

# FLOW AWAY

The AI That Guides You Through Floods

*Predict - Avoid - Evacuate.*



# The Problem

Floods are deadly and paralyze cities.



- ✖ \$100B+ in damages yearly
- ✖ Blocked roads and poor evacuation plans cost lives.
- ✖ Citizens don't know where to go when disaster strikes.

# Our Solution – FlowAway

An AI-driven flood evacuation assistant that:



## Predicts

flood risks based on real-time weather & hydrological data.



## Calculates

the safest evacuation routes, avoiding flooded areas.



## Guide

citizens in real-time through an interactive web platform.

Powered by state-of-the-art Deep Learning & Graph Algorithms, FlowAway ensures fast & adaptive evacuation planning.

But how do  
we do it?

# Step 1 – Predicting the Flood Level

"What if we could predict floods before they happen?"

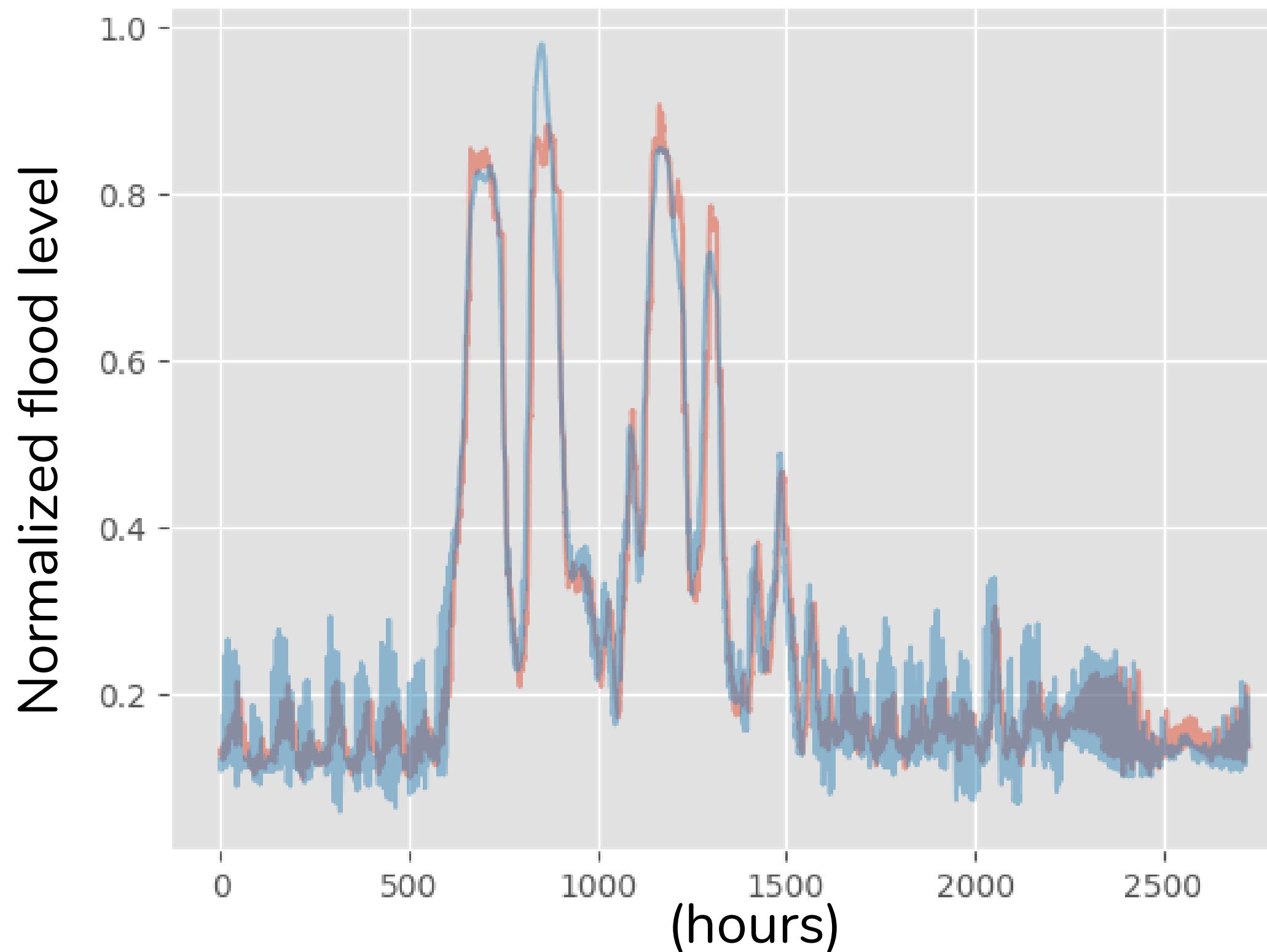
AI predicts floods before they happen using :

- Weather data (rain, temperature, soil moisture)
- Satellite images & real-time cameras
- Topography & river flow analysis

Deep Learning and ML processes these inputs.

Output: A real-time flood risk map to warn authorities & citizens.

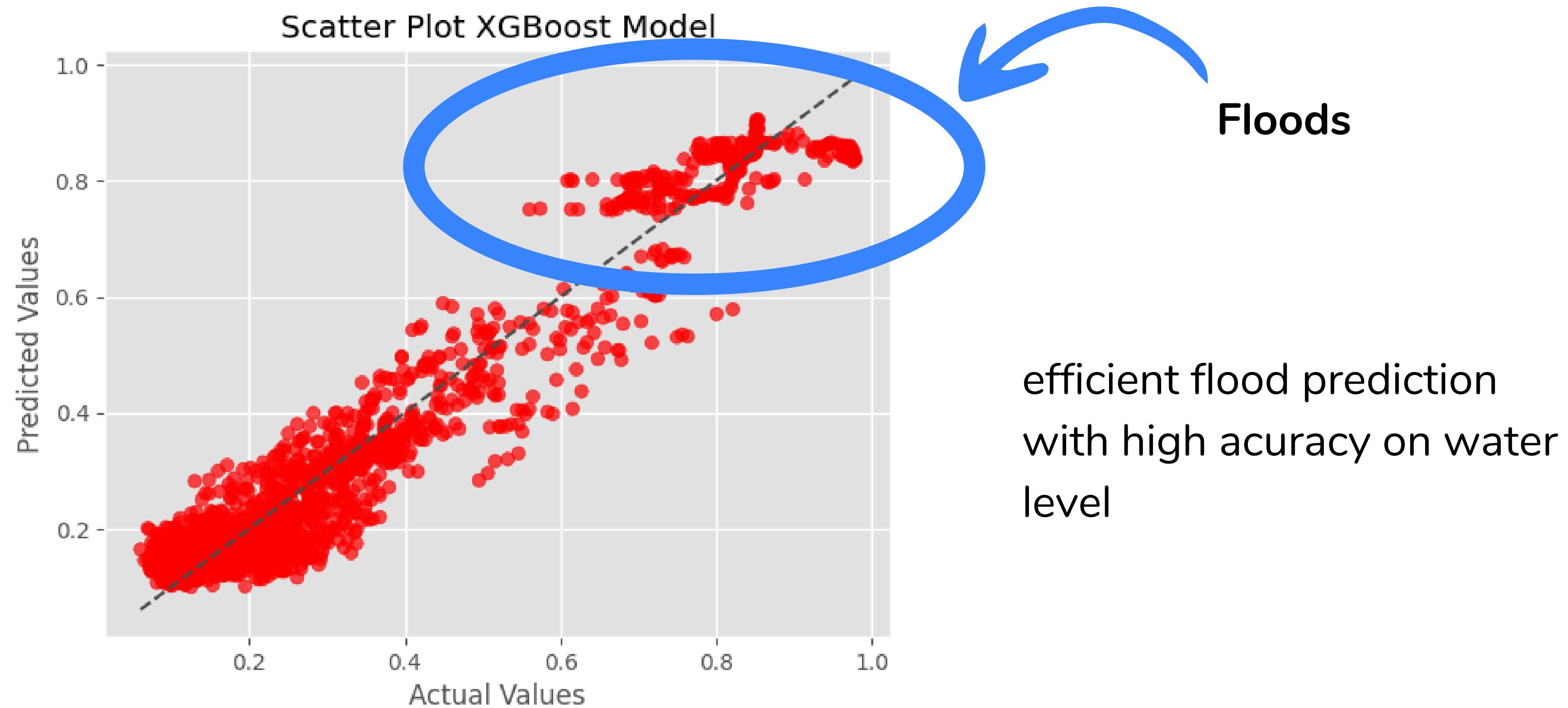
# Step 1 – Predicting the Flood Level



**Predictions**  
**Observations**

efficient flood prediction  
with high accuracy on water  
level

# Step 1 – Predicting the Flood Level



# Step 2 - Mapping the City

A live digital twin of the city's roads

Safe roads → Prioritized

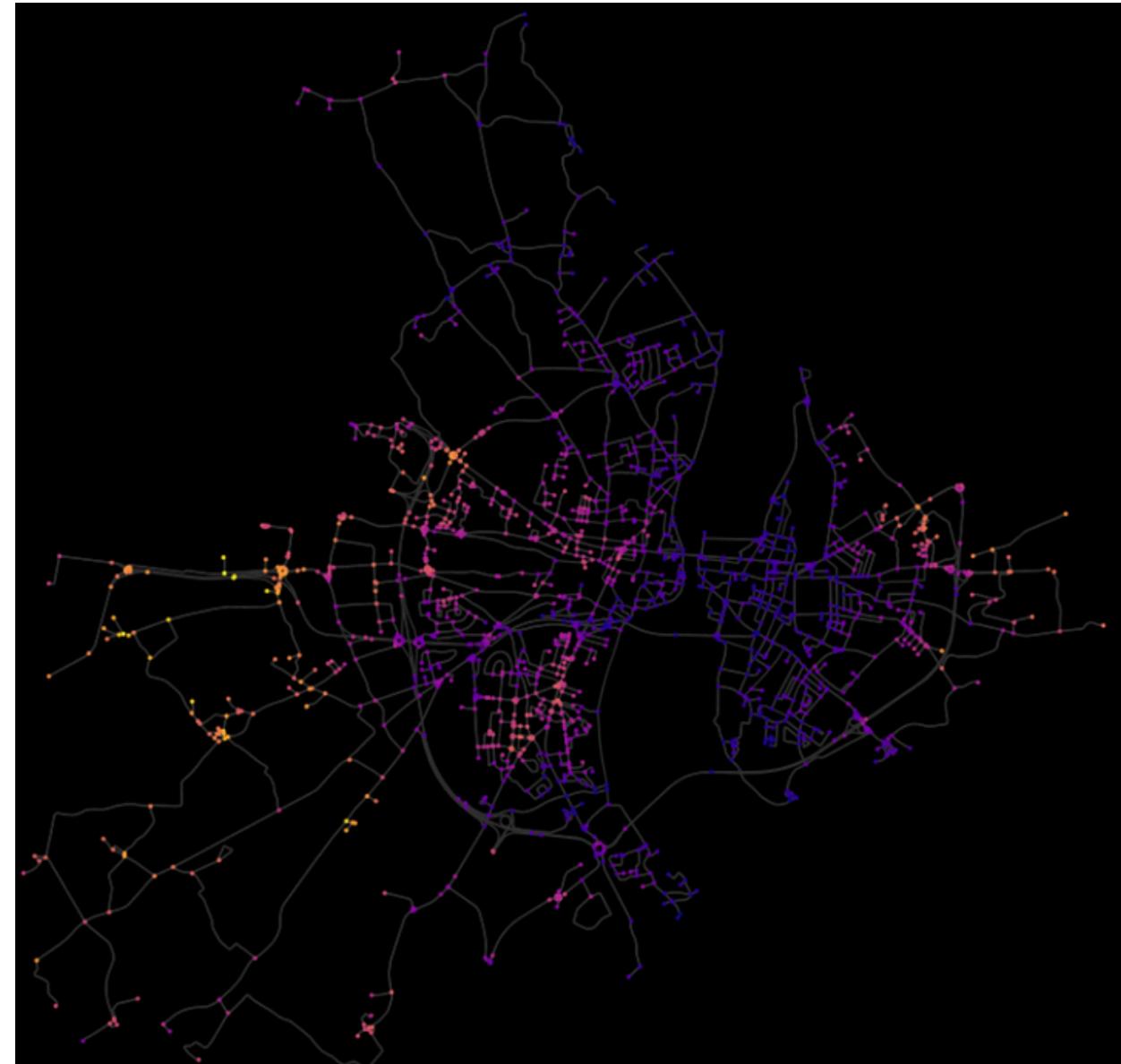
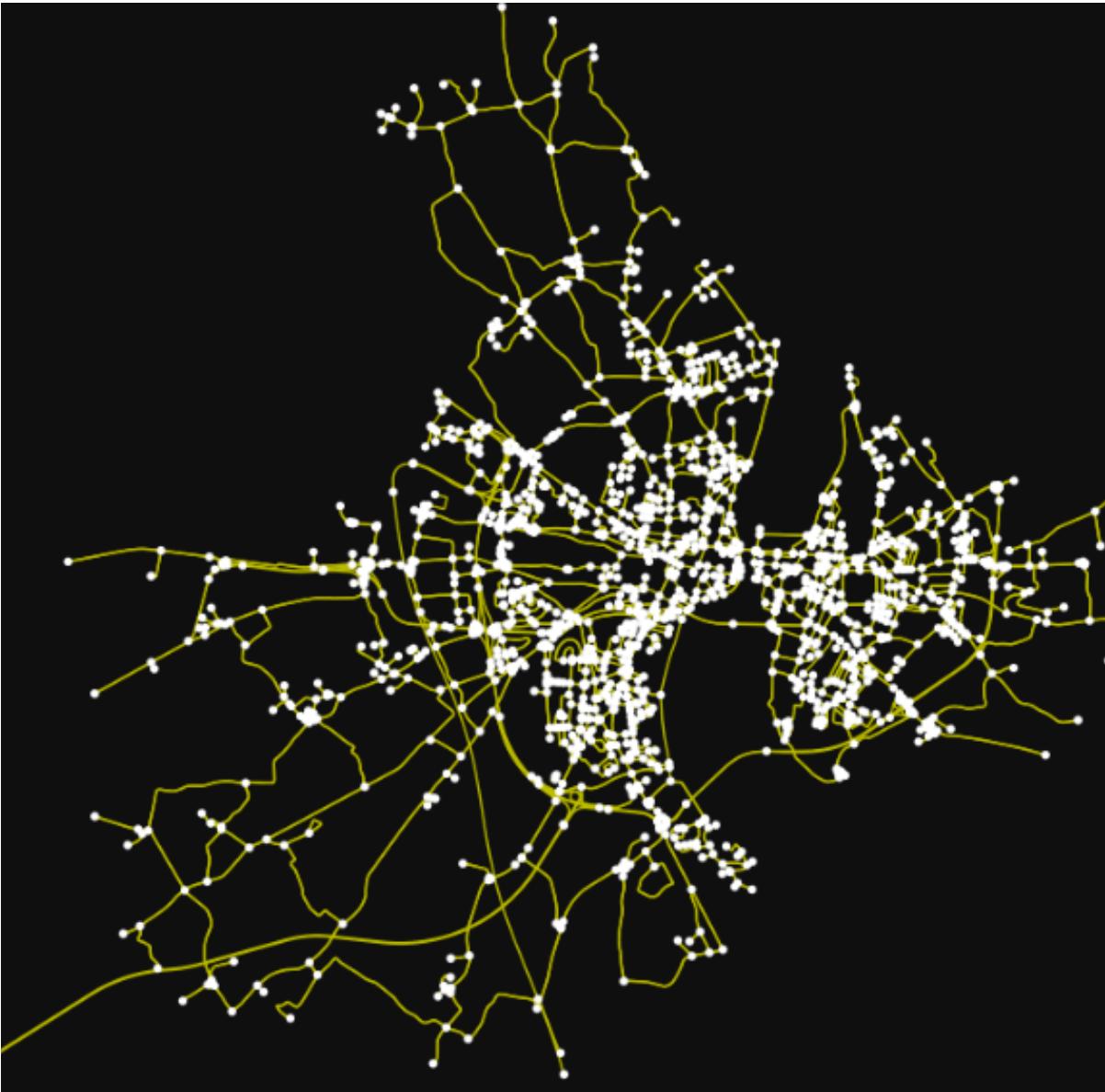
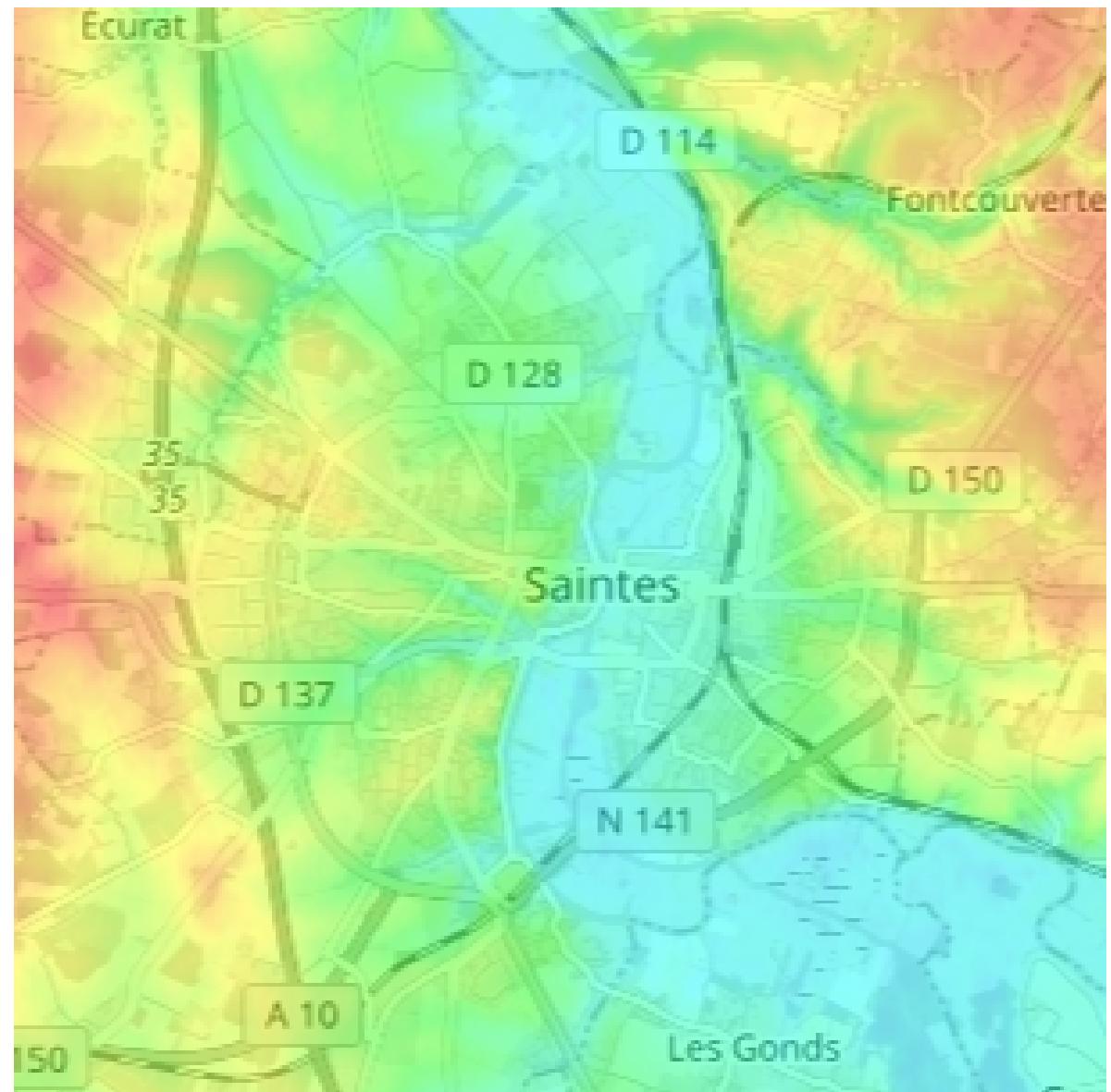
Flooded roads → Blocked dynamically

Our App finds the  
fastest, safest flood-  
free path.



The Goal: Escape faster and safer !

# Step 2 - Mapping the City



The Goal: Escape faster and safer !

# Step 3 - The Web App

A real-time interactive map for evacuation

**Users select  
their location**



**We suggests  
the safest route**

**No complex setup, just life-saving insights.**

# Live Demo

Let's test our system in real-time!

- 1 We simulate different flood scenarios
- 2 AI predicts affected zones
- 3 Evacuation routes adjust instantly

Saintes : Troisième inondation depuis novembre et « cela commence à faire beaucoup » pour les habitants



Will your usual road be safe? Let's find out.

# Demo

# What's Next? Scaling Up

Beyond this hackathon, real-world impact:



**Integration with  
government & rescue  
teams**

**Live satellite & drone  
feed integration**

**Expansion to other  
climate risks.**

FLOW AWAY



# THANK YOU !

