

## *Our AIM: To Enhance Your Asset Integrity Management System*

Zebec Marine Consultants & Services offers Asset Integrity Management Services (A.I.M.) to Evaluate, Analyze and Report conditions affecting the integrity of the vessel due to Corrosion / Strength / Fatigue. The results of these reports can be utilized to optimize the extent of inspections carried out on board your vessel.

In addition, these reports can also be utilized to strategize and plan steel repair and renewals for dry-docking and for the vessel's Enhance Survey Program (ESP).

The Asset Integrity study is carried out using the following BV and Formation Systems 'Class Approved Software' in our possession;

- VeriSTAR
- NSO (New Strudl Offshore)
- Maxsurf
- HydroSTAR
- Isymost

Detailed outputs of affected structural members are extruded using Class approved ShipConstructor software. Reports are generated in 'simple-to-follow' formats.

Clients can choose from different modules on offer, to suit their Technical and Commercial requirements.

### Modules on offer:

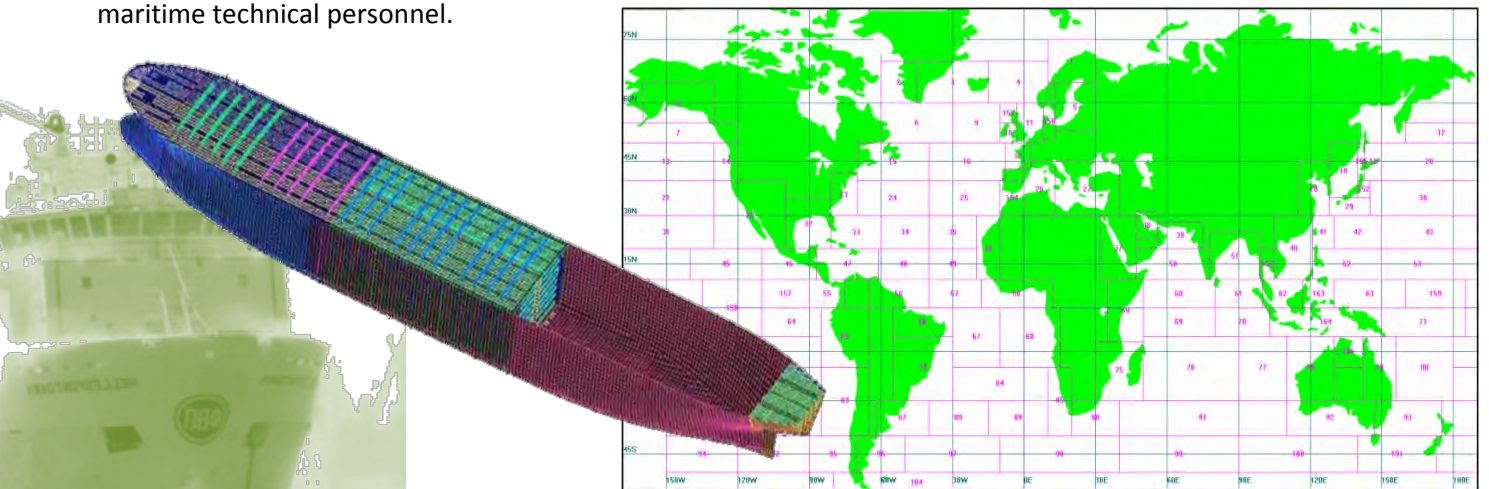
- A.I.M. study for a 1 year period covering the vessel's Annual Survey.
- A.I.M. study for a period extending to the vessel's Intermediate Survey.
- A.I.M. study for a period extending to the vessel's Renewal Survey.

The service is performed by a multidisciplinary team of industry certified Naval Architects, Design Engineers, Software and Documentation personnel and other maritime technical personnel.

### Business Advantages:

- Most Class and Statutory requirements are prescriptive – however, an AIM program assists you to obtain a predictive picture of your asset (vessel) for avoiding any possible **Catastrophic Failure**
- Process condition data to help you **Plan Proactively** steel renewals with detailed Bill of Materials and detailed production drawings for your next Dry-docking steel renewals rather than reactively inspect and assess the same just before or in the dry dock itself.
- AIM results indicate approaching **Fatigue failures**.
- One of the outputs is a "**Risk Based Inspections Plan**" rather than the traditional "Time based" inspections.

***An AIM study therefore helps you to make Better Business Decisions and Planning.***



## We can :

“Model” your vessel ”and keep it ready for any AIM or related services

Generate Files for Strength and Buckling, Fatigue and Fine Mesh/Sub-grid modeling & Analysis for hot spots areas

Perform

- ✓ Strength Calculations
- ✓ Corrosion Calculations
- ✓ Fatigue Calculations

Prepare and submit reports for your records and necessary action as applicable

- ✓ Corrosion report
- ✓ Hydrodynamic report
- ✓ Strength & Buckling report
- ✓ Fatigue Report
- ✓ Risk based Inspection report
- ✓ Repair methodology report
- ✓ Project overview report

Prepare and submit drawings and documentation for Nesting diagrams, Bill of materials, for planning and executing repairs and renewals

Suggest inspection intervals based on the output of the asset integrity study (Risk Based Inspection Plan)

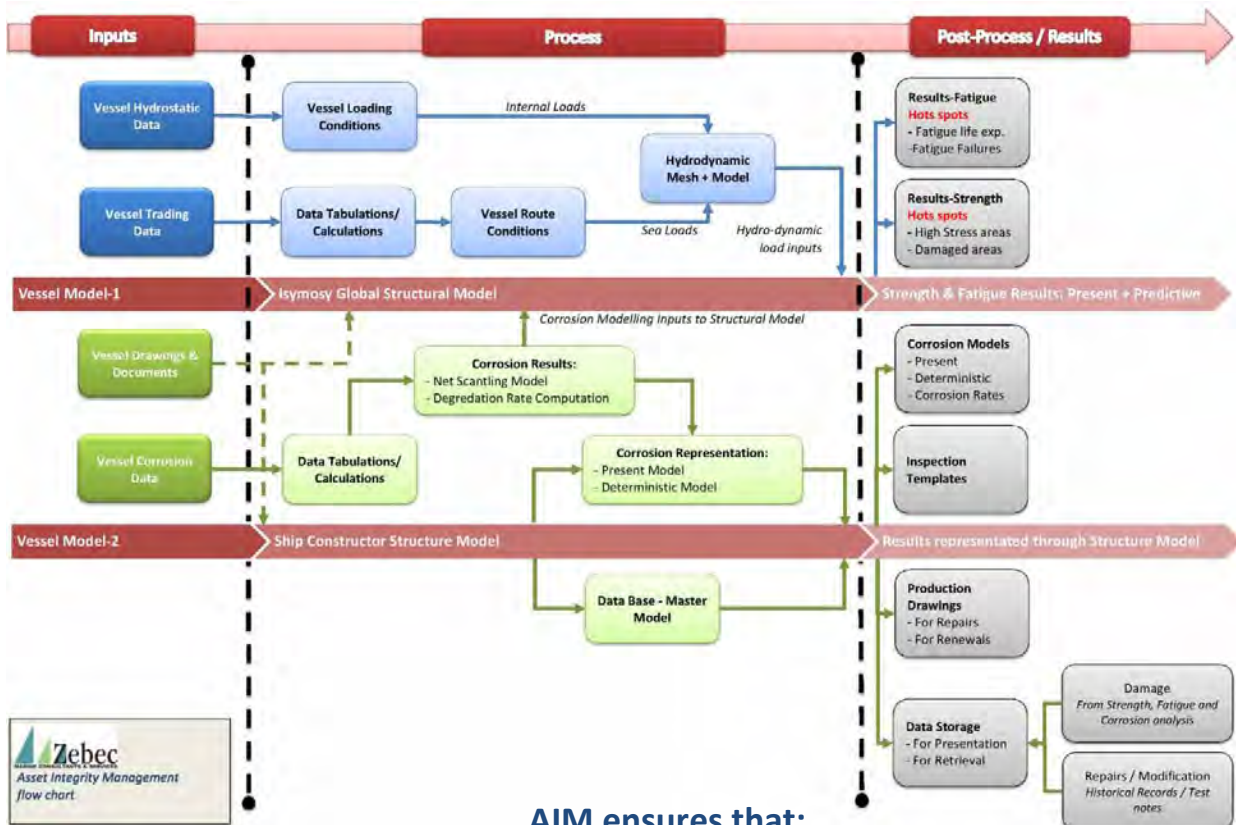
## Methodology:

- Data Collection and study
- Data tabulation, calculation, Modeling and Analysis
- Strength, Corrosion and Fatigue reports.
- Other reports as required
- Production drawings for repairs and renewals
- Risk Based Inspection Schedules

# Asset Integrity Management

## Your Companion for optimizing the Value and Performance of your Asset

## Process Flow:



**Contact us or E-mail us for your queries:**

India - Tel no: +91-22-30205000 / Singapore - Tel no: +65-62- 253579 / E-mail: [zebec@zebecmarine.com](mailto:zebec@zebecmarine.com)