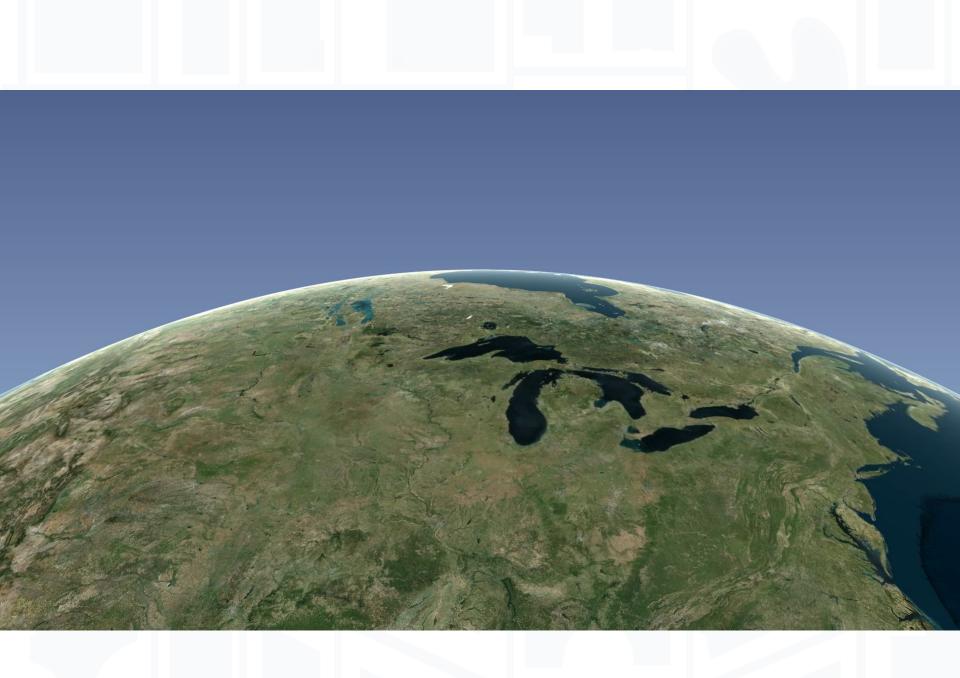
Preventing Flooding with Cloud Technology



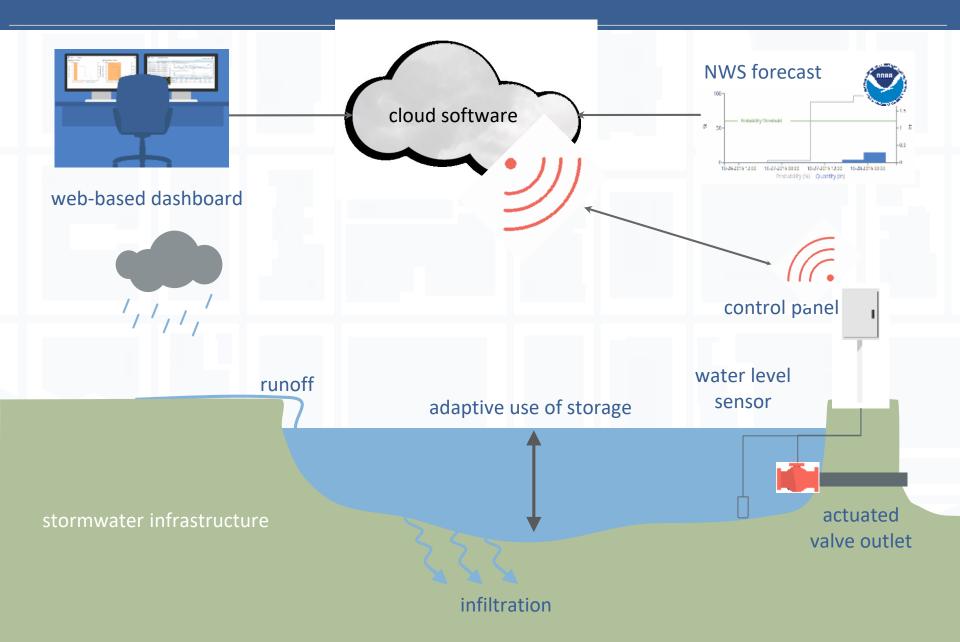
"The infrastructure we have today is capable of much more than we realize," states Shively. "By understanding and improving the system that already exists, we can adapt best management practices and begin to utilize existing assets to the maximum extent possible, UEA to the MEP."



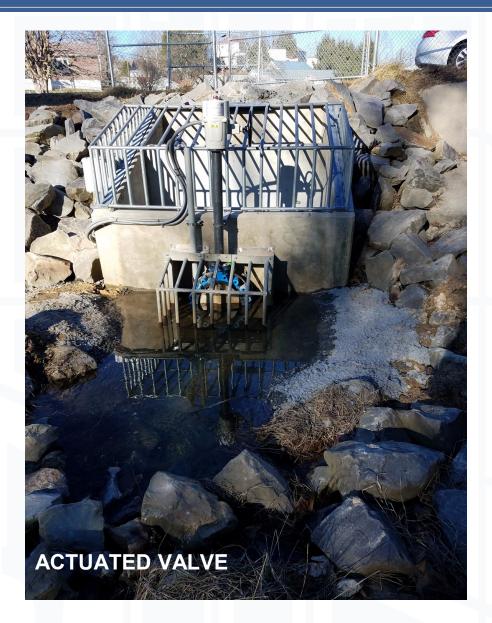
The evolution in stormwater management



Continuous Monitoring & Adaptive Control (CMAC)



Field view of typical hardware components







What is the status of my stormwater infrastructure?

What needs to be done in preparation of the event?

What resources do we need for emergency operations?

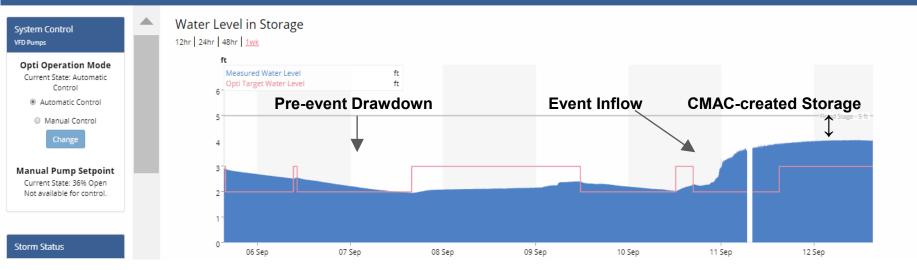
Leverage existing stormwater assets and infrastructure



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Maximizing storage before Hurricane Irma

🔑 🕨 Central Park Lakes

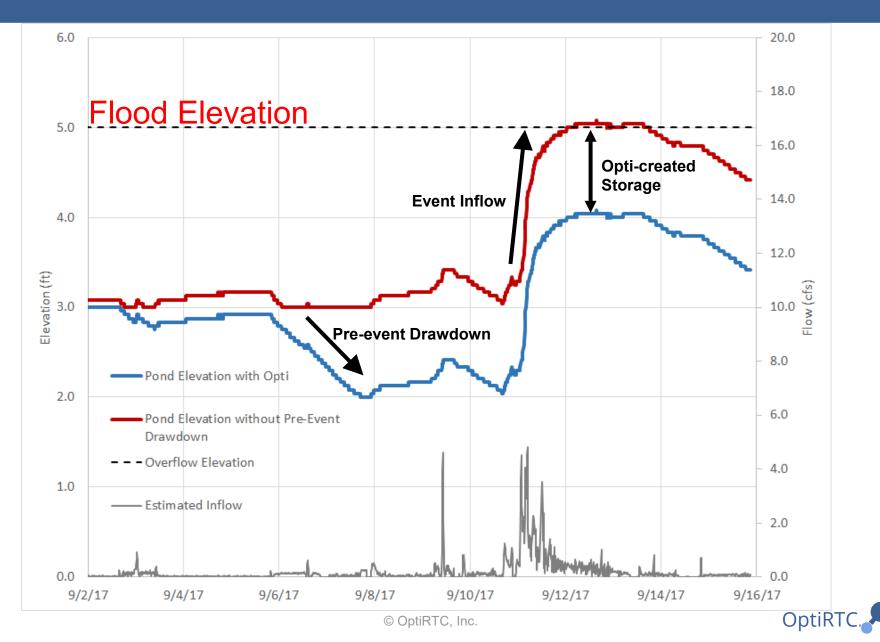




Summary Statistics		
otal Precipitation (NOAA)	8.4 in	
otal Estimated Inflow Sept. 6 – Sept.14, 2017)	13.5 MM ft ³ or 300 ac-ft.	



Pre-event drawdown prevented flooding



Case Study: Chicago Smart Green Infrastructure Monitoring





Mayors Explore Data-Driven Sustainability Solutions with Opti, City Digital Partners

Mayor of London Sadiq Khan tours green technology pilots in Chicago with Mayor Rahm Emanuel



Monitoring platform and Public API

CHICAGO DATA PORTAL		Browse Tutorial Feedback 🛛 🔂 🎔 Yuu 🔍 🔄	ign In
	Sustainable Green Infrastructure Monitoring Explore D Sensors Environment & Sustainable Development	Data V Download API Share ***	
	Results from City-installed sensors measuring water runoff from streets and sidewalks. These data can be used to measure the impact of sustainable green infrastructure on flooding. These sensors also capture weather data More	Updated August 28, 2017 Data Provided by City of Chicago	
	Featured Content Using this Data Smart Green Infrastructure Monitoring C External Content Further information on the SGIM project.		
	About this Dataset		

Coordinated urban watershed



Thank you

