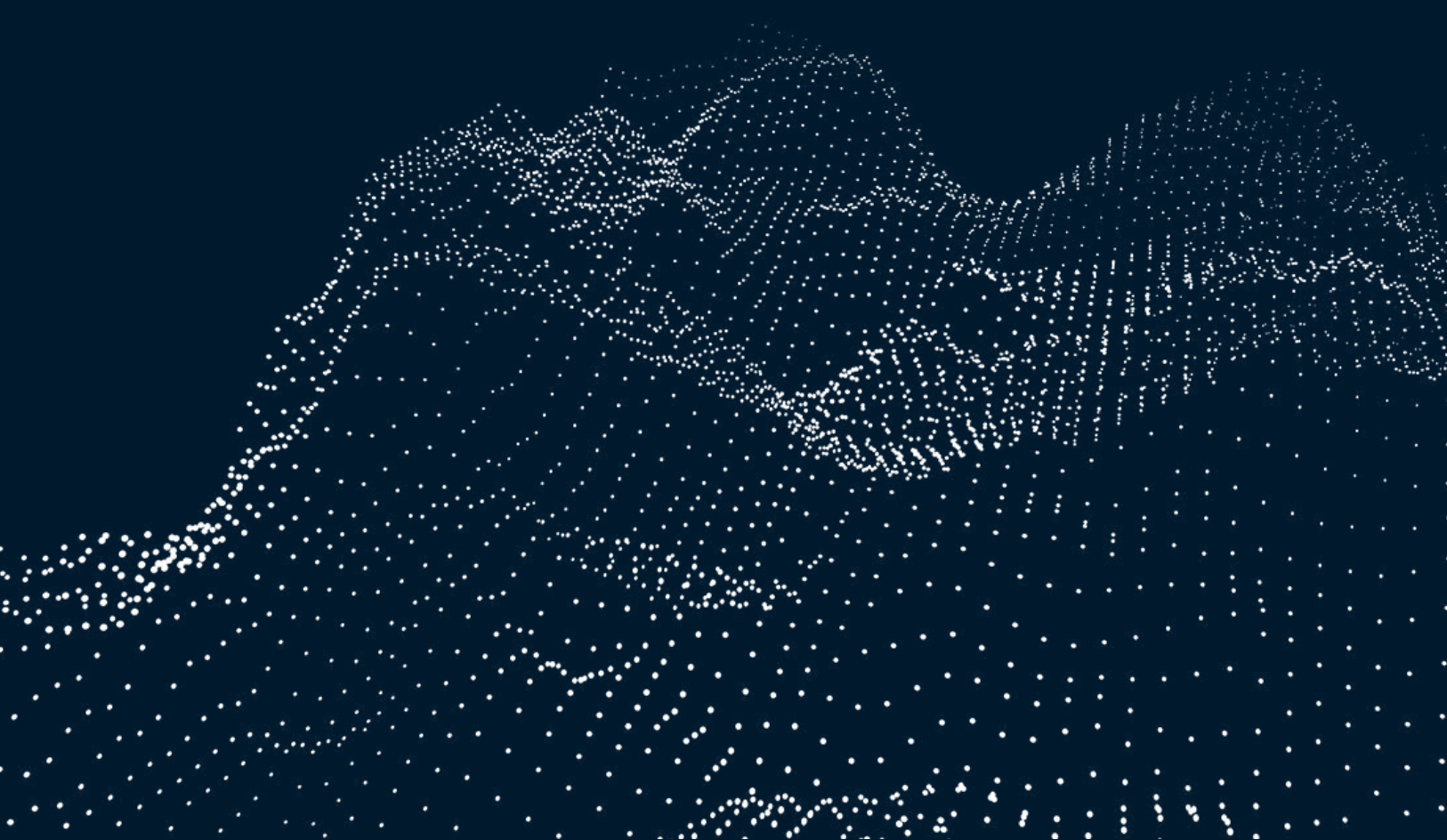# KDX

Decisions made clear

Next generation water management

KDX provides water management software designed to efficiently operate water and wastewater facilities while reducing costs and operational risk.

Designed as an easy to use and cloud-ready solution, KDX can assist utilities at any stage of transformation to meet their environmental, governance and business goals sustainably.

Designed by operators, for operators

Aer+ Optimiser Wastewater process optimiser	**Demand+ Manager** Network demand prediction	**Filter+ Optimiser** Filter health monitor
ChemDose+ Optimiser Chemical dose optimiser	**Stock+ Manager** Chemical stock manager	**Vantage+ Scorecard** Smart compliance manager

KDX water intelligence platform

The KDX platform integrates data from existing SCADA, Historians, IT platforms and external data sources, ensuring accurate information for consistent and clear decision making in all conditions. The software provides an intuitive environment for complete process visibility, using reliable, real-time compliance tools and predictive models commissioned in days, not months or years.

Clarity and confidence

Our solutions provide ease-of-integration and software designed with decades of water treatment experience, environmental stewardship and drinking water safety at the heart of our mission. We help our customers dynamically optimise chemical dosing, filtration, energy management, inventory management, regulatory compliance, and production demand to help operators achieve their ESG and efficiency goals no matter the challenge.

Future-focused

KDX strives to the help managers and operators make evidence-based decisions with confidence. From simple-to-use benchmarking and analysis tools, to powerful full scale digital process twins, we combine machine learning, data science and cloud computing in an affordable modular and performance-focused platform.

Expert-as-a-Service

KDX provides access to experts in water, environmental, and wastewater operations to provide scalable operational capacity to manage, optimise and improve customer capabilities over the long term.

We can partner with you to help you:

- Significantly reduce chemical and energy consumption across your water and wastewater operations while reducing residuals and excessive washwater production.
- Provide communities with safe and reliable water quality, even during severe events.
- Improve safety by reducing the need to attend sites at night or during extreme weather conditions
- Vastly improve conventional and membrane filtration performance and asset management.

- Remove reporting burdens and automate water quality compliance assessments in real-time.
- Prepare teams ahead of time, reduce risk and achieve sustainable operational excellence.
- Predict network demand to manage network operations safely and efficiently.
- During configuration and ongoing support, KDX customers have access to specialists in process engineering, water quality and asset management to maximise value and drive engagement of operational teams.

Our solutions

KDX replaces the tedious, error-prone, and often unmethodical process of mining and cross-referencing data from multiple, disparate aspects of water asset operations.

Data integration   **Expert-as-a-Service**   **Platform security**   **Cloud-ready**

Aer+ Optimiser
Wastewater process optimiser

- Allows real-time optimisation of complex biological wastewater processes through dynamic oxygen uptake modelling and analysis
- Optimises sludge age, wasting, ammonia production, and dissolved oxygen profiles to target your specific effluent quality, energy usage or greenhouse emission goals

Demand+ Manager
Network demand prediction

- Accurately forecasts 7-day network demands to efficiently and effectively meet production schedules and compliance levels
- Allows automated network loss identification by analysing anomalies in network and system behaviour for rapid investigation and action by network operators

Filter+ Optimiser
Filter health monitor

- Equips operators and treatment managers with automated tools to significantly reduce operational risk while providing outstanding long-term filter performance indicators
- Removes process assessment complexity and enables on-demand data-driven filter inspections

KDX Software-as-a-Service (SaaS) is available as an enterprise or modular solution.

ChemDose+ Optimiser
Chemical dose optimiser

- Provides easy-to-use web dashboards for operators to determine the optimal dose rates and apply coagulant set-point changes rapidly
- Provides optimal chemical dosing recommendations using historical data processed through a machine learning layer for predictive output

Stock+ Manager
Chemical stock manager

- Uses online process data to enable operators to manage chemical stock/ inventory efficiently and determine historical usage rates
- Reduces risk and costs associated with chemical delivery and inventory age

Vantage+ Scorecard
Smart compliance manager

- Provides smart compliance automation to International water safety planning standards (WHO, ADWG, USEPA)
- Provides automated rolling compliance and visualisation windows for critical and process control points identifying underperforming systems
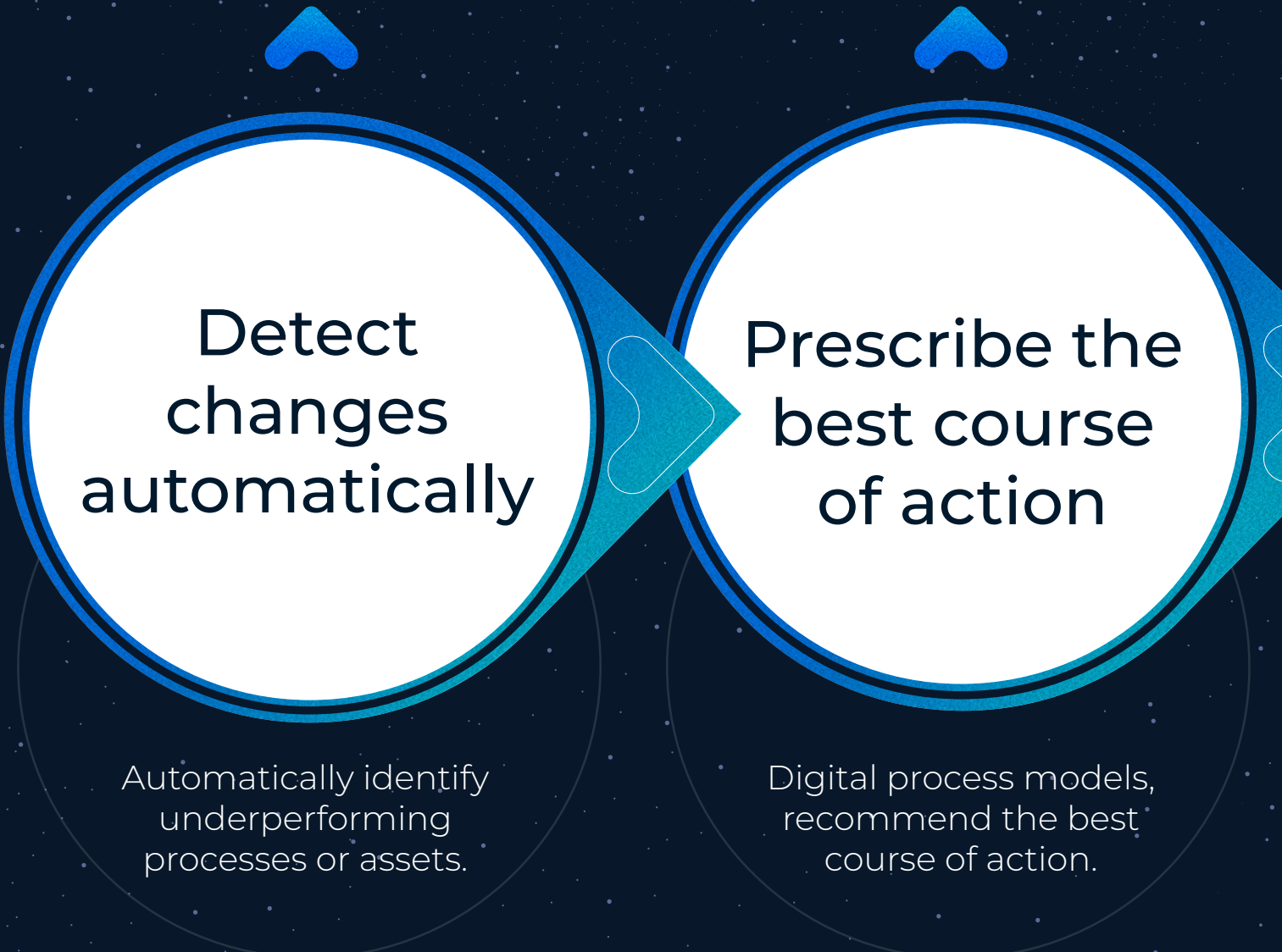
Interested in finding out more about KDX?
Contact: enquiries@kdx.ai

How do we use applications?

Change in water and wastewater influent conditions

New process setting required

Detect changes automatically

Prescribe the best course of action

Automatically identify underperforming processes or assets.

Digital process models, recommend the best course of action.

KDX platform provides required changes to achieve financial or ESG objectives

Sustain optimal performance

Update control strategies dynamically while reducing costs and risk.

Interested in finding out more about KDX?

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KDX