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Problem

- Lack of real time flood forecasting and early warning system by taking ground conditions such as clogging of drains and space constraints in cities often causing productivity loss, immobility and loss of life

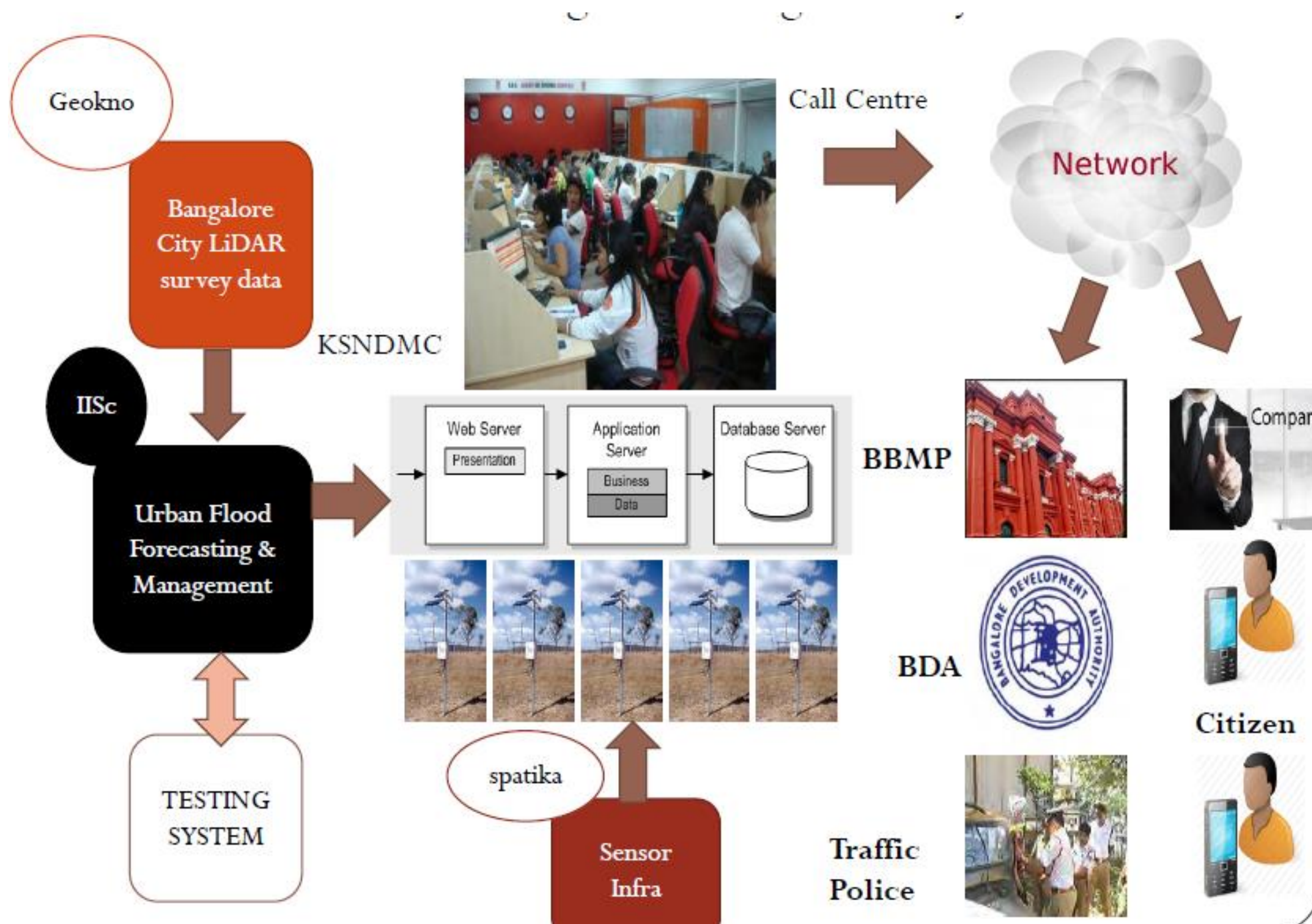
Solution

- Using IoT, a real time flood forecasting information with inputs from the sensors placed over the city accounting various ground conditions such as clogging of drains are provided to citizens and municipal organizations to minimize the productivity loss, enhancing the mobility and reduce the human losses.

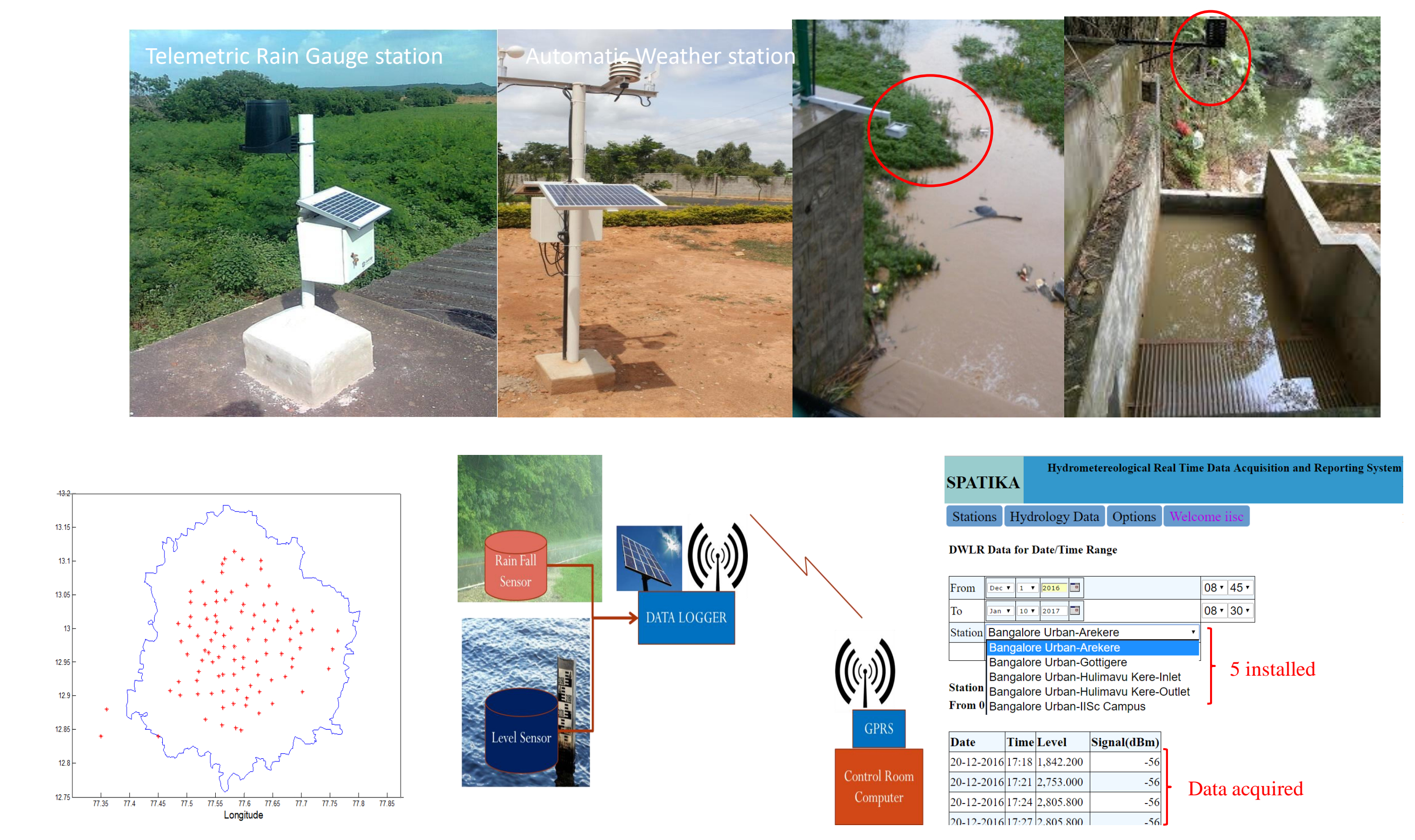
In India, 41.72 crores people are leaving in 390 cities. Billion of rupees are lost by cities in every year due to floods

Rapid Urbanization and Changing rainfall patterns, due to both natural and anthropogenic causes, have made the flooding problem more exaggerated, frequent, and widespread.

Advanced Flood Forecasting and Management system

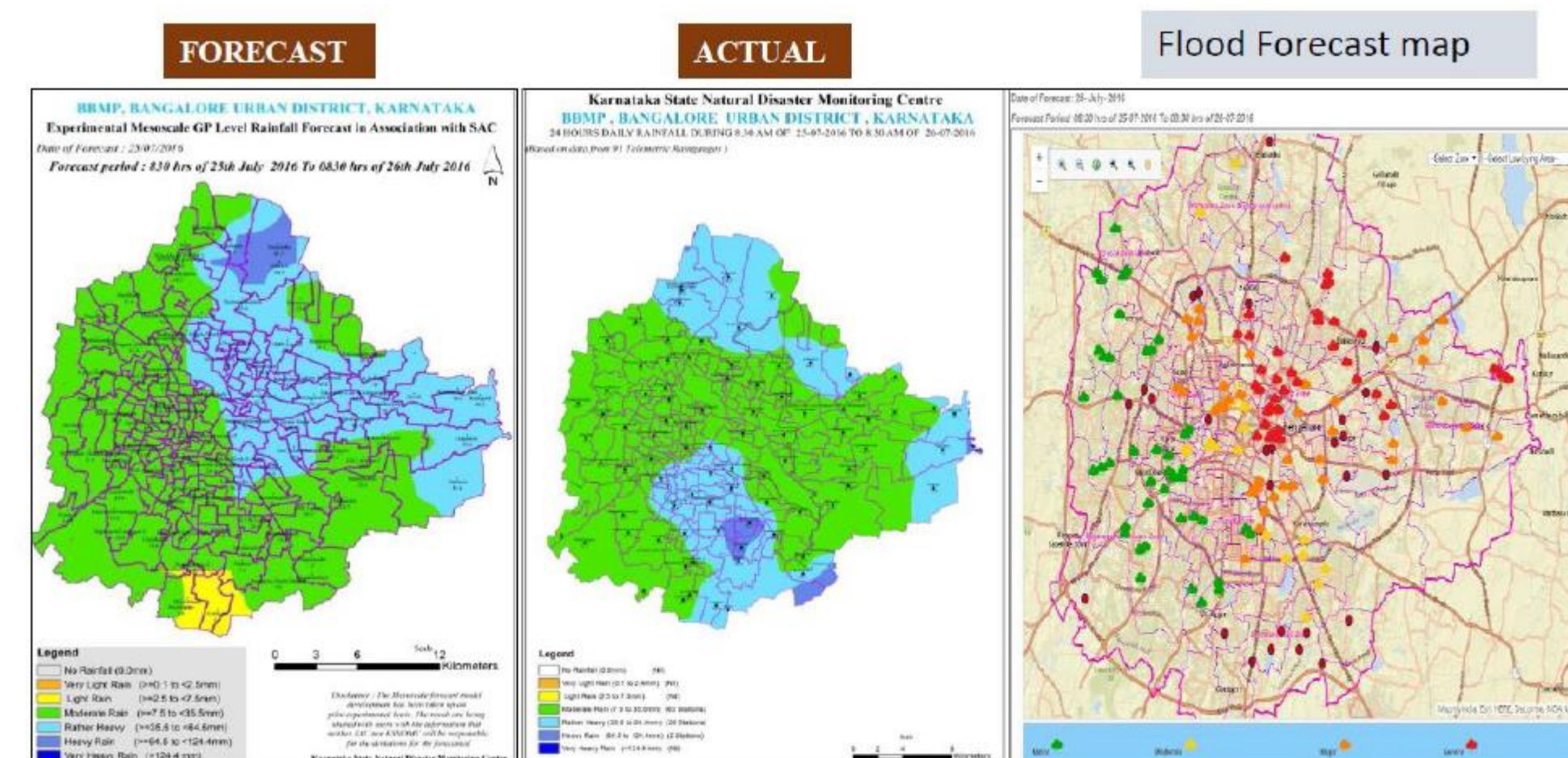
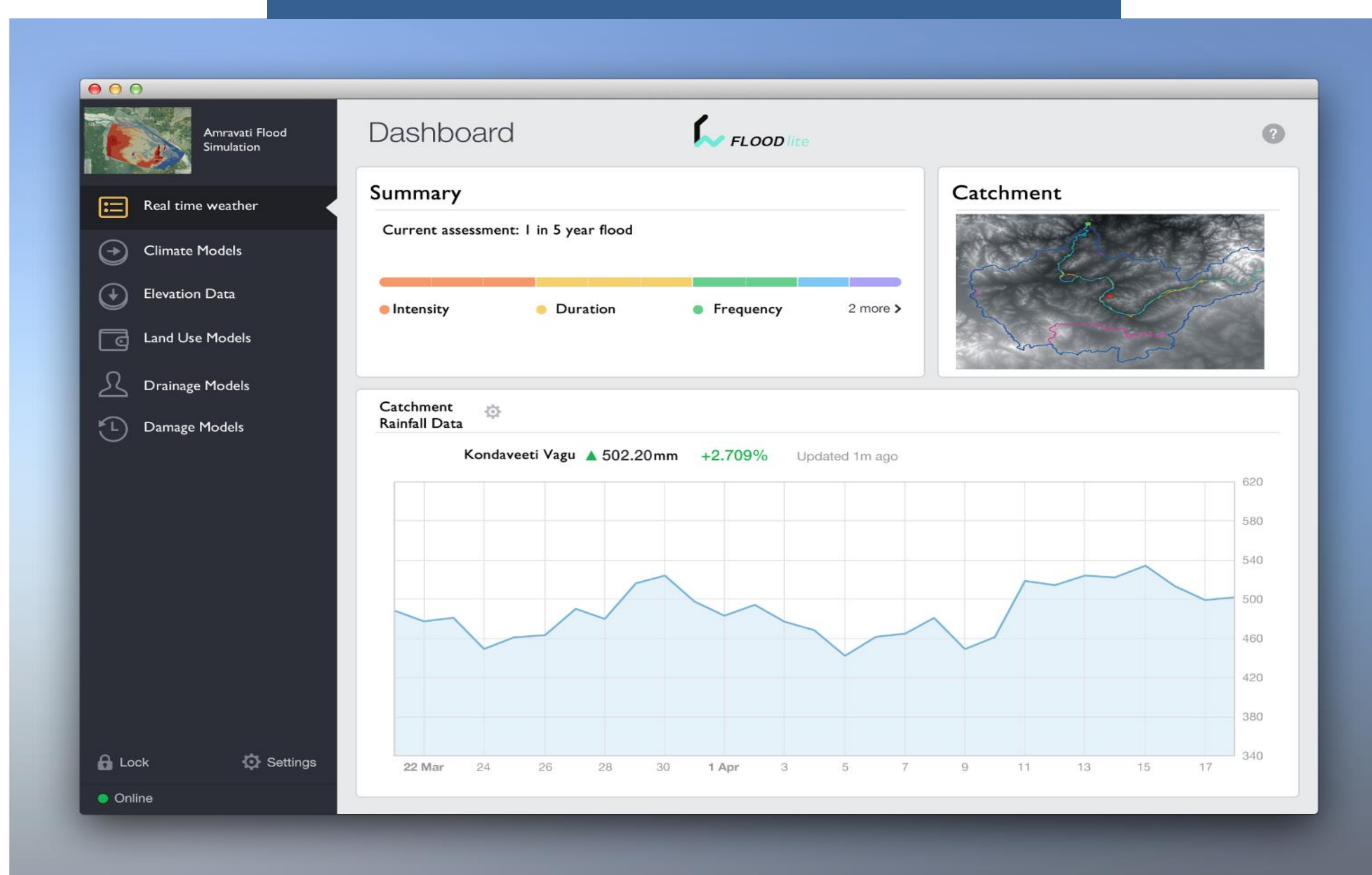


Real Time Hydro- Meteorological data



Products

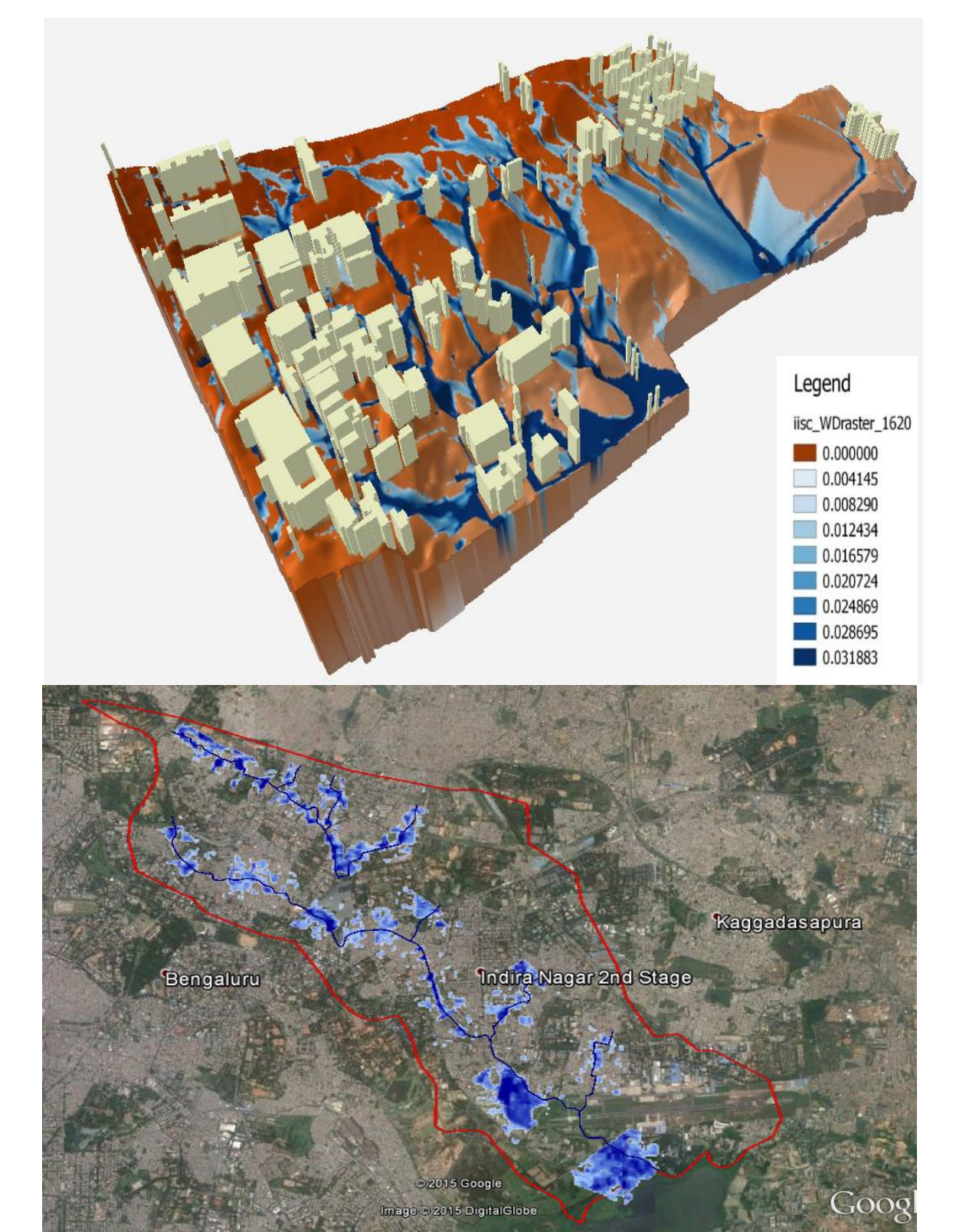
Urban FLOODTech Dashboard



Rain and flood forecast maps at 8:30 hrs of 25th July to 8:30 hrs of 26 July 2016 event Coursey:KSNDMC

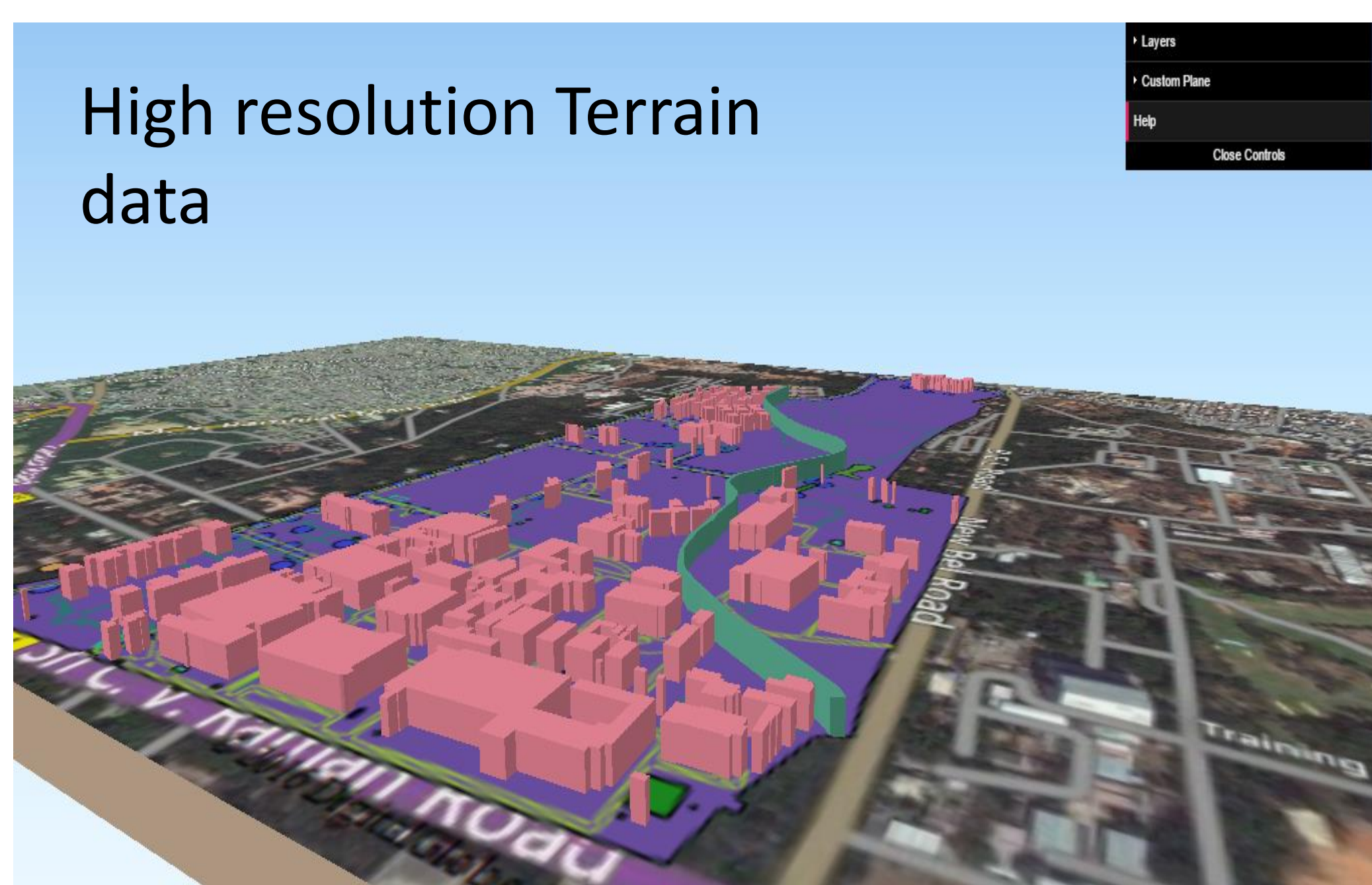
Alerts real time and forecasted

Flood inundation generated using IISc Model for IISc Study area and pilot study area



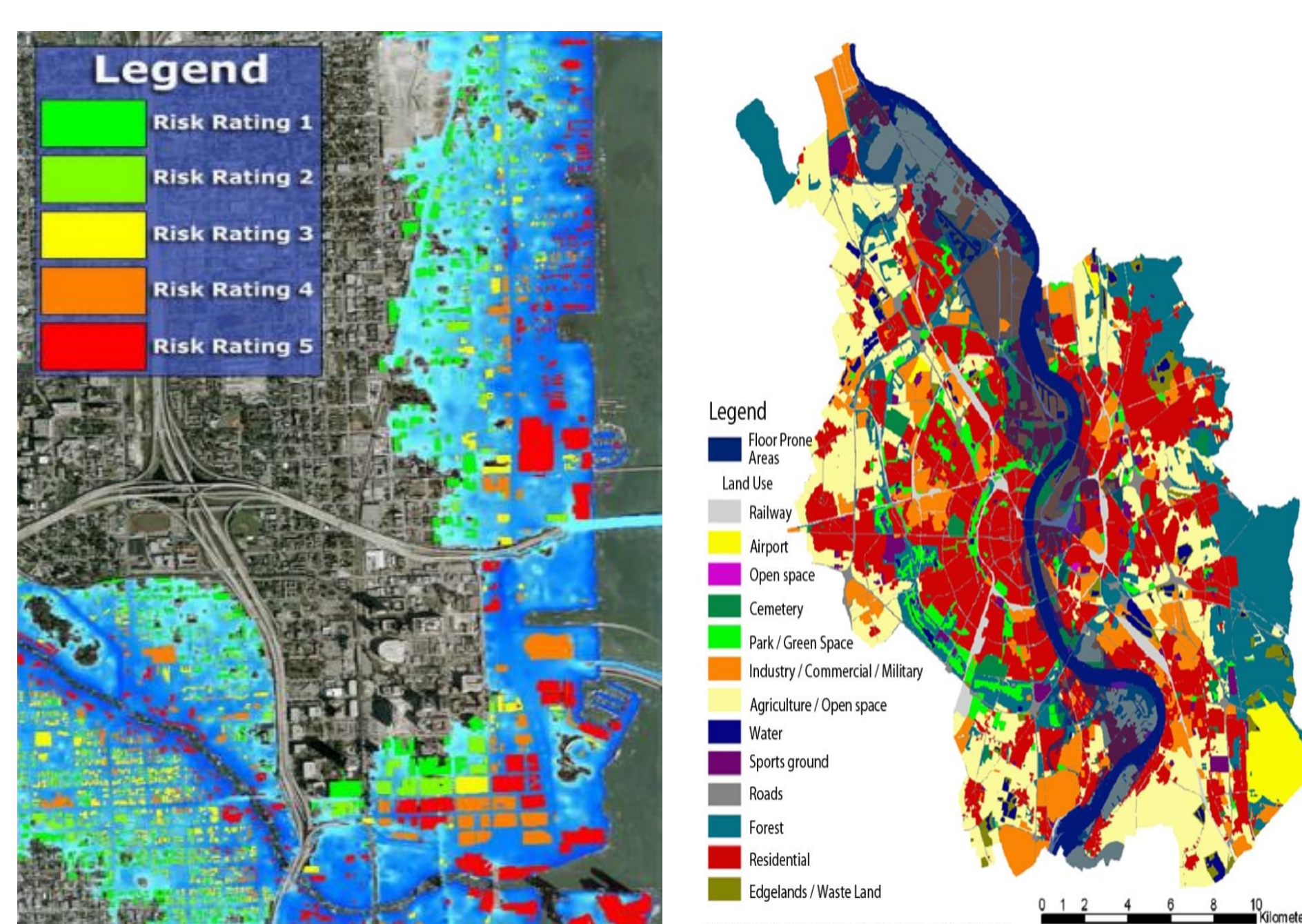
Other Products

High resolution Terrain data



Using LiDAR survey, High resolution terrain data is generated.

Flood Risk Zonation



Stakeholders

- Citizens
- Municipal organizations
- Town planning departments
- Fire and Safety Departments
- Electricity Department
- Public Transportation Department
- Telecom Operators
- IMD