

# ROADWAY FLOODING SENSORS

**HRPDC**

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# PROBLEM

Drivers don't know if a road is flooded. Alternate routes might be available and drivers could save time if they knew the area was flooded before they got there.



# SOLUTION

Install sensors that determine if a road is flooded and send information to WAZE in real-time.

Provide text and email alerts based on sensor data.



Waze - GPS, Maps, Traffic Alerts & Live Navigation

Waze Maps & Navigation

★★★★★ 8,085,389

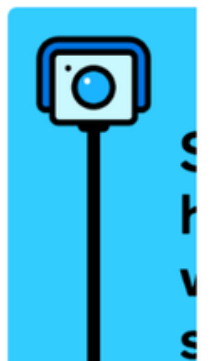
Everyone

Contains Ads

Add to Wishlist

Install

Get the best routes with real-time alerts for traffic, police, accidents & more



Always know what's happening on the road with Waze. Even if you know the way, Waze tells you about traffic, construction, police, crashes, and more in real-time. If traffic is bad on your route, Waze will change it to save you time.

Why Waze?

• See what's happening - Alerts about traffic, police, hazards and more on your drive

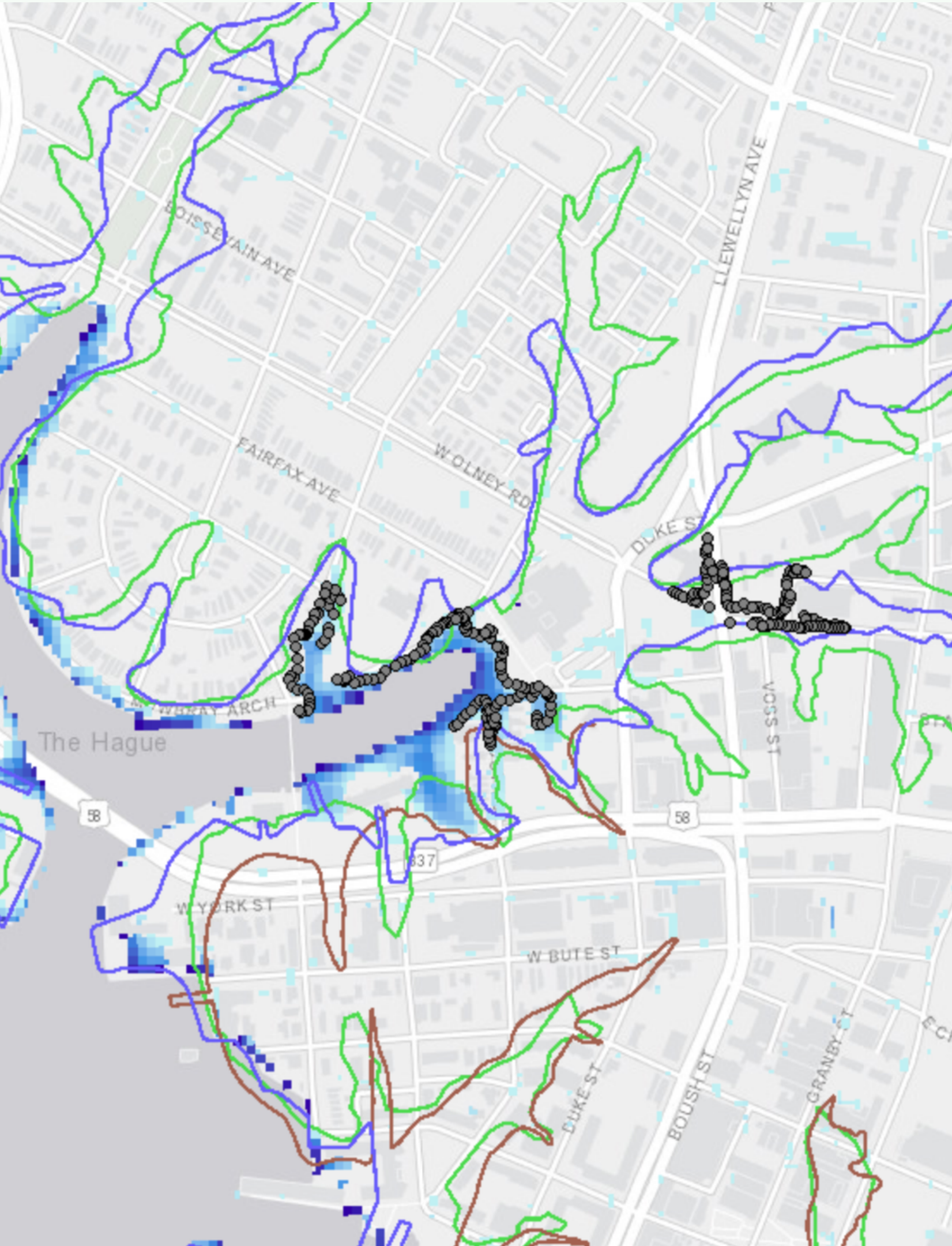
READ MORE

REVIEWS

Review policy and info

4.4  
★★★★★



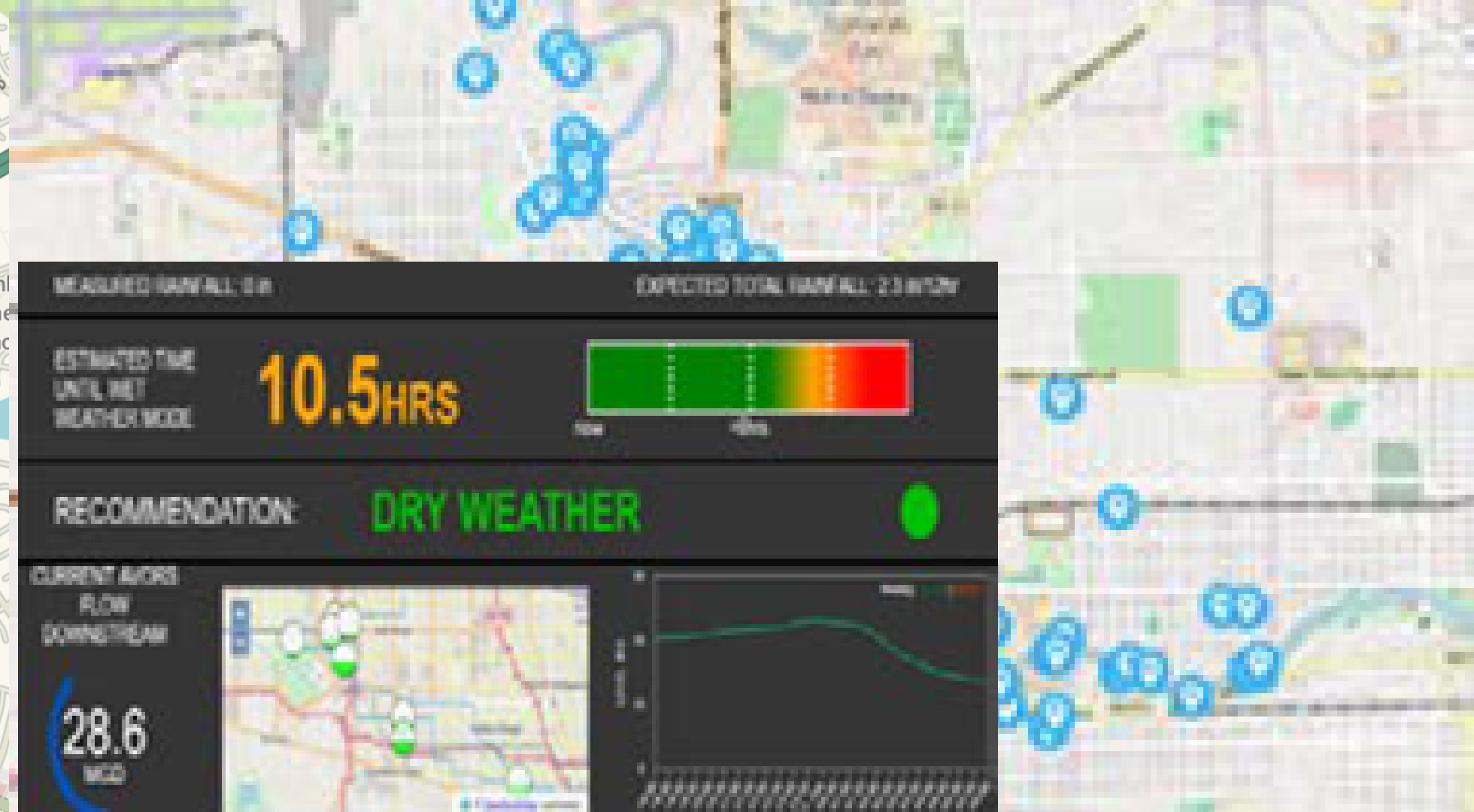
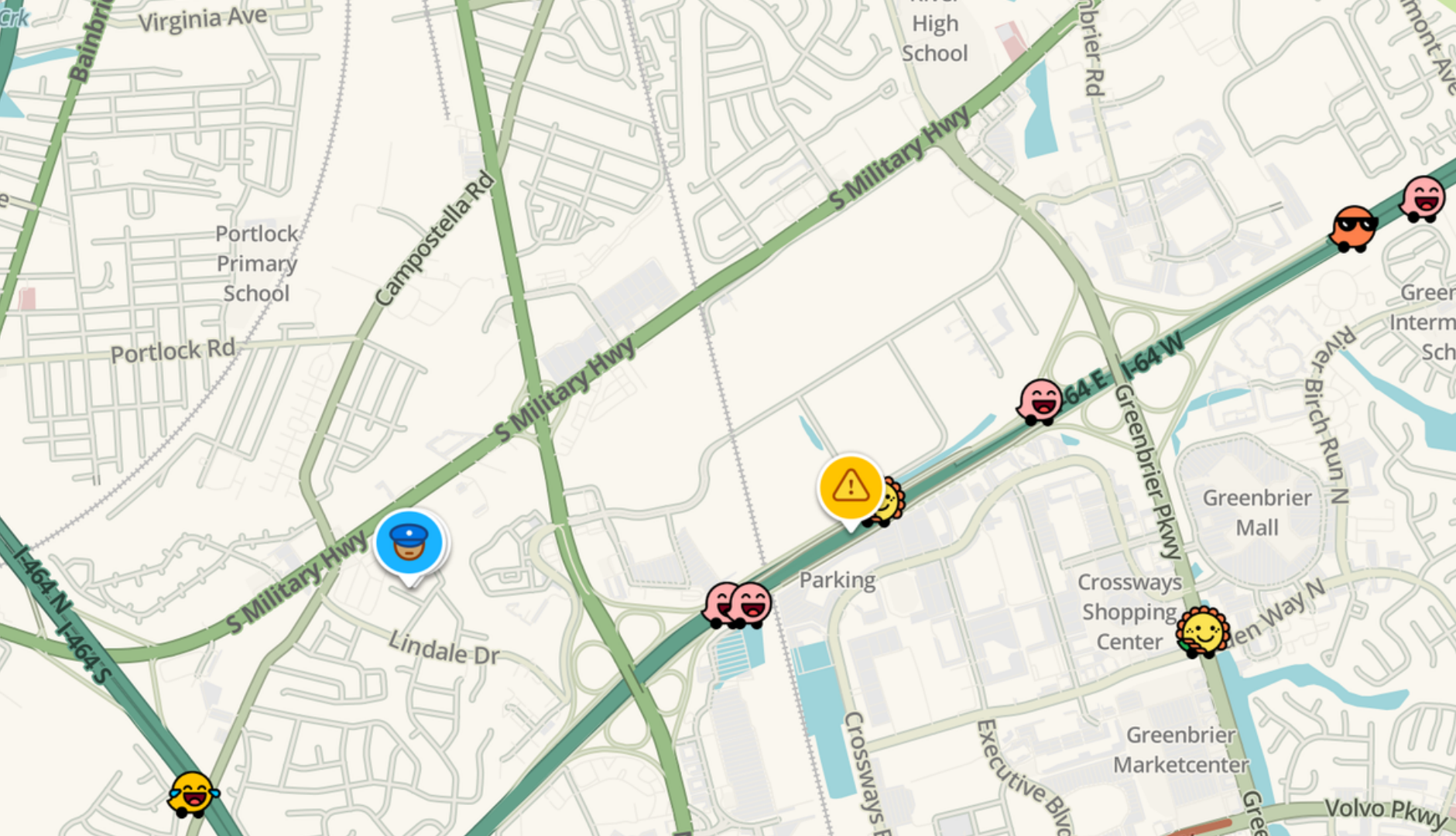


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## ADDITIONAL BENEFITS

Sensor data can be used to improve the models that we use to predict flooding frequency and prioritize flood mitigation projects.





## DETAILS

Locality staffs selected locations that frequently flood.

RFI was released to confirm project feasibility.

RFP was released to confirm cost and select contractor.

Xylem was selected for the contract.

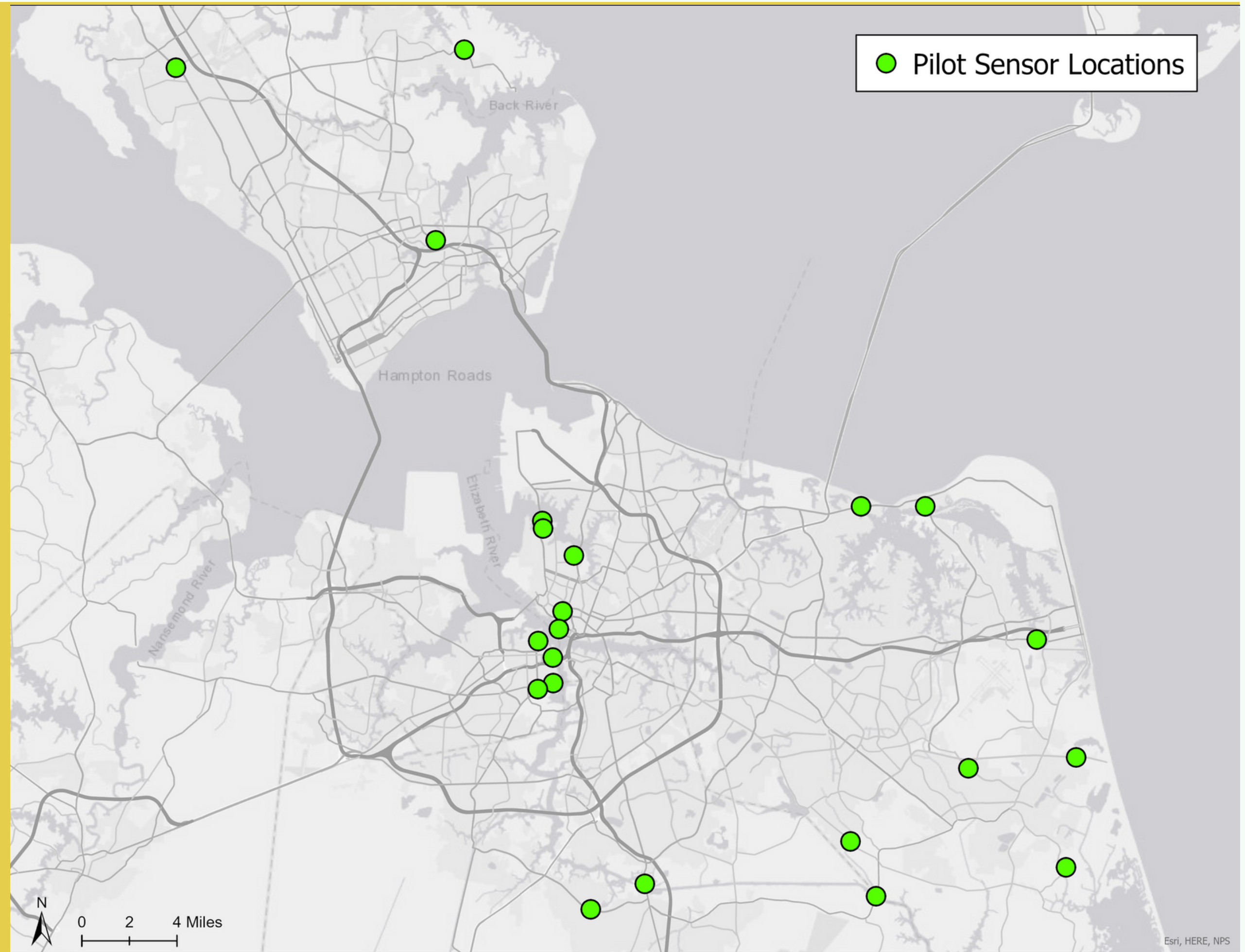
Sensors will be installed at twenty locations in the pilot project.

Additional 180 locations have been selected if project is fully implemented.



# PILOT PROJECT

Install twenty sensors to develop network backbone and vet concept.







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# BUDGET

**TOTAL BUDGET: \$220,000**

**Budget Breakdown:**

1. Equipment and Installation  
- \$132,500

2. Data Management  
- \$55,000

3. Maintenance  
- \$19,500

4. Project Management  
- \$13,000

**Funding:**

1. Federal - OEA grant  
- \$198,000

2. Local - Coastal Resiliency program  
- \$22,000



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# RECOMMENDED ACTION

Authorize HRPDC Executive director  
to sign contract with Xylem and  
accept grant from OEA.

Contract Amount: Up to \$250,000

