

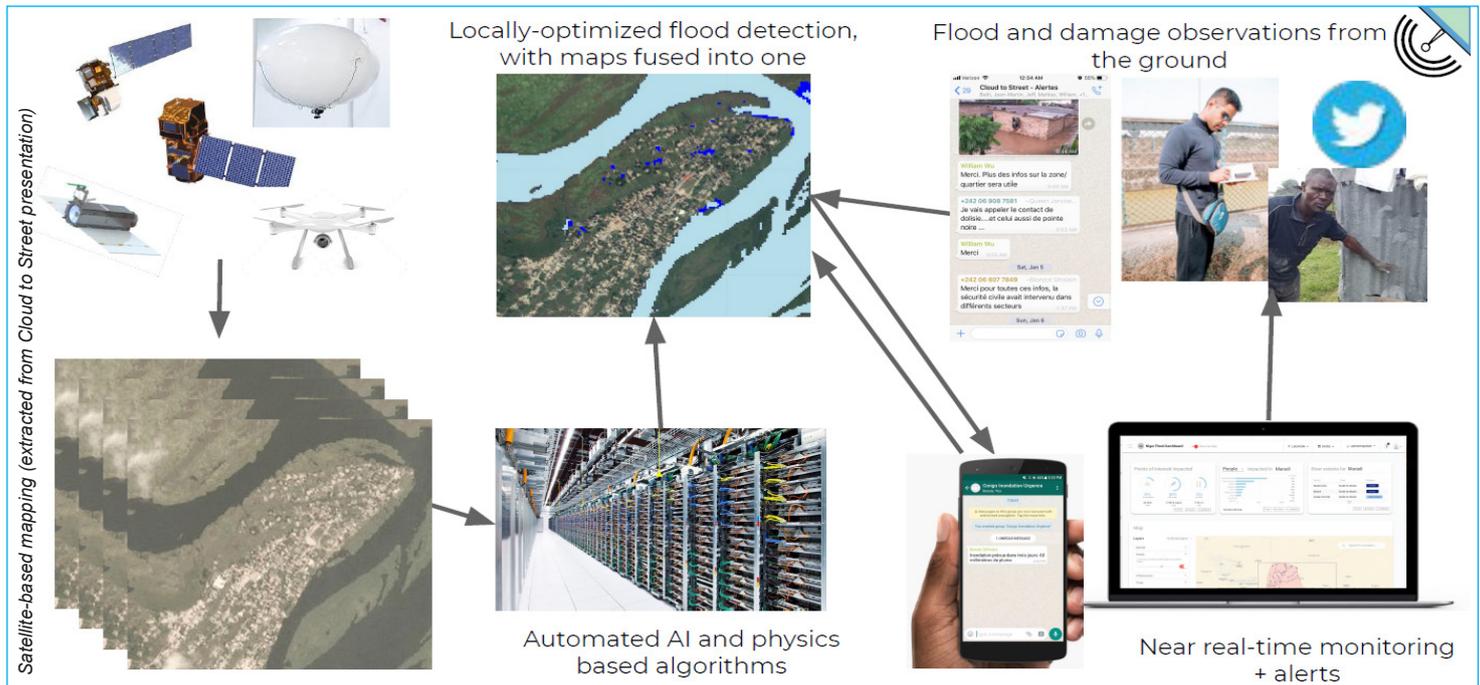
# EVENT SNAPSHOT



URBAN CLIMATE  
CHANGE RESILIENCE  
TRUST FUND

Asian Development Bank

## Improving Flood Risk Management with Satellite-Based Flood Maps



### EVENT DETAILS

Water Sector Group Knowledge Sharing Session: **Improving Flood Risk Management with Satellite - Based Maps**

Thursday, 07 May 2020. Microsoft Teams

#### SPEAKERS:

- **Bessie Schwarz**, Co-founder & CEP, Cloud to Street
- **Colin Doyle**, Director of Technology, Cloud to Street

### SATELLITE-BASED FLOOD MAPPING COMPLEMENTS FLOOD MODELS

The use of satellite-based flood mapping, based on a 30+ year satellite record, to validate flood models and in-fill information gaps to strengthen climate resilience and support disaster decision-making was highlighted in an online knowledge sharing session organized by the Water Sector Group (WSG) of the Sustainable Development and Climate Change Department (SDCC).

US-based Cloud to Street shared their expertise and insights on employing satellite-based flood mapping technology to complement traditional flood modelling and mapping. Cloud to Street use high resolution satellite imagery/data to produce basin-wide or localized flood inundation and flood depth maps, as a snapshot in time or as a composite.

Results for an irrigation/flood protection

project in Tamil Nadu, India to guide project preparation was showcased.

This flood mapping sub-project is part of TA 9634-REG: Strengthening Integrated Flood Risk Management (IFRM) being implemented by WSG with co-financing from the Urban Climate Change Resilience Trust Fund to support the enhancement of knowledge and application of IFRM strategies in eight developing member countries (DMCs).

Aside from satellite-based flood mapping, the IFRM project also supports the following: (i) Indonesia – national flood roadmap; (ii) Myanmar – hydrological analysis for dam safety; (iii) Nepal – national analytics of flood damages; (iv) Philippines – coastal flood risk assessment and (v) Pakistan - flood risk assessment of Sindh Province.

### URBAN CLIMATE CHANGE RESILIENCE LESSONS

**Satellite-based flood maps can provide accurate, reliable, and timely information** which is essential for improved flood forecasting to support decision-making and for issuing warnings for effective flood risk management.

**Satellite-based flood maps, based on a 30+ year satellite record, complement traditional flood modelling** by in-filling information gaps on historical flood events and flood inundation frequency.

**There is a need to build capacity of stakeholders and partners at DMCs** to fully utilize available satellite data to generate more accurate models of flooding and other climate-related hazards; and use them to make informed and timely decisions to improve climate resilience.

### FURTHER INFORMATION

- TA 9634-REG: <https://www.adb.org/projects/52014-001/main#project-pds>
- Geoffrey Wilson, Senior Water Resources Specialist, [gwilson@adb.org](mailto:gwilson@adb.org)
- Virinder Sharma, Senior Urban Development Specialist, [vsharma@adb.org](mailto:vsharma@adb.org)

### UCCRTF Financing Partners

