



NeoSight: an innovative asset integrity management platform

Developed to enable operators to save costs, enhance operability and extend the life of their assets, Stress Engineering Services' new innovation, NeoSight, is the product of engineering knowledge acquired and refined over 20 years of proven operations.

The new and advanced asset integrity management platform incorporates hindsight, insight and foresight into its evaluations, for a range of industries and applications. Leveraging and supplementing new or existing digitalization efforts, the NeoSight platform integrates directly with existing business systems in real-time or near real-time - reducing the time to action from days, or months, to minutes.

What is NeoSight?

NeoSight is an automated standalone integrity management system, which enables data to be gathered from existing instrumentation to create digital models that provide a holistic representation of asset response, including fatigue. NeoSight's integrated models create 'virtual sensors' to let you see the performance of critical components regardless of sensor coverage or availability, giving you a more comprehensive picture of your deepwater operations and alerting you to potential problems before they arise.



The NeoSight Advantage

NeoSight benefits your everyday operations by:

- Supporting Tie-back & Expansion Projects
- Enabling Real-Time Data Retrieval
- Supporting Life Extension Efforts
- Supporting Regulatory Compliance
- Reducing Non-Productive Time
- Reducing Inspection & Maintenance Demands

NeoSight works with all major OEM systems to reduce OPEX and CAPEX by creating a real-time monitoring system that reduces risk, increases revenue, enhances regulatory compliance and maximizes the life of existing assets.

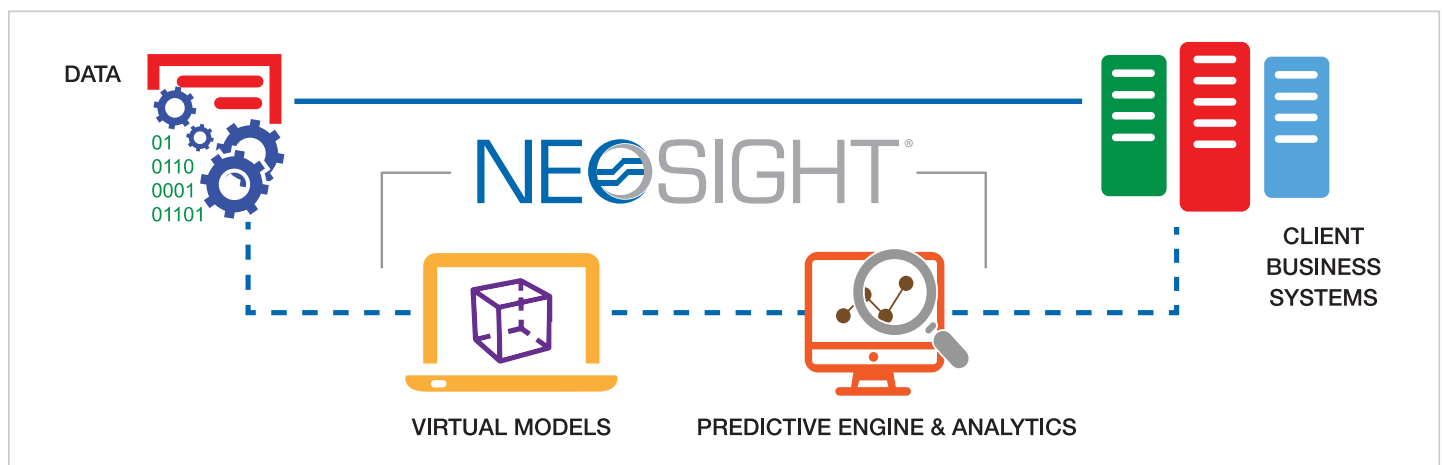
How it works

NeoSight fills the gap in integrity management programs by automating the link between data and models – enabling, for the first time, a continuous evaluation of the system of interest.

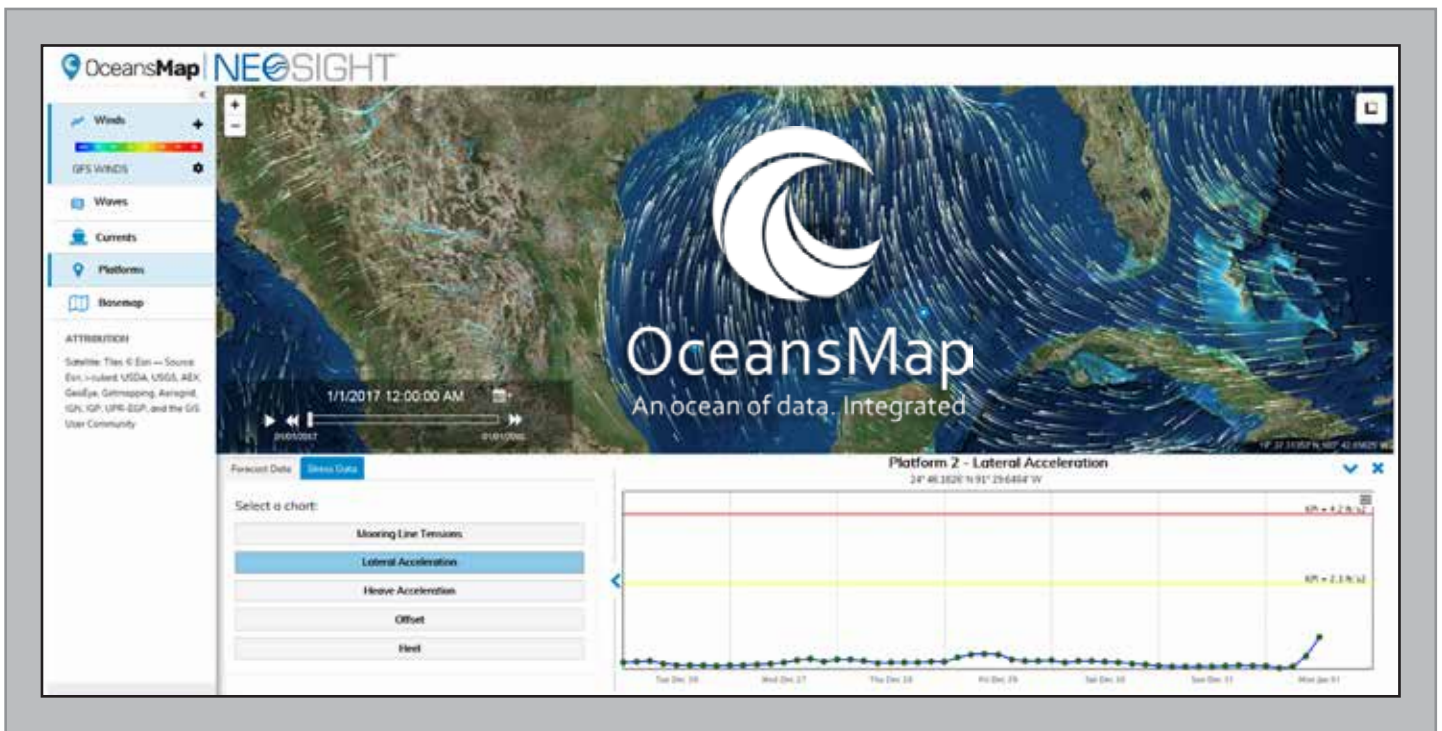
While other systems simply monitor measured responses to diagnose problems, NeoSight harnesses a deep understanding of the fundamental physics of the systems, their failure modes and other asset nuances, to provide a more complete analysis to support decision-making.

The digital twin model

A physics-based digital twin model is built into each NeoSight tool, which accurately simulates asset response. These digital twin models, based on reliable, field-data-validated and industry-approved technology, allow for the integration of inspection, analysis and measured data, delivering previously unavailable insights into asset behavior.



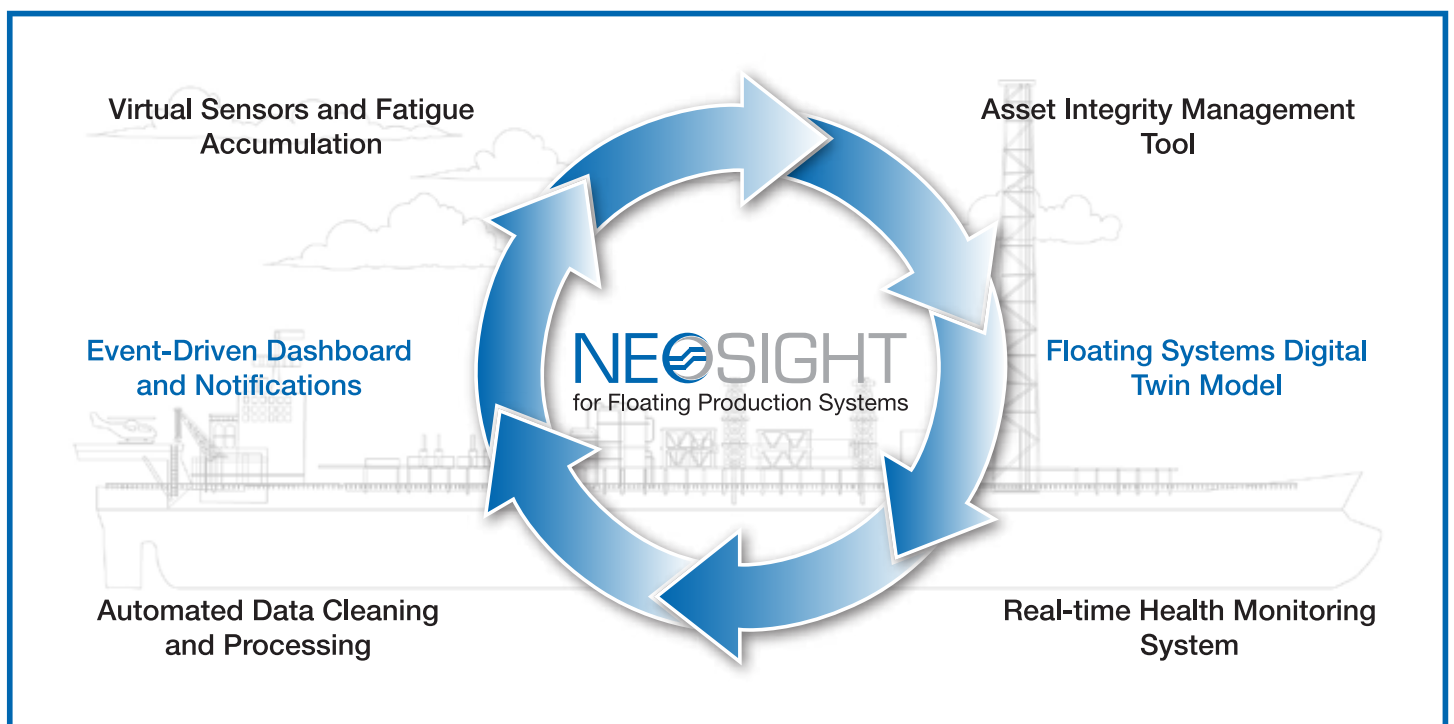
NeoSight fills a gap in integrity management programs by automating the link between data and models and allowing for a continuous evaluation of the system of interest.



Dynamic Forecasting with RPS OceansMap

The integration of the RPS OceansMap data management system with Neosight provides a comprehensive platform that actively monitors the health of critical marine components for floating offshore drilling / production facilities while taking into account environmental data, including both real-time observations and lateral and model forecasts.

OceansMap and NeoSight's integrated AIM provides offshore facilities the ability to stay on target by providing better forecasting tools backed by a proven digital twin, physics based analytical model.



Why choose NeoSight?

Whereas other systems simply monitor measured responses to diagnose problems, NeoSight also models the physics of the systems to understand what is causing the responses and make future predictions. By understanding the underlying physics of the systems, their failure modes and other nuances of these assets, NeoSight can provide a more comprehensive analysis to support your decision-making.

NEOSIGHT [®] for Floating Production Systems	VS	Traditional Data Systems
Automated	Data Cleaning	Manual to Semi-Automated
Automated	Sensor Functionality Notification	Periodic Reports
Automated	KPI Exceedance Notification	Periodic Reports
✓	Integrated Model (Digital Twin)	✗
✓	Virtual Fatigue Monitoring	✗
✓	Predictive Forecasting	✗

NeoSight enables you to be more efficient in your operations maintenance and planning, providing you with significant opportunities to save costs and extend the life of your production facilities.

The physics-based models leveraged by NeoSight-FPS are based on the same reliable, field-data-validated, and industry approved technology that Stress Engineering Services has employed for decades.

NEOSIGHT-FPS Features

- Automated sensor health and key performance indicators (KPI) detection
- Increased tie-back and expansion potential
- Continued service/life extension support
- Reducing inspection/maintenance intervals
- Fault detection
- Regulatory compliance/exceedance
- Reduced instrumentation needs

NEOSIGHT-FPS Benefits

- Supports Tie-back and Expansion Projects
- Real-time Data Retrieval
- Reduce Inspection & Maintenance Demands (CBM & RBI)
- Supports Life Extension Efforts
- Supports Regulatory Compliance
- Reduces Non-productive Time



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