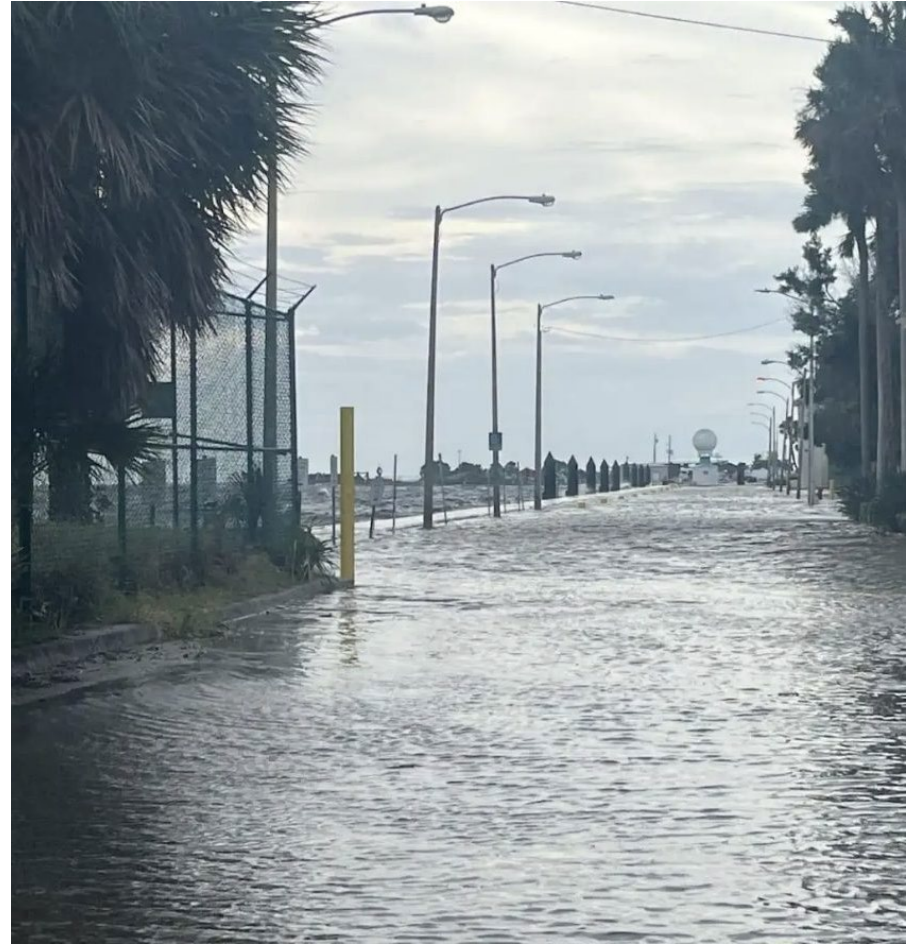




*hyfi*

FSA Shark Tank

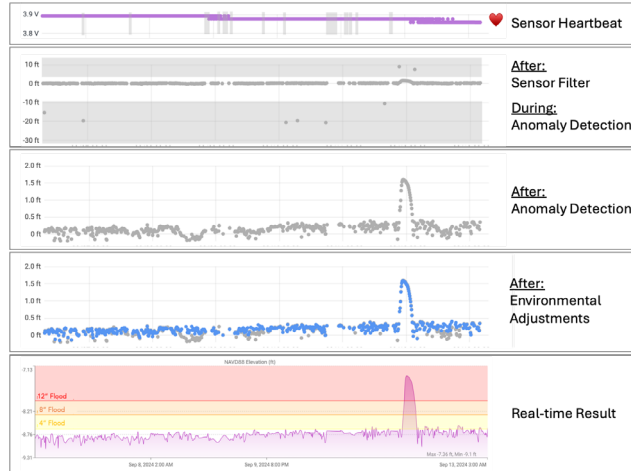
June 18, 2026



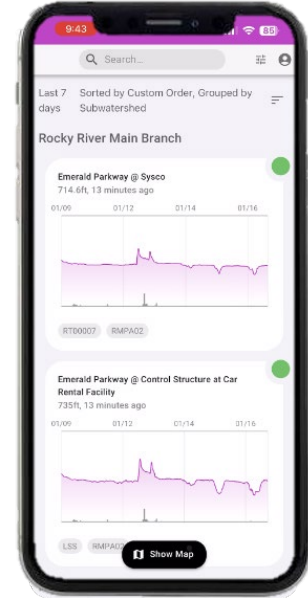
# An all-in-one water level monitoring system



Monitors



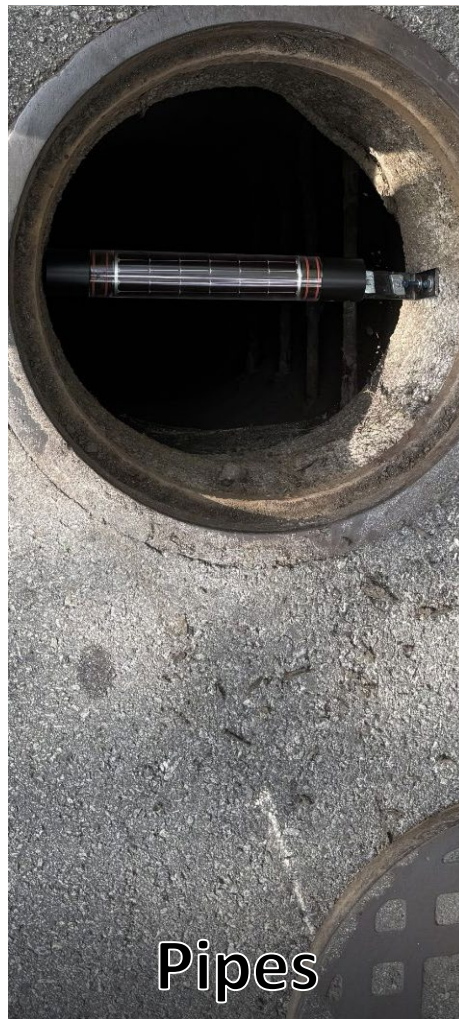
QC & Automated Analytics

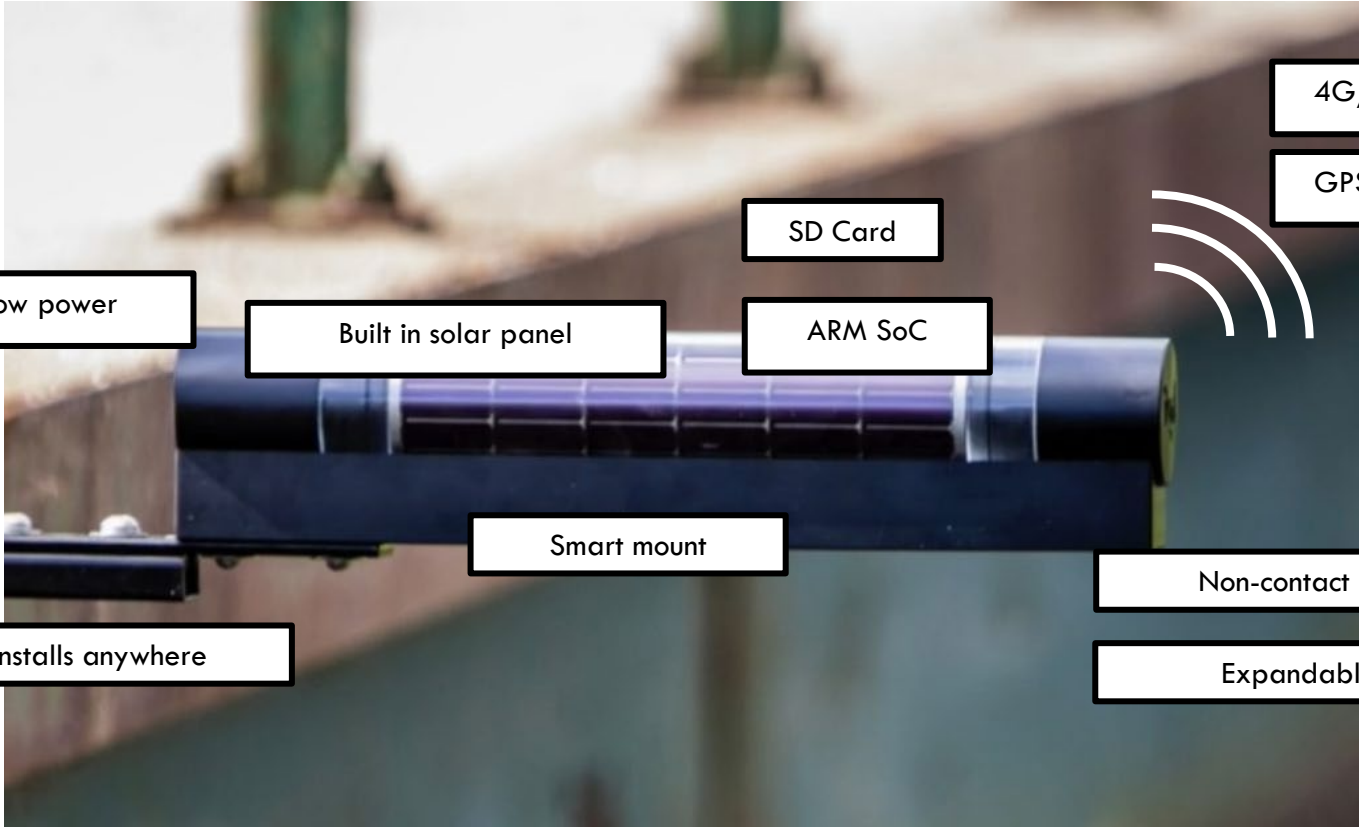


Apps & Alerts









Ultra-low power

Built in solar panel

SD Card

ARM SoC

4G/5G

GPS

Smart mount

Non-contact depth sensor

Installs anywhere

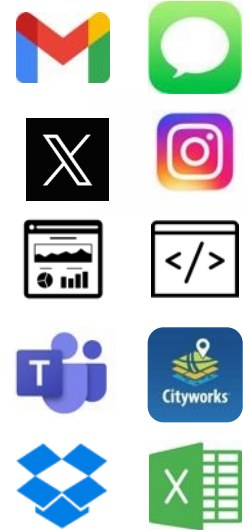
Expandable payload

# Apps & APIs

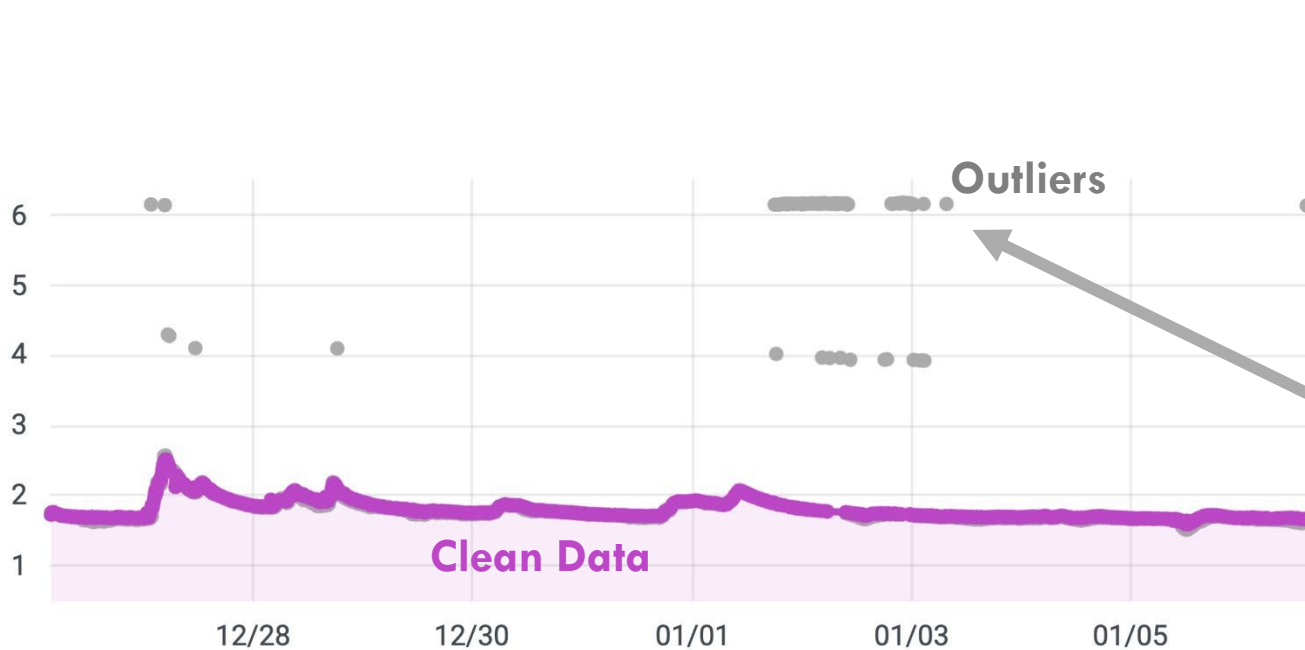


```
GET \  
--header 'X_API-KEY: API_KEY' \  
'https://api.hyfi.io/getData?site_code=86HW8QJ3+2VH9'
```

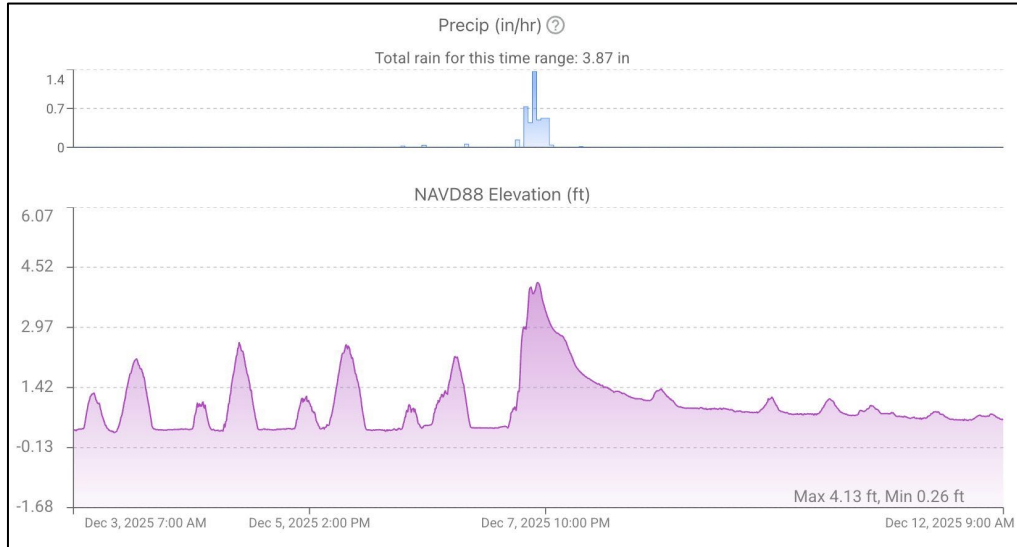
```
_time,depth,stage,site  
2021-01-26T14:00:00Z,4.501,1148.103,86HW8QJ3+2VH9  
2021-01-26T14:10:00Z,4.507,1148.110,86HW8QJ3+2VH9  
2021-01-26T14:20:00Z,4.504,1148.107,86HW8QJ3+2VH9  
2021-01-26T14:30:00Z,4.501,1148.104,86HW8QJ3+2VH9  
2021-01-26T14:40:00Z,4.504,1148.107,86HW8QJ3+2VH9  
2021-01-26T14:50:00Z,4.501,1148.104,86HW8QJ3+2VH9  
...
```



# Automated obstacle detection & quality control



# Networks in the field



# Battle tested platform

## Hurricane Debby

Aug 5, 2024

Tampa Bay area

**2 sensors**  
**Pinellas + Pasco Counties**

## Hurricane Francine

Sep 11, 2024

New Orleans landfall

**15 sensors**  
**City of New Orleans**



## Hurricane Helene

Sep 26, 2024

Record Tampa Bay surge

**2 sensors**  
**Pinellas + Pasco Counties**

## Hurricane Milton

Oct 9, 2024

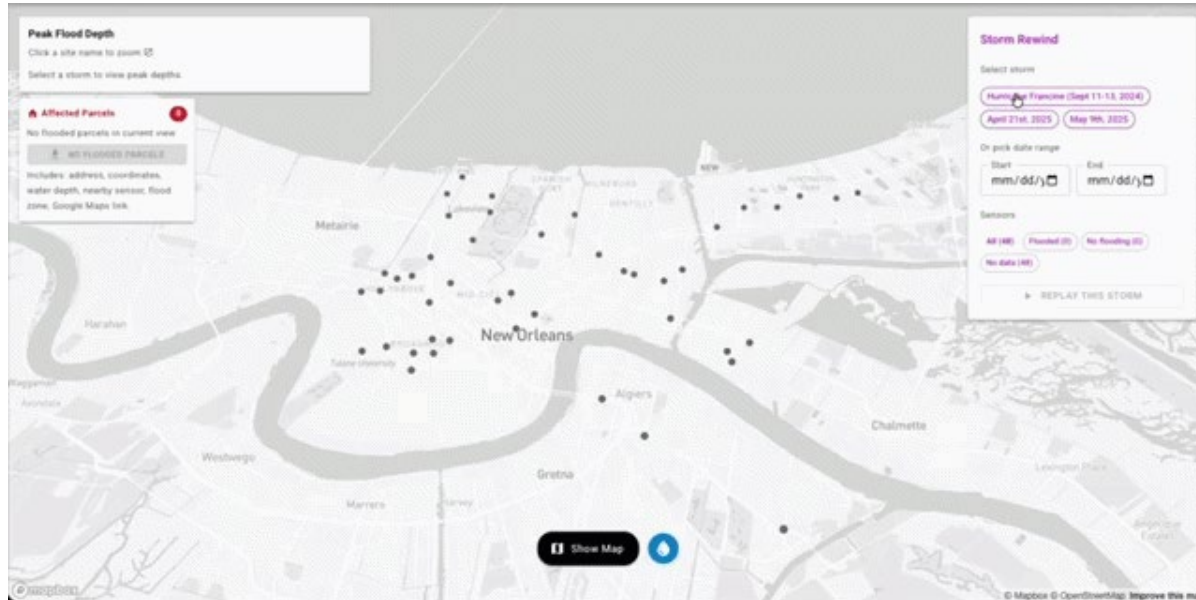
Siesta Key landfall

**2 sensors**  
**Pinellas + Pasco Counties**



# After Hurricane Francine

Immediately list properties flooded by a hurricane to support 911 calls and eyewitness accounts.



address	latitude	longitude
122 Polk St	29.999703	-90.114426
326 Polk St	29.999293	-90.112453
6036 Louisvil	30.000273	-90.111164
325 Polk St	29.999726	-90.112388
6044 Louisvil	30.000409	-90.111148
129 Polk St	30.000249	-90.114265
6049 West Er	30.001253	-90.114622
6021 West Er	30.000568	-90.11467
6031 Colbert	30.00038	-90.111609
6020 Colbert	30.000024	-90.112251
6001 Colbert	29.999673	-90.111795
328 Polk St	29.99936	-90.112242
6047 Catina	30.00115	-90.113728
134 Polk St	29.999643	-90.114216
6123 Catina	30.002018	-90.113643
6105 Colbert	30.001567	-90.111477
6021 Catina	30.000608	-90.113781
5915 Catina	29.999189	-90.113792
6028 Catina	30.000737	-90.11423
5978 Louisvil	29.999297	-90.111287
421 Polk St	29.999659	-90.111237
6041 Polk St	29.999659	-90.111237

# Same platform, different use cases

---

Flood  
Detection



O&M



Asset  
Performance







## Traffic Incidents

## Reported Street Flooding

PALMETTO ST & HOLLYGROVE ST 7:09 PM	FLOOD SENSOR
CHEF MENTEUR HWY & DOWNMAN RD 7:09 PM	FLOOD SENSOR
N CLAIBORNE AVE & ORLEANS AVE 7:09 PM	FLOOD SENSOR
ST. BERNARD AVE & FOY ST 7:09 PM	FLOOD SENSOR
ST. CLAUDE & GORDON 7:09 PM	FLOOD SENSOR
N. CLAIBORNE & DELERY 7:09 PM	FLOOD SENSOR
N. CLAIBORNE & POLAND AVE 7:09 PM	FLOOD SENSOR
MILNE BLVD & POLK ST 7:09 PM	FLOOD SENSOR
FILMORE AVE & GENERAL HAIG 7:09 PM	FLOOD SENSOR
S CLAIBORNE AVE & CLEVELAND AVE 7:09 PM	FLOOD SENSOR



# 1-Hour early warning to dispatchers

1+ hour advance notice compared to 911 calls, on average



# Flood detection in “silent” areas

Reported floods in areas where residents may not make 911 calls.



# Same platform, different use cases

---

Flood  
Detection



O&M

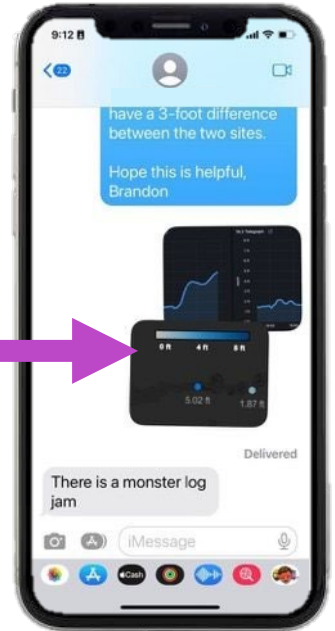


Asset  
Performance



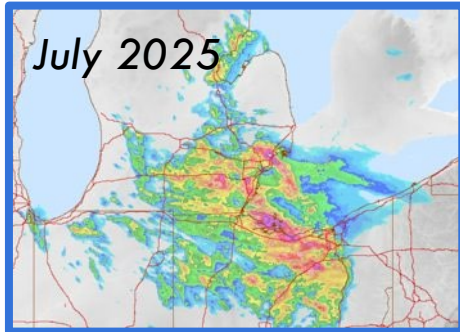
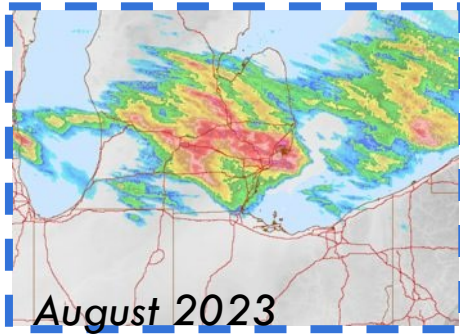
# Debris jams

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# Pre- and post-river cleanup

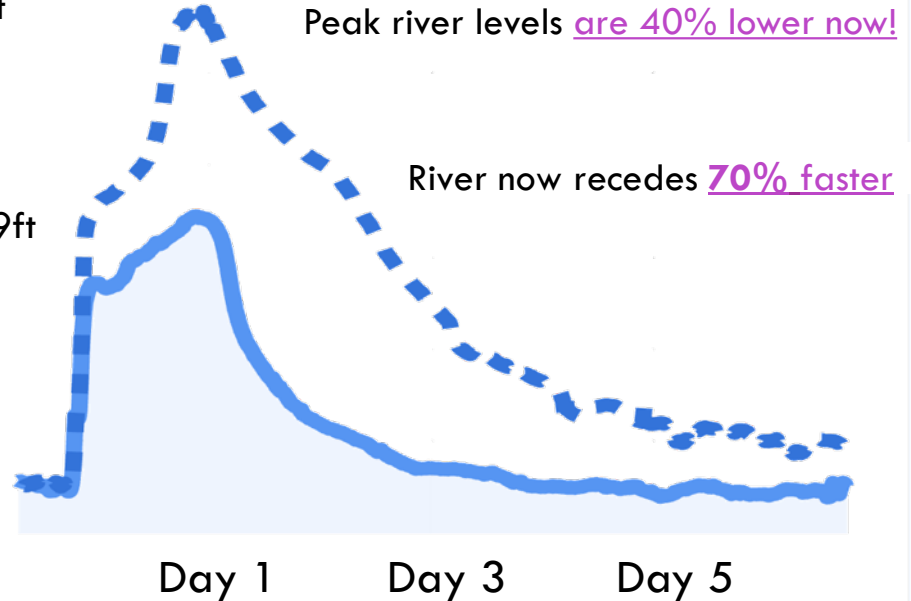
Results of log and debris removal seen as peak levels and recession times improved.



Before Log Jam:

11.2 Feet

After: 6.9ft



# Same platform, different use cases

---

Flood  
Detection



O&M

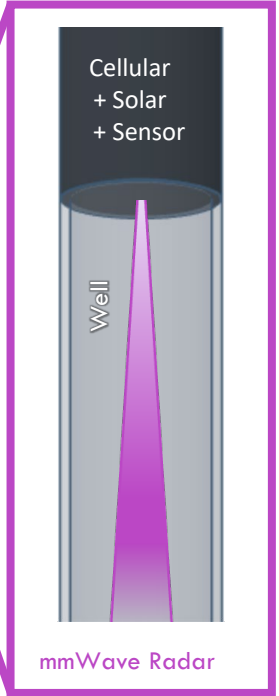


Asset  
Performance



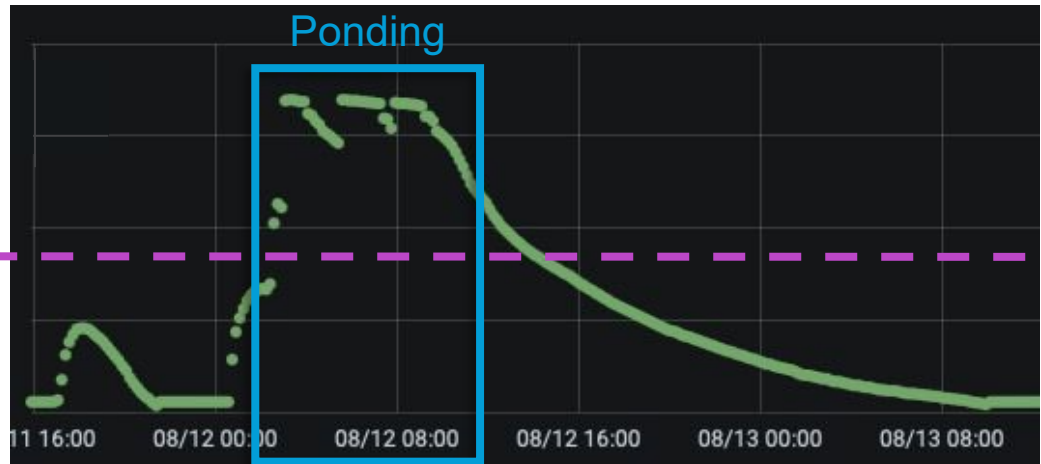
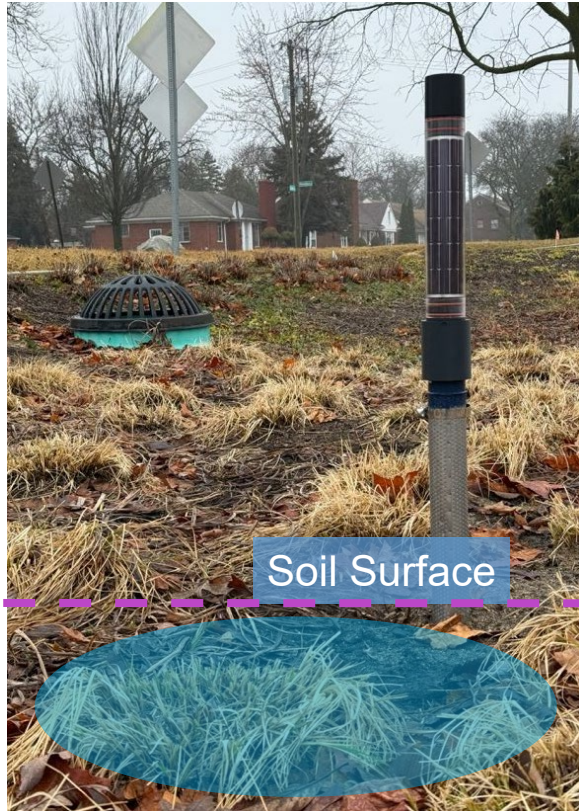


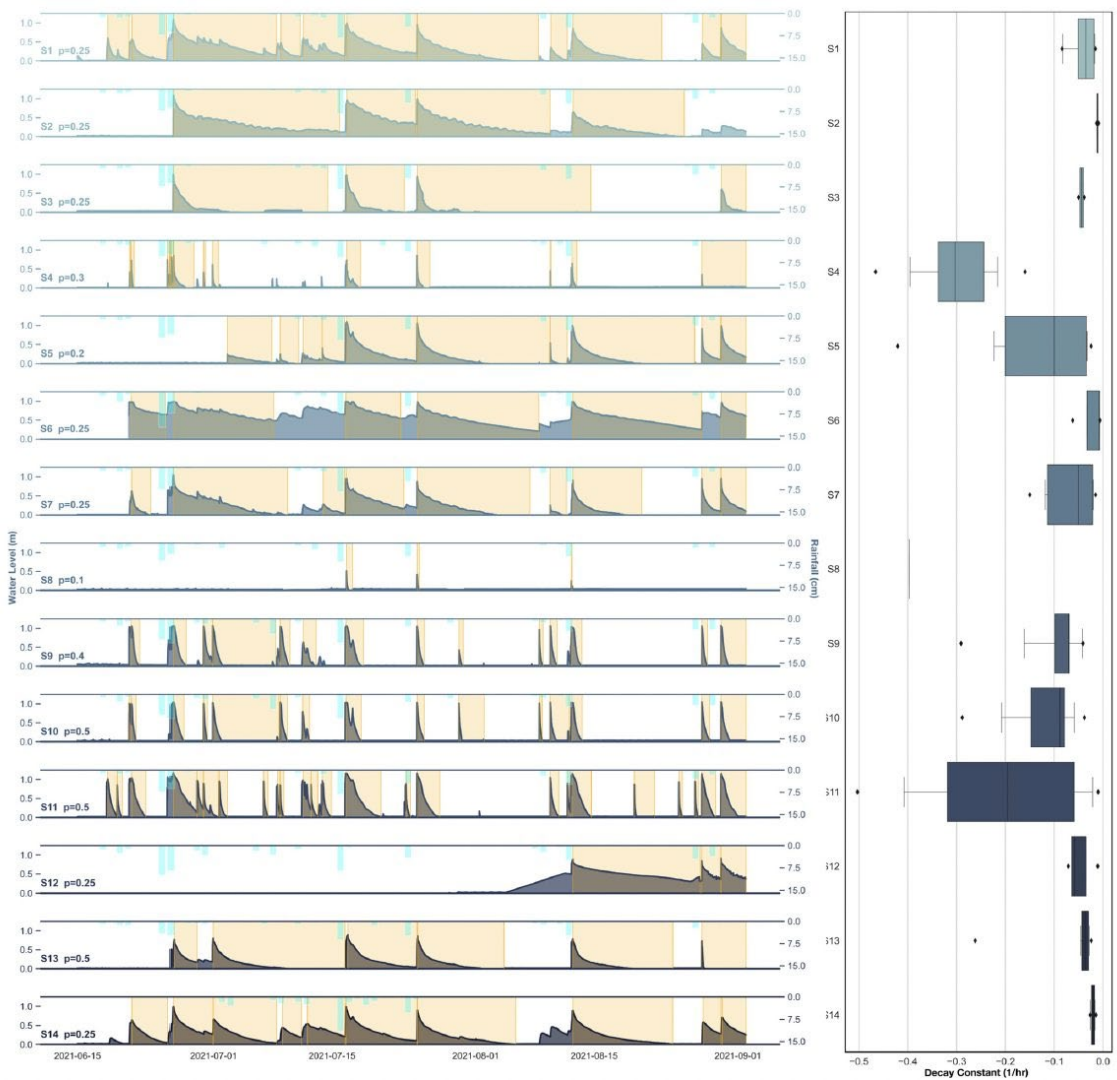
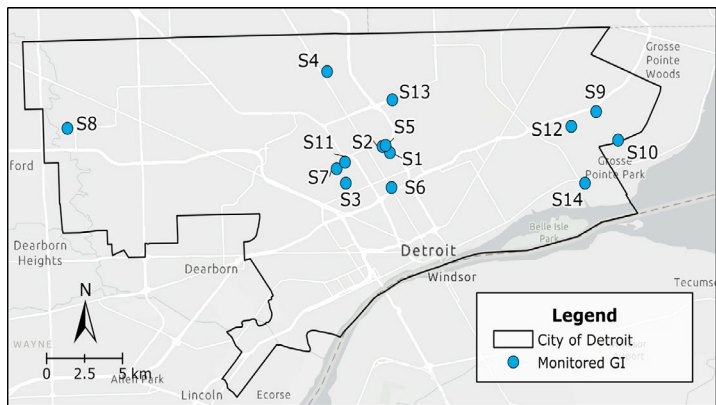
# AI powered GI performance



# AI powered GI performance

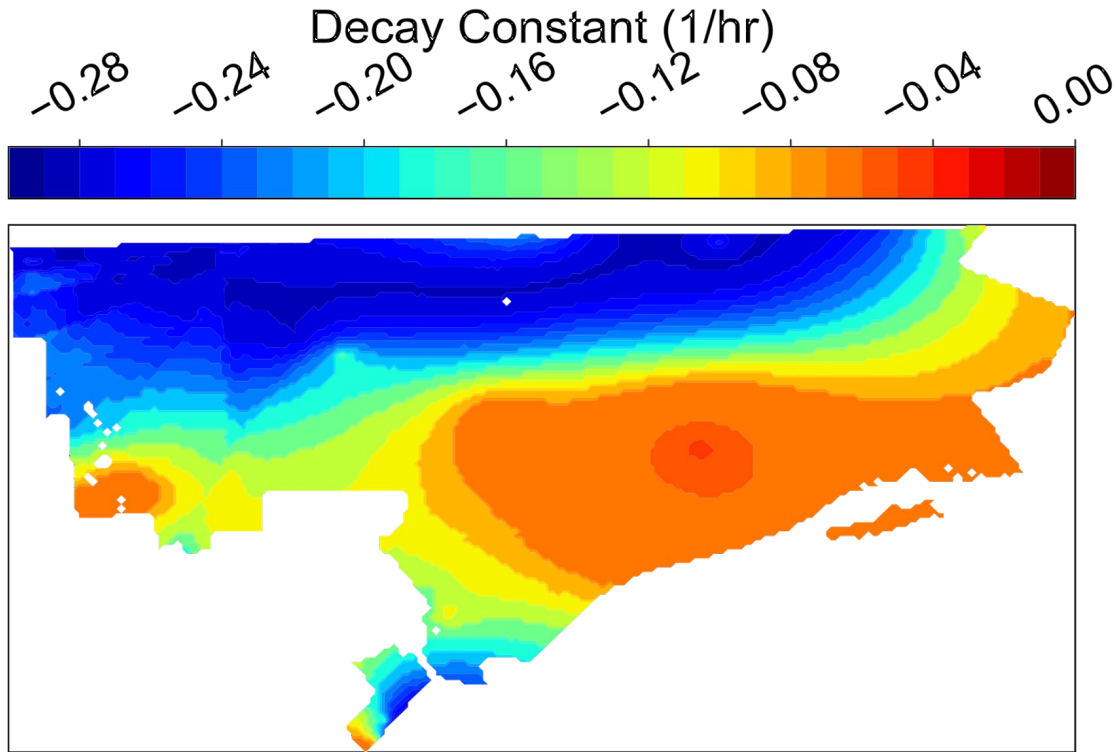
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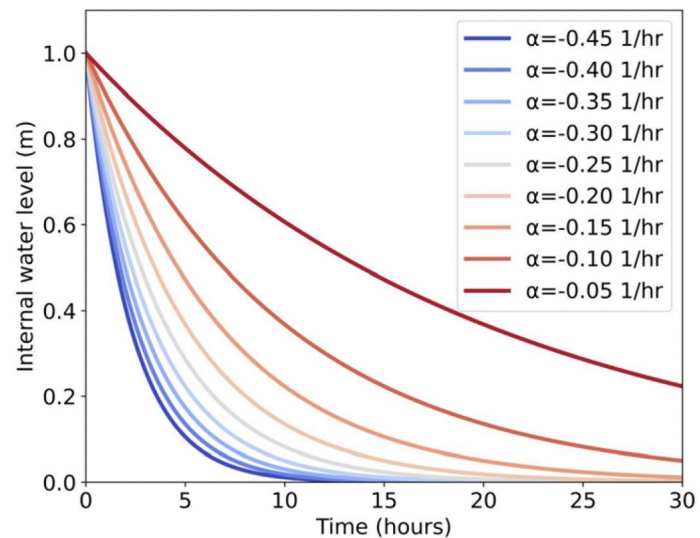
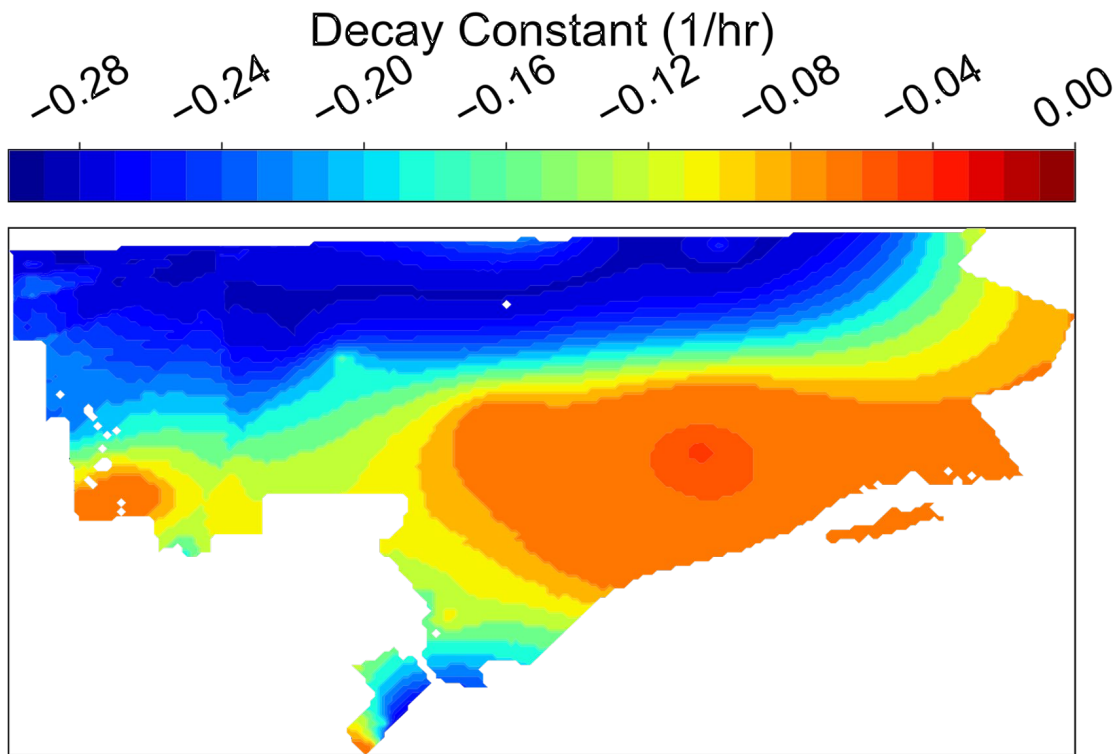


# Data-backed decisions

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# Improve model calibration



# So what's emerging here?

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It isn't ~~a sensor.~~

It isn't ~~a dashboard.~~

It isn't ~~AI alone.~~



## It's the integrated platform.

*Sensors, network operations, data quality, AI, alerts, and accountability. End to end.*



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