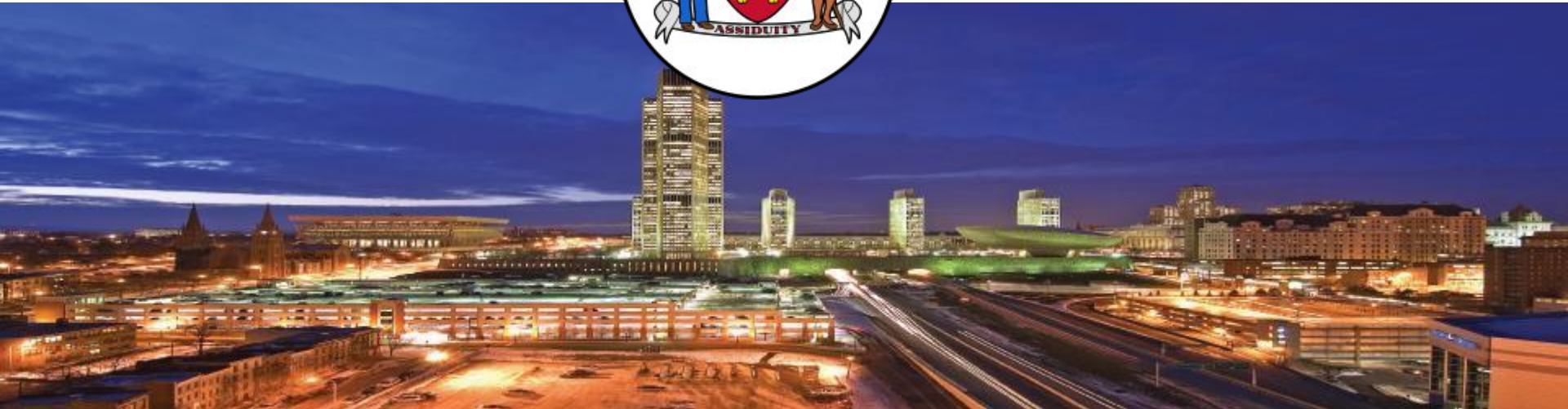
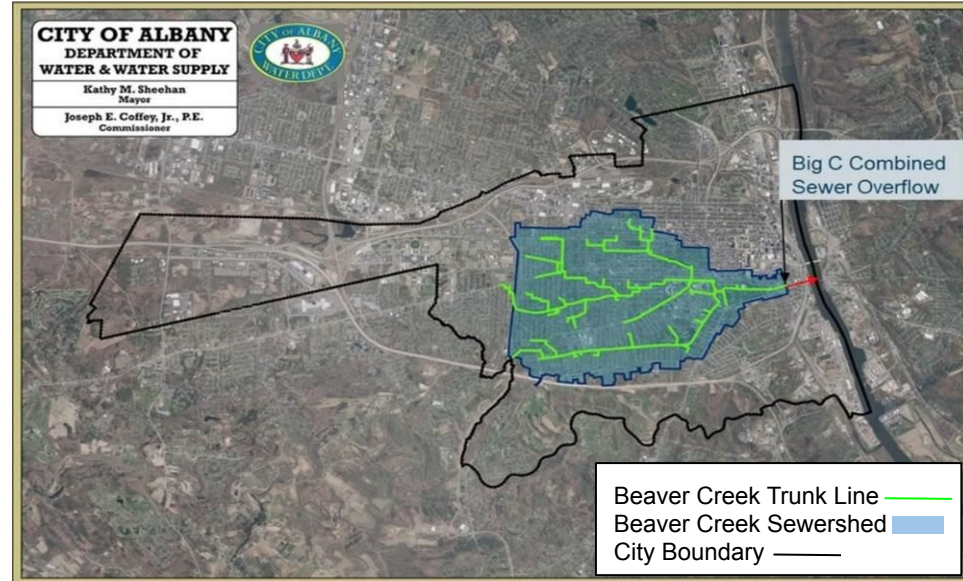


Case Study: Addressing Flooding and CSOs in the City of Albany, NY

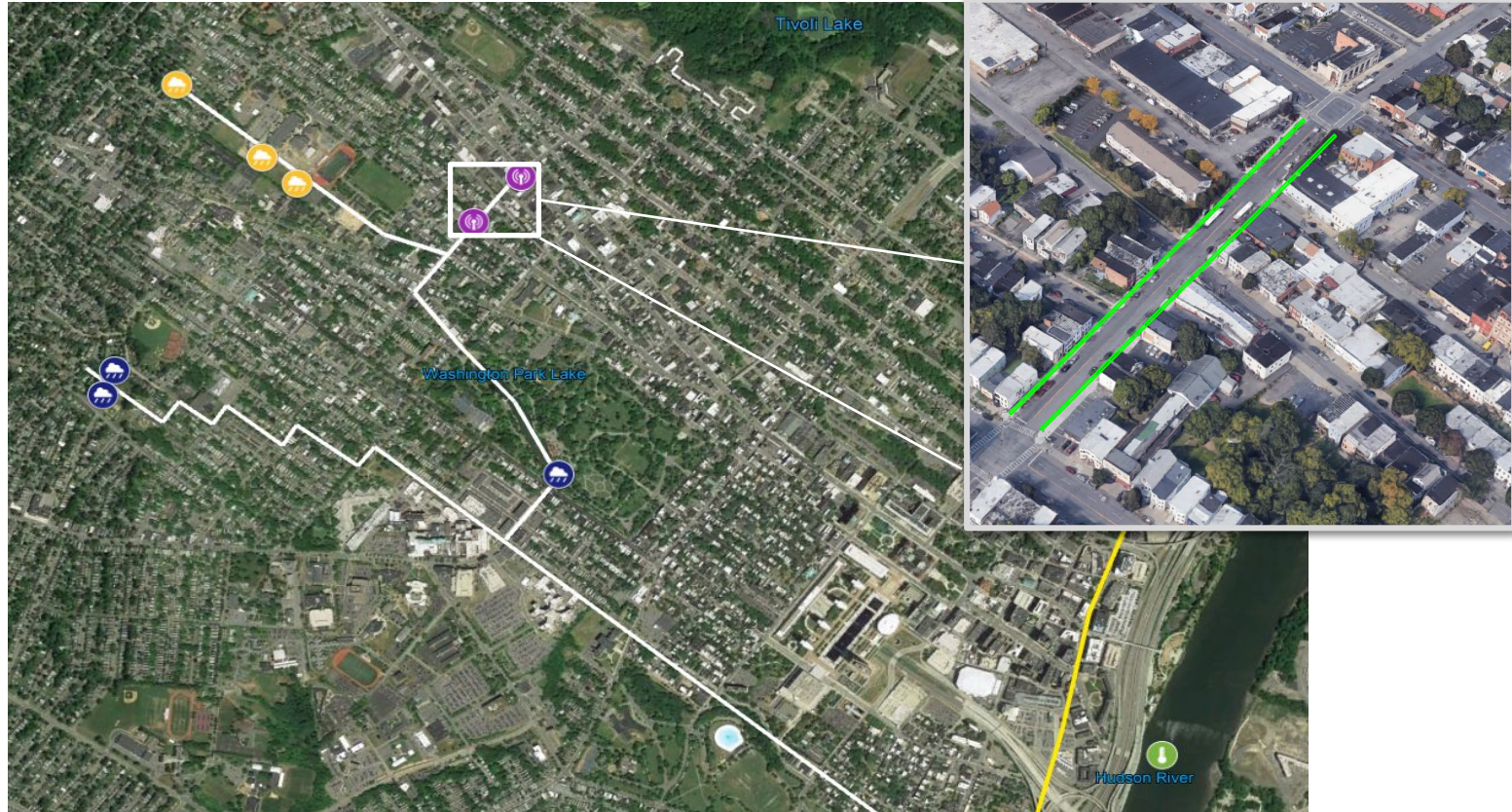


Challenges faced by Albany

1. What are our baseline conditions and how does our system respond to storm events?
2. How do we maximize what we have and are building?
3. How will we operate and maintain our infrastructure?
4. How do we build for resiliency?

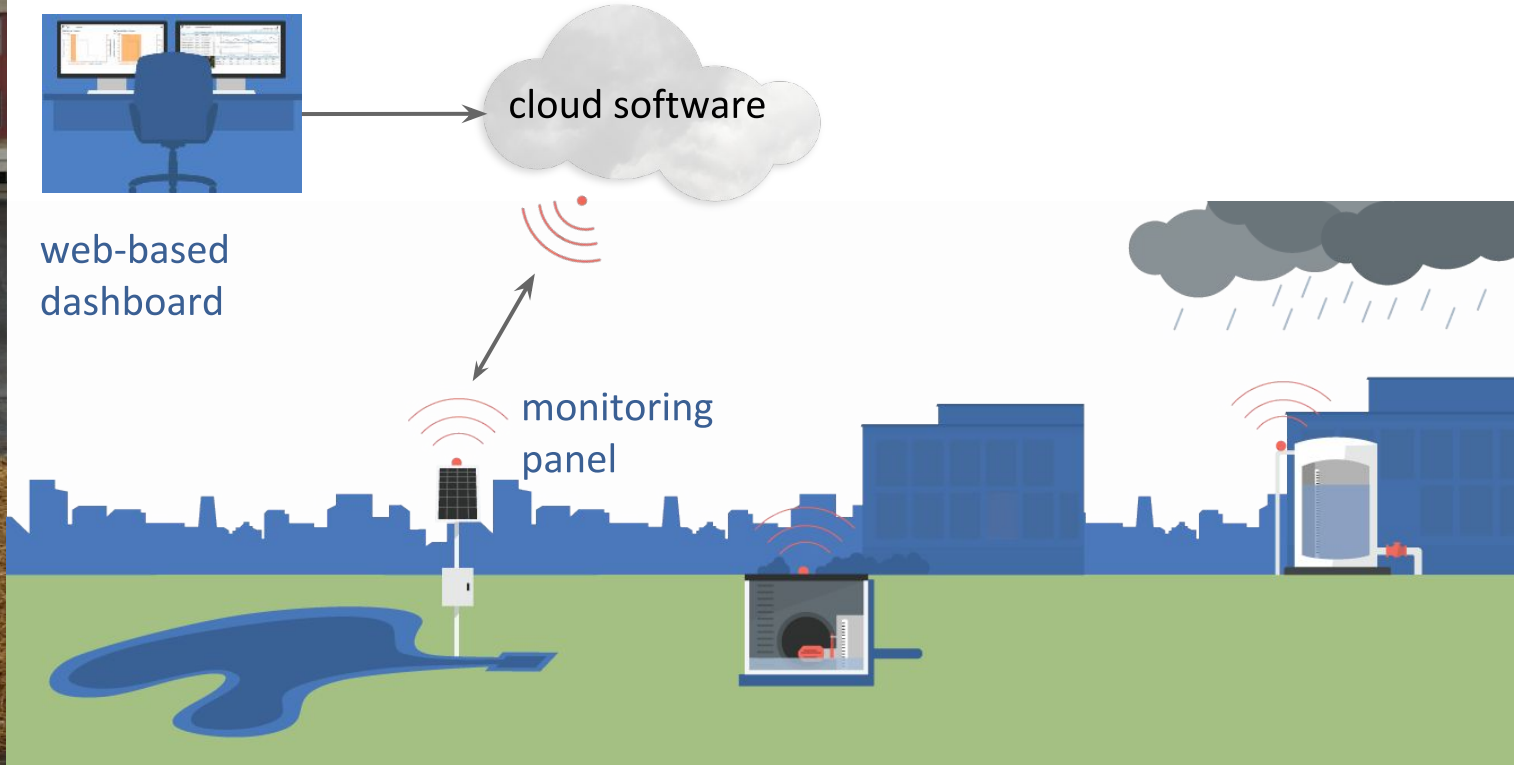


Quail Street: Start with baseline monitoring

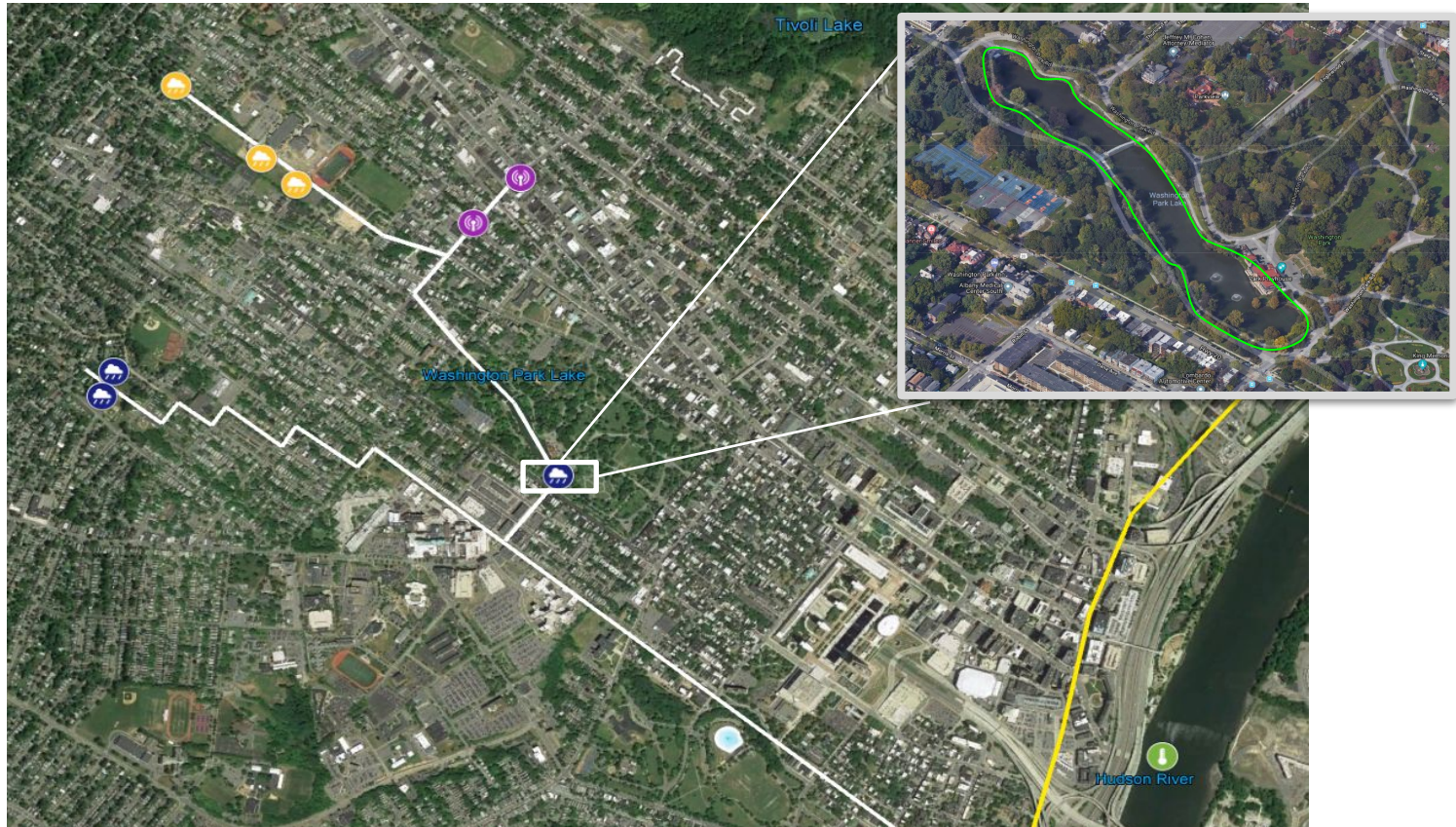




Green infrastructure monitoring



Washington Park Lake: Maximize existing storage



Hansen & Ryckman: Maximize new infrastructure





Washington Park Lake

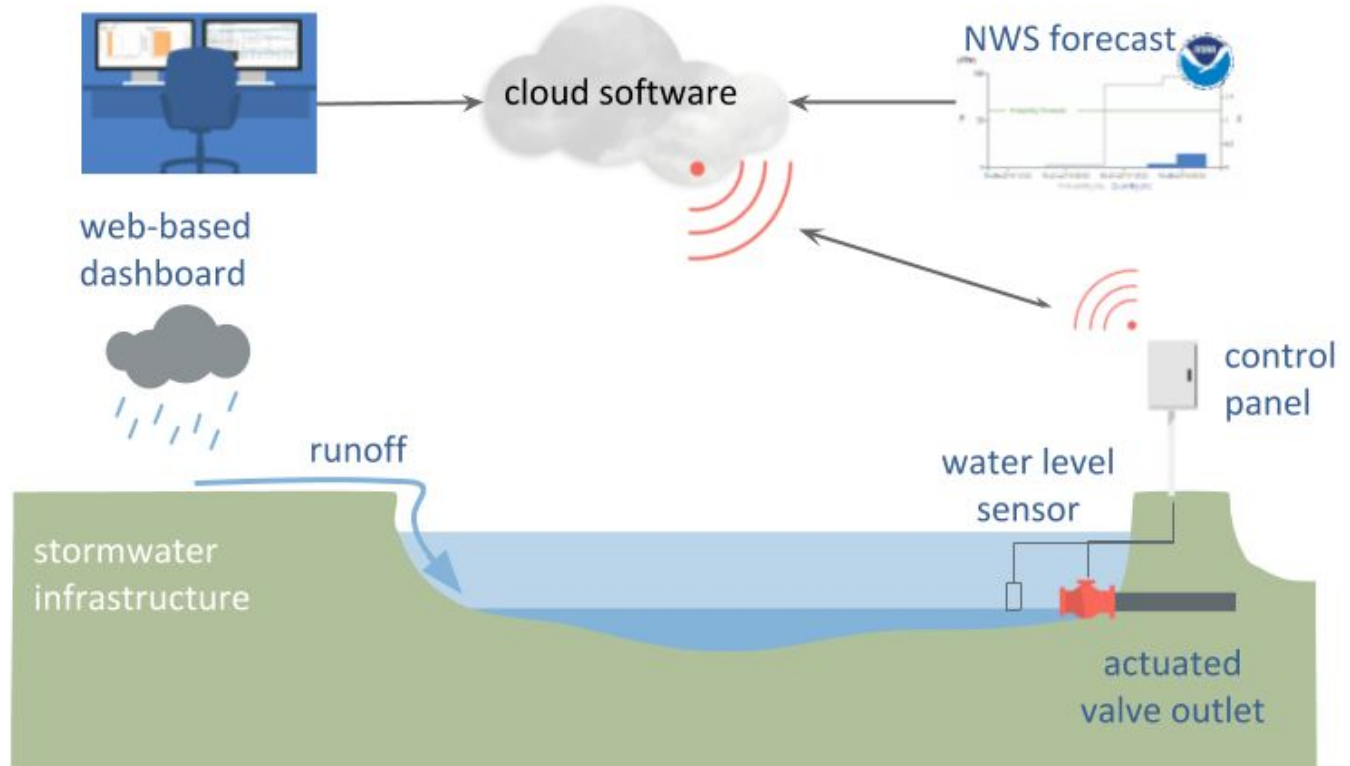


Hansen Constructed Wetland



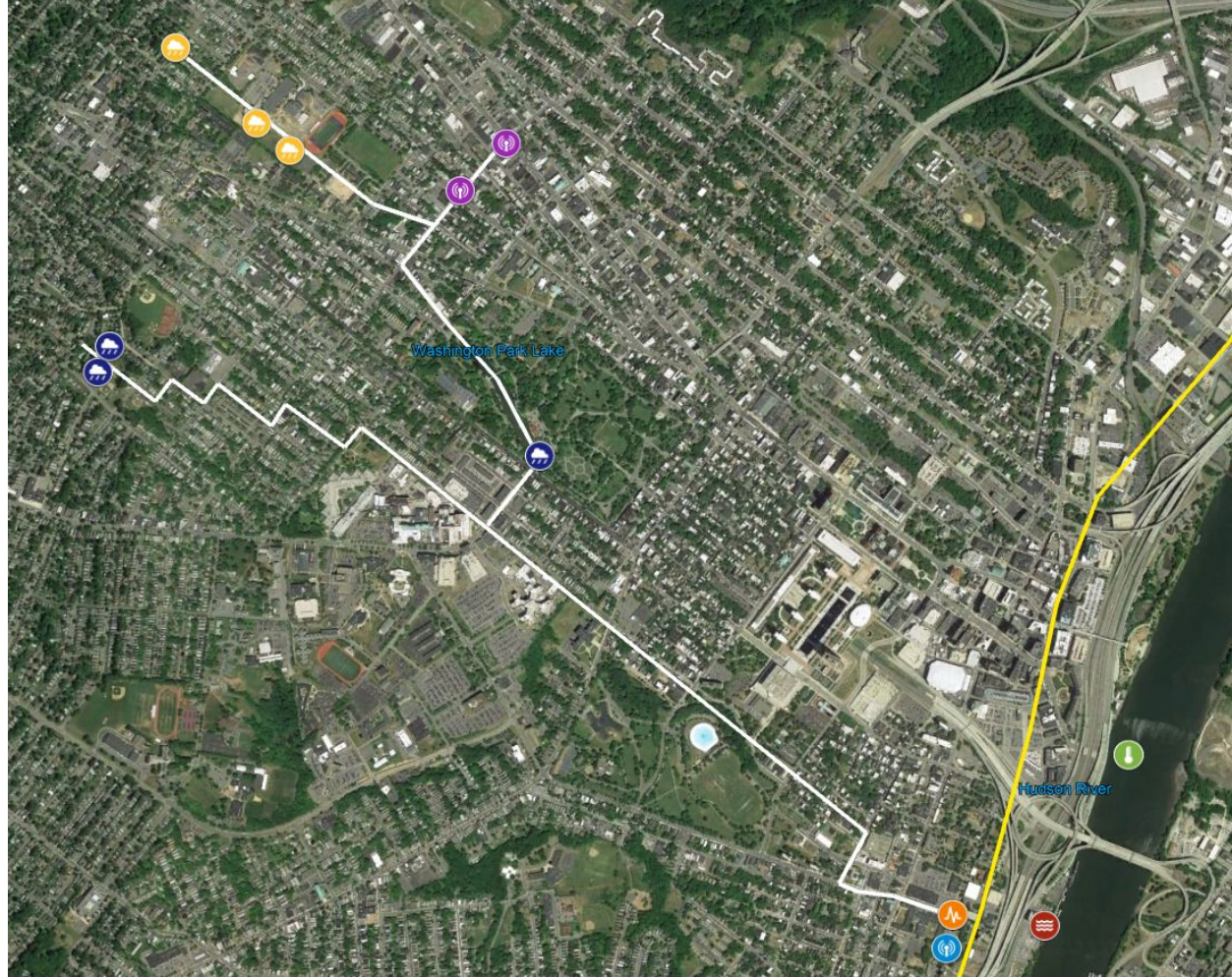
Ryckman Underground Detention

Continuous Monitoring and Adaptive Control (CMAC)

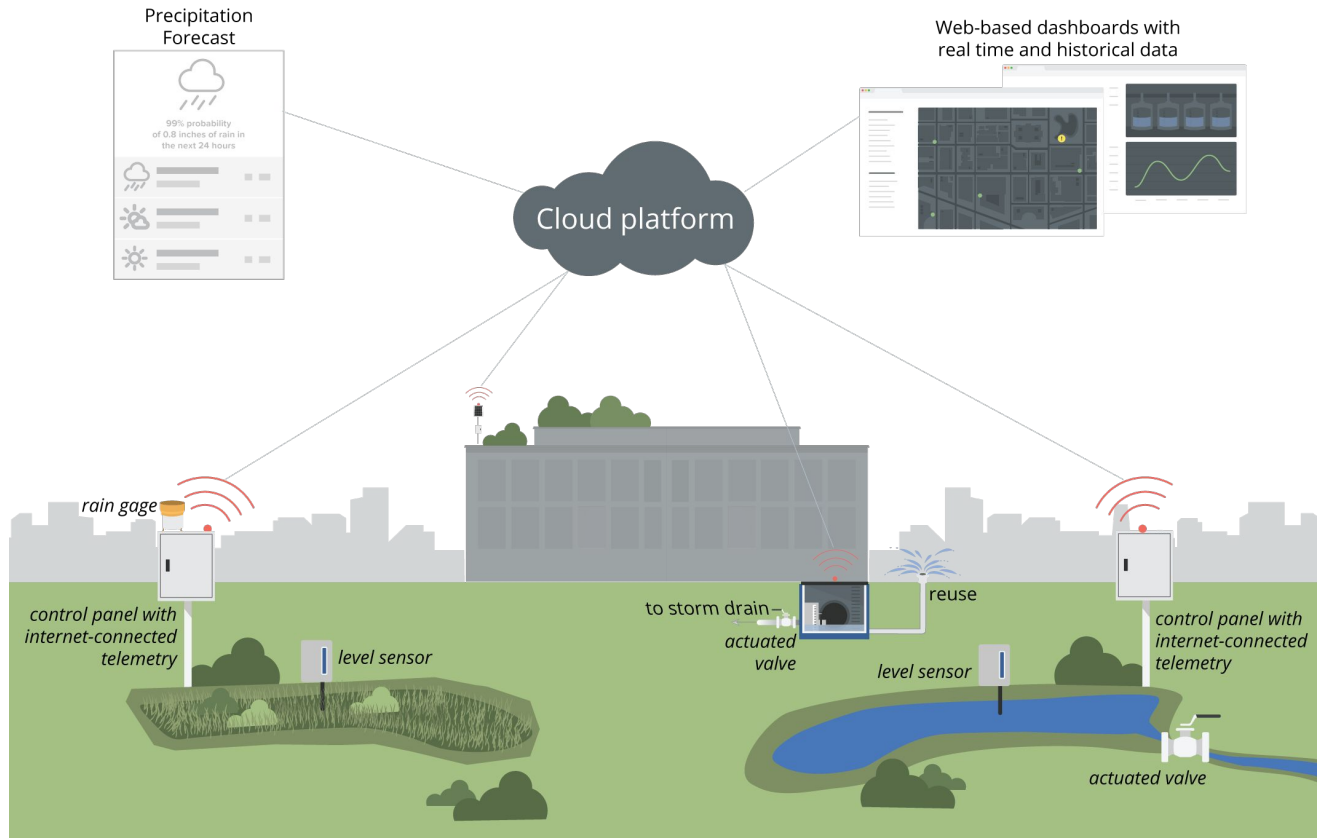


Albany's smart infrastructure network

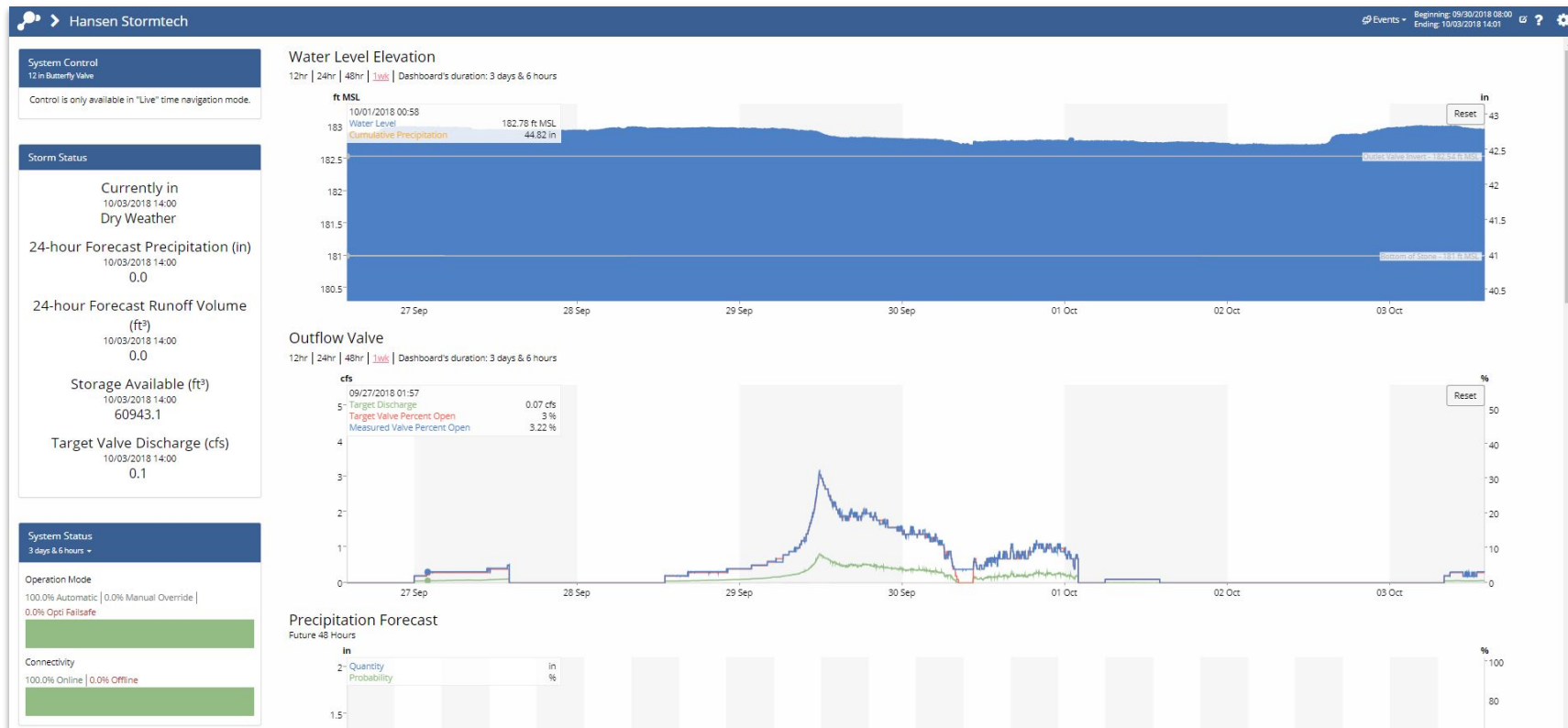
- Washington Park Lake
- Ryckman Wetland
- Hansen Ball Field
- High School Lower Field BC I
- High School Upper Field BC VI
- West Lawrence Street BC III
- Quail St GI #1 Monitoring
- Quail St GI #2 Monitoring
- Big C Monitoring
- Big C Regulator
- Big C Outfall
- USGS Stream Gage
- Beaver Cr. Trunk Sewer
- Albany Interceptor Sewer



Smart watershed management with Opti



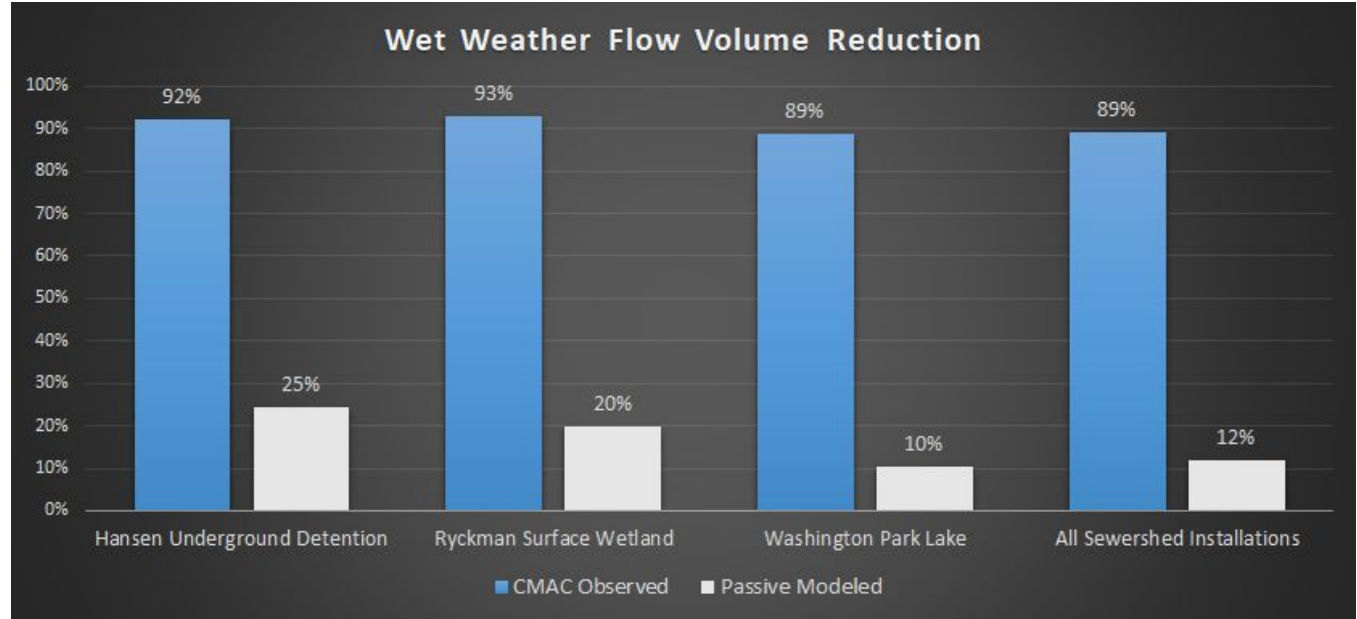
Visibility and insight into infrastructure performance





A **6.5%** additional capital investment has led to a **6.5x** improvement in incremental wet weather performance as compared to passive control

Opti outperforms passive infrastructure



Dataset taken from March 1, 2018 to March 1, 2019 for all sites above