

REVIVE

Integrated Tool for Urban Water Management

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As problems related to Water have increased, our urban centres along with the rural ones continuously face the brunt of water shortage availability of unclean water and floods. As the population keeps on increasing along with the urbanisation and rapid climate change, the water demand is not keeping up. This is leading to increased water problems and water-related disasters which can be categorised as problems caused due to - less water, more water and unclean water.

To deal with these problems, it is important to plan efficient works and projects. For this, it is important to gather data related to water and other cross-sectoral datasets. But, neither are all datasets available in real-time nor are they stored and processed in one place.

'Revive' is an integrated tool for urban water management that would collect, store and process the required datasets in digital form on a single platform. It is a decision support system that assists the Urban Local Bodies to undertake works in order to improve the water problems in their city by providing information and forecasting models with respect to the water scenario in their city. It will also assist the ULB in making informed choices regarding urbanisation, water management, improve efficiency, identify sites at risk, flood management, sensitise citizens etc. For citizens, It is instrumental in spreading awareness by providing information about the city's water and natural environment.

The project comprises 2 phases;

Phase 1: Data Aggregation Platform -To monitor the water situation of the city in terms of efficiency and identify shortfalls

Phase 2: Predictive Modelling - To do predictive modelling for Flood Simulation, Alternate Water, Smart Water

One unique platform with two dashboards, one for the ULB and the other for the citizens. Through interactive dashboards, the outcome will cater to both the Urban Local Body as well as the Citizens. For the former, it addresses the lack of data and suggests a repository of data with a list of relevant parameters. For citizens, it addresses the lack of understanding and knowledge of the existing data and the current water scenario.

