



Urban Flood Management Cell — AI-Based Early Warning System

The Urban Flood Management Cell (UFMC), established in Gorakhpur, Uttar Pradesh, is India's first AI-enabled urban flood early warning and decision support system. It integrates real-time sensors, artificial intelligence and hydrological modelling to predict rainfall, waterlogging and flood risks in advance.

The system represents a shift from reactive disaster response to proactive forecasting, enabling timely interventions to minimise damage, disruption and loss of life in urban areas.

Lessons for Assam:

Assam, particularly cities like Guwahati, can adopt similar AI-based flood forecasting systems to address recurrent urban flooding. Integration of real-time data, improved drainage planning and early warning mechanisms can significantly enhance disaster preparedness and climate resilience in the State.

APSC Relevance: Important for disaster management, urban planning and climate resilience.