FLOOD MONITORING AND PREDICTION

Helping improve flood prediction and disaster management

A more accurate data based flood prediction system that takes into account multiple factors that go beyond heavy rainfall concerns. A system created to build resilience to urban flooding and proactively managing and minimizing its impact by informing the citizens and disaster management authorities to take necessary actions much in advance.

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PA system/siren/sign board locations

Flood sensor data

Map data including rivers, canals, drains

Citizen App for the GPS coordinates of the users

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Historical rainfall, flood, dam/lake water release data

Video analytics of camera feeds for flood locations

Telecom data for approximate people in the area

Alerts to disaster management, traffic management authorities etc

IMPACT

1	Creation of critical infrastructure for citizen alert
2	Improved disaster management response
3	Proactive actions can be initialised

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CITIZEN BENEFIT

Minimized affect on life and property

Citizens and shopkeepers can take timely action in time to safeguard their goods

Early warning helps citizens to prepare for emergency situations

HOW IUDX MADE THIS USE CASE BETTER AND EASIER TO BUILD?

- Use cases built for one city can easily be ported to another

- Opportunity for partners to scale engagement across multiple cities with IUDX facilitation

- Easy access to city data held by city administration, which otherwise might be difficult to obtain.

- IUDX acts like a bridge between city specific implementation and global standards.

- Reduced development cost IUDX provides an open source foundation to build upon, with standard interfaces simplifying implementation.

- For this use case, IUDX acts as a bridge between implementation partners, city officials and vendors.

- IUDX ensures availability of high quality data

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