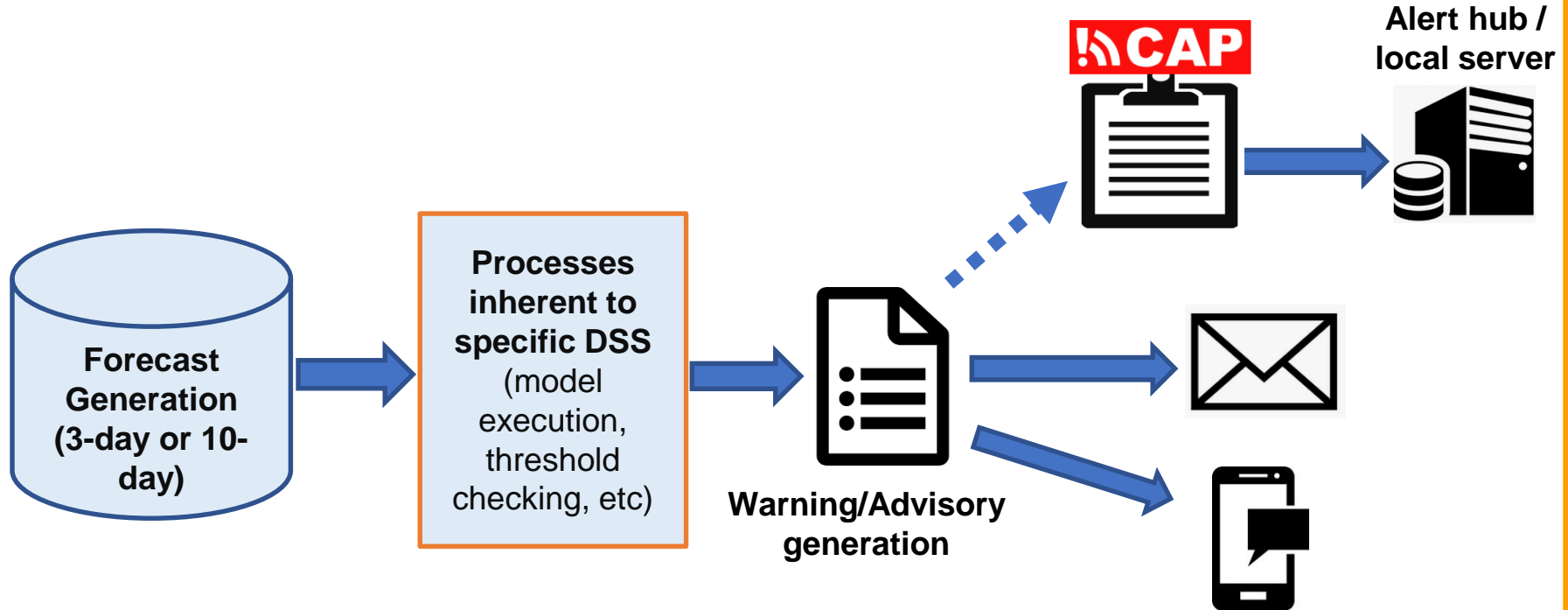
DSS Alert Dissemination



CAP Integration Plan (1)



CAP Integration Plan (2)



Questions?

Comments?

Suggestions?



THANK YOU !

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