

MAY 18, 2022

Unified operation and data platform streamlines efficiency and optimizes water production

Infrastructure Track PI World 2022

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AVEVA

Agenda

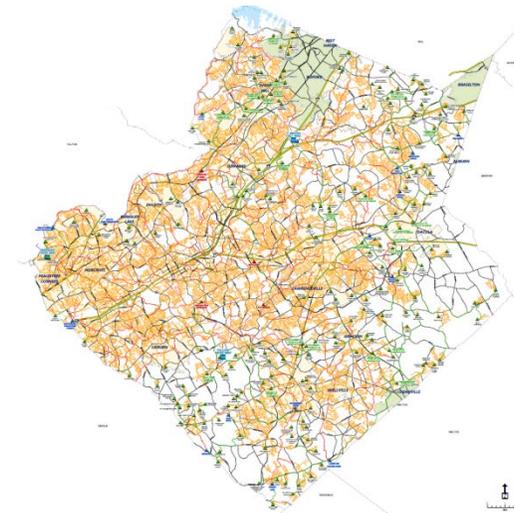


About Gwinnett Water

SCADA and UOC Journey

- Share the journey towards SCADA modernization, deployment of UOC and implementation of cyber security

Lessons learned through this journey



Gwinnett County

Atlanta, Georgia area

- Serving a population of 936,307 from Lake Lanier with a staff of 567 employees
- 245,840 water meter accounts
- 70 million gallon / day capacity
- 4000 miles of distribution pipes
- 3000 miles of sewer pipelines
- 1400 miles of stormwater drainage pipes
- F. Wayne Hill WRC is one of the largest membrane and ozone facilities in the world
 - 13,000 critical assets



The Department of Water Resources



DWR Mission -To provide superior water service at an excellent value

2 Water production plants



Water Distribution System



WW Collection System



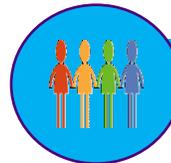
3 WW Reclamation Plants



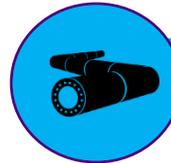
Protecting Public Health



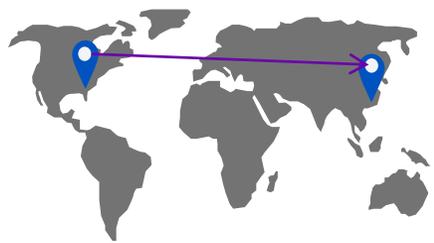
437 square miles



940,000 Population



8,000+ miles of Pipes



F. Wayne Hill WRC is one of the largest membrane and ozone facilities in the world



Working to be a utility of the future

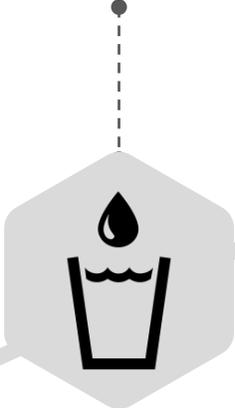


DWR strategy

Continuous improvement through personal commitment, innovation, efficiency, and education



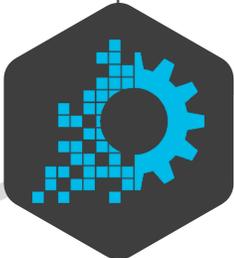
Providing fundamental & reliable services



Optimizing operations, delivery and Support



Transforming operations and systems to meet future needs



Continue to be a utility of the future

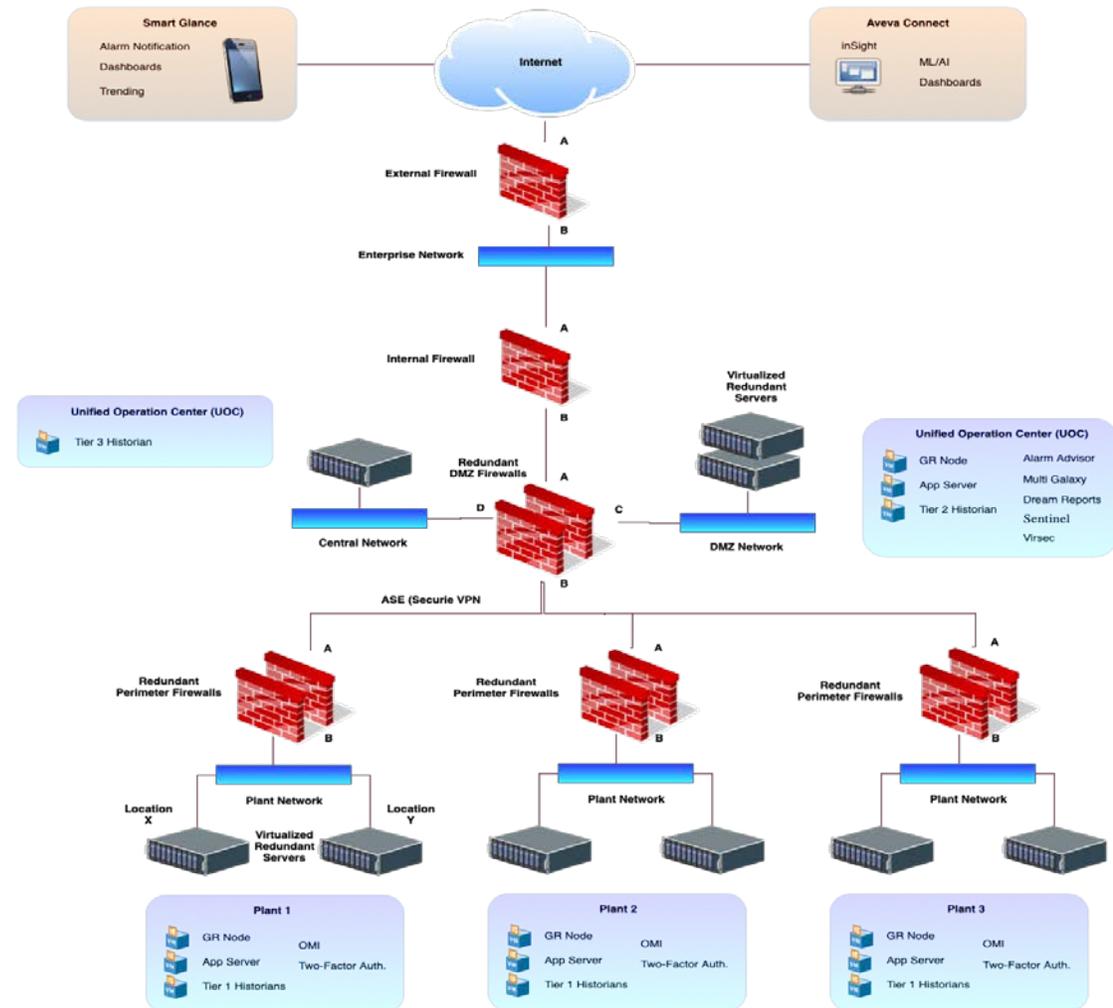


Digital Transformation/Security Lesson Learned

Gwinnett County Digital Transformation

Gwinnett County Water Resources

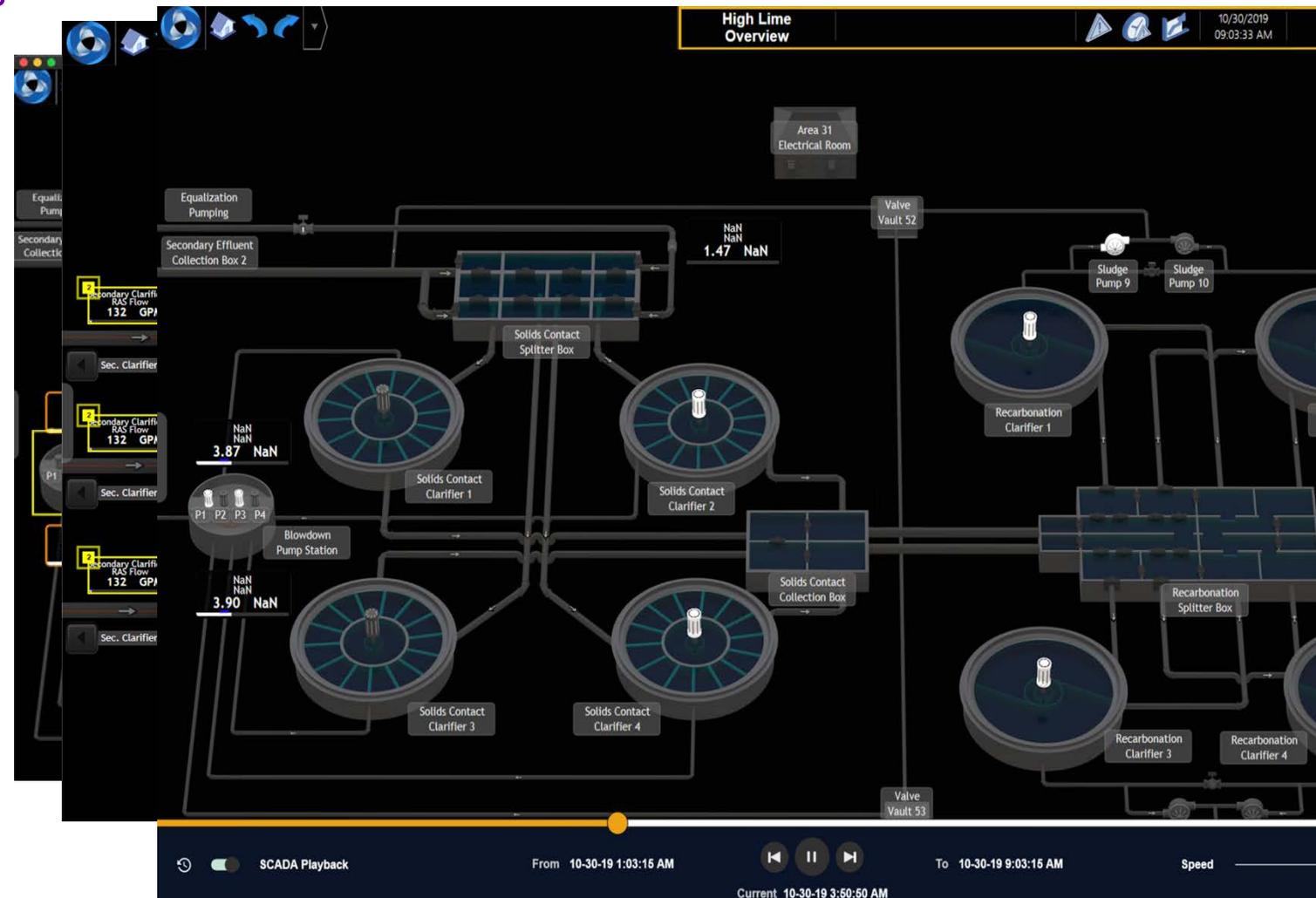
- OMI (Plant Level)
 - Design Concepts & Situational Awareness
 - PreVision (Visual Pattern Recognition)
 - Two Factor Authentication
 - Playback
- UOC
 - Multi Galaxy (DMZ & Enterprise)
 - Access Anywhere OMI
- Enterprise Level
 - Insight View (Cloud)
 - Alarm Advisor (Decision Support Systems)
 - AI/ML (Behavioral Analysis)



OMI (Plant Level)

Design Concepts & Situational Awareness

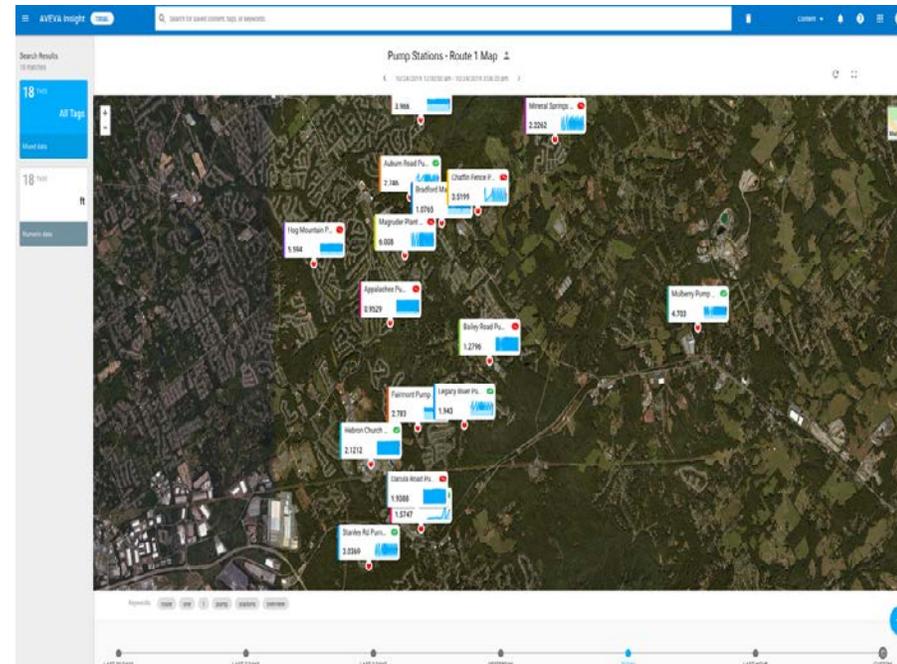
- Adaptability
 - Response Compatibility
 - Digital Twin
 - Dynamic Sizing
- Consistency
 - Symbol Libraries
 - Element Style Libraries
- Explicit and Implicit Messages



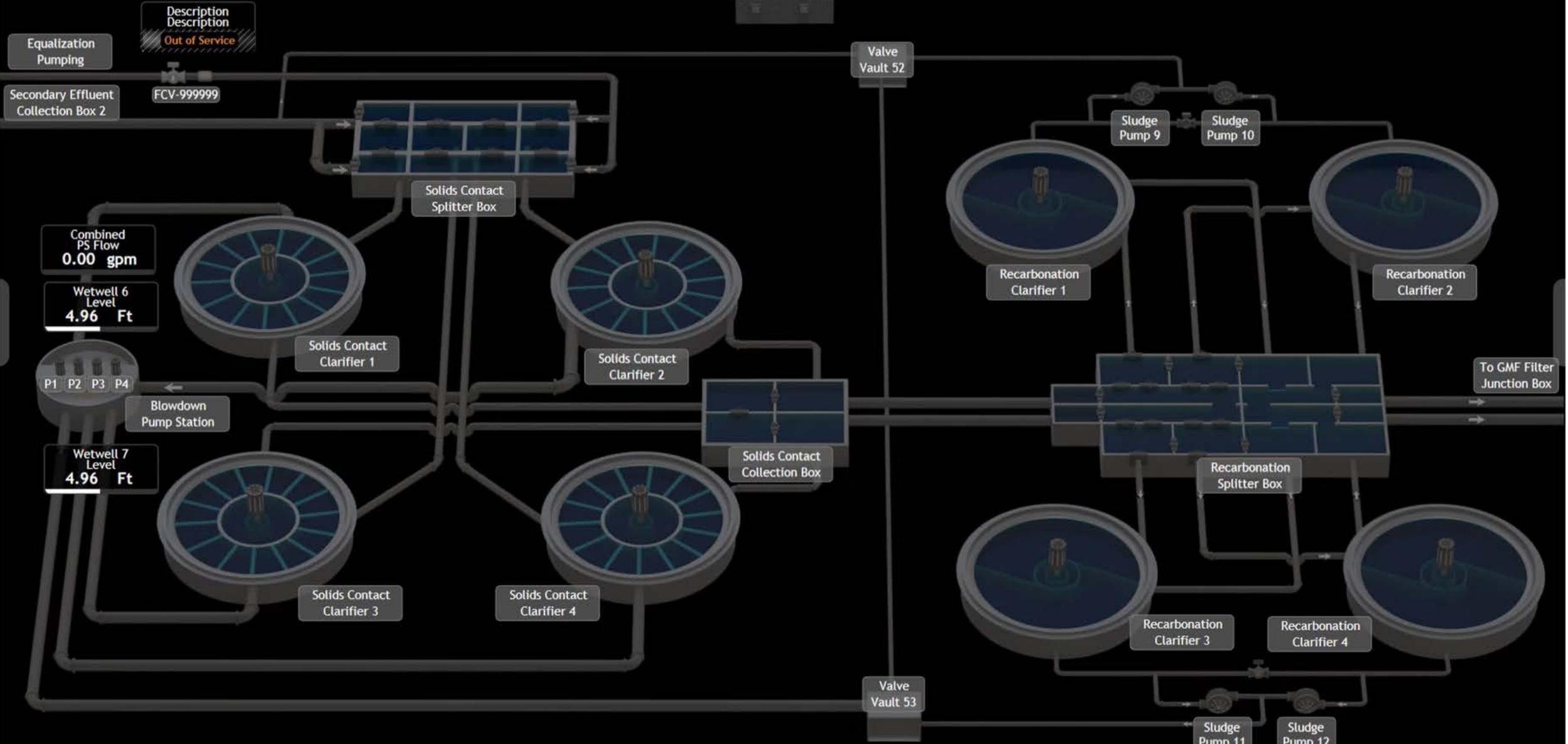
Enterprise Level

Staying ahead of the curve with Insight

- Elevate knowledge
 - Map View
 - Dashboards
 - Alexa Integration
 - Cloud Integration – AI/ML/Data Sharing



Area 31 Electrical Room



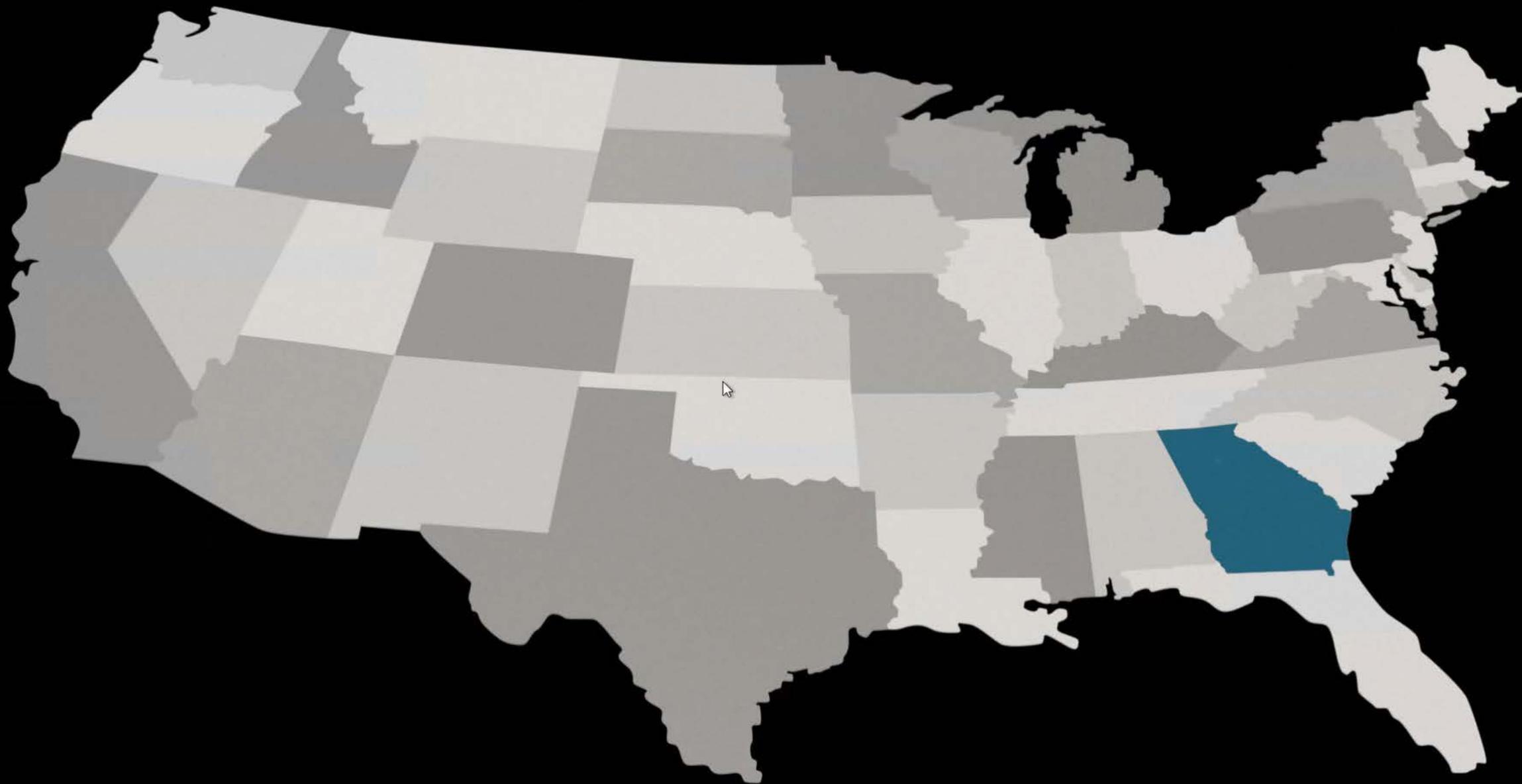
Gwinnett County Overview Map

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Access level : 0



Visibility Drives Performance

Key Questions to Achieve Operational Excellence

Real-time Performance Management

How am I doing (right now!) relative to my plan?

Real-time Decision Support

What should I do (right now!) to maximize the capability of our operations?

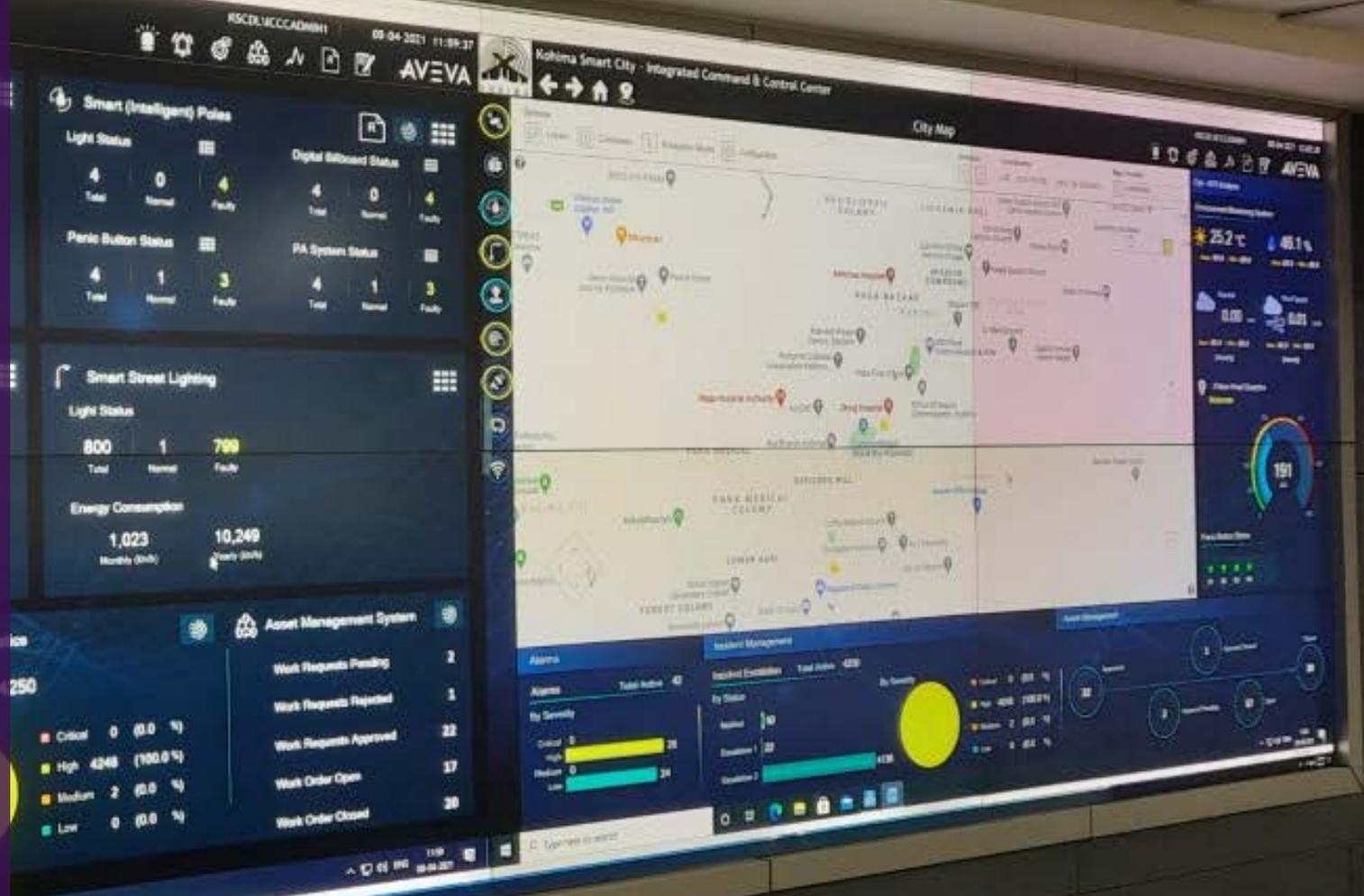


Kohima Smart City

AVEVA's Unified Operations Center helps create blueprint in sustainable smart city innovation

Integrated cross-city command center and technology platform optimizing the management and efficiency of the city's smart services

Deployed remotely to manage traffic, energy consumption using smart street lighting, city pollution monitoring and public address system



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