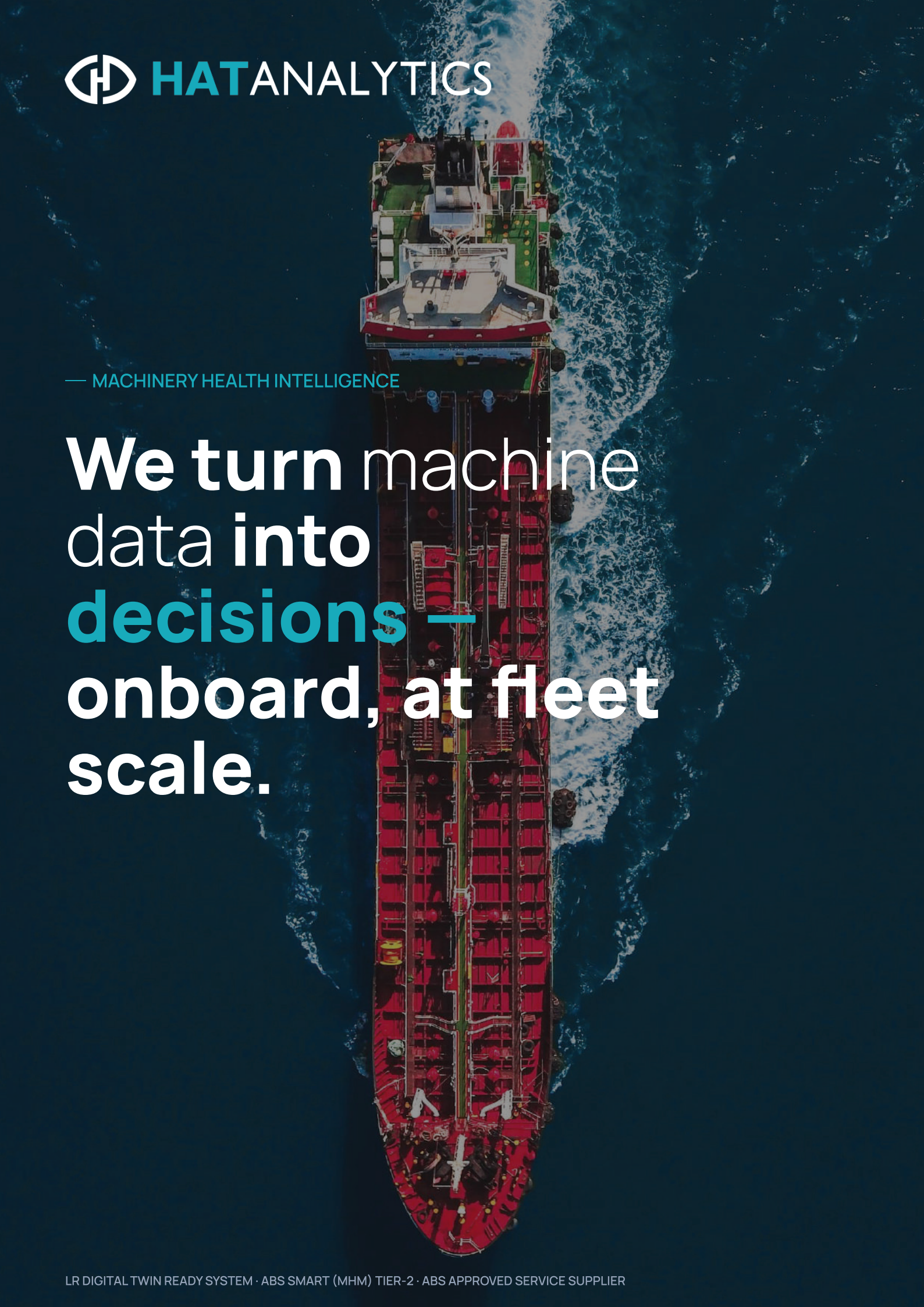


— MACHINERY HEALTH INTELLIGENCE



**We turn machine
data into
decisions —
onboard, at fleet
scale.**

From data to decisions

Most monitoring stops at data. HAT Analytics closes the loop — sensing machine condition, analysing it onboard at the edge, deciding what it means, and delivering the answer straight into your operational workflow. The same four steps run through every product and service we offer.

520+

VESSELS MONITORED

65,000+

ASSETS MONITORED

10,000+

MONTHLY REPORTS

What we cover

- ⦿ Machinery health monitoring & predictive maintenance
- ⦿ Vibration analysis, ODS & failure-cause studies
- ⦿ Infrared thermography (onboard & remote)
- ⦿ Sea-trial hull, structure & habitability surveys
- ⦿ Yacht vibration, noise & comfort assessment

01

Sense

Vibration, temperature & thermography from handheld and fixed wireless sensors — standard or ATEX Zone 2.

02

Analyse

Embedded diagnostics run onboard at the edge — no upload, no dependence on connectivity, no waiting, no onboard survey needed.

03

Decide

Health, trend, alarms & recommended remedial actions — refined by machine learning and AI.

04

Integrate

Delivered to shore via Dashboard, and to client ERP / platforms via REST API.



Choose your fit

Three condition-monitoring systems, one diagnostics engine and one dashboard. Pick by how critical the asset is and how much network you have around it — every option analyses onboard, at the edge.

	PORTABLE / WALK-AROUND AdViSe Handheld / ATEX	FIXED / PASSIVE AdViSe Live Lite	LIVE / FULLY ONLINE AdViSe Live
TYPE	Portable, walk-around	Fixed, Continuous offline	Fixed, Continuous online
BEST FOR	Routine rounds, many assets	Critical assets, weak network	Critical assets, continuous
SENSORS	USB / WiFi battery (ATEX opt.)	Wireless ATEX	Wireless (ATEX opt.)
DATA CAPTURE	Periodic	Continuous, up to 90 days	Continuous, real-time
COLLECTION	Crew walk-around	Crew walk-past	Automatic
ANALYSIS	Edge, real-time on device	Edge, onboard server	Edge, onboard server
CERTIFICATION	LR Digital Twin Ready	ABS SMART Tier-2	ABS SMART Tier-2
COMMERCIAL	DaaS – all-inclusive annual fee	One-off + support	One-off + support



Smart portable monitoring

DaaS

ANNUAL FEE

All-inclusive — single annual fee, nothing else.

Data Path

Measurement



Handheld tablet



Diagnostics engine



Dashboard & API

REPORTS / MONTH

Capability

- Real-time onboard diagnostics with embedded algorithms
- Immediate health assessment & recommended actions
- Machine-learning threshold tuning that sharpens over time
- ATEX Zone 2 version for hazardous areas
- KPIs & reports for shore engineers via Dashboard
- REST API push to client ERP & platforms
- Digital-Twin-ready data structure — certified by LR
- All-inclusive DaaS — single annual fee, nothing else

LR — Digital Twin Ready

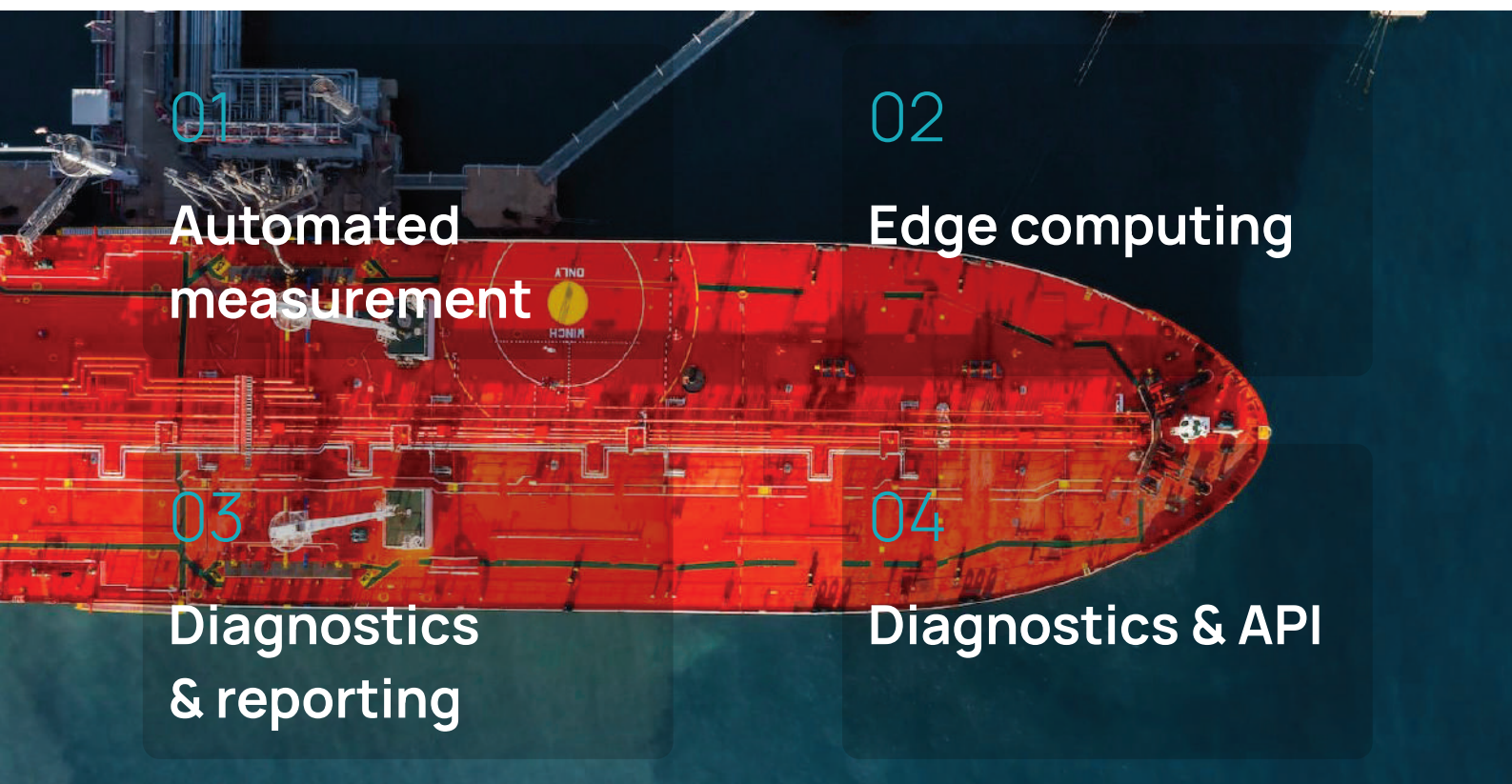
Certified by Lloyd's Register as a Machine Health Monitoring System — Digital Twin Ready.



Fixed monitoring, your way

Two fixed systems for critical assets — one fully online, one for vessels with limited or no network. Both keep every byte of analysis onboard.

Data Path



Edge, end to end

For both systems, analysis is performed onboard the vessel. Results reach shore via Dashboard; ERP and platforms receive reports through REST API.



AdViSe Live

Real-time online monitoring of critical assets.

-  Wireless sensors fitted, ATEX Zone 2 option
-  Edge computing — independent of vessel comms
-  Live trending & alarms to shore engineers
-  One-off install + annual support



ABS - SMART (MHM) TIER 2



AdViSe Live Lite

Continuous recording where there's no network.

-  Wireless sensors fitted, ATEX Zone 2 option
-  Edge computing — independent of vessel comms
-  Live trending & alarms to shore engineers
-  One-off install + annual support



ABS - SMART (MHM) TIER 2

BALLAST PUMP NO. 1

BEARING WEAR



MAIN ENGINE TURBOCHARGER

COMPRESSOR UNBALANCE

BOW THRUSTER

NORMAL OPERATION



VIBRATION

THERMOGRAPHY

DIAGNOSTICS

DIGITAL TWIN READY

520+

VESSELS MONITORED

65,000+

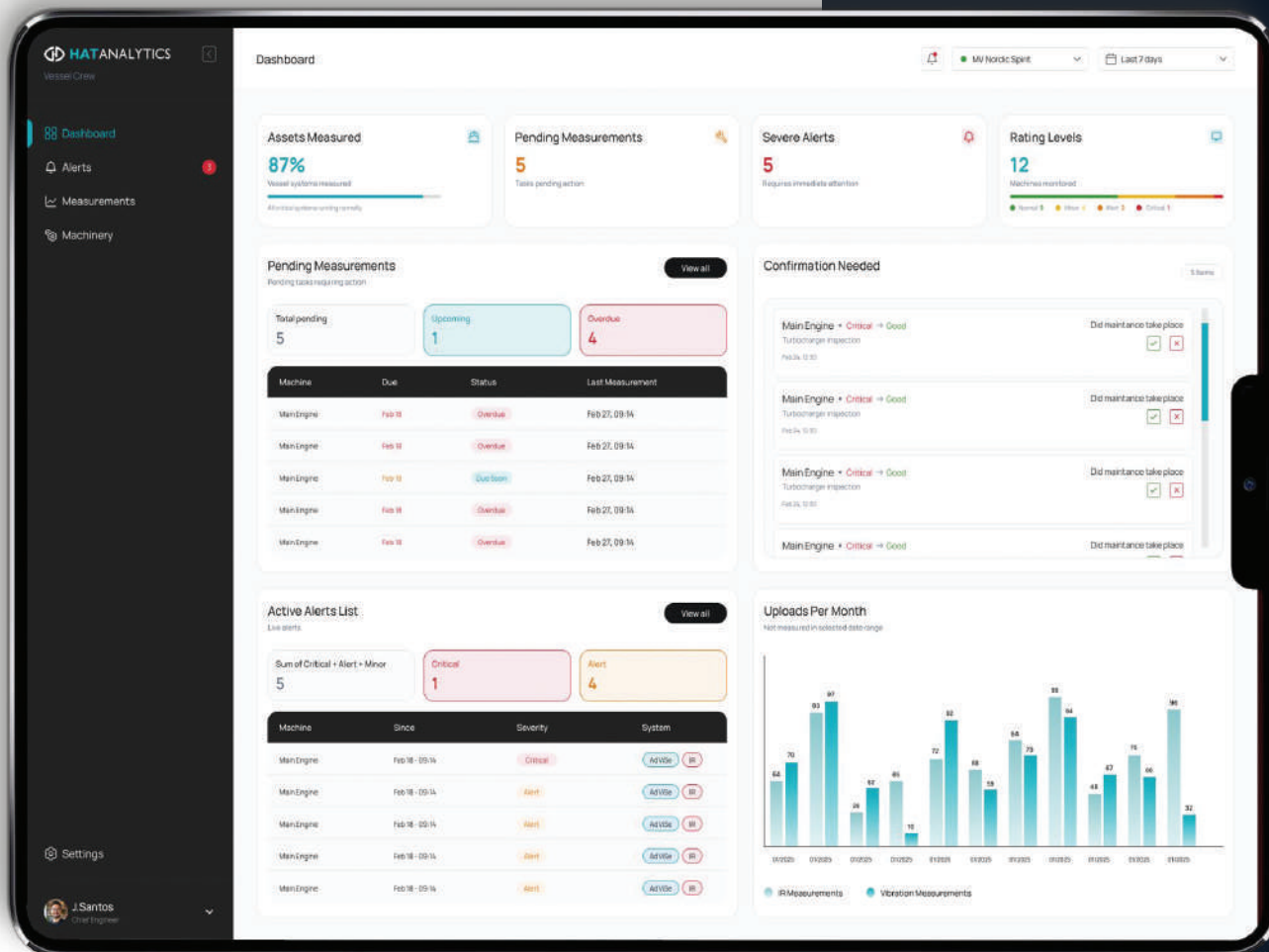
ASSETS MONITORED

10,000+

REPORTS / MONTH

The decision layer

Anyone can sell a sensor. Our value is what happens to the signal afterwards – analysed onboard, surfaced on one dashboard, and pushed into the systems your team already uses.



HAT DASHBOARD – LIVE VESSEL VIEW

In the Dashboard

- Fleet-wide KPI overview
- Health reports & asset rankings
- Trend analysis and alarms
- Health report per vessel and per machine

Integrates with

📄 Client ERP

📁 Client Platforms

🔗 REST API

Data Flow

AdViSe systems

HAT Dashboard

Client ERP / Platforms

Health information, delivered directly into your operational workflow.

Infrared Thermography Services

For Electrical & Mechanical Installations

Prevent costly failures and ensure operational continuity with our certified thermography specialists. We provide detailed heat-signature analysis for critical vessel infrastructure.

Onboard or remote

Safer Operations

Expert Reporting



Electrical installations

- Switchboards and distribution panels
- Motor control centers and starters
- Transformer windings and connections
- Cable terminations and busbar joints

Mechanical installations

- Main engine turbochargers and exhaust
- Bearing temperature monitoring
- Pump and compressor alignments
- Heat exchanger efficiency mapping



Why It Matters

Infrared thermography is a non-destructive, non-invasive condition monitoring technique. By detecting infrared radiation emitted by objects, we can visualize thermal patterns that are invisible to the naked eye.

In a maritime environment, where unexpected downtime can lead to dangerous situations and massive financial losses, IRT provides the foresight needed for proactive maintenance. It allows for testing under full load conditions without disrupting ship operations.

Survey & analysis engineering

ABS-approved service provider for Vibration, IRT and Noise measurement, analysis and reporting onboard vessels.



Sea-Trial Vibration Surveys

- Hull & local-structure vibration
- Habitability assessment
- Commissioning & post-delivery claims support

Advanced Vibration Studies

- Operational Deflection Shape (ODS)
- Forcing-frequency & main-engine response
- Top-bracing & compensator evaluation

Yacht Vibration & Noise

- Comfort & noise level evaluation
- Before/after repair & retrofit validation
- Local-structure deflection-shape analysis

Proof not promises

Anyone can sell a sensor. Our value is what happens to the signal afterwards — analysed onboard, surfaced on one dashboard, and pushed into the systems your team already uses.

LR

Digital Twin Ready

Lloyd's Register — MHM System

ABS

SMART (MHM) Tier-2

AdViSe Live & Live Lite

ABS

Approved Supplier

Onboard vibration & IRT surveys

ABS

Vibration · IRT · Noise

Measurement, analysis & reporting

Sells sensors

Sensors + embedded diagnostics

Hands over data

Delivers decisions & recommended actions

Cloud dependent

Edge computing — analysis onboard

Reports only

Dashboard + REST API + ERP integration

Generic monitoring

Maritime focus & survey expertise

520+

VESSELS MONITORED

65,000+

ASSETS MONITORED

10,000+

MONTHLY REPORTS





LR DIGITAL TWIN READY SYSTEM · ABS SMART (MHM) TIER-2 · ABS APPROVED SERVICE SUPPLIER