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# Moving forward sustainably requires a clear view

## **AVEVA Unified Operations Center**


Gain full operational visibility and intelligent insights  
to advance sustainability and your business.

**AVEVA™**

 **Microsoft**



Microsoft Sustainable Partner Solutions  
*Good for your business, good for the planet*

Start here 

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2021 Partner of the Year Winner  
Energy Award  
2021 Partner of the Year Finalist  
Sustainability Changemaker Award

# Stepping up to today's challenges

Gone are the days when profitability, quality, and compliance alone drove companies to digitally transform. Today sustainability is leading the drive to adapt—away from linear, make-take-waste business models toward more circular alternatives.

30 years 

left to reduce greenhouse gas emissions to offset the worst effects of climate change<sup>1</sup>

40% 

freshwater shortfall projected by 2030 if humanity sustains current use and management<sup>2</sup>

Companies are not only looking to reduce CO2 and other greenhouse gas emissions but to boost quality control, traceability, and delivery of sustainable outcomes across their organizations.

To do all this and stay agile, they need to up their game. They need to elevate decision making, processes, and collaboration by bringing data out of silos—integrating disparate systems, layering in AI, and providing full operational visibility to decision makers.

30-40%


Better performance through integrated operations<sup>3</sup>



<sup>1</sup>The race to net zero emissions and why the world depends on it, United Nations, December 2020

<sup>2</sup>Water Action Decade, 2018-2018: Averting a global water crisis, United Nations

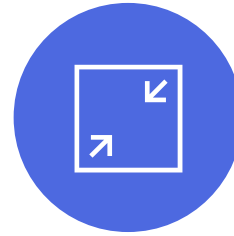
<sup>3</sup>Transform the whole business, not just parts, McKinsey, October 2019



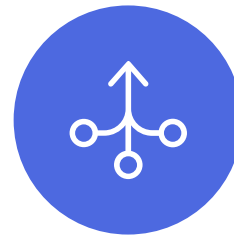
# A system-of-systems approach to sustainability

If scattered systems, data, and workforces make it hard to streamline, an integrated view based on clear, unified data works the other way—revealing pathways to operating sustainably. AVEVA Unified Operations Center (UOC) provides comprehensive visibility across the entire industrial value chain, streaming data from sensors across your operations.

With integrated engineering, operational, and personnel data combined with artificial intelligence and visualized through a dynamic interface, UOC provides your teams insights to improve operational performance, safety, profit margins—and sustainability.



**Reduce energy usage and emissions**  
through improved efficiencies and automated anomaly detection.



**Streamline operational agility**  
through right-sized design, materials and energy selections, and reduced energy usage.



**Optimize performance against sustainability-related metrics**  
and decision making.

# Designed for hybrid cloud

On-premises, in the cloud, and at the edge—AVEVA UOC brings data together in an integrated environment that's designed for hybrid cloud architectures.



Converge and contextualize data for complete enterprise visibility



Gain real-time intelligence to ensure the data works in service of your goals





# End-to-end visibility for better everything

## Customers have seen:

- Continuous improvement with real-time analytics
- Faster, sharper decision making with contextualized data and AI
- Optimized efficiency with finely matched supply and demand
- Steadier operations with enhanced infrastructure availability
- Better asset management with unified oversight across locations

### Create context-driven, actionable insights

With Azure in the background, AVEVA UOC helps you detect inefficiencies and problems to quickly take action and continually optimize.

Speed decision making from two days to two hours.

### Automate process workflows & collaboration

Improve operational and energy efficiency while minimizing risks and costs.

### Simplify KPI tracking

Control all operations and see straight to performance metrics via a single dashboard.

### Trust your platform

Help safeguard data with Azure Active Directory role-based security and the world's most trusted cloud.

30%

lower energy usage

15%


lower CO2 emissions

25%

greater equipment uptime

15%

lower implementation cost



# Drive efficiencies where you need them most

## Smart cities & infrastructure

Manage complex operating procedures, speed crisis response, and troubleshoot problems with integrated control of critical infrastructure such as buildings, airports, and railways.

## Energy sector

Use edge-to-enterprise insights to proactively resolve abnormal events and ensure production continuity.

**60%** faster emergency response time for a smart city operation

## Smart water

Monitor and control water and wastewater operations. Drill down from broad regional views to asset KPIs for complete performance visibility.

## Mining

Optimize work processes to reduce energy and production loss, coordinate shift work, and automate work orders.

**\$1B** in value in 2 years for a large oil & gas company

## Solar & wind renewable power

Converge all aspects of renewable power generation into a single, map-based view to drill down into performance KPIs and ensure operations reliability.

## Marine

Digitally transform across the ship lifecycle, from vessel development and shipyard operations to technology, to create a more sustainable industry.

**50%** lower energy costs for a regional water entity

## Datacenters

Manage complexity across multiple sites and systems, maintain uptime to support service level agreements, and minimize waste and costs tied to energy, water, and workforce efficiency.



SOLUTION IN ACTION

# Enabling digitized amenities for India's smart cities

Developers of Nava Raipur envisioned next-level quality of life through safety, efficiency, sustainability, and livability for the pilot greenfield smart city. The city would deploy world-class land use planning and zoning to mitigate development. Recreational space would abound, and Asia's largest manmade reservoir and multiple entertainment venues would usher to 600,000 residents by 2031. The vision would take a robust infrastructural backbone.

Leadership tapped AVEVA to create an integrated command center powered by AVEVA UOC. The platform merges water, power, lighting, public transport, and other system data to serve as the brain and decision support system for all city operations through a single interface. With integrated workflow capabilities supporting collaboration and information sharing, teams rely on the platform to improve response time and accountability while optimizing resource usage and service delivery.

During COVID-19 lockdowns, UOC helped keep civic services—from street lighting to security, traffic, and communications—running smoothly.

Following the Nava Raipur model five more smart cities are in development, and the city of Kohima is already operational.

## PHASE 1 RESULTS

60%

faster system emergency response via complete oversight

24/7

uninterrupted water and power based on optimized demand / supply

India National Smart Cities Mission  
**Designated Lighthouse**





## SOLUTION IN ACTION

Unified data platform streamlines efficiency and optimizes water production

With an eye to sustainability, the Department of Water Resources in Gwinnett County, Georgia manages the purification of drinking water, fresh and grey water services, and the delivery of more than 70 million gallons of water per day to more than a million residents.

**Gwinnett worked with AVEVA** to implement a digital twin of operations at multiple sites—spanning water production plants, distribution and transmission networks, and hundreds of water collection points. Using AVEVA UOC cloud-based technology, Gwinnett created a unified platform that streamlines efficiency and optimizes performance, boosting clean-water delivery by 20% against rigorous industry standards. The solution also helps target maintenance needs and forecast demand peaks to help ensure safe and efficient drinking water.

## RESULTS

1M+

residents

70M

gallons of water per day

20%

improvement in clean water production day-to-day



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# AVEVA + Microsoft: Partnering for a resilient, sustainable future

A leading industrial software provider and Microsoft Gold certified partner, AVEVA works with customers and partners to deliver solutions that optimize engineering, operations, and performance. From water and energy to food and infrastructure, our solutions transform opportunity into sustainable business value.

Together, AVEVA and Microsoft accelerate the delivery of Industrial innovation across key industries, empowering customers to shape the future. With Microsoft-based end-to-end solutions in the cloud and AVEVA's deep industry expertise, our unique combination of capabilities help businesses capitalize on the power of technology to become more agile, resilient, and sustainable.

Learn more: <https://sw.aveva.com/partners/microsoft>

## Built for hybrid cloud, with Azure



Gain flexibility on-premises, in the cloud, and at the edge



Work remotely, securely, and productively—from anywhere



Securely deploy and scale globally



Join the Microsoft journey to 100% renewable cloud services by 2025

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# Get started today

Contact AVEVA: [www.aveva.com/en/contact](http://www.aveva.com/en/contact)

Learn more about AVEVA UOC:

[www.aveva.com/UOC](http://www.aveva.com/UOC)

Explore Microsoft sustainability partners:

<https://www.microsoft.com/en-us/sustainability/partners>

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