

BPW May 11, 2022

Introduction

- EMS has requested a system like this for numerous years
- City Engineer relayed information re: technology being used in other locations (May 2021)
- USGS approached Engineering about piloting the technology (May/June 2021)
- Concept:
 - Sensors monitor stormwater elevations in the stormwater pipes and on the street at select locations
 - > When stormwater reaches a certain level, alerts are sent
- > Alerts can be used to:
 - > Notify EMS which streets are impassable
 - > Notify Operations on which streets need to be closed
 - Other as Requested



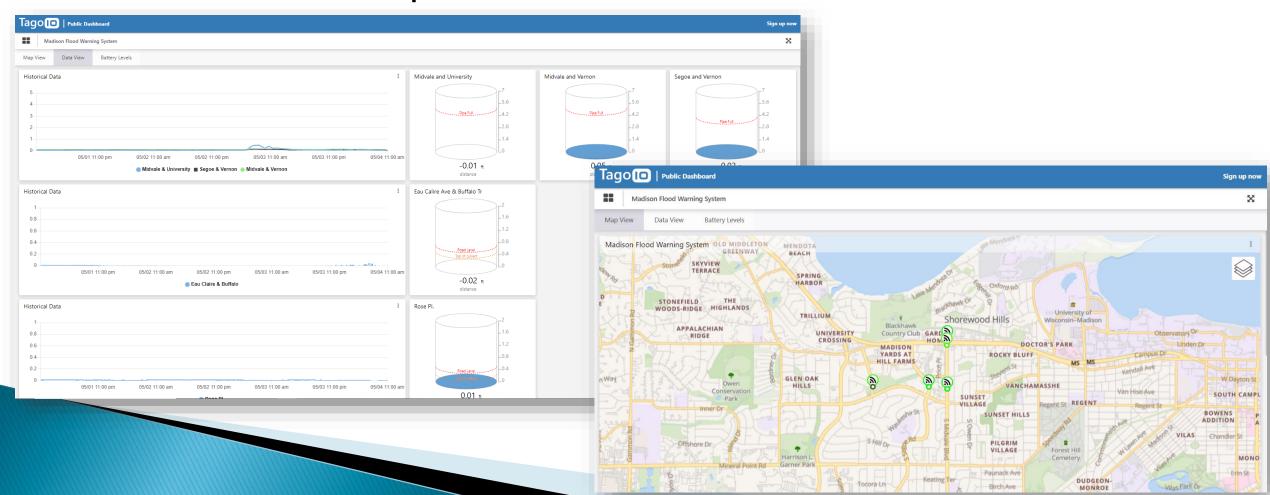
Pilot Study Location

Currently have one five sensors installed
Estimating approximately 30 total



Dashboard and Alerts

Initial Dashboard CreatedInitial Alerts set up



Logistics

- Initial discussion (spring/summer 2021) just with USGS
- > USGS secured a Grant/Partnership (fall 2021) with Intel Corp to expand Pilot Locations to approximately total of 30 sensors
- > All funding, equipment, resources are provided by outside sources, except:
 - > Physical locations
 - > Power for 5 gateways (need to be hardwired)
- Current grant is for 1-year, expiring December 2022
- Following grant expiration, City to decide if they want to continue with the system



Next Steps

Continue meetings with partners and other agencies including: EMS, Operations, IT, Legal, Risk, etc

Continue installing sensors

> Eventually

- Determine longevity of system
- >Determine funding, staffing, and O&M if City going to continue system
 - Actively looking for grants
- Explore ability to incorporate use of real-time controls for flood mitigation

