

Hull Condition Monitoring (HCM)

Digitizing the Complete Hull Condition Lifecycle

Inspect. Assess. Repair. Refit. Preserve.

A secure, structured decision-support platform for managing Hull structural condition throughout the vessel lifecycle.

CLASS-ALIGNED 

OFFLINE DEPLOYABLE 

BUILT FOR MARITIME OPERATIONS 

Proven. Class-aligned. Deployable. Built specifically for Hull lifecycle management.

One Platform.

The Complete Hull Condition Workflow.

Structured capabilities across inspection, repair, refit and lifecycle traceability.



Ship Portfolio

Maintain structured vessel, compartment, hull-member and deferred-member information.



Inspection Management

Plan inspections, capture structural observations and thickness measurements, and maintain controlled workflows.



Excel-Enabled Data Capture

Import structured inspection and thickness information using familiar Excel-based processes.



Historical Thickness Records

Preserve previous measurements to support future comparison, survey and engineering assessment.



Deferred Members

Keep unresolved structural members visible and traceable across inspections and refits.



Refit Management

Convert inspection findings into structured repair and refit records.



BOM & Steel Weight

Support repair-material planning with steel quantity and weight calculations.



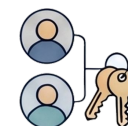
Certificate of Repairs

Generate structured repair-completion documentation following the refit workflow.



Documents Audit Trail

Maintain supporting documents together with Activity Logs, System Logs and user-level traceability.



Role-Based Access

Control system access according to defined responsibilities such as Captain, HOD, Officer, Sailor and Administrator.

A unified workflow that connects data, people and decisions
for safer operations, smarter maintenance and extended asset life.

Hull Condition Information Should Not Disappear into Spreadsheets, Survey Reports and Dry-Dock Files.

Throughout a vessel's lifecycle, structural information is generated through inspections, thickness measurements, survey reports, repairs refits, dry-dock activities and engineering records. When this information is fragmented, technical teams spend valuable time reconstructing the vessel's history instead of acting on it.

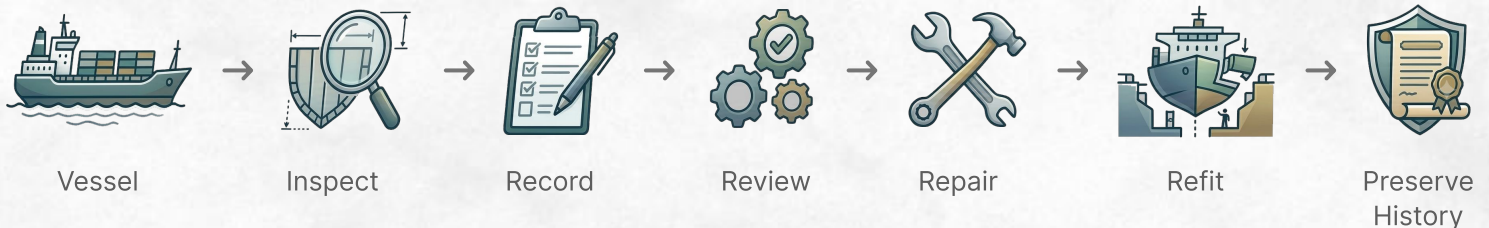
When the Next Inspection or Refit Begins, Can Your Team Immediately Answer:

- What was the previous thickness at this location?
- Was this structural member repaired earlier?
- Which members remain deferred?
- What was completed during the previous refit?
- What repair materials may be required?
- Where are the relevant supporting documents?
- Who entered, reviewed and approved the information?



Creates One Structured Digital Hull History.

effiTPM HCM connects inspections, measurements, structural members, deferred items, repairs, refits and documents into a continuously maintained digital record.



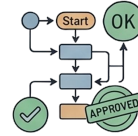
One Vessel. One Structured History. One Trusted Source of Reference.

Built for the Realities of Maritime Operations



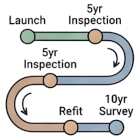
Compliance & Auditability

Structured workflows, controlled approvals, historical records and audit trails supporting class-oriented operational discipline.



Operational Discipline

Standardize how structural information is captured, reviewed, approved, repaired and preserved.



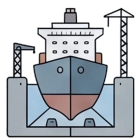
Lifecycle Visibility

Maintain the history of inspections, thickness measurements, deferred members, repairs and refits throughout the vessel lifecycle.



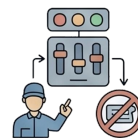
Secure & Offline Capable

Docker-based local deployment supports offline and air-gapped environments where cloud connectivity may be unavailable or restricted.



Dry-Dock & Refit Readiness

Bring historical condition information, identified repair requirements and material planning together before the vessel enters refit.



Human-in-the-Loop by Design

effiTPM HCM supports technical decision-making but does not autonomously control machinery, vessel systems or operations. All operational decisions remain with authorised personnel.

“A vessel may undergo many inspections, repairs and refits during its lifetime. Its structural history should remain one continuous record.”

effiTPM Marine - Hull Condition Monitoring

- Structured Hull Information.
- Controlled Workflows.
- Lifecycle Traceability.



Request a Demonstration



Schedule a Technical Discussion



Enquire about IRS-Aligned Deployment



Built Proudly in India



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