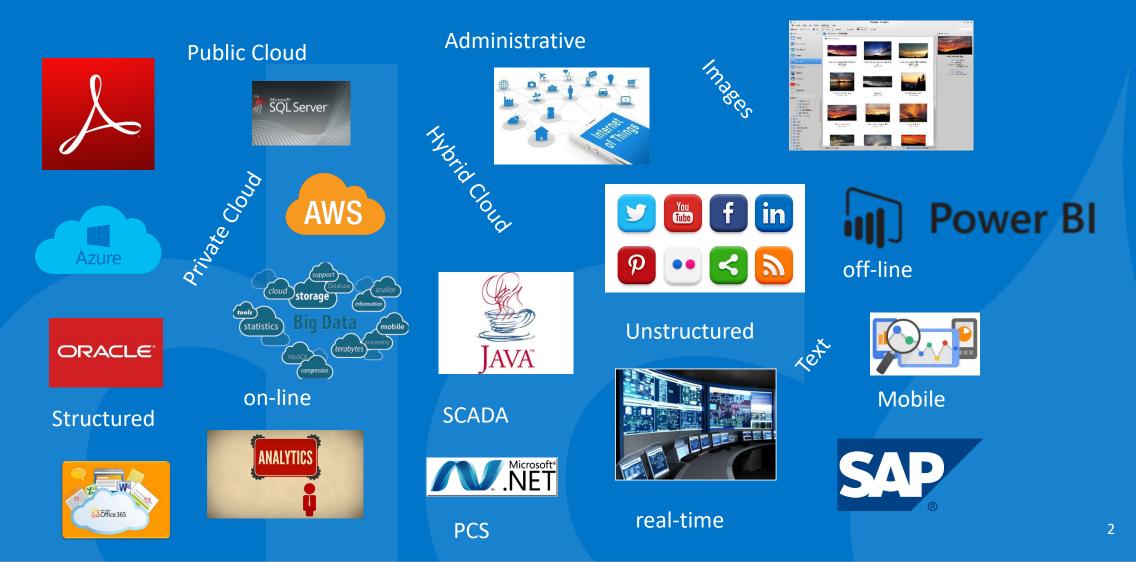
dc Digital Transformation in Water & Wastewater

Thomas L. Kuczynski VP of Information Technology

Navigating the Digital Jungle

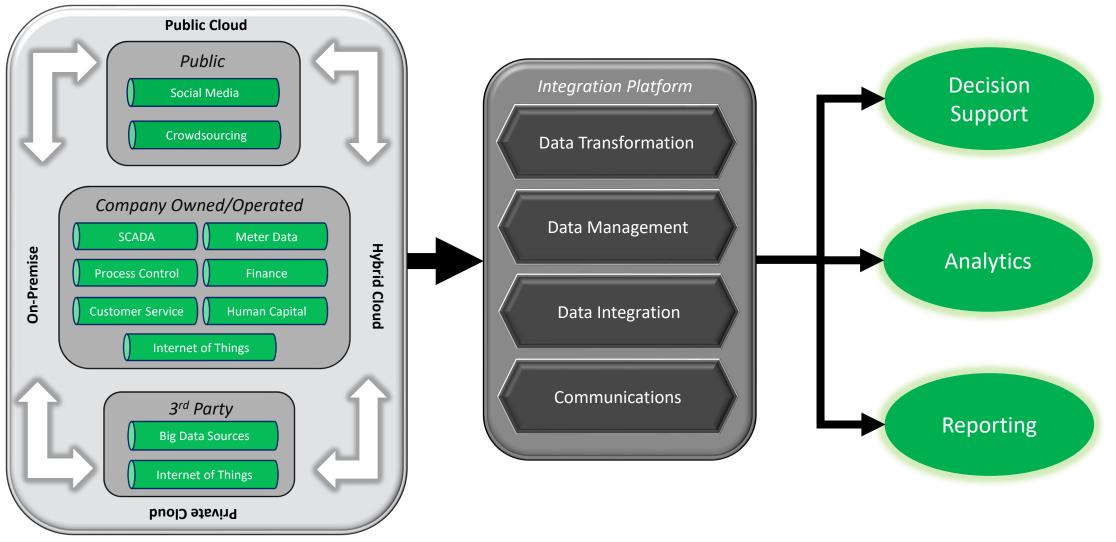
Navigating the digital landscape is fraught with danger without an appropriate guide, relying on an adhoc approach to digital transformation will leave you stranded on an island of information.





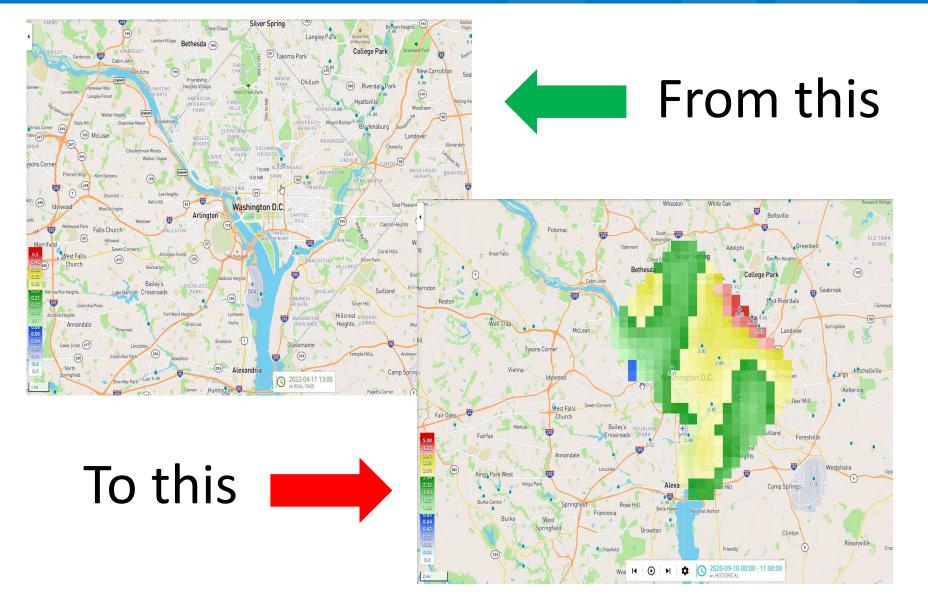
Benefits of the Digital Utility

The **Digital Utility** is characterized by the seamless exchange of data assets from source to use regardless of their origin or ownership. Seamlessly blending disparate data sources and types produces the fuel necessary to power the **Digital Utility**.



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Storm Tracking and Forecasting



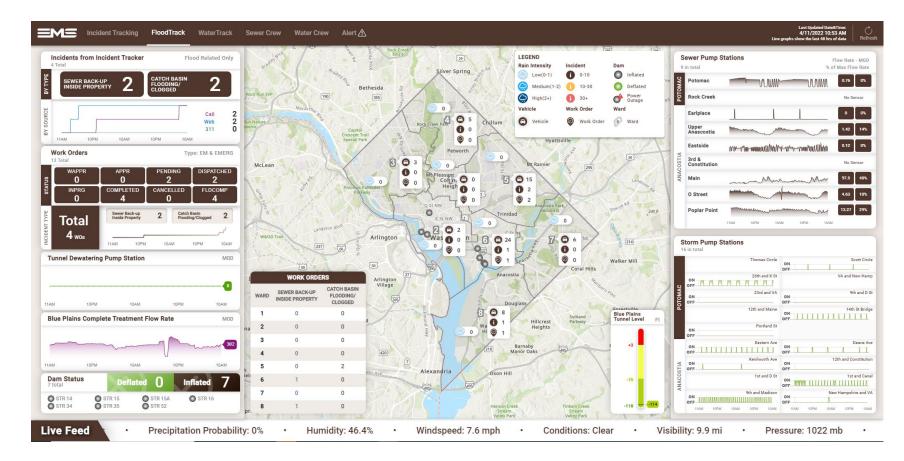
Benefits

Preposition resources Reduce response times Reduce overflow potential



Collection System Monitoring

Real-time system wide monitoring

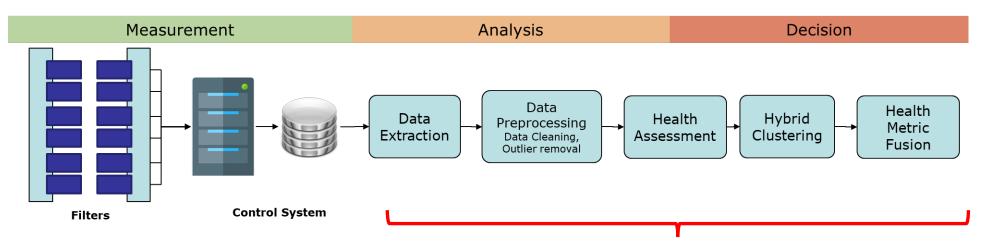


Benefits

Maximize resources Reduce response times Reduce overflow potential Improve stakeholder awareness Improve customer service Real-time alerts Ensure compliance

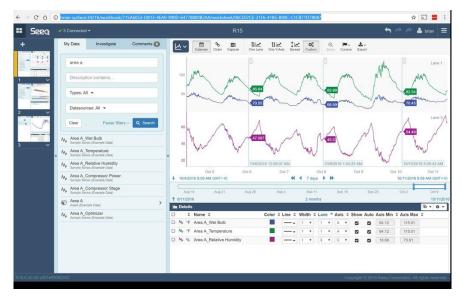


Filter Health Monitoring



Benefits

Proactive preventive maintenance Reduced downtime Eliminates compliance issues





Digital Twin - a virtual replica of a physical system, process or product

- Direct Benefits
 - Move from a reactive management strategy to a more proactive operational strategy
 - Real-time situational awareness for all stakeholders
 - Reduce operating expenses (OPEX) such as energy and chemical consumption
 - Optimization of maintenance schedules and improved asset performance
 - Reduce and/or eliminate spills of untreated wastewater
 - Increase capacity through improved operations
 - Efficient reporting to the authorities
- In-direct Benefits
 - Training and development of staff
 - Simulate other operating approaches