



## 3D TRASAR™ Technology for DAF

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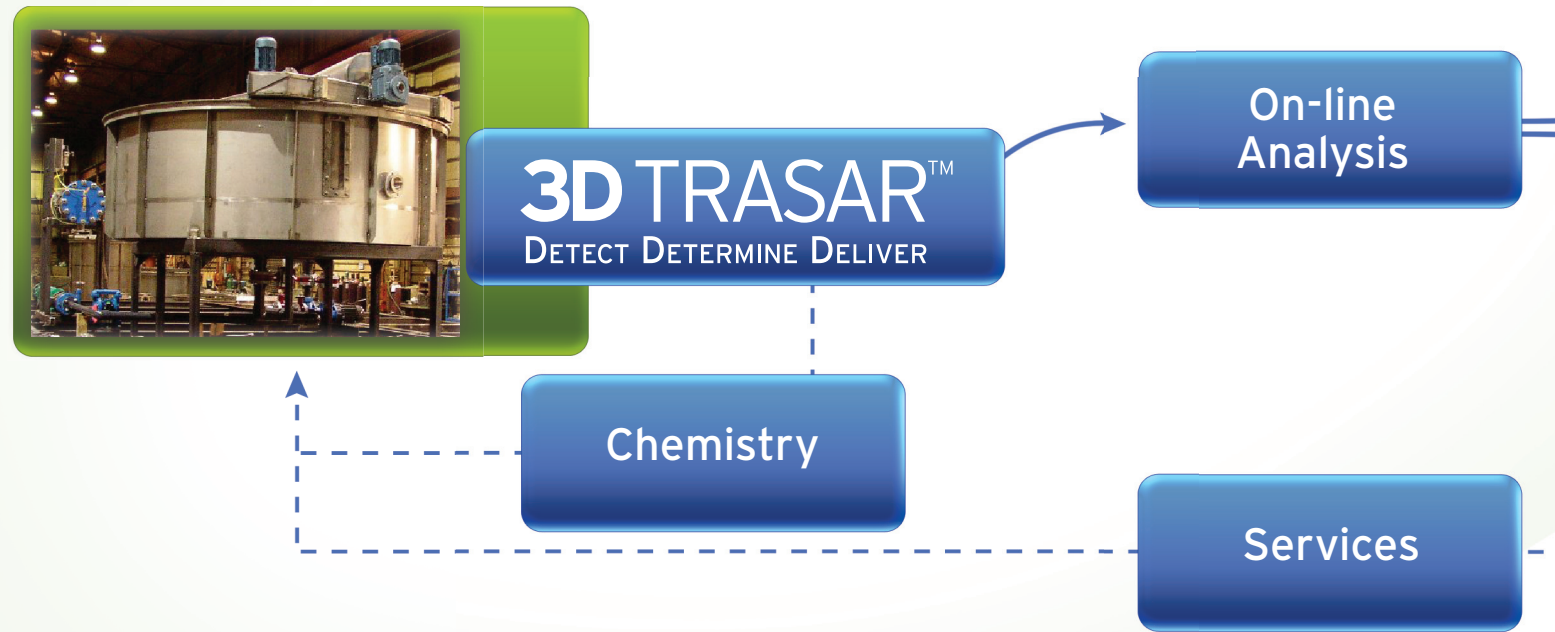
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## MEETING THE CHALLENGE OF DAF SYSTEM EFFICIENCY

If consistent and reliable effluent quality is necessary to meet the objectives of your site to stabilize downstream operations, meet stringent discharge limits, reduce surcharges, lower total cost of operation, or expand recycle and reuse opportunities, then you understand the importance of operating your Dissolved Air Flotation (DAF) system well.

To operate the DAF well and dose chemicals correctly, data needs to be collected and interpreted frequently. Managing this process can be time consuming and may not provide information accurately enough to ensure chemistry usage is optimized and desired DAF performance is met.



## DELIVER

3D TRASAR Technology for Dissolved Air Flotation delivers unprecedented return on investment, paying for itself quickly through real operating cost savings. Additionally, it reduces your environmental footprint, delivering measurable eROI. Normalization, monitoring and control of your DAF system with 3D TRASAR technology ensures best-in-class performance.

- Improve control and reduced effluent variability
- Reduce fresh water use
- Increase reuse opportunities
- Ensure discharge limits are met
- Reduce surcharges
- Protect from the cost of major upsets
- Optimize your chemical treatment program
- Reduce Wastewater treatment plant operating costs



Think of **US** as  
**TRUSTED**  
 advisors.

# DELIVER

## 3D TRASAR™

Delivers reduced cost of operation and a smaller environmental footprint across your entire enterprise..



# DETECT

## 3D TRASAR™

Provides seamless integration of technology and expert advisors

### DETECT

3D TRASAR Technology Provides seamless integration of technology and expert advisors

3D TRASAR Technology for Dissolved Air Flotation is the next generation of DAF performance management. Its advanced control algorithms combine feed forward control, feedback control and optional pH control. The control algorithms determine the appropriate chemical dosage to the system in real time. The feed forward control component provides a quick response to incoming flow upsets, and the feedback control ensures that the system is in good control. The end result is a superior level of control and performance.

### 3D TRASAR Technology for Dissolved Air Flotation:

Continuously detects systems changes and provides remote monitoring and alarming of your DAF 24 hours per day and 7 days per week. The Nalco enVision service included with the technology provides customers with expert review of the alarms and trends to provide recommendations in maintaining optimum DAF system performance.

Collects operational data for performance analysis and provides advanced web reporting and data management.

Incorporates advanced ultrasonic and compressed air technologies that automatically clean critical components to ensure optimal data quality and system reliability.



# DETERMINE

## 3D TRASAR™

Determines and reports corrective actions.

### DETERMINE

NALCO Water system management software continuously analyzes, normalizes, and trends performance data to give an accurate view of system performance through a secure, web-based dashboard capable of consolidating performance reporting across your entire enterprise. Automatic alerts and alarms signal if immediate corrective action is required

#### Instant system information

3D TRASAR Technology provides performance data to you, in real time and through any web-enabled device. You can monitor your system and receive alarms through your smart phone...wherever you are.

#### 24/7/365 system visibility via System Assurance Center

Peace of mind is assured when a team of NALCO Water experts is monitoring your system 24 hours a day, 7 days a week, 365 days a year. System Assurance Center engineers remotely monitor your system, and they are able to see all process KPIs at any moment. You receive consistent reports on system status, as well as quick response and notification should something need attention. Using root cause analysis and historical data, these experts will troubleshoot any upset before it becomes a problem. Additionally, they use normalized data to identify, analyze and correct operating issues also allowing you to quantitatively make decisions on upstream processes based on impact to the downstream wastewater plant.



Think of US as  
**VIRTUAL**  
operators.