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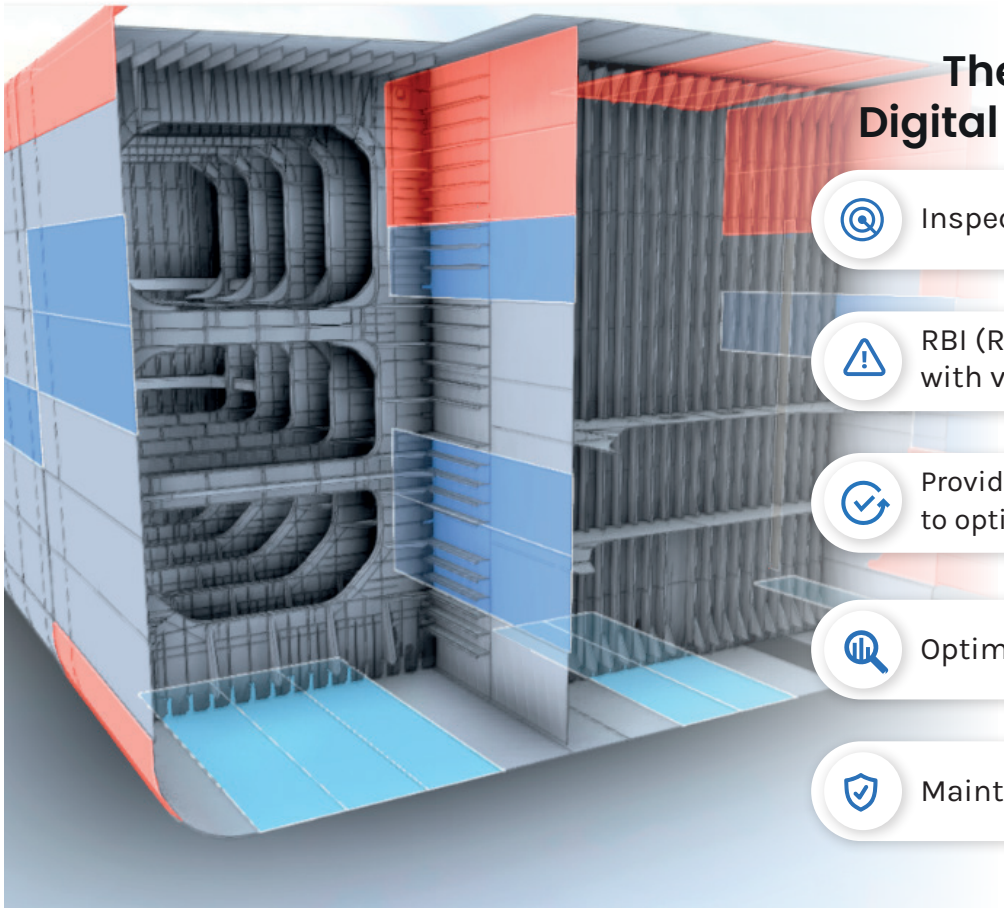
Naval Digital Tracking application

Transforming Hull Historical Data into Engineering outputs

The solution provides **precise activity planning** to ensure the structural integrity of the **internal hull.** It delivers the necessary data to support engineering analysis by the structural integrity team, inspection plans, maintenance actions and evaluation by the class society, resulting in: **fewer corrective actions, greater efficiency and safety within a single system.**

OUR COMPANY IS TRUSTED BY: equinor MODEC ocyan PETROBRAS altera slb

Targeted to: Marine Vessels I FPSO I Internal Hull (Tanks)



The impact of the Naval Digital Tracking application

- Inspection plans reports optimization
- RBI (Risk Based Inspection) support with visualization of critical areas
- Provide accurate data for class society to optimize inspection campaigns
- Optimization in Inspection Intervals
- Maintenance actions support

vidyatec.com Vidya Technology sales@vidyatec.com

How the Naval Digital Tracking deliver results in just 60 days

1. Historical Data & Reports Gathering
2. Data Engineering
3. Data Contextualization
4. Thickness Loss History Mapping on 3D

OUTPUTS

- Structural Analysis with anomalies detection
- Management of hull historical data and traceability of new inspections
- Loss of thickness and corrosion prediction models
- Visual models to identify critical regions for integrity

Successful Customer Case

FPSO | Tank | 2,600 plates | 47 years old

Challenges

- Structural integrity data diffused on multiple reports, and engineering drawing
- Health, Safety, and Environment (HSE) risks as a consequence of structural problems (leaks, accidents, and shutdowns).
- Obstacles on viewing, locating, mapping, and quantifying anomalies, critical areas, and repairs to fulfill structural protection
- Data management, inspections, and repairs carried out in non-intuitive generalist systems.

Results

- Inspection plan reports optimization
- RBI (Risk-based inspection) support with visualization of critical areas
- Analysis model for thickness loss and corrosion with more than 66,400 measurement points mapped
- +60 PDF documents processed and contextualized in a single system for a streamlined structural integrity management process.

Discover why leading industries trust our expertise

We are here to help: contact us and we'll work with you to find the best solution for your naval digital tracking.

vidyatec.com
Vidya Technology
sales@vidyatec.com