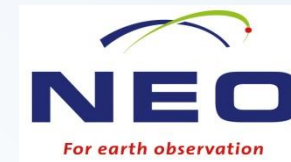


# EO services contributing to SDGs

## Flood risk mapping

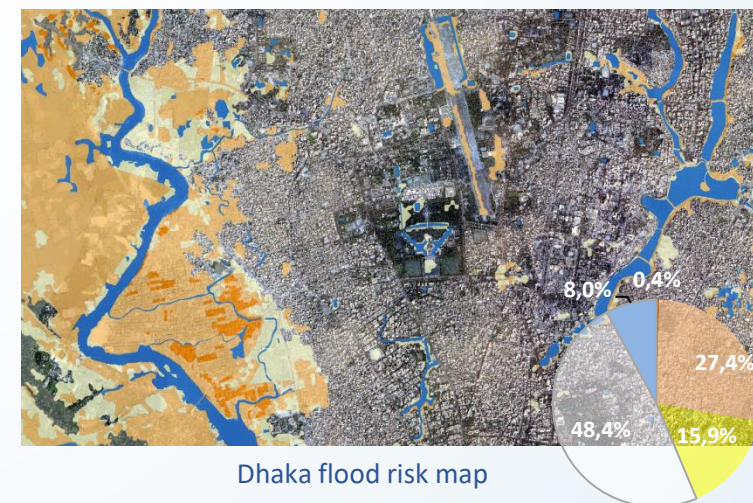


- User: city planning, disaster mitigation
- Challenge/Needs: measure the flood extent, flood hazard and estimate flood risk for gain insight into better city planning and risk mitigation
- Initiative: Earth Observation for Sustainable Development (EO4SD) – European Space Agency (ESA) program, aims to achieve increasing the uptake of satellite based information in the financial institutions' regional and global development programmes with a focus on urban development, agriculture and rural development . It aims to meet the long term, strategic geospatial information needs in the individual developing countries as well as international and regional development organisations.
- Results: 1) mapping flood extent of historical flooding events based on EO data of multiple years 2) deriving flood hazards 3) mapping the flood risk by combing the land use land cover information 4) providing statistics on the flooding events
- Impact: The satellite imagery based mapping product provides the means to acquire the most recent information about the extents and impacts of on-going flood emergency. It is a key tool for monitoring hazardous flood events and as well as risk assessment. This information is highly valuable for planning and construction of new residential, industrial or commercial development zones at the outskirts of large urban agglomerations. The product is highly evaluated by the World Bank local team as it helps in the project designing and planning to shorten the preparation time from years to several months.

### Target 13.1: Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries.



Dhaka Flood in August 2017



Urban flood risk

