

3D TRASAR™ TECHNOLOGY:

Good for Water.  
Good for Business.

**ECOLAB**® | **NALCO** Water

BEGIN →



# Water is a Powerful Force in a Business' Operations.

## However, it poses great challenges:

- + Inconsistent Quality
- + Susceptible to Contamination
- + Difficult to Monitor and Manage
- + Decreasing Supply / Scarcity
- + Stringent Industry Demands

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= **Inefficiency, Waste, Hazards and Expense**

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# With 3D TRASAR™ Technology, you can harness the power of water to achieve your goals.

WE OPTIMIZE AND REDUCE YOUR:

Water Use

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Risks

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Costs

SO YOUR OPERATION CAN GROW MORE:

Efficiently

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Reliably

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Profitably

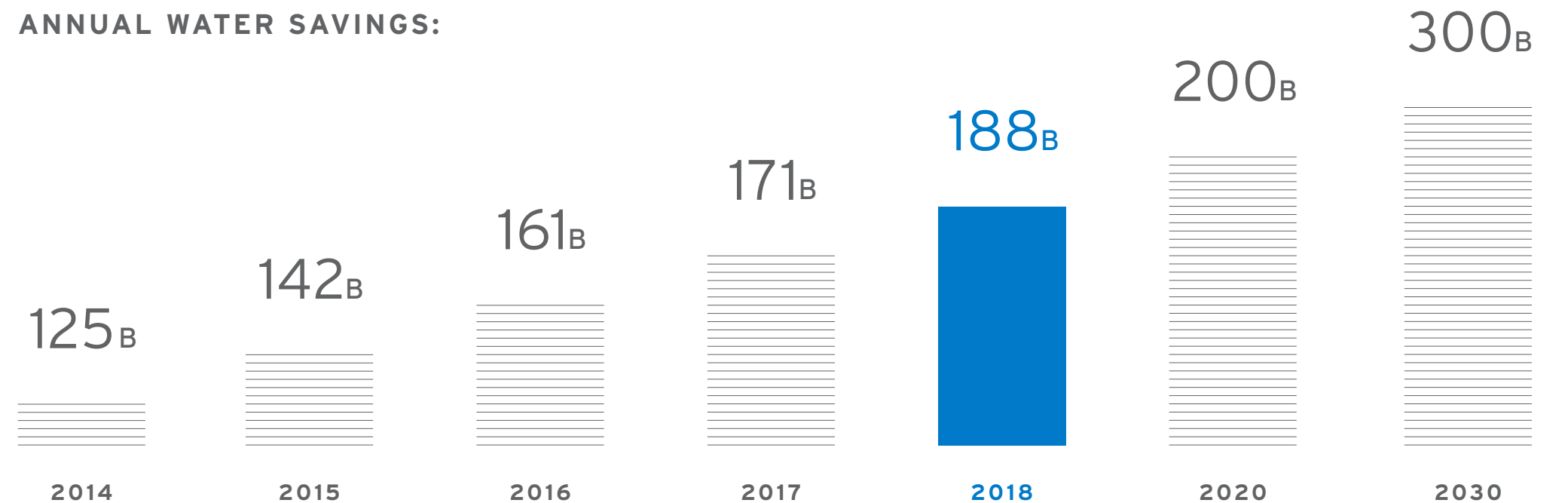






3D TRASAR also preserves water for our planet. Our ambition is to save 300 billion gallons by 2030.

ANNUAL WATER SAVINGS:






# 3D TRASAR™ Technology Overview

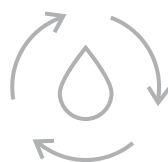


# 3D TRASAR

The world's most comprehensive and advanced water performance system.

## OUR 3D TRASAR TECHNOLOGY OVERVIEW:

  **3D TRASAR Ecosystem**

 **3D TRASAR Process**



*At Nalco Water, we are always there when we're needed.*



# 3D TRASAR Ecosystem

Designed to support your unique water needs, 3D TRASAR uses a linked ecosystem of smart technology, connected chemistry, extensive expertise and actionable insights to further optimize your operation.



Smart Technology



Connected Chemistry

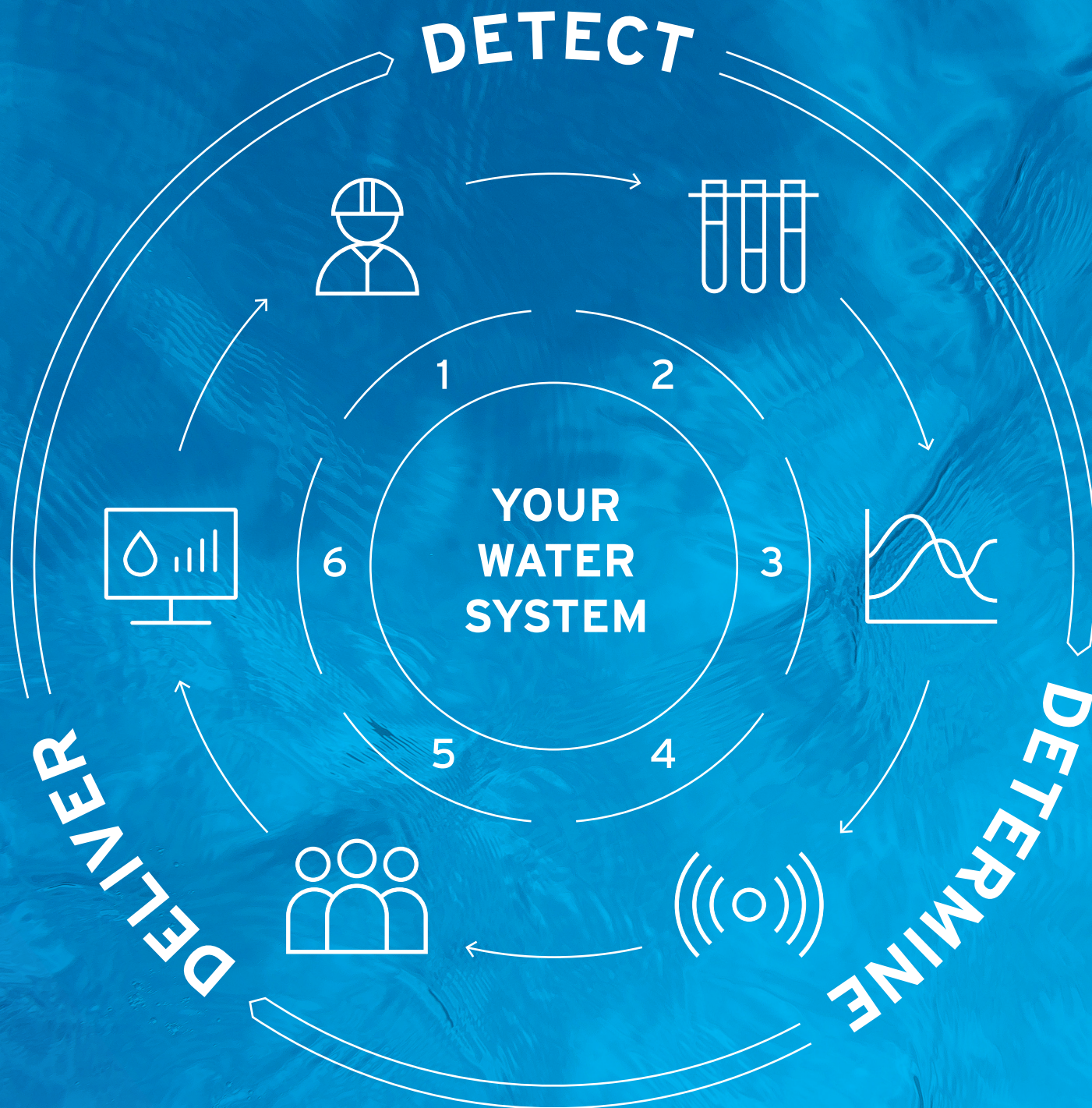


Extensive Expertise



Actionable Insights





# 3D TRASAR Process

- 1 On-Site Technical Services/Expertise
- 2 Chemicals & Equipment
- 3 Modeling & Optimization
- 4 Best-in-Class Automation
- 5 System Assurance Center
- 6 Customer Data Services



# Smart Technology



# Technology

Delivering value through the power of information and cloud services.

## OUR SMART TECHNOLOGY:



**Detect, Determine,  
Deliver**



**3D TRASAR  
Controller**

**SMART  
CONTINUOUS  
CONNECTED**





# Detect, Determine, Deliver

The reliable and connected 3D TRASAR controllers detect system upsets and determine needed corrective action, to deliver exceptional performance.

## DETECT

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System variability and operational problems with world class automation and 24/7 monitoring.

## DETERMINE

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Corrective actions needed based on proprietary chemical control algorithms.

## DELIVER

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Improved results that drive optimal performance and savings.





# 3D TRASAR Controller

Our advanced 3D TRASAR controller collects real-time data for key operating parameters that act as leading indicators of system performance.

With over 40,000 units worldwide and over 15 years of continuous innovations, it is the industry standard for feed, control and monitoring technology.

[LEARN MORE ↗](#)



# Connected Chemistry





# Chemistry

Custom-fit chemistry, selected and fed to meet your system's needs.

## OUR CONNECTED CHEMISTRY:



**Continuous System Monitoring**



**Consistent Water Quality**

**VISIBLE  
CUSTOM-FIT  
CONNECTED**



# Continuous System Monitoring

Our connected chemistry provides superior control, automated responses and actionable insights to deliver exceptional results.

OUR CONNECTED CHEMISTRY CONTINUOUSLY MONITORS:

Total System Performance

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Water and Energy Use

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Your Key Performance Metrics

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# Consistent Water Quality

Level out the peaks and valleys of incoming water quality to ensure operational consistency and reliability.

[LEARN MORE ↗](#)

OUR CONNECTED CHEMISTRY MONITORS AND OPTIMIZES EVERY ASPECT OF YOUR WATER:

Conductivity

pH Levels

Turbidity

Flow Rates

Corrosion

Scaling Potential



# Extensive Expertise



# Expertise

Behind every Nalco Water customer is an unparalleled team of professionals.

## OUR ACTIONABLE INSIGHTS:



Local Expertise



Global Support Network



KNOWLEDGEABLE  
RESULTS-DRIVEN  
EXPERIENCED



# Local Expertise

Local service representatives providing hands-on expertise to manage system performance and ensure operational objectives are met.

6,000  
On-Site Experts

Hands-On  
Problem Solvers

Knowledgeable

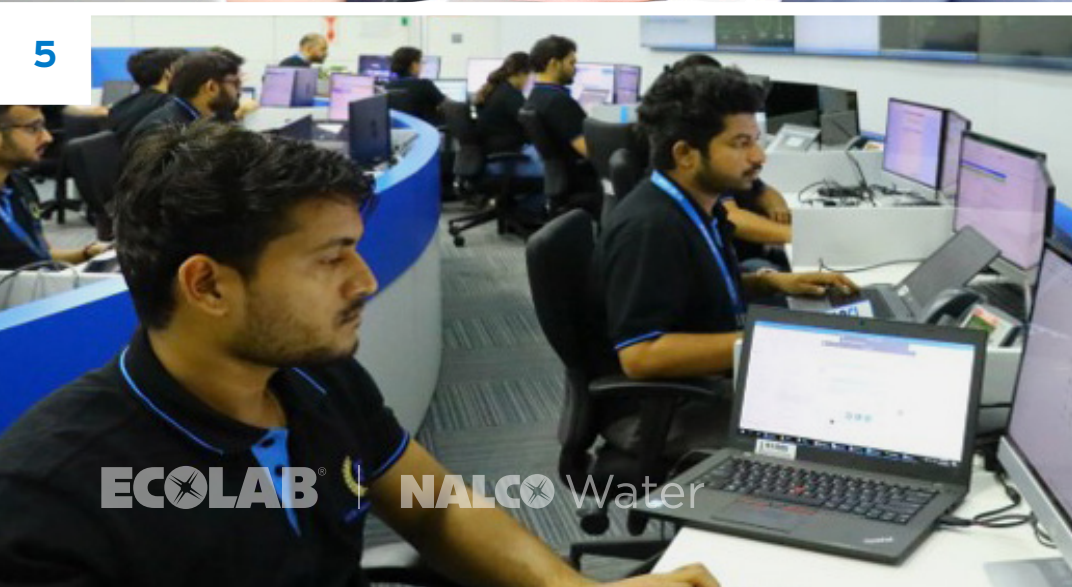
Results-Oriented







# Global Support Network



1 Industry-Aligned Business Teams

2 Industry Technical Consultants

3 Peer Connected Communities

4 Equipment Help Desk

5 Technical Expertise Center

6 Research & Development Scientists



# Actionable Insights

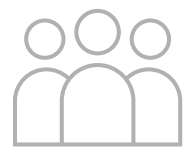




# Insights

Delivering value through the power of information and cloud services.

## OUR ACTIONABLE INSIGHTS:



**System Assurance Center**



**Dashboards and Reports**



**CONTINUOUS  
RESPONSIVE  
INSIGHTFUL**



# System Assurance Center

The global center for 3D TRASAR, comprised of proactive experts watching over your water systems and delivering real results.



## Connected

Customer Systems Monitored

24/7

Systems Monitored Daily

25k+

## Knowledgeable

Engineering / Analytic Experts

140

Years of Proven Experience & Success

10+

## Responsive

Corrective Actions Taken

2.2M

Critical System Upsets Averted per Year

64k



# Dashboards and Reports

Access real-time data visibility via online dashboards, allowing you to track system performance and benchmarks.



## Visibility

Access Data in **Real Time**

3D TRASAR Controllers Connected **25k+**

## Insightful

Data Points Collected per Year **72B**

Amount of Data Collected per Year **5TB**

## Actionable

System Reports Sent per Month **68k**

Chemical Tank Levels Monitored **10k**



# Building the Right Solution to Achieve Your Goals.

## Listen

Perform an initial walk through and listen to understand your needs.



## Learn

Identify opportunities for improvement.



## Plan

Customize our offering and develop recommendations.



## Begin

Present proposal and implementation schedule.

[CONTACT US TO GET STARTED ↗](#)