

 **ALERT**

Advanced Condition Monitoring

IMR AND DD
INTELLIGENCE WITH INTEGRITY



In today's fast-paced world, asset management requires a transformation.

Traditional reactive maintenance, endless inspections, and costly uncertainties are relics of the past.

While historic data has been a staple in asset integrity management, the benefits of using almost real-time data are undeniable.

ALERT is here to redefine how you manage your assets, providing you with unparalleled efficiency, accuracy, and reliability.

Together, we're moving toward event-driven integrity and inspection, where continuously updated models enable precise predictions and informed commercial decisions.



Introducing ALERT

ALERT is an advanced condition monitoring system, offering a revolutionary way to manage your physical assets. It provides visual and mathematical modelling of degradation, down to test point level, making event-driven inspection a reality for complex assets.

EMPOWERING ASSET OWNERS

Currently day-to-day visibility of the corrosion status of an asset is low. Engineers compile monthly or quarterly reports, and due to the time investment required, there is limited capacity for more frequent monitoring.

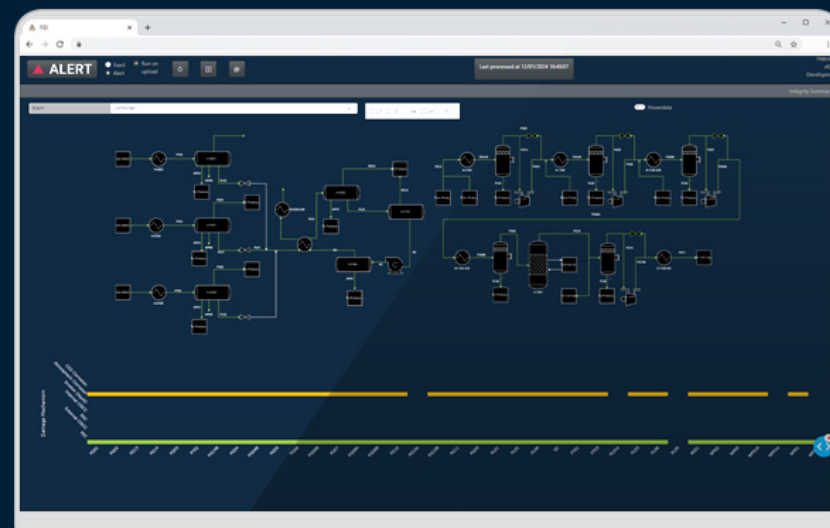
A NEW ERA OF ASSET INTEGRITY MANAGEMENT

ALERT will turn this on its head. Our cutting-edge system enhances visibility by capturing discreet operational changes that stay within loW thresholds. These nuanced alterations, often overlooked due to the manual efforts of Corrosion Engineers, are seamlessly addressed by ALERT's automated processes.

The tool excels in accounting for intricate interactions between changes, a task impractical for manual execution. For operators, this translates to substantial workload savings, both onshore and offshore, and the ability to identify potential issues before they escalate into urgent concerns.

ACTIONABLE INSIGHTS

With increased frequency of reporting, management teams can build an accurate and complete picture of the corrosion status of their assets. This data intelligence will positively influence planning and decision making across the asset management cycle, including planning shutdowns, regular maintenance, and inspections, as well as giving timely, reliable data to inform unplanned interventions.



ALERT ensures day-to-day corrosion status is leading rather than lagging.

Efficiency in Action

THE ALERT PROCESS:



DATA INPUT

Collect data from various sources.



ASSET MODEL BUILD

Construct a comprehensive asset model – link digitised process documentation to mathematical models, barriers, and data feeds.



SET UP VARIABLES

Define key inspection dates and confidence alarms.



NEAR REAL-TIME DATA FEED

- ▶ Constantly update the model with data every 24 hours.



AUTOMATED ALERTS

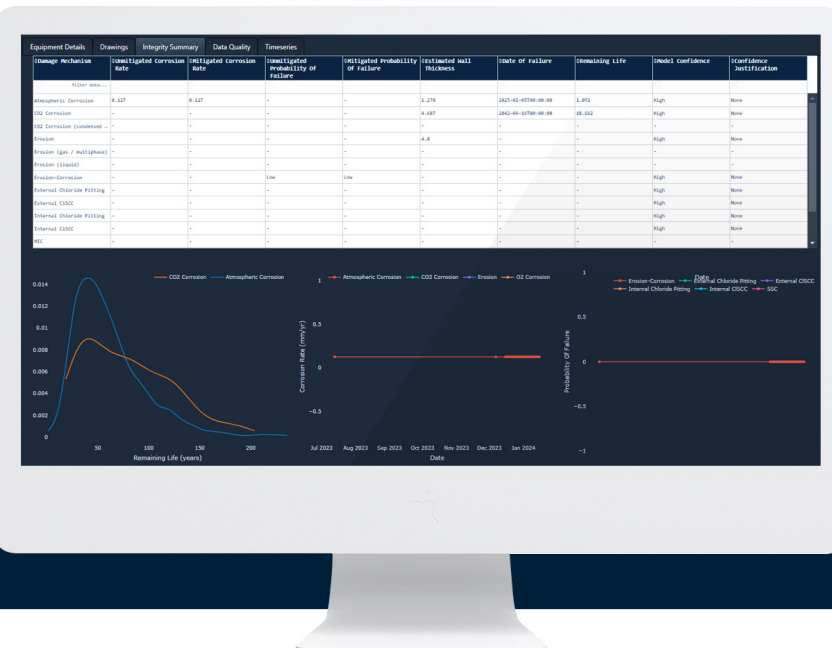
- Receive notifications when conditions require investigation or changes to the asset plan.

ADVANCING ASSET MANAGEMENT

While this level of technical operation is technically possible, the sheer volume and siloed nature of data sets, along with the extensive engineering requirements, have made it practically impossible. ALERT changes the game by making advanced operation feasible for entire assets.

SENSITIVITY ANALYSIS AND PLANNING

ALERT's degradation modelling enables engineers to ask "what if" questions. Simulate the impact of new processes, variables, or equipment changes on your asset's integrity. Gain the insights you need for scenario and budget planning ahead of time.



Features & Benefits

FEATURES

Live process flow – Gain a real-time view of asset processes with an alarm system for corrosion or remaining life thresholds.

Drilldown capability – Easily access detailed information on anomalies.

Data quality metrics – Access underlying data quality metrics and plots.

User-friendly setup – Recognisable technical drawings with coloured status indicators to keep you informed.

Customisable system – Create your own dashboards to focus on what matters most to your asset.

Future insights – Simulate the effects of upcoming process changes and predict degradation rates.

BENEFITS

Event-driven intervention – Move your asset towards proactive event-driven intervention.

In-depth insights – Access a wide range of asset data in one place. Visualise integrity issues and understand their impact.

Detect and flag changes – ALERT identifies system changes and hot spots that could affect integrity.

Estimated **20–40%** reduction in inspection workload.



Who we work with:



BUMI ARMADA



ALERT

Learn how ALERT can redefine your asset management journey, scan the QR code to request a demo today.



IMRANDD

Centrum Building . 214 Union Street . Aberdeen AB10 1TL

T +44 (0) 1224 984 848 **E** info@imrandd.com

www.imrandd.com