



# Intelligence in Action

The background is a collage of four geometric panels. The top-left panel shows a close-up of water droplets on a dark surface. The top-right panel shows water droplets on a light-colored surface. The bottom-left panel shows a grid of small, white, oval-shaped perforations on a dark background. The bottom-right panel is a solid blue color with a white grid pattern.

**ECOLAB3D™**

For people who strive for clean, safe, healthy, sustainable and efficient operations, ECOLAB3D™ is designed to connect data intelligence to smarter performance.

## Intelligence in Action

ECOLAB3D™ is a secure, cloud-based, digital platform that translates operating data from multiple sources into actionable insights using advanced algorithms and predictive analytics. Our field teams work with customers to apply these insights to help produce better business performance, enhancing the value and impact of what we deliver to customers.

- Advanced Algorithms & Analytics
- Actionable Insights
- Performance, Value, Risk Mitigation

The game-changing capability of ECOLAB3D™ distills data in real time to enable us to develop insights and predictions that deliver more value to our customers. Digital services powered by ECOLAB3D™ help our customers:

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**ACHIEVE SUSTAINABILITY IMPACT** by helping identify opportunities to conserve water, save energy, improve asset use and extend asset life

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**PROVIDE PERFORMANCE MONITORING AND OPTIMIZATION** into your water performance, water use, critical operations and assets at enterprise, site and asset levels

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**FACILITATE RISK MITIGATION** by identifying and quickly addressing water safety issues at the most at-risk locations

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**MANAGE VALUE CAPTURE** by providing greater visibility and effective management of value projects



# Real-World Value

With ECOLAB3D™, we combine unmatched data-driven insights with expert know-how to help uncover problems before they occur. So, we can execute better solutions and deliver smarter performance.



**Water** Help enable water savings and water quality optimization



**Energy** Help enable energy savings through improved efficiency



**Human Health & Safety** Help ensure safety of people



**Asset** Enable improved asset use and increased asset life potential



**Costs** Help reduce the total cost of operations

# How ECOLAB3D™ Works

**ENTERPRISE VIEW** Visualize the overall performance, gain real-time visibility, quickly identify performance opportunities and benchmark systems at enterprise, site and asset levels

**ASSET TREE** Consolidate multiple sources of critical data and contextualize asset inventory to enable a more comprehensive and structured view and enterprise-wide asset performance analytics

**PREDICTIVE ANALYTICS** Use advanced analytics, algorithms, and artificial intelligence for anomaly detection, prescriptive optimization, predictive maintenance, and more

**SECURE, CLOUD-BASED** Offer easy access from virtually any connected device while addressing the security of the platform itself, the data it carries, and the applications it powers

**DATA VISUALIZATION** Provide trend charts and benchmark performance across sites and assets to enable quick problem solving

# Closing the Loop Faster

**DEEP INSIGHT**

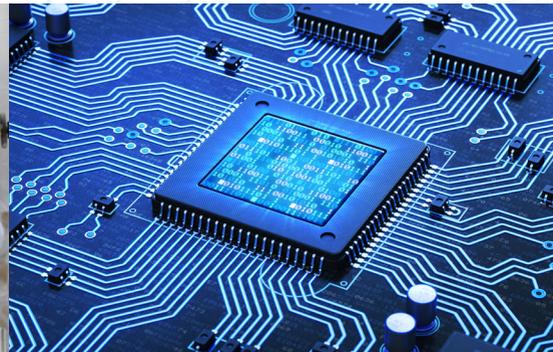
- Data contextualization for internal and external view
- Actionable insights using deeper analysis of the real-time data

**FAST ACTION**

- Developing follow-up actions to practical insights through alerts, recommended tasks, and communication tools
- Executing actions at customer locations

**BROAD VALUE**

- Tracing and documenting the value of solutions and completed actions delivered to customers
- Leveraging digitized global knowledge and learning to generate value



# Our Portfolio of Digital Services

Our digital services are built on ECOLAB3D™ to help manage performance, mitigate risk, and capture value.

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## Water Quality

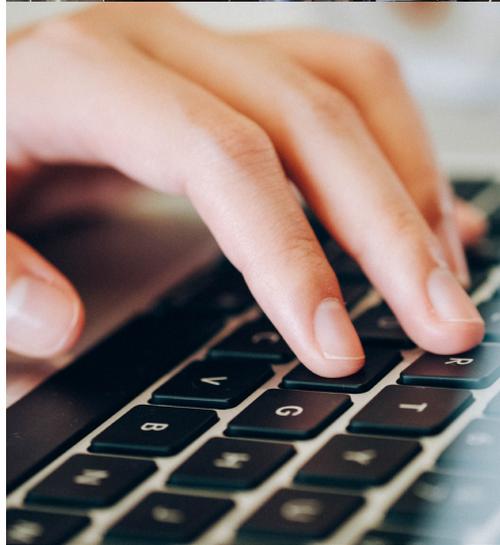
Visualize water treatment performance on a global scale. Quickly identify underperforming assets. Water Quality provides greater visibility and deeper insights to help you optimize asset performance, save water and energy, and lower operating costs.



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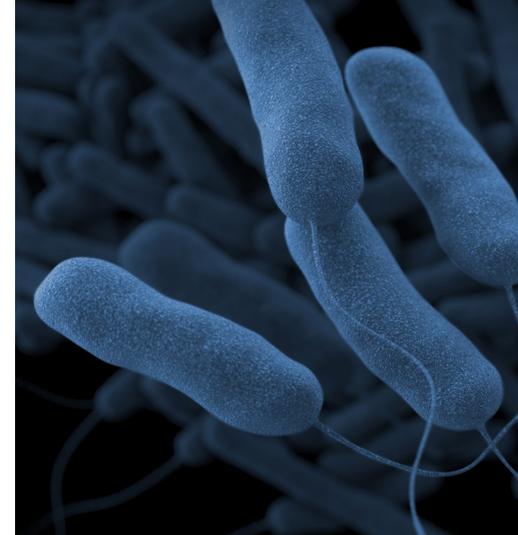
## Financial Impact

Identify value projects that deliver real savings. Evaluate the priority of value projects. Measure the outcome of value realization. Financial Impact helps you manage value project pipeline and focus on the most impactful projects.



## Water Safety Intelligence

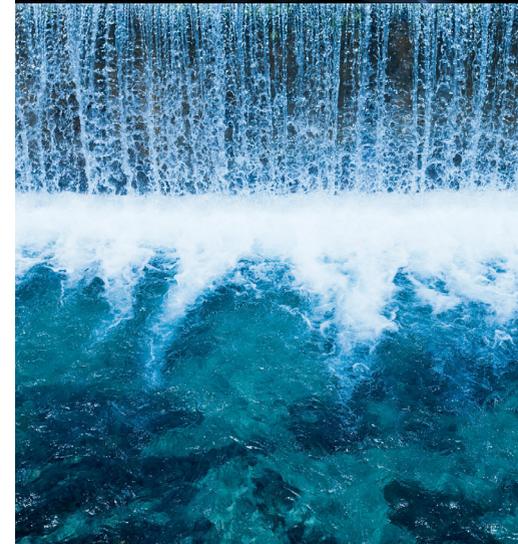
Water Safety Intelligence delivers unparalleled insight into your water risk. It allows you to proactively manage and quickly address *Legionella* risk across your enterprise with robust data, advanced analytics and industry-leading expertise.



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## Water Flow Intelligence

Sustainability-minded customers don't go with the flow, they lead the way. Water Flow Intelligence helps uncover water savings opportunities via real-time visibility of usage at multiple levels. The result is prescriptive water savings goals and a clear path to deliver on them.



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## OMNI™

The best time to solve a problem is before it even occurs. OMNI™ does just that by studying historical and real-time data to predict and prevent issues, so your operation can perform optimally, reliably and profitably.



# Our Offering Packages

## ECOLAB3D™ CORE PACKAGE

Water Quality + Financial Impact + System Assurance Center Premium

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## ECOLAB3D™ PREMIUM A LA CARTE

Water Safety Intelligence | Water Flow Intelligence | OMNI™

## Get Started Now

To learn more about ECOLAB3D™:

Visit [www.ecolab.com/ecolab3d](http://www.ecolab.com/ecolab3d)

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Contact your Ecolab | Nalco Water representative



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