

Golf Central Palm Hills, New Giza, Egypt
Dubai Silicon Oasis, Dubai, UAE
Coastal Hwy Lewers, USA

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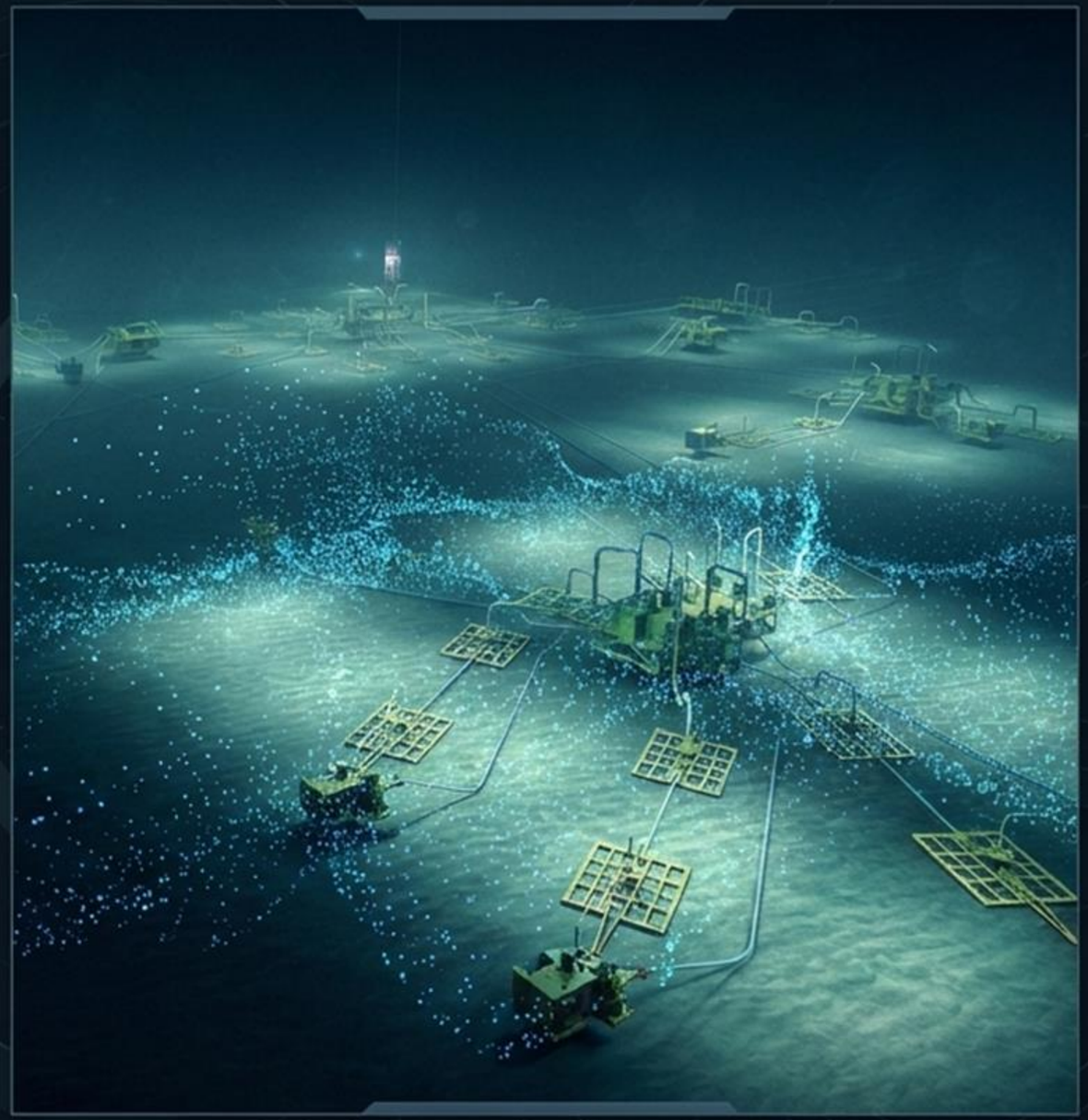
Who We Are

A leading innovator in subsea inspection and data acquisition.

To make subsea operations more efficient, more cost-effective, and safer.

Enabling high-speed, high-quality data acquisition for the delivery of complex projects in all water depths and challenging environments. Executed by highly experienced engineers adhering to the highest professional and ethical standards.

Egypt (New Giza) | UAE (Dubai) | USA (Lewes, DE)

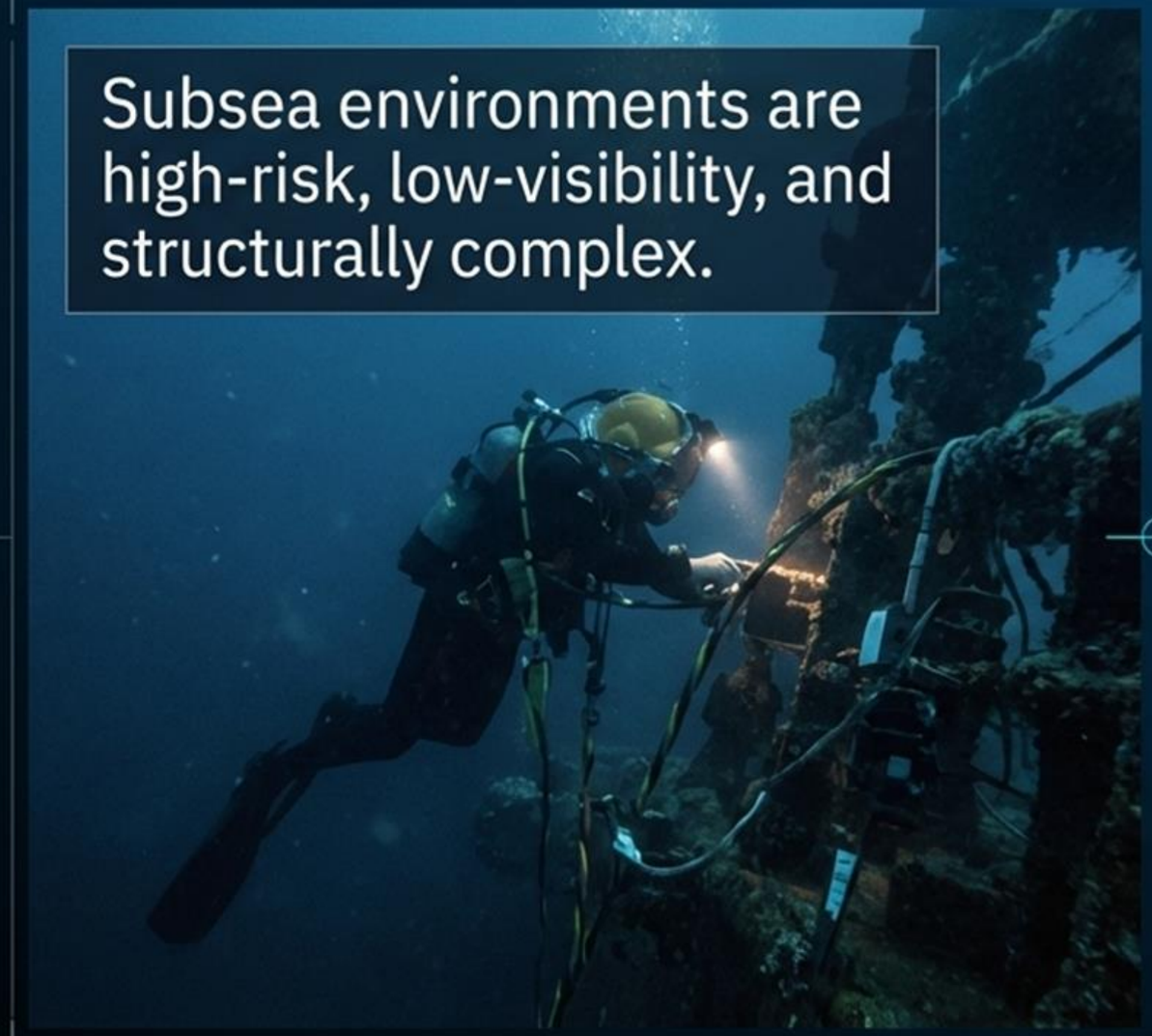


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We bridge the gap between harsh physical realities and crystal-clear digital insights.

High-speed, high-quality data acquisition for all water depths.

50% of revenue committed to R&D. Anticipating tomorrow's subsea challenges today.

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THE MISSION

To uncouple subsea structural integrity from traditional, high-risk methodologies.

We deliver high-speed, high-quality data acquisition for complex offshore projects, maximizing efficiency and safety in all water depths.

OPERATING SECTORS



Oil & Gas



Offshore Wind



Power & Telecoms

SERVICE ARCHITECTURE

- IMR Programs
- Decommissioning
- Construction Support
- Survey & UXO Inspection
- RBIM Engineering

Oil & Gas

Survey, IMR, Construction Support, Decommissioning



Offshore Wind

Supporting renewable transition with high-fidelity asset integrity monitoring



Power & Telecoms

Subsea cable and UXO surveying



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Domain & Capabilities Blueprint







Core Operations	IMR Programs	Decommissioning	Construction Support	Survey, UXO & Inspection	ROV Services	Laser Scanning & 3D Modeling
Engineering & Tech	Integrity Management System	In-House Software Solutions	Data Center	RBIM Engineering		
Support	Highly Trained Personnel	Certified Trainings	Equipment Provider & Topside Services	Offshore Personnel Recruiting		

The Complete SIMS Offshore Ecosystem

Layer 4: Base Infrastructure & Global Support

- Offshore Personnel Recruiting
- Data Center Services
- Survey & Positioning

Layer 3: Engineering, Hardware & Operations

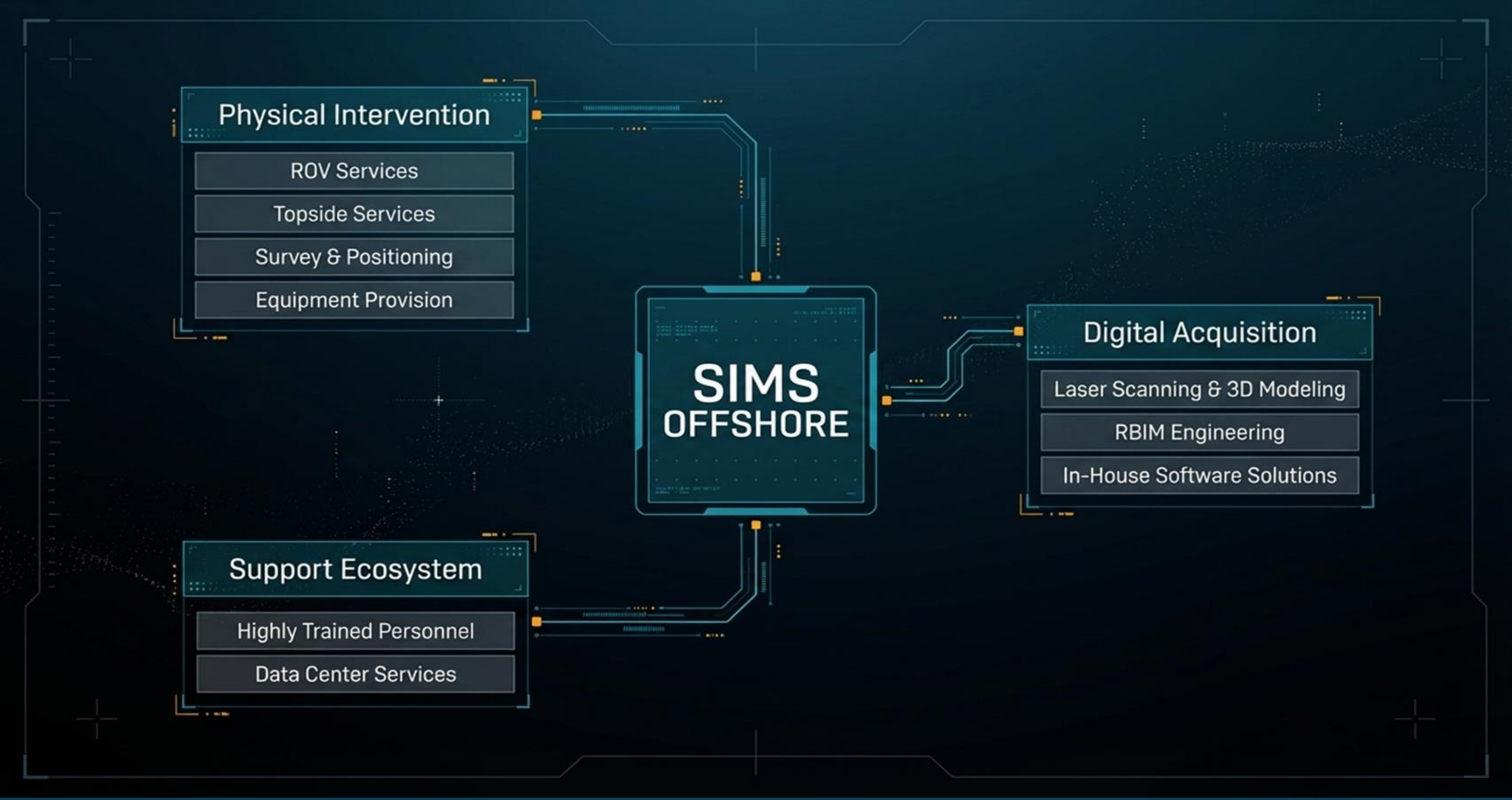
- ROV Services
- Equipment Provider & Topside Services
- Structure Inspection System
- RBIM Engineering
- Lifting and Cranes Integrity Management
- Associated Services (Survey, UXO, IMR, Construction Support, Decommissioning)

Layer 2: Reality Capture & Spatial Data

- Fast Digital Inspection (FDI)
- Point Cloud Photogrammetry
- Laser Scanning & 3D Modeling
- Topside NDT & Advanced Inspection

Layer 1: The Digital & AI Layer

- In-House Software Solutions
- VAS
- VLB
- VDB
- PIS
- Digital Twin
- Integrity Management Systems
- Automation



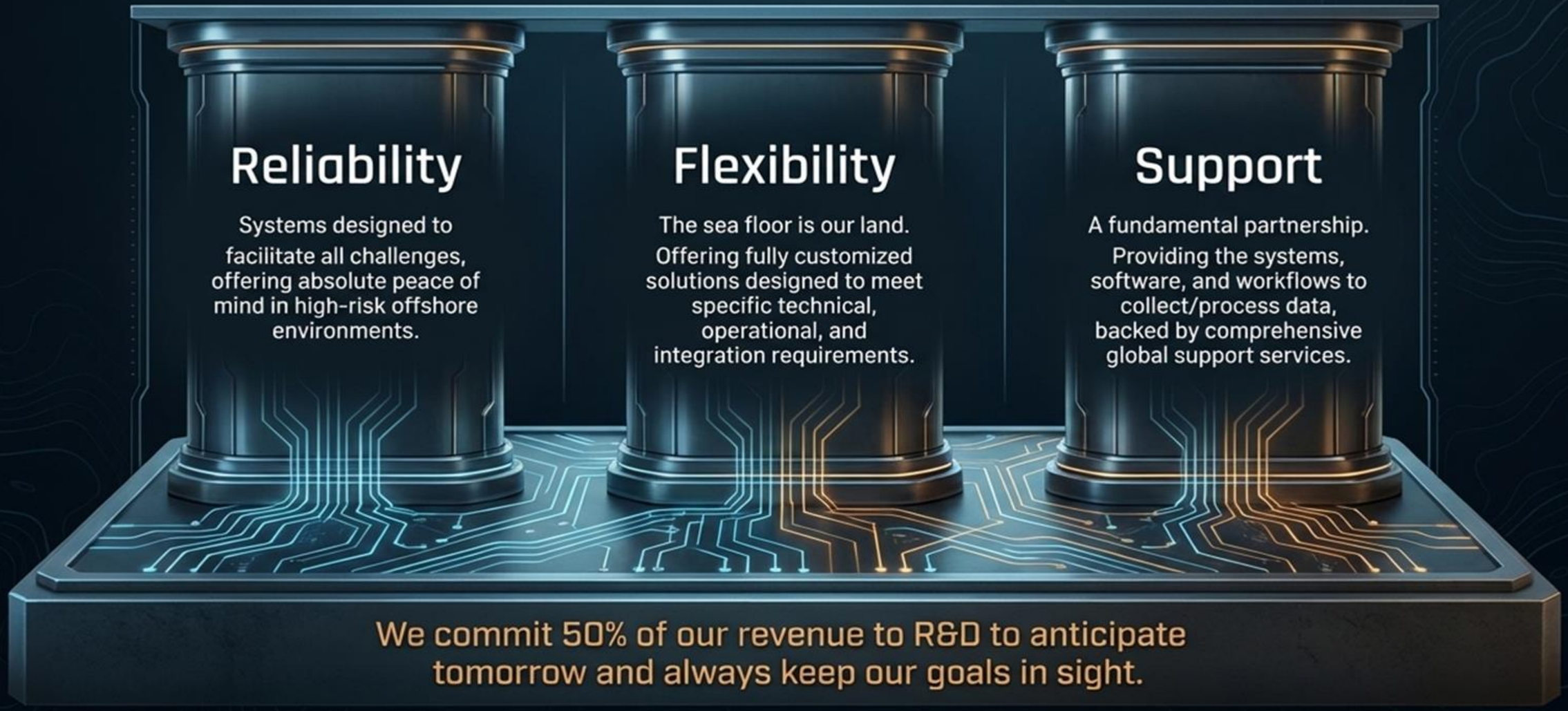
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The Innovation Engine



VAS: The Central Acquisition Hub

Well proven to reduce cost, setup complexity, and mobilization time by housing up to 6 DVR and Overlay Systems in one unit.

Records next-gen subsea cameras (SD/HD/4K).

Simultaneous recording and web broadcast (with overlay) of up to 6 channels.



Accepts digital and analog feeds with zero quality loss.

Integrated black box recording & interactive overlay system.

Interactive tools to assist in immediate anomaly capturing.

The Digital Deep: Hardware Meets Edge Computing



Video Acquisition System (VAS)

Developed as a central video acquisition server (hub) containing up to six (6) DVR and Overlay Systems in one unit. Well proven to reduce cost, setup complexity, and mobilization time.

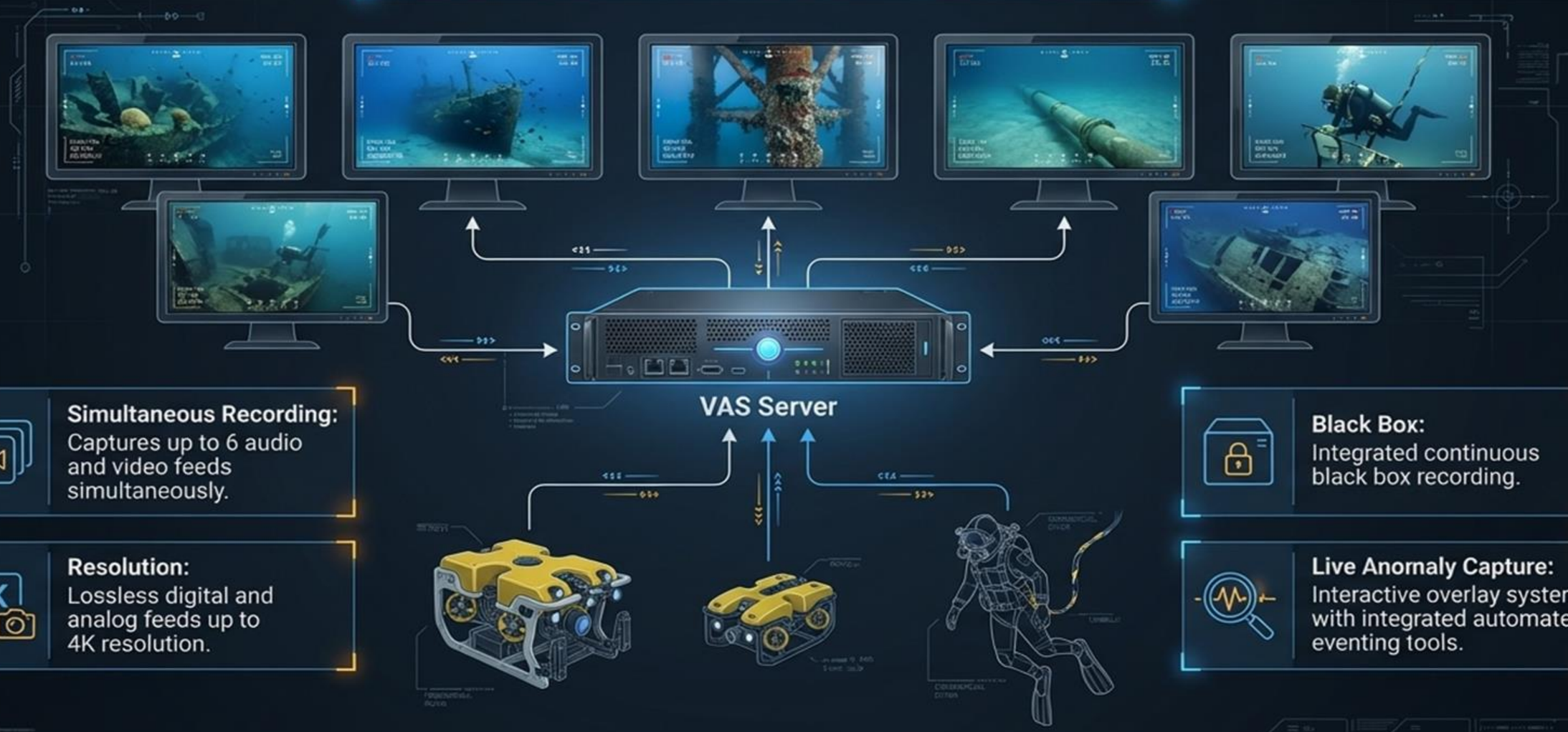
Mini DVR & Structure Inspection System

Specially designed for congested workspaces, enabling a platform spread with a single-channel system.



Video Acquisition System (VAS) Architecture

A remotely controlled, SIMOPS-capable digital video recorder acting as the central nervous system for subsea capture.



Simultaneous Recording:
Captures up to 6 audio and video feeds simultaneously.

Resolution:
Lossless digital and analog feeds up to 4K resolution.

Black Box:
Integrated continuous black box recording.

Live Anomaly Capture:
Interactive overlay system with integrated automated eventing tools.

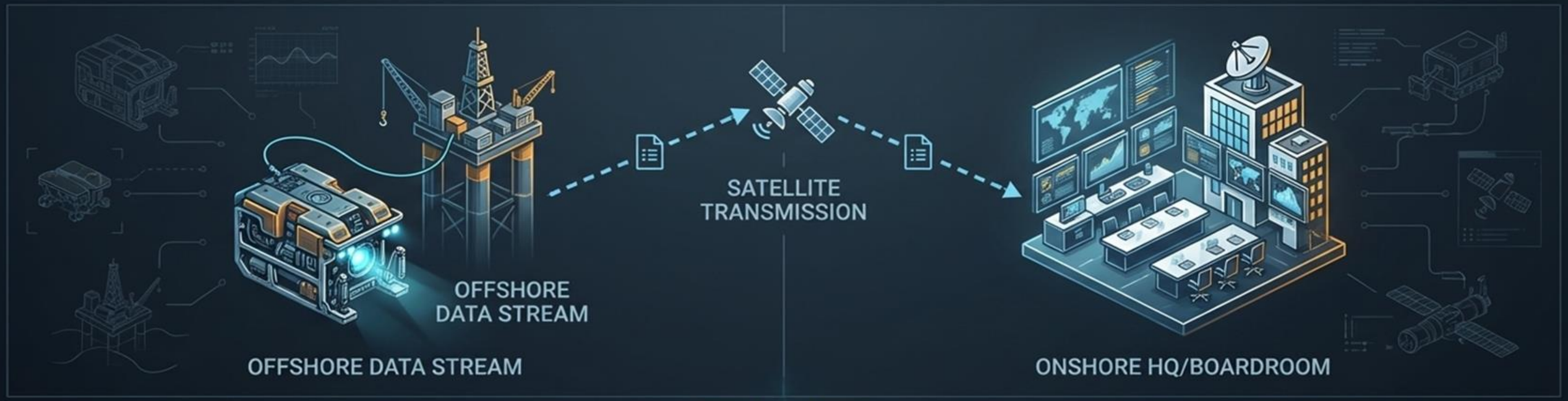
Capturing the Visual Truth

The SIMS Video Acquisition System (VAS) redefines how visual data is captured, compressed, and utilized, dramatically lowering storage overhead while maximizing operational concurrency.

	SIMS VAS	Industry Standard
Video Quality	Enhanced SD & HD via high-end recording technology.	Variable / Standard Definition.
File Size & Storage	Up to **50%** reduction in video size via proprietary compression.	Massive files causing storage bottlenecks.
Operational Efficiency	**6 simultaneous** ROV or diver feeds.	Limited single or dual feeds.

VAS comes standard with an integrated interactive overlay system and a built-in black box for uncompromised data security.

The Broadcast Engine: VLB & VDB



Video Live Broadcast (VLB)

Function: Allows onshore engineers and management to view survey findings live.

Advantage: Customizable video size and quality optimized to match restricted offshore satellite bandwidths. Zero-latency operational decisions.

Video Direct Broadcast (VDB)

Function: Professional, broadcast-quality real-time encoding/decoding.

Advantage: Patented error correction for distribution over standard IP networks and the internet. Highly secure, credential-controlled access.

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The Inspection Spectrum Matrix

Video Acquisition System (VAS)

Function: Central Video Hub & Digital Video Recorder

Capacity: Up to 6 simultaneous ROV/Diver feeds

Ideal Environment: High-complexity, multi-feed offshore operations.



Mini DVR (Structure Inspection)

Function: Single-channel platform spread

Capacity: 1 channel

Ideal Environment: Congested workspaces requiring a highly compact footprint.

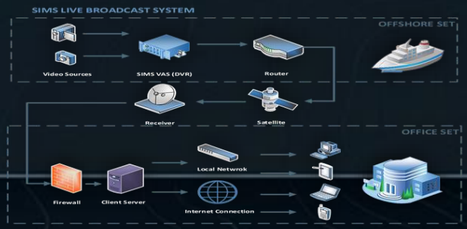


Broadcast Solutions (VLB / VDB)

Function: IP & Satellite Video Transport

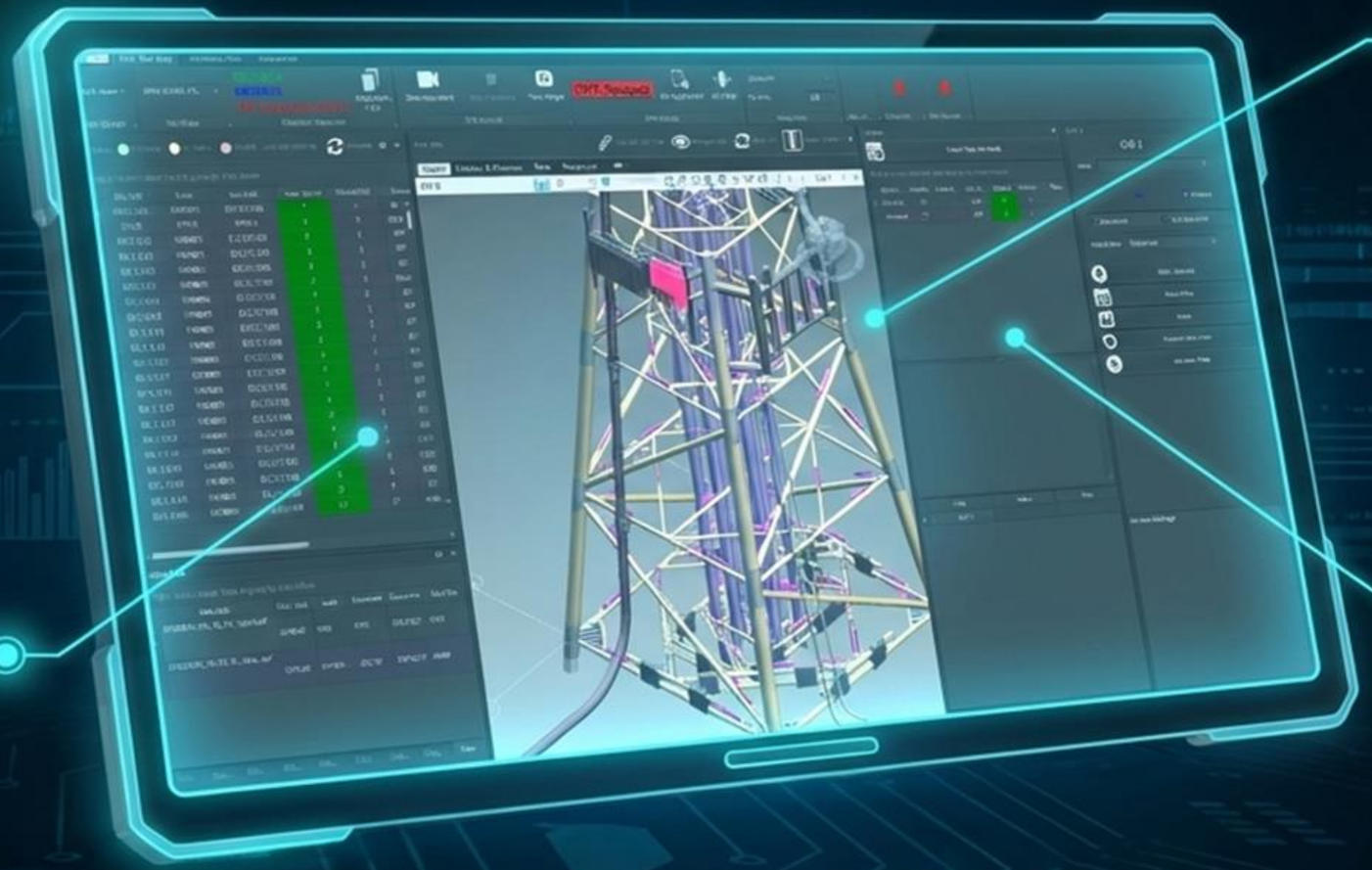
Capacity: Real-time encoding/decoding over nearly any IP network

Ideal Environment: Remote monitoring and shore-based broadcast distribution.



Mapping Reality to the Smallest Bolt

Raw data requires context. The Asset Inspection System (AIS) aligns underwater structural inspection data directly onto advanced 3D models containing complete design drawings.



Total Context

3D tools highlight work progress, specify exact task locations, and track work scope completion in real time.

Seamless Integration

Rapid import and migration of historical videos and inspection records from previous surveys or legacy software.

Unshakable Foundation

Built on an Oracle database running through a Linux OS—guaranteeing peak efficiency, stability, and virus-free security.

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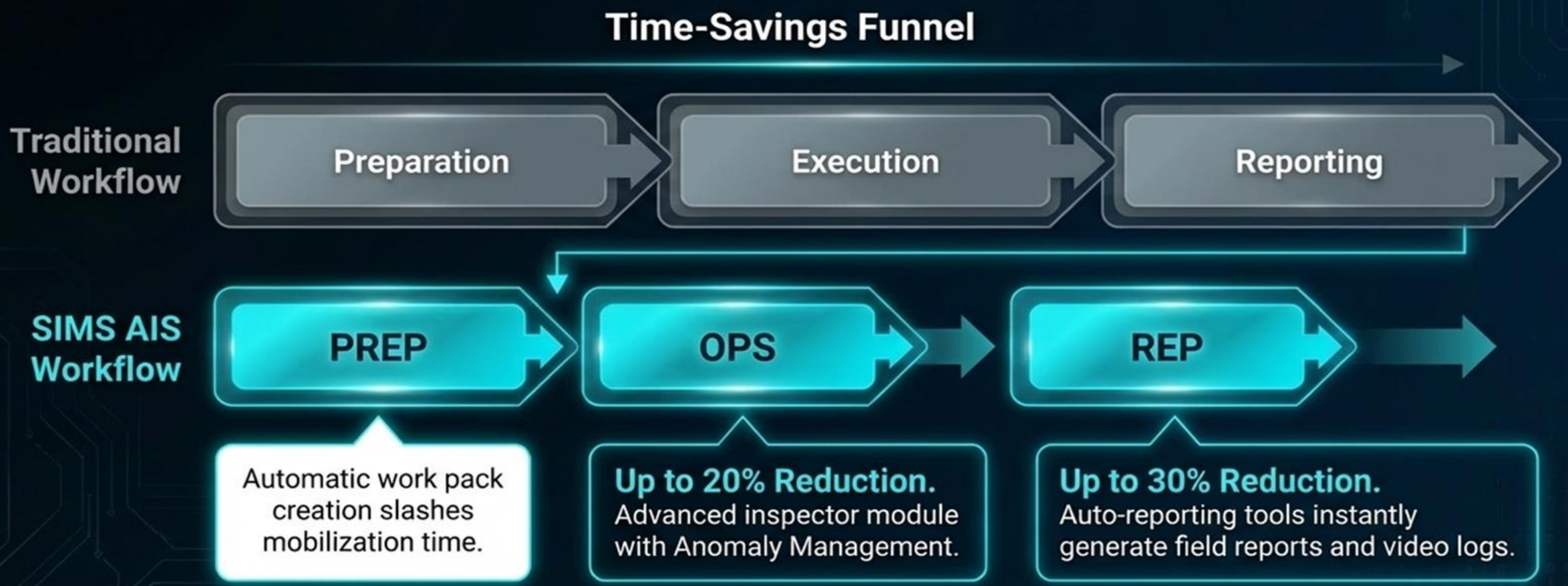
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Accelerating the Inspection Lifecycle

AIS isn't just about better visuals; it is an engine for operational efficiency. By automating tracking and reporting, we drastically compress the time required from mobilization to final delivery.



Automation & AI System (AIS)

Event Auto Recognition

Designed specifically for Event Auto Recognition.

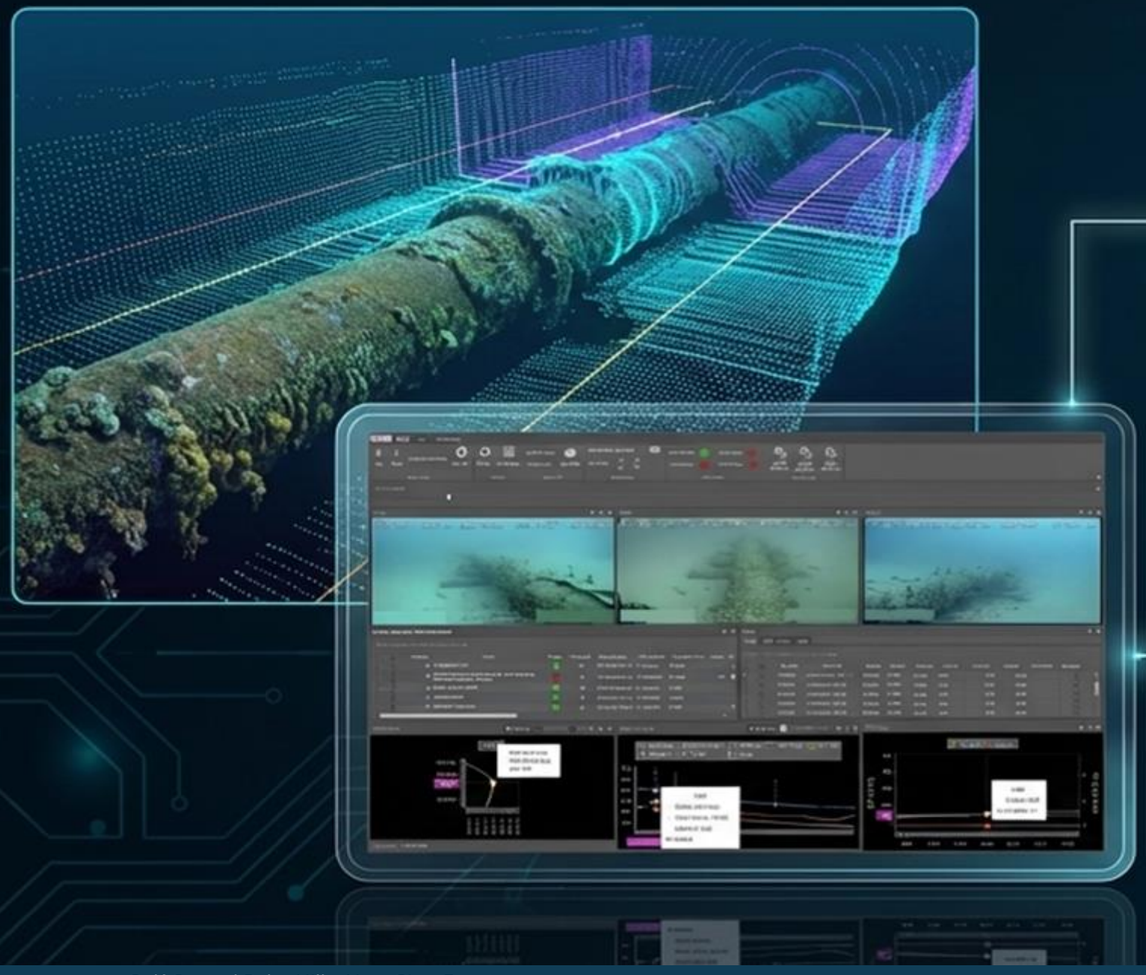


Deployment of a proprietary set of Artificial Intelligence tools.

Drastically reduces manual review time and human error in identifying subsea anomalies.

Intelligent Pipeline Eventing

Designed for seamless online eventing and offline data review, the **SIMS Pipeline** Inspection System (**PIS**) integrates directly with market-standard processing suites and is engineered for future AUV compatibility via AI and machine learning.



Custom Interface

Fully customized eventing tablet featuring bespoke event codes, anomaly highlighting, and predefined parameters.

Real-Time Auditing

Immediate anomaly alerting, tracking, and automated logical QC checks during operations.

Smart Filtering

Generate targeted lists for inspection results, combining events directly with associated survey data and video feeds.

Auto-Generation

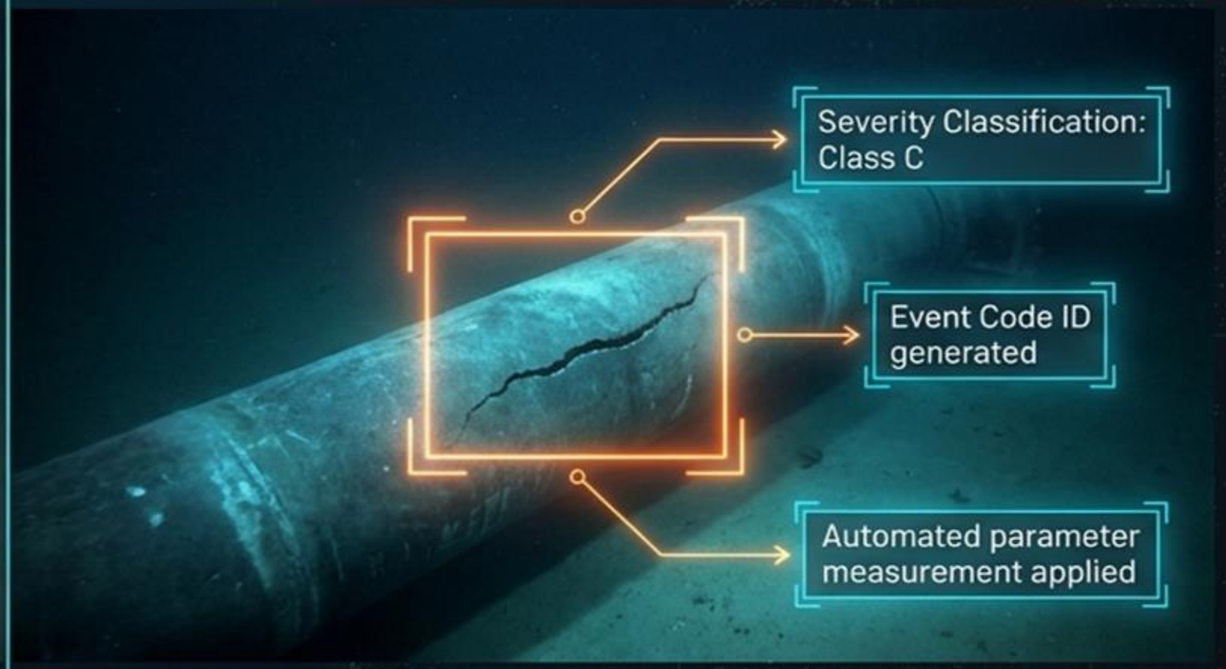
Instantly export pipe lists, event lists, and comprehensive field reports at the push of a button.

AI-DRIVEN EVENT AUTO RECOGNITION

The Raw Feed



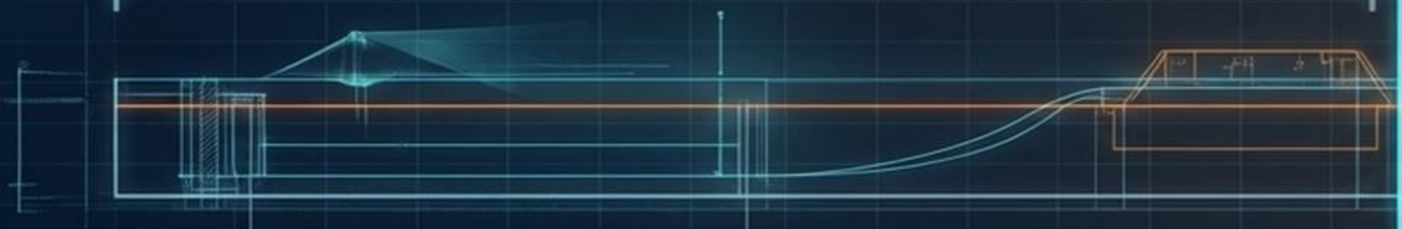
The Intelligent Feed



Immediate anomaly alerting and tracking in real time. The system automatically highlights anomalies, assigns codes, and generates smart-filtered lists, bypassing days of manual video review.

FAST DIGITAL IMAGING (FDI): THE CAPABILITY SPECTRUM

GVI / FGVI (Fast General Visual Inspection)



Speed:
Online inspection at min 1.85 Km/Hr.

Coverage:
9.30 to 2.30 o'clock.
Top-down stereoscopic or single camera + 3D point cloud.

FDI (Fast Digital Inspection)



Speed:
High-detail processing at 0.5 Km/Hr.

Coverage:
8.00 to 4.00 o'clock minimum. Target 7.30 to 4.30 with sufficient overlap to create flawless 3D imaging.

Automated event and anomaly identification ready across all speeds.

Fast Digital Imaging (FDI): The Subsea Renaissance

The Technology



Configurable for General Visual Inspection (GVI) or Fast GVI.



Ideally suited for Fast ROV, AUV, WROV, or Remotely Operated Combination USV systems.



Utilizes a single (forward-looking) camera, vSLAM (Visual Simultaneous Localisation & Mapping), and SFM (Structure from Motion).

The Impact



A data-focused renaissance technology.

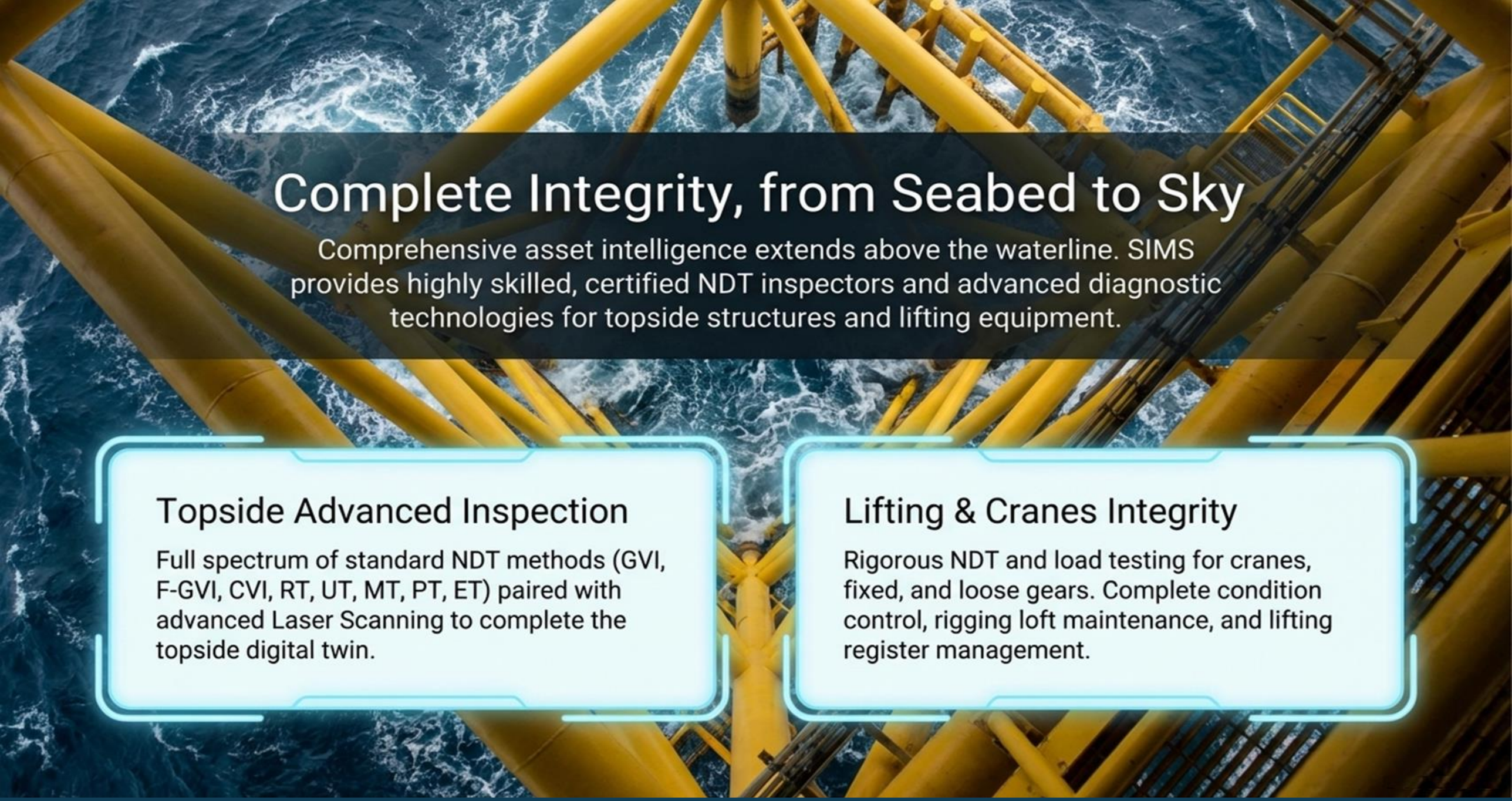


Ideally suited for automated event and anomaly identification and classification.



Credibility Marker: BP's preferred technique of inspection, delivering products fully compatible with BP corporate data stores (OneMap environment).

Software Suite	Primary Function	Key Differentiator	Output / Bandwidth
VAS (Video Acquisition System)	Digital Video Recording	Multi-channel SD/HD/4K overlay	Local Archive
VLB (Video Live Broadcast)	Satellite Transmission	Customizable to satellite bandwidth	Remote Real-time
VDB (Video Direct Broadcast)	IP Network Transport	Patented error correction, ultra-low latency	Broadcast Quality IP
PIS (Pipeline Inspection System)	Pipeline Surveying	Online Eventing & Offline Editing	Charting & Reporting
AIS (Structure Inspection System)	Anomaly Management	Reduces execution time up to 20%	3D Model Highlighting & Migration



Complete Integrity, from Seabed to Sky

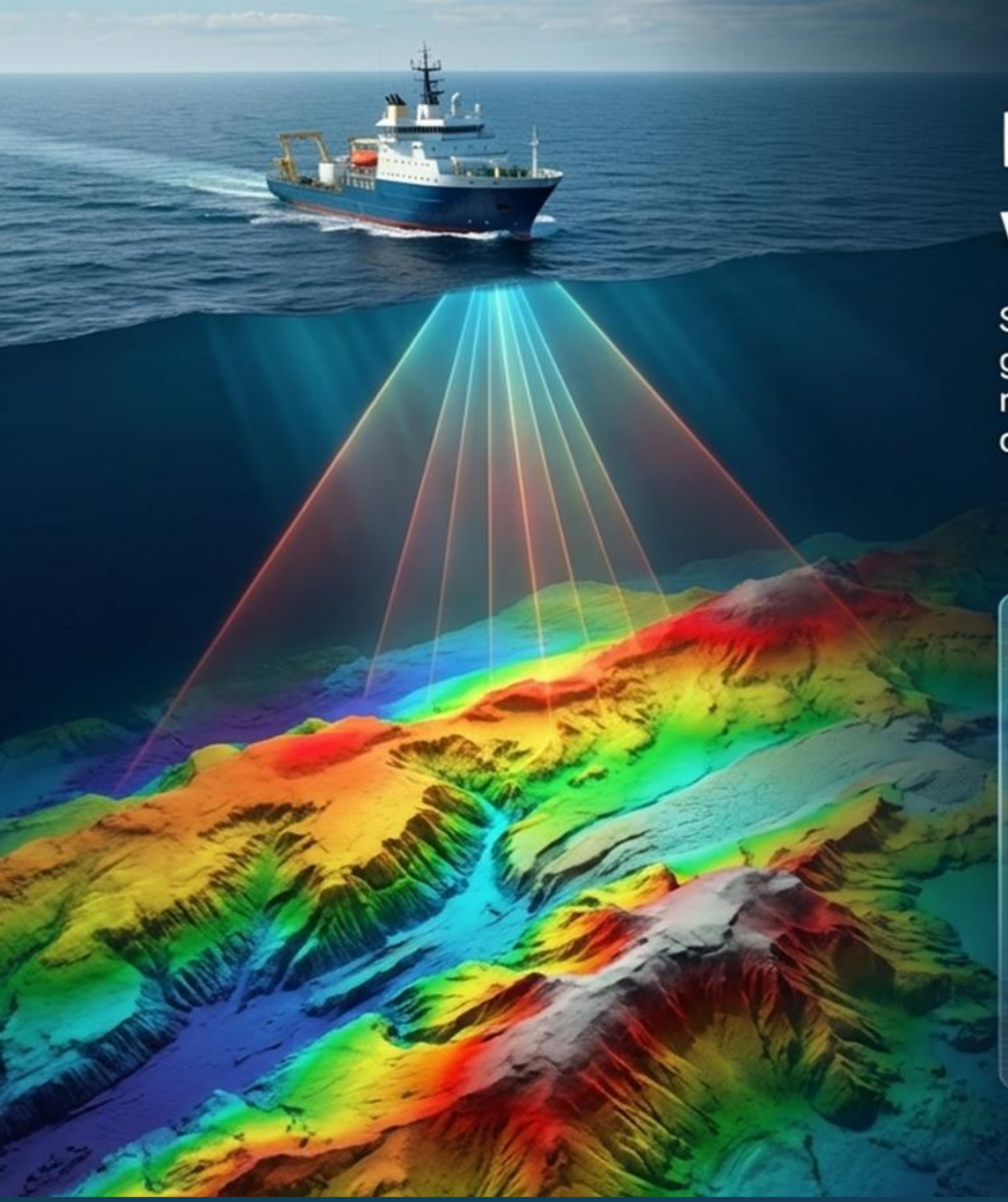
Comprehensive asset intelligence extends above the waterline. SIMS provides highly skilled, certified NDT inspectors and advanced diagnostic technologies for topside structures and lifting equipment.

Topside Advanced Inspection

Full spectrum of standard NDT methods (GVI, F-GVI, CVI, RT, UT, MT, PT, ET) paired with advanced Laser Scanning to complete the topside digital twin.

Lifting & Cranes Integrity

Rigorous NDT and load testing for cranes, fixed, and loose gears. Complete condition control, rigging loft maintenance, and lifting register management.



Mapping the Foundation with Absolute Precision

Subsurface clarity is the prerequisite for offshore safety. Our geophysical surveys utilize non-intrusive techniques to deliver highly reliable data for engineering design, route planning, and hazard detection.

Capabilities

- Full positioning services
- Geophysical data acquisition
- Processing & reporting
- Comprehensive ROV operations

Strategic Benefits

- Identifies geohazards early, reducing operational risks.
- Determines essential soil characteristics for foundation design.
- Minimizes cost and time by eliminating unnecessary intrusive sampling.
- Highlights unstable seabed zones to guarantee safety.

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THE SYNTHESIS: UNIFIED OFFSHORE REALITY

Structural Integrity Management Solutions via Intelligent Topside & Subsea Digitization.

By fusing Dynamic Laser Scanning, Subsea FDI, and AI Event Recognition, we produce a single, unified data reality. The fragmented physical environment is reborn as a cohesive digital ecosystem.

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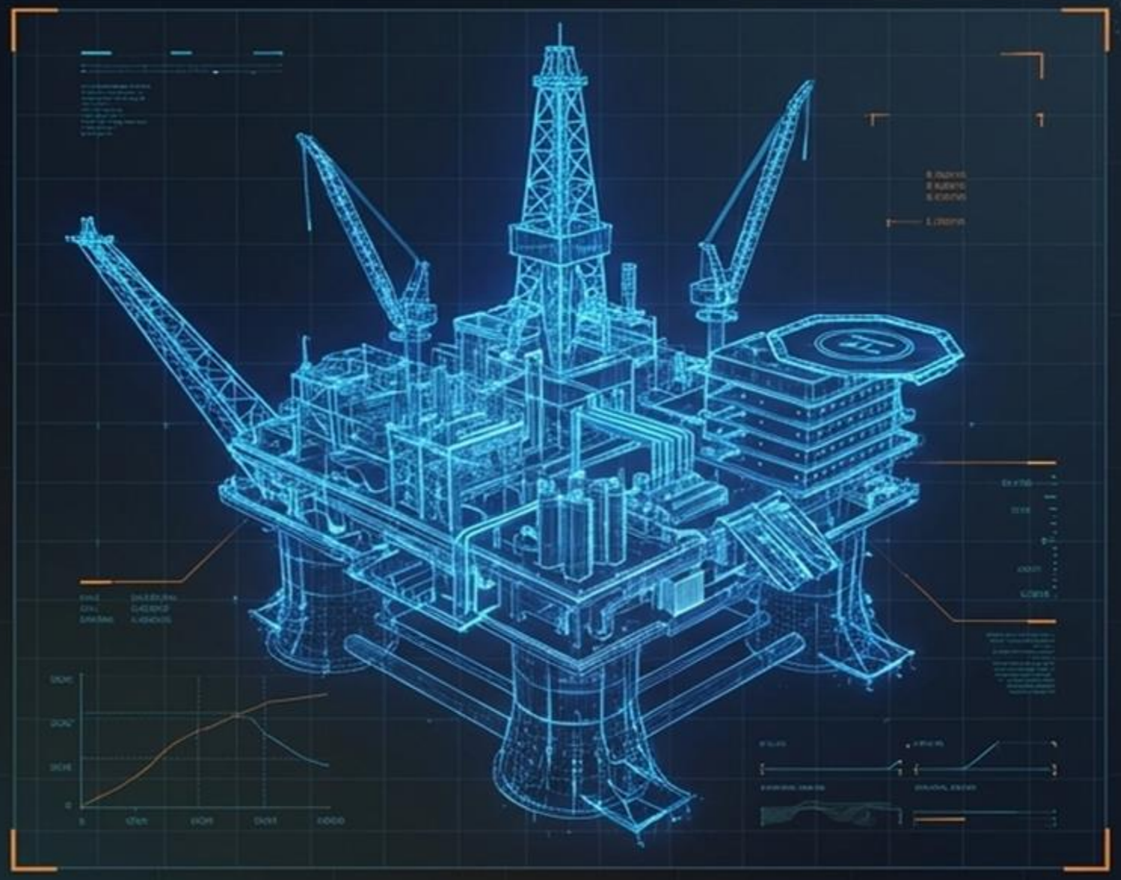
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ACT I: THE TOPSIDE REALITY

ON-SITE DYNAMIC LASER SCANNING (LSS)



DYNAMIC CAPTURE

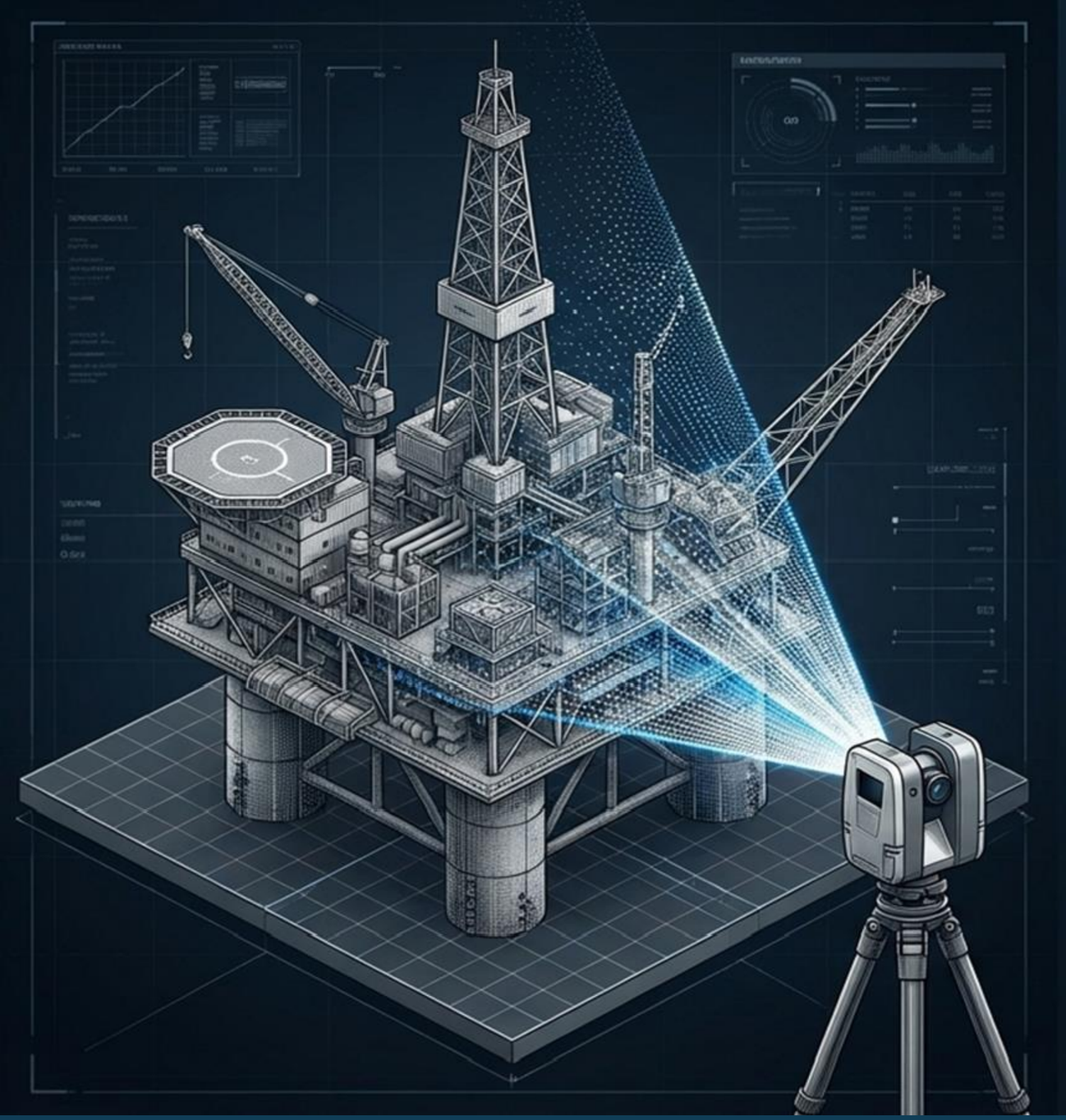
High-speed capture of complex active topside environments without interrupting ongoing platform operations.

MILLIMETER PRECISION

Generates highly accurate 3D spatial data for navigation, retrofitting, and construction.

INTELLIGENT OUTPUT

Delivers LOD 350 as-built models—creating a comprehensive, intelligent digital replica.



On-Site Dynamic Reality Capture

Laser Scanning (LSS) & 3D Modeling

Advanced laser technology captures highly accurate 3D spatial data, providing millimeter-precise models of physical environments without interrupting ongoing platform operations.

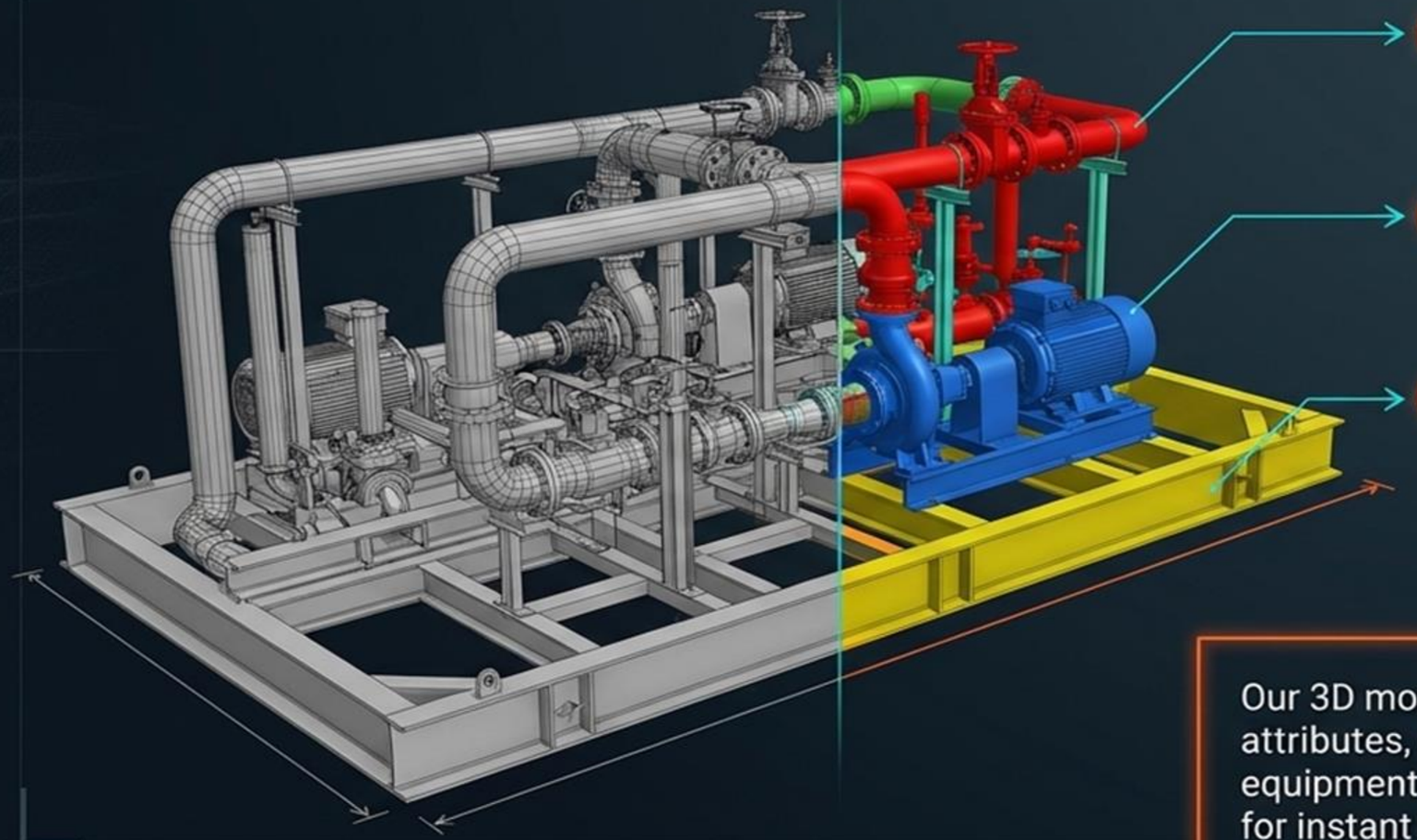
High-Speed Generation

Dynamic capture of complex active topside environments generates LOD 350 as-built models—a comprehensive, intelligent digital replica.

Topside NDT & Advanced Inspection

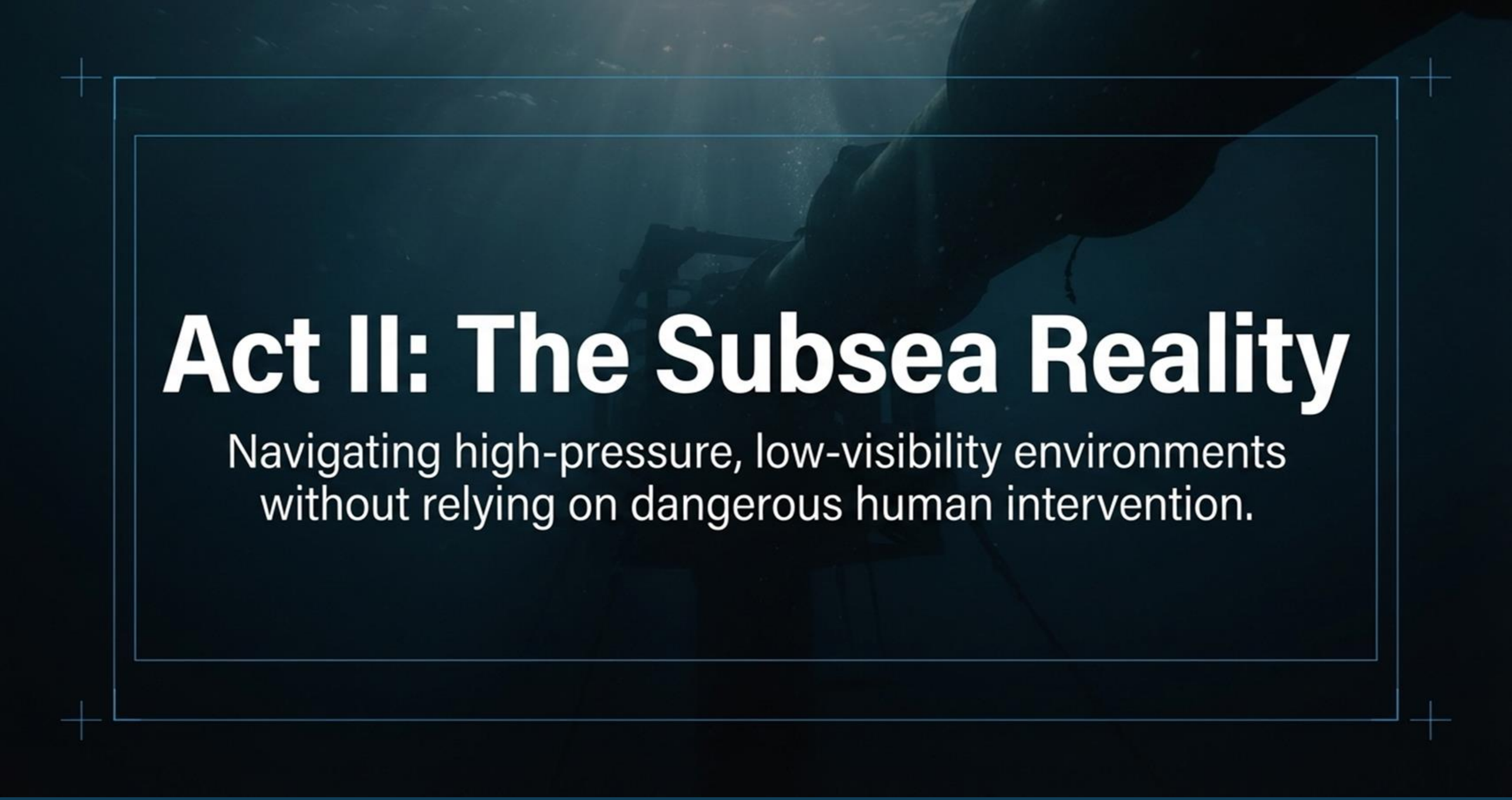
Combining spatial mapping with rigorous Non-Destructive Testing to empower precise navigation, retrofitting, construction, and environmental assessments.

INTELLIGENT BIM ATTRIBUTE MAPPING



1. Fire & Safety Systems
2. Active Pumping Infrastructure
3. Primary Steel Sections

Our 3D models are embedded with BIM attributes, differentiating critical equipment through precise color coding for instant operational clarity.


Act II: The Subsea Reality
Navigating high-pressure, low-visibility environments
without relying on dangerous human intervention.

ACT II: THE SUBSEA REALITY

Navigating high-pressure, low-visibility environments without relying on dangerous human intervention.

UNIVERSAL COMPATIBILITY

Fully compatible with any existing ROV, AUV, or WROV camera.

EXTREME ACCURACY

Yields accuracy up to 1mm (dependent on hardware).

IF YOU CAN TAKE IMAGES OF IT, THEN WE CAN WORK WITH IT.

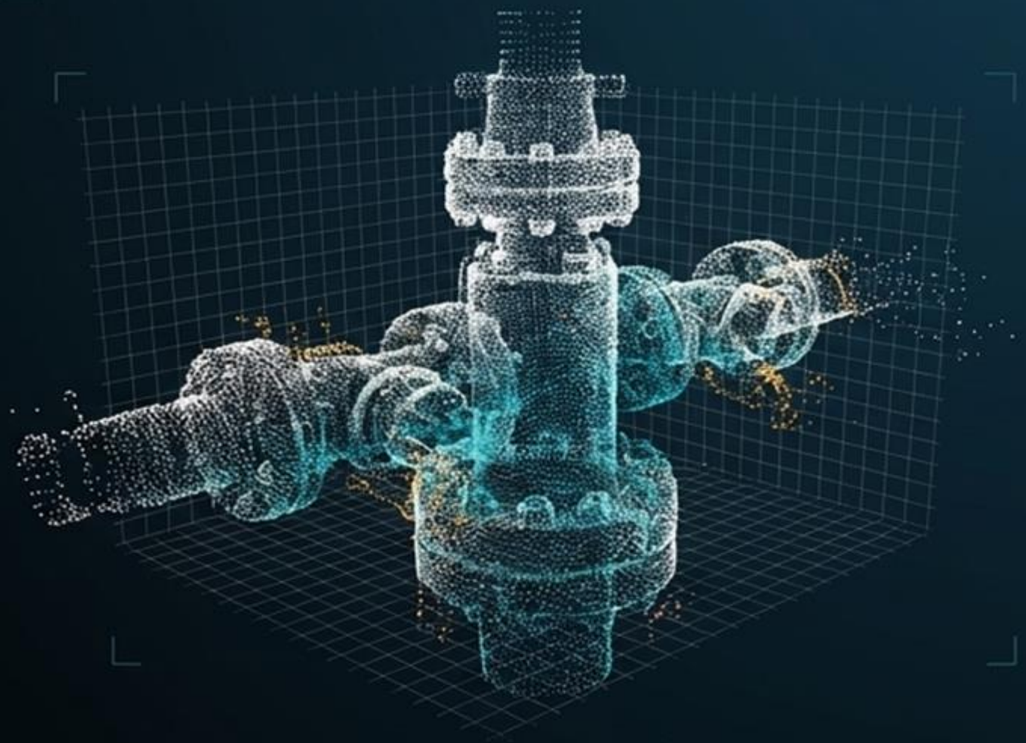
FORMAT AGNOSTIC

Processes standard video streams (VAS/DVR) or still images.

SEAMLESS INTEGRATION

Feeds directly into the SIMS 3D Viewer.

DEPTH: -18.6 KM
ATMSPRS: 23.45 KPN



3D Point Cloud Photogrammetry & Laser Scanning

Building real 3D models and dimensional reports with zero extra hardware or diving campaigns. Market-leading turnaround times with no added operational footprint.

The AI Automation Engine

1. Ingest:

Deep machine learning processes historical and structural data.



2. Evolve:

Independent algorithm improvement under developer monitoring.



3. Automate:

Fully integrated AI deployed for Event Auto-Recognition, converting unstructured video into structured data instantly.



DEPTH: -18.6 KM DEPTH: -18.6 KM ATMSPRS: 23.45 KPN

Photogrammetry: Subsea Asset Digitization

If you can take images of it, we can work with it.

1. Image Capture



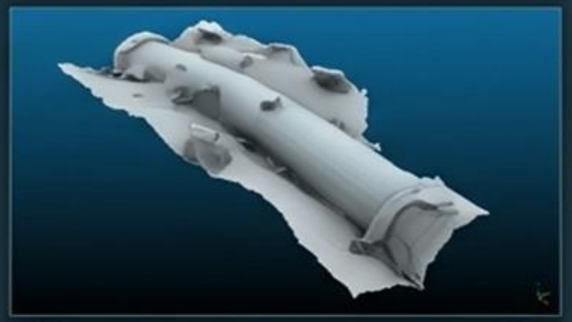
Simple, flexible subsea image capture.

2. 3D Point Cloud Generation



Building highly accurate real 3D models with measurement tools down to the smallest bolt.

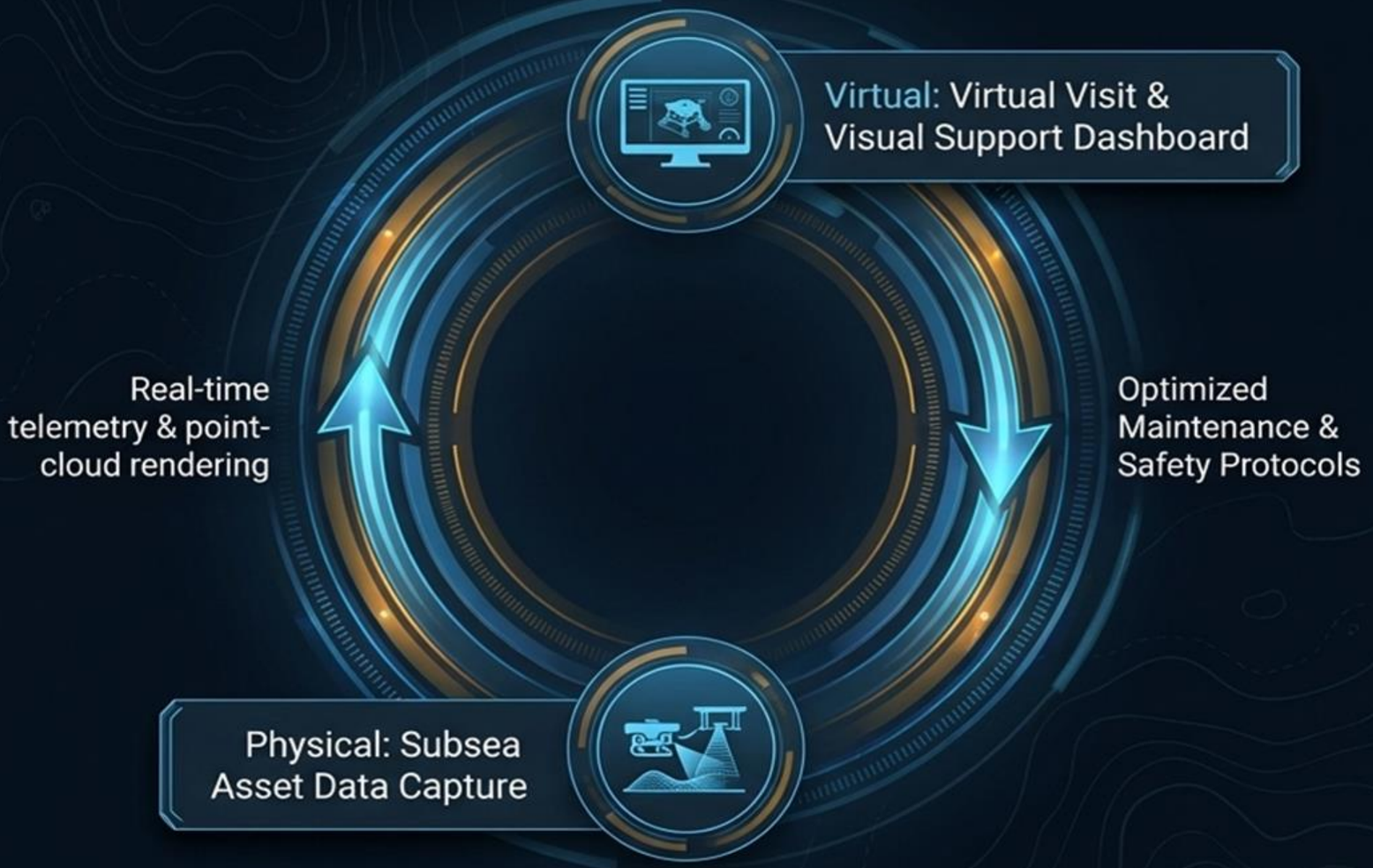
3. Dimensional Output & Management



Data conversion/migration of previous surveys, and continuous Anomaly Management (tracking new vs. historical anomalies).

The Digital Twin Ecosystem

Offshore asset—mirrored, monitored, and optimized digitally

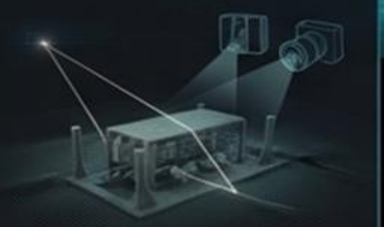


Key Benefits

- List Carry Over Work items to ease scope handover and execution.
- Deliver context-specific safety inductions from a virtual visit.
- Visually support operational meetings and train operators.
- Better plan and prepare maintenance.

The Reality-to-Virtual Pipeline

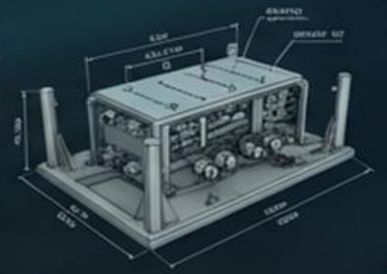
Capture
Laser Scanning & Photogrammetry



Process
Deep Machine Learning & AI Automation



Model
The Digital Twin



Experience
VR Component Inspection



Data is not the end product. Data is the raw material we use to build a perfect digital reflection of the subsea physical world.

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The Digital Twin:

An indistinguishable digital counterpart to your physical asset. Replicating the physical system to predict failures, prescribe real-time actions, and optimize maintenance across the life of the field.

The VR Execution:

Navigating the point cloud via Virtual Reality. Inspecting subsea components completely remotely, drastically reducing the need for offshore personnel and high-risk human intervention.

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THE LIVING ASSET: DIGITAL TWIN CAPABILITIES





CLASH ANTICIPATION

3D simulations predict integration clashes for brownfield projects before mobilization.





WEIGHT CONTROL

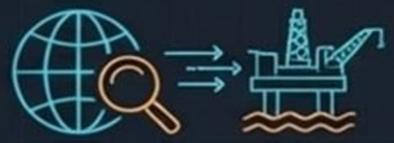
Utilizing 3D point-clouds to estimate equipment/module weight to assess lifting requirements prior to execution.





PRESCRIPTIVE MAINTENANCE

Replicating the physical system to predict failures and prescribe real-time mitigating actions based on the operating profile.





REMOTE INTERROGATION

Checking asset information and planning full maintenance scopes entirely from the imaged digital twin, onshore.

THE OFFSHORE OPERATIONAL TRILEMMA



SAFETY

Eliminating the physical risks associated with extended human diving campaigns and manual structural inspections.



DOWNTIME

Preventing operational halts through rapid, non-intrusive asset capture and real-time data delivery.



COST CONTROL

Bypassing the need for heavy external hardware, specialized dive support vessels, and delayed processing cycles.

We deliver a unified, millimeter-precise digital reality of your entire asset—without the traditional risk.

THE PARADIGM SHIFT: THE SIMS AI ENGINE



We don’t just capture data; we synthesize it into predictive intelligence.

SIMS AI identifies patterns in unstructured subsea data exponentially faster than human analysis, transforming blind operational history into actionable foresight.

Stage 1: Ingestion

Utilizing deep machine learning to feed the system massive volumes of historical and live input.

Stage 2: Independent Evolution

The AI system develops and improves itself independently, converting non-structured data into structured integrity models.

The Digital Nervous System

In-House Software Solutions

We provide custom systems, software, and workflows, helping clients collect and process data across many applications.

The AI Ecosystem

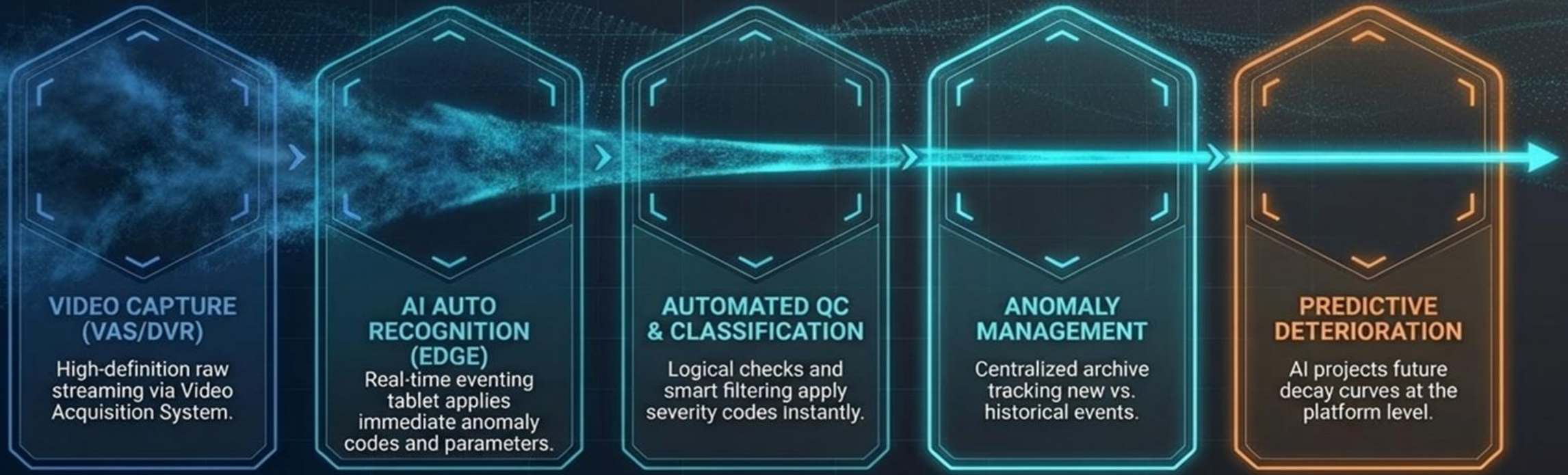
Generating a fully integrated AI system for auto-eventing and anomaly detection.



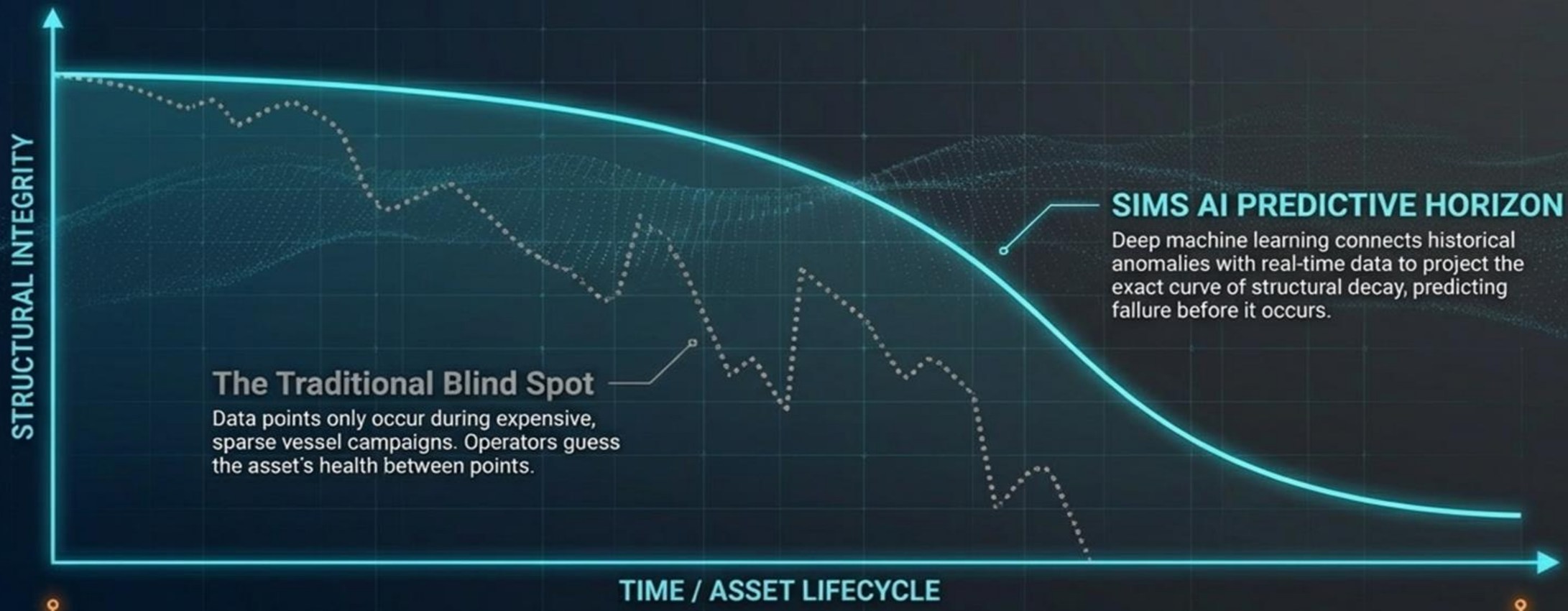
Unified Reality

Full compatibility across SIMS modules, including Point Cloud Photogrammetry and Virtual Reality (VR) platforms designed to reduce required offshore personnel.

THE INTELLIGENT PROCESSING FUNNEL



THE PREDICTIVE DETERIORATION HORIZON



TRANSITIONING ASSET MANAGEMENT FROM REACTIVE EMERGENCY INTERVENTION TO PRESCRIBED, REAL-TIME OPTIMIZATION.

IN-HOUSE SOFTWARE & INTEGRITY MANAGEMENT



Data Conversion & Migration

Platform software imports previous surveys and legacy inspection data seamlessly.

Centralized Archive

Complete, managed retrieval of all data, videos, and records.

Market Standard Integration

Ability to integrate outputs with enterprise CMMS and standard processing suites.

Continuous Improvement

Adaptive models that continually emulate the physical system, updating themselves throughout the asset's life cycle.

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Ecosystem Synthesis: Data & Integrity Management

Data Management System
(Input & Storage)

Focus: Centralized archive and retrieval.

- One trusted source of truth (no duplication)
- Manageable dashboards
- Automated field reports



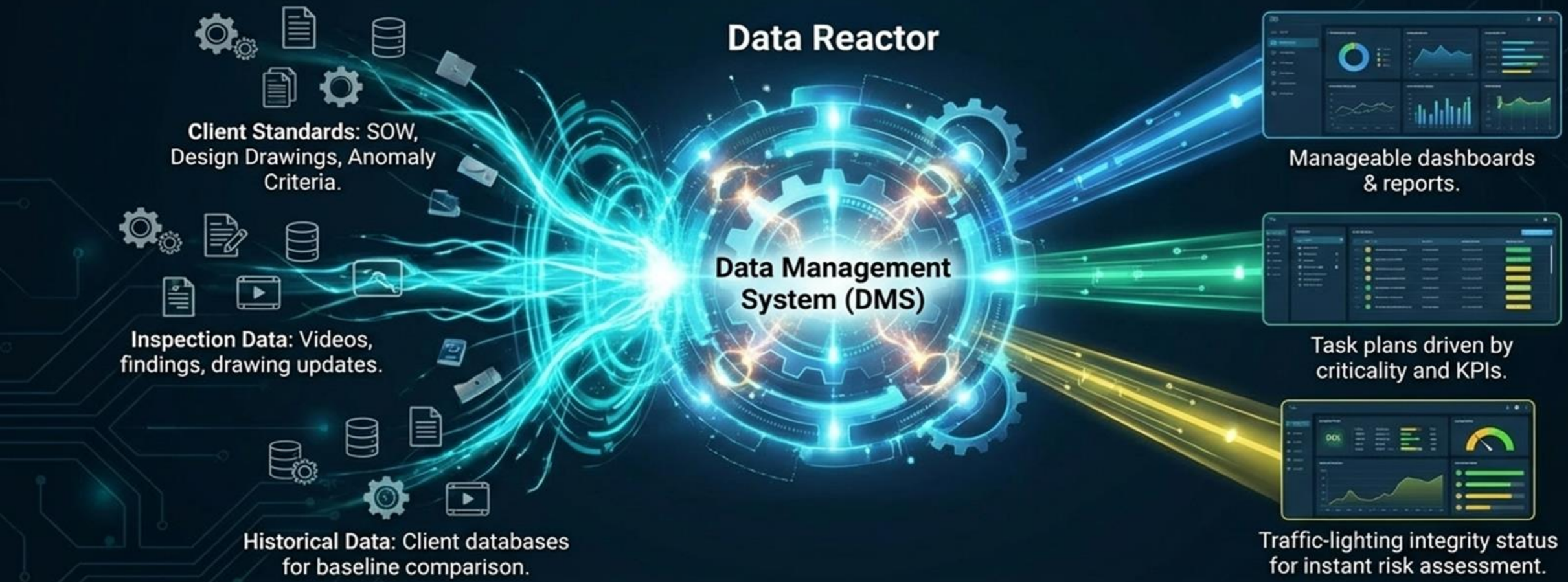
Integrity Management System
(Analysis & Action)

Focus: Evaluation of structural integrity and remedial strategy.

- Fitness for purpose evaluation
- Life of field monitoring
- Task plans based on KPIs/criticality
- Traffic lighting integrity status
- Budget estimation for IMR work

The Single Source of Truth

Fragmented data sources cripple decision-making. The SIMS Data Management System (DMS) enforces a single enterprise data architecture, eliminating duplication and ensuring that every stakeholder is operating from the exact same reality.



Continuous Integrity Management

Managing asset integrity extends far beyond inspection; it dictates the entire lifecycle of the structure. Our Asset Integrity Management System (AIMS) ensures fitness for purpose while remaining strictly compliant with global industry standards.

1. Data

Centralized management system for the archive and retrieval of records.



2. Evaluation

Assessing structural integrity, determining fitness for purpose, and developing remedial action.

3. Strategy

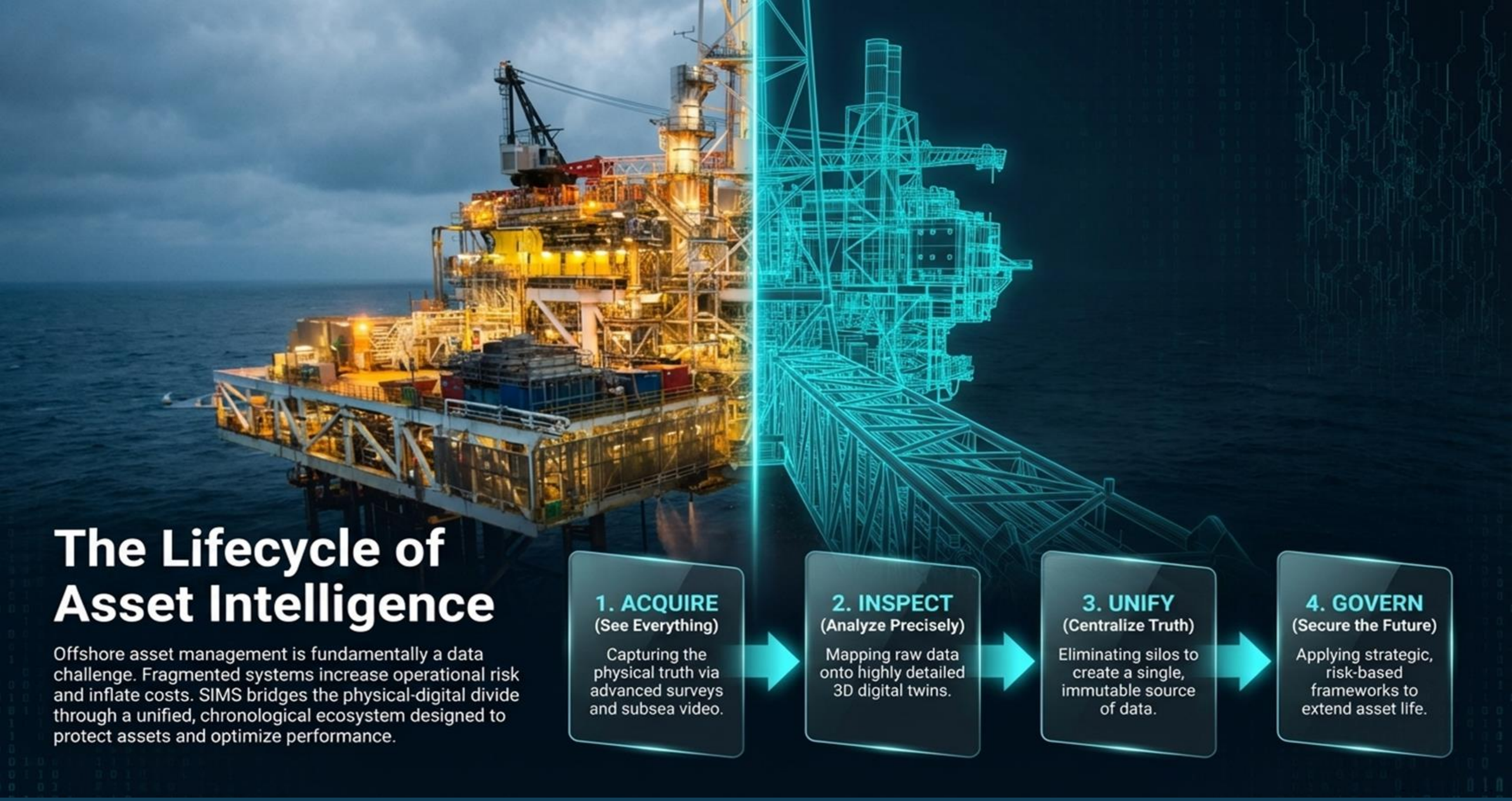
Establishing the philosophy, criteria, and framework for future intervention.

4. Program

Creating detailed work scopes to obtain quality data and execute repairs.

Regulatory Foundation

Built strictly upon API RP 2A-WSD, API RP 2SIM, and API 1178_E1 frameworks.



The Lifecycle of Asset Intelligence

Offshore asset management is fundamentally a data challenge. Fragmented systems increase operational risk and inflate costs. SIMS bridges the physical-digital divide through a unified, chronological ecosystem designed to protect assets and optimize performance.

1. ACQUIRE
(See Everything)

Capturing the physical truth via advanced surveys and subsea video.

2. INSPECT
(Analyze Precisely)

Mapping raw data onto highly detailed 3D digital twins.

3. UNIFY
(Centralize Truth)

Eliminating silos to create a single, immutable source of data.

4. GOVERN
(Secure the Future)

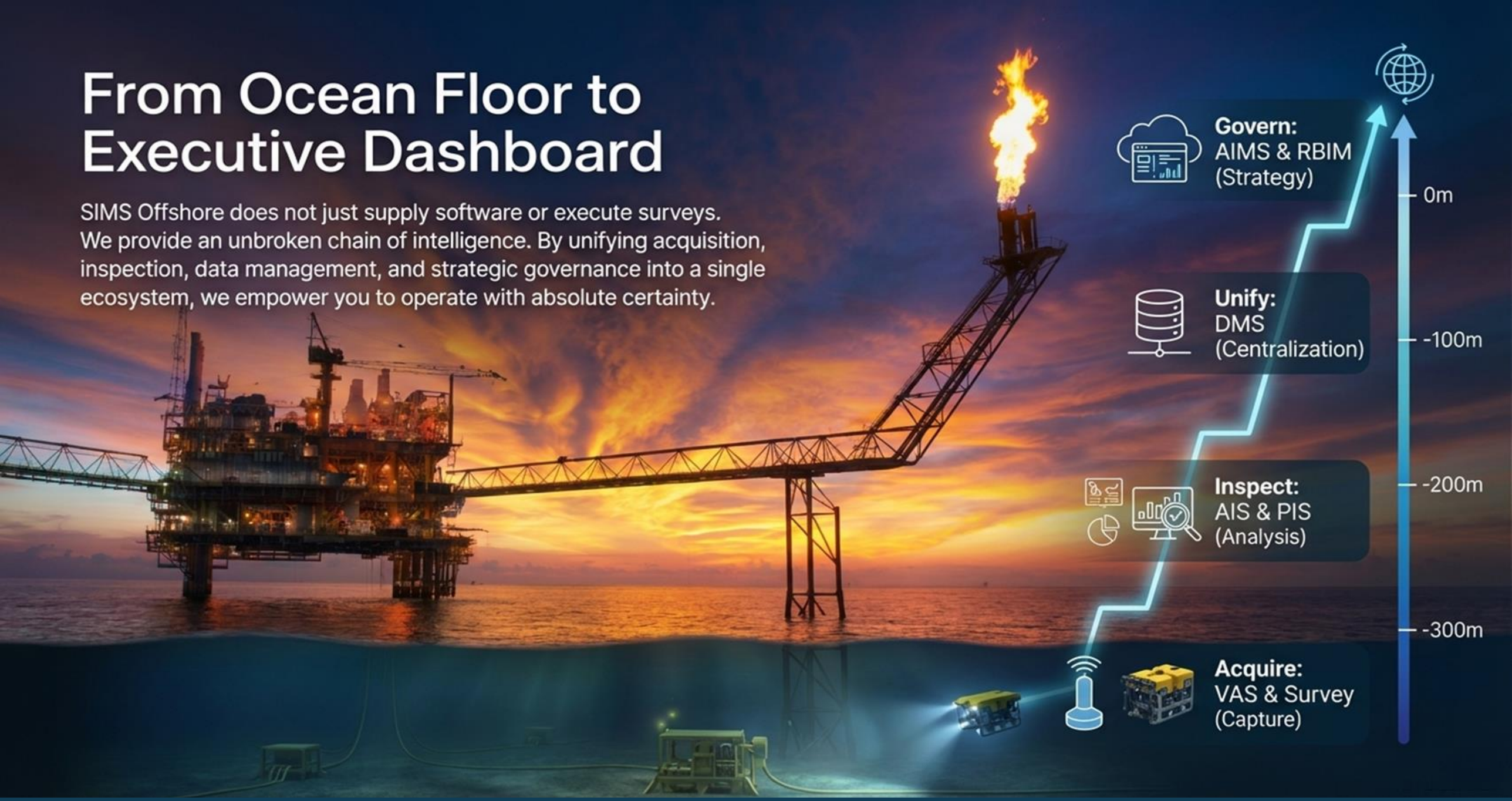
Applying strategic, risk-based frameworks to extend asset life.

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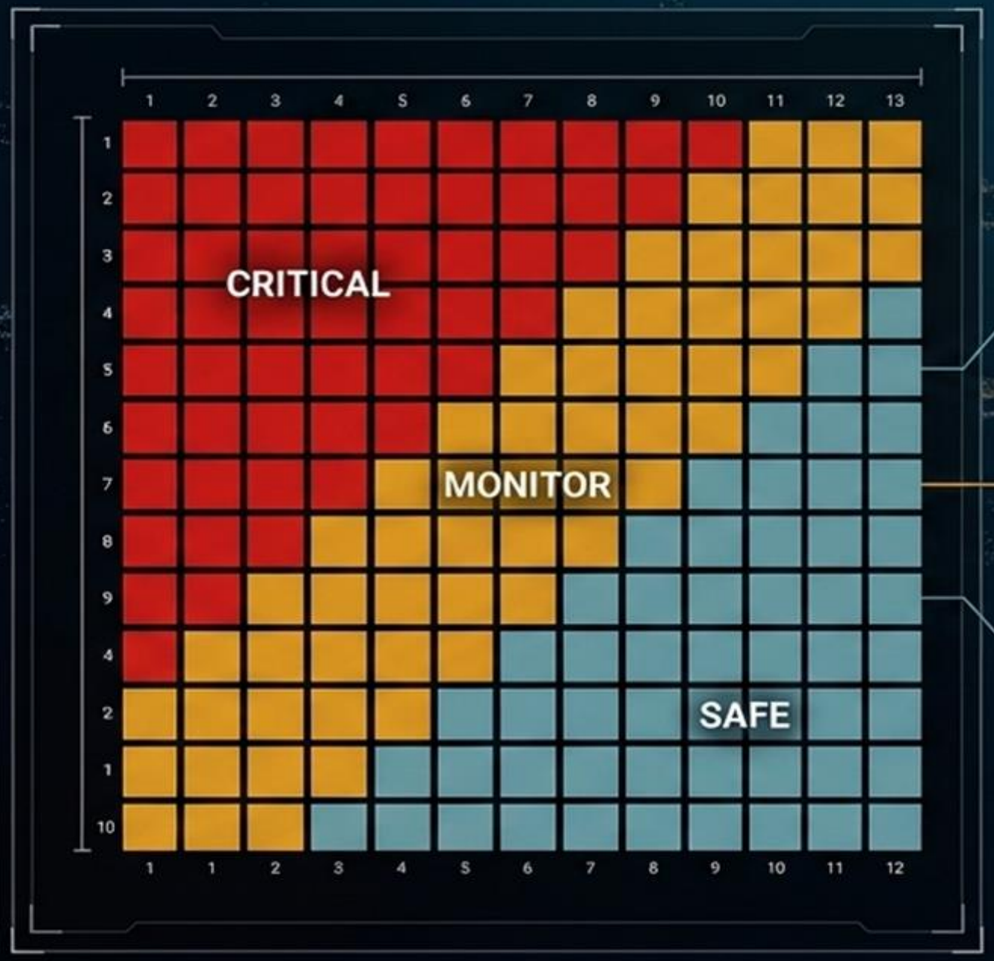
Risk-Based Precision

We align inspection planning directly with client budgetary criteria and risk tolerance. By executing Risk-Based Integrity Management (RBIM) strategies, we deploy resources strictly where they are needed most.



DEPTH
-13.3 km

ATMSPPRS
18.23 kPn



ONE TRUSTED SOURCE

Eradicating duplication across data sources.

ANOMALY TRACKING

Full lifecycle tracking from anomaly identification to remedial action.

BUDGET ESTIMATION

Direct integration with IMR budgeting.

Global Infrastructure & Human Expertise

SIMS Data Center Services

Utilized in remote inspection projects to provide remote online and data acquisition stations, ensuring secure and seamless unified data delivery directly into enterprise CMMS.



World-Class Personnel

Providing highly trained specialists worldwide, including:

- Party Chiefs
- 3.4U Inspection Coordinators & Engineers
- Reports Writers
- Data Processors
- CP Personnel

Global Reach.
Subsea Mastery.

Operations:
Egypt (New Giza) | UAE (Dubai Silicon Oasis) | USA (Lewes, DE).

Quality Standard:
ISO 9001:2015 Certified.



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