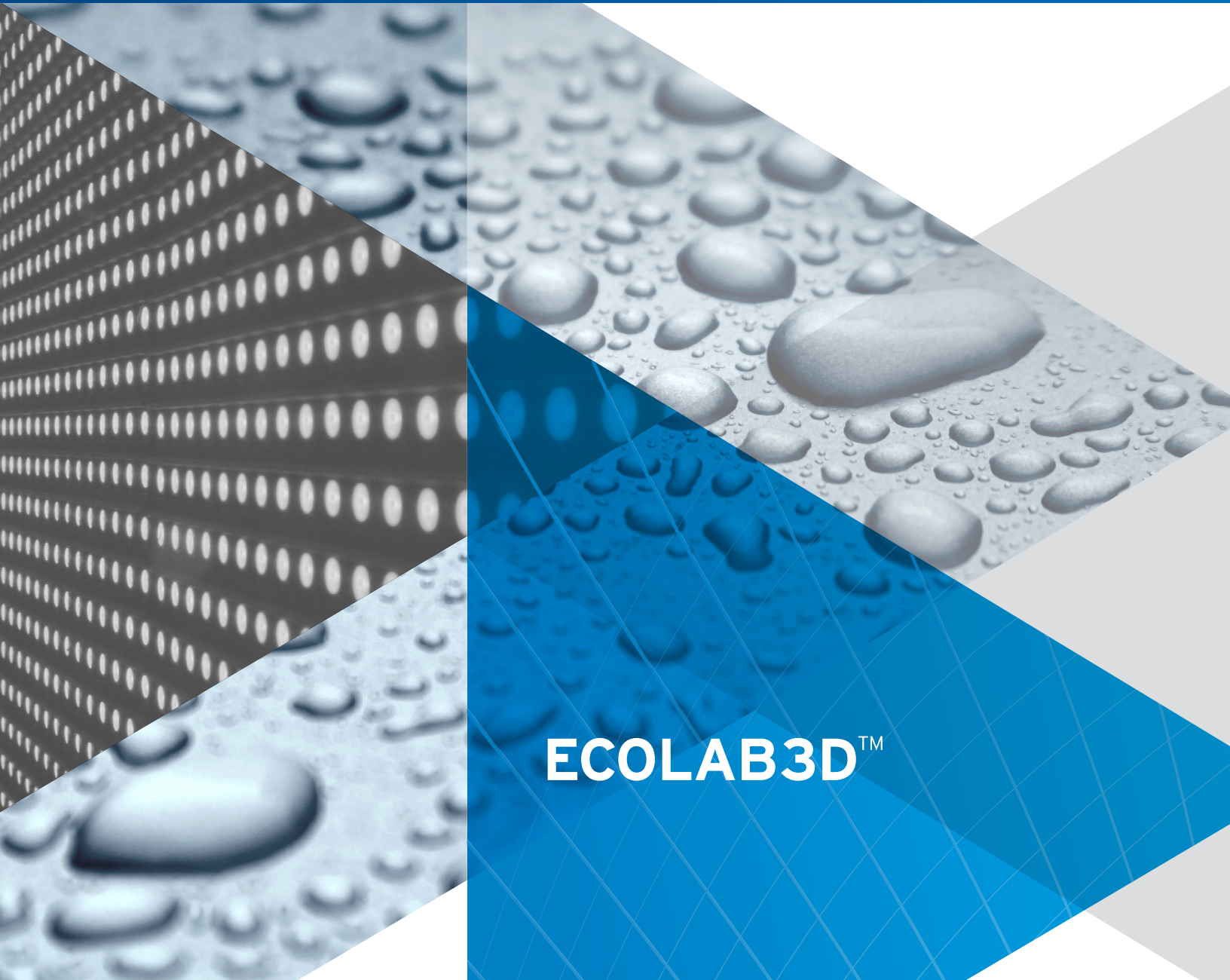


ECOLAB3D™ in Action



ECOLAB3D™



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

ECOLAB3D™ in Action

ECOLAB3D is a secure, cloud-based, IIoT platform that distills data in real time into actionable insights. It uses advanced algorithms and predictive analytics that enable quick detection of system deviations so you can take action to address issues. When combined with our industry-leading expertise, ECOLAB3D digital services help businesses improve their total water management strategy for more efficient operations.

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:

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

IMPROVE PERFORMANCE MONITORING AND OPTIMIZATION with deeper insights into water use, water performance, critical operations and assets at site, and enterprise scale.

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

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. This allows us to 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 SAFETY

Help ensure the safety of people



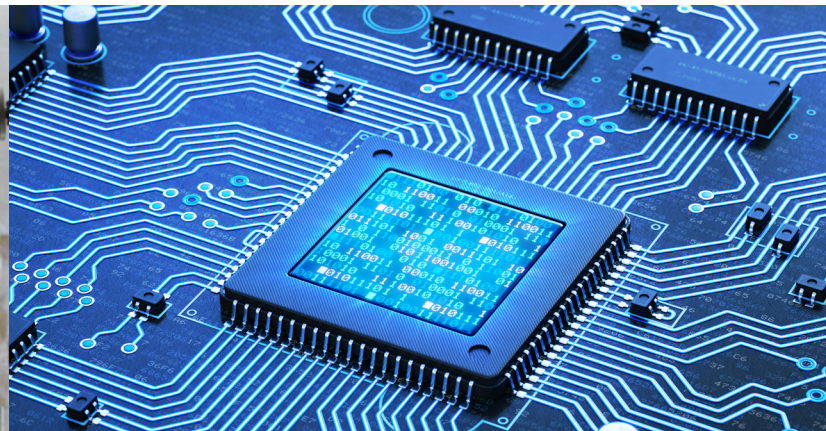
ASSET PROTECTION

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-wise 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 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.

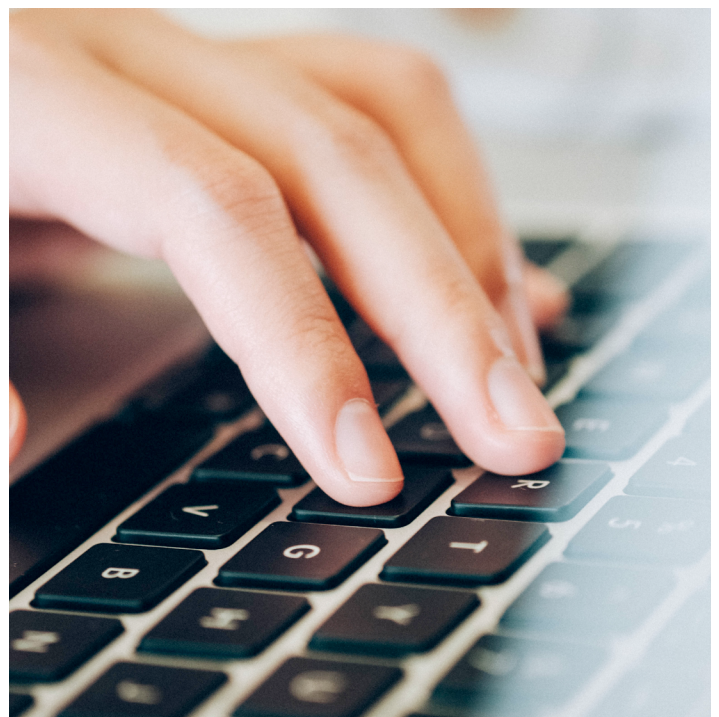
Ecolab® Water Quality IQ™

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



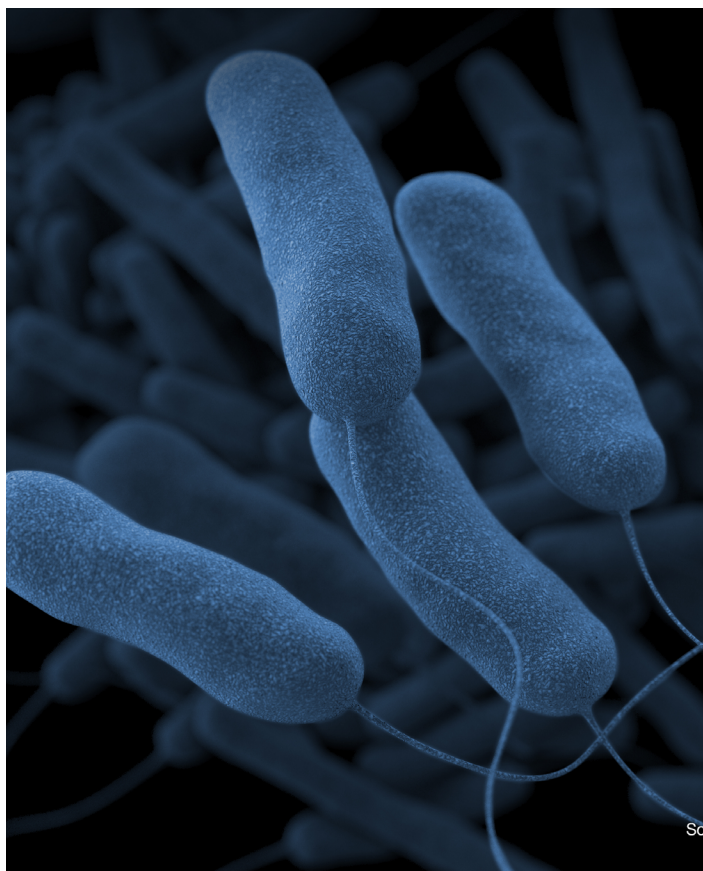
Financial Impact

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



Ecolab® Water Safety IQ™

Water Safety IQ 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.



Ecolab® Water Track IQ™

Sustainability-minded customers don't go with the flow, they lead the way. Water Track IQ 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.



Ecolab® Air Separation IQ™
Ecolab® Condenser IQ™
Ecolab® Heat Exchanger IQ™
Ecolab® Caster Systems IQ™
Ecolab® Rolling Mills IQ™

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



Get started now

To learn more about ECOLAB3D™,
visit www.ecolab.com/ecolab3d or
contact your **Ecolab | Nalco Water representative**

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