



पत्तन, पोत परिवहन
एवं जलमार्ग मंत्रालय
MINISTRY OF
PORTS, SHIPPING
AND WATERWAYS

Technology in Maritime 2020

Digital Transformation in Maritime Governance



Directorate General of Maritime Administration

01st October 2026 | Mumbai

India's Maritime Vision & Blue Economy



INDIA TODAY

95%

of trade by volume

65%

of trade by value

12 | 200+

major | non-major ports

11,098 km

India's coastline

MARITIME INDIA VISION 2030

TOP 10

shipbuilding & repair

>60%

renewable energy at Major Ports

#1

ship recycling (Achieved)

>20%

global seafarer share

<20h | <40h

vessel turnaround | container dwell

MARITIME AMRIT KAAL VISION 2047

TOP 5

shipbuilding & repair

#1

ship recycling (Achieved)

20-30%

support for green & retrofitted vessels

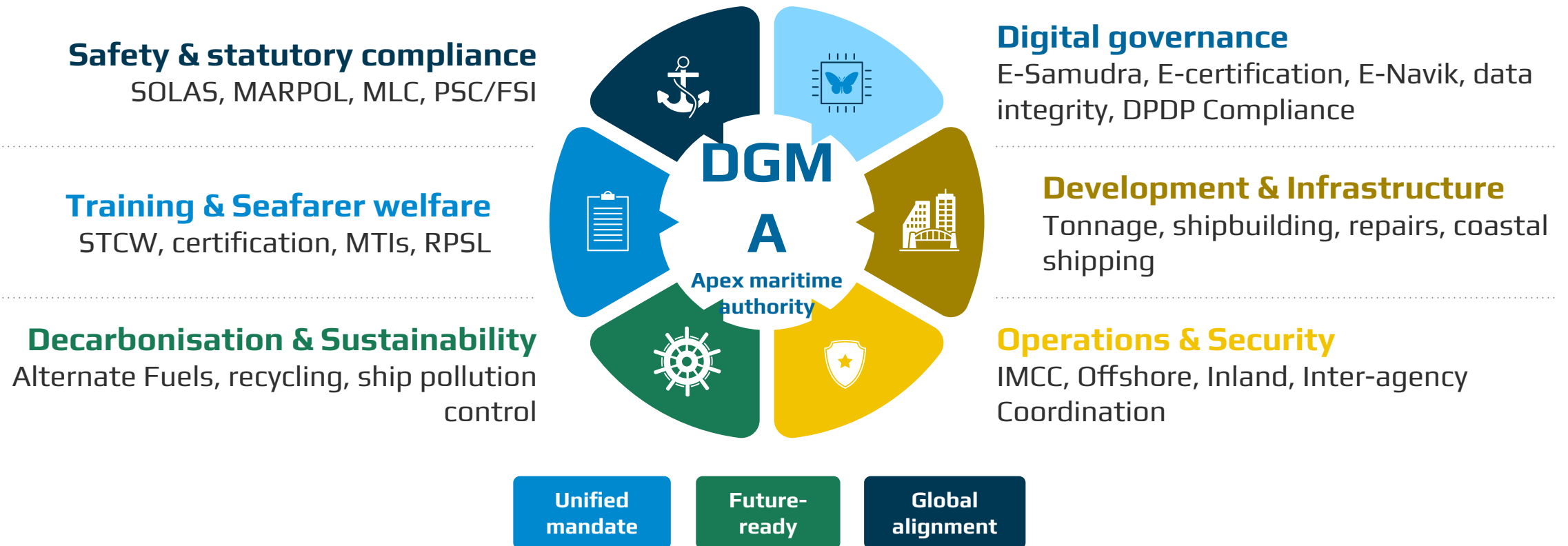
300+ | 11

strategic initiatives | focus areas

DGS to DGMA Transition



The proposed redesignation & restructuring aligns with the objectives of **Maritime India Vision 2030** and **Amrit Kaal Vision 2047**, while supporting India's expanding role in global maritime forums such as **IMO, ILO, and UNFCCC**. It aims to enhance functional clarity, strengthen inter-Wing collaboration, and improve stakeholder engagement to effectively address emerging priorities including sustainability, climate change, automation, and maritime digitization.



4 key Pillars of GOI's ambition to turbocharge ship building with total outlay of \$ 7.7 Bn



**\$ 2.7
Bn**

Shipbuilding Financial Assistance scheme

(Shipbreaking Credit
Note – \$ 0.44 Bn)

**\$ 2.8
Bn**

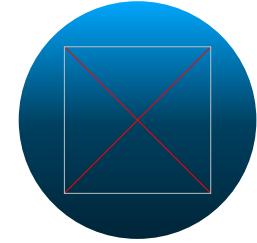
Maritime Development Fund

(Maritime Investment
Fund – \$ 2.22 Bn
Interest Incentivization
Fund – \$ 0.56 Bn)

**\$ 2.2
Bn**

Shipbuilding Development Scheme

(Capacity & capability
development and
credit risk coverage)



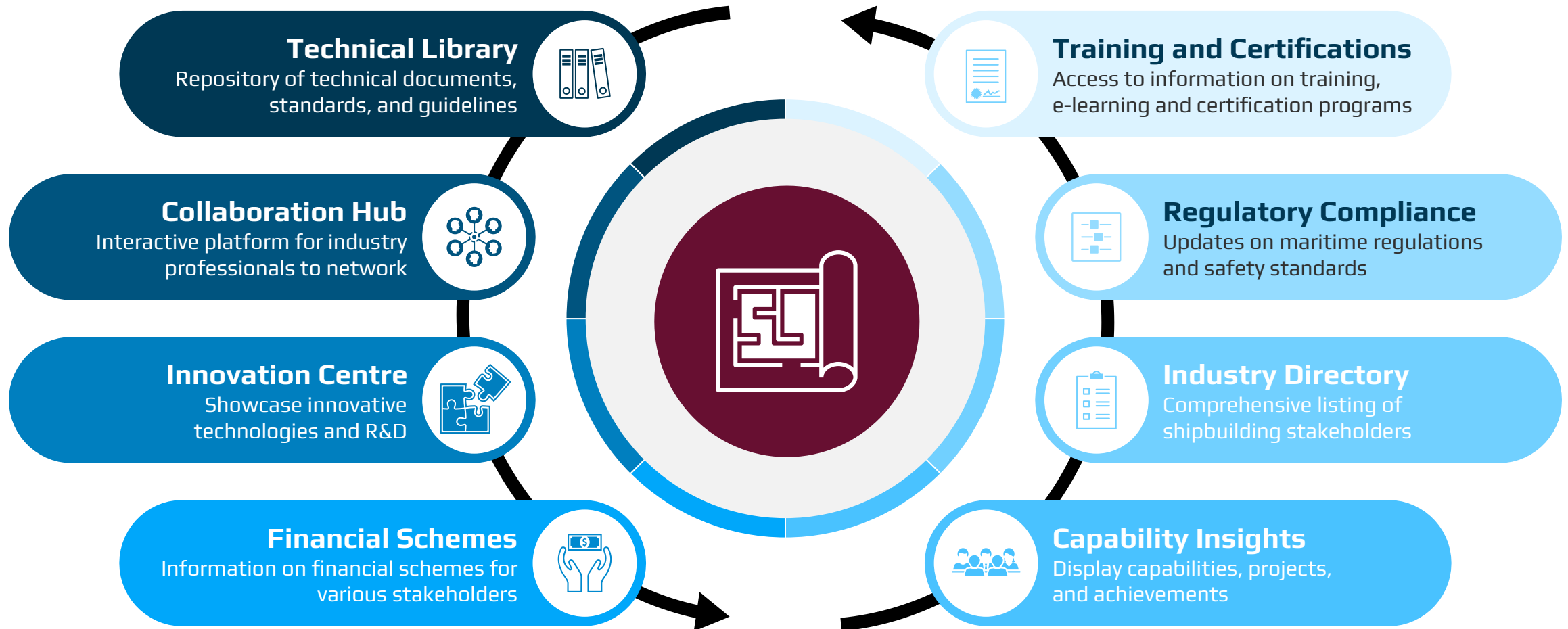
Legal, Policy and Process Reforms

(Customs exemptions, Right
of first refusal, flagging
reforms and others)

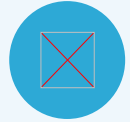


Comprehensive Shipbuilding Portal

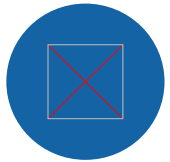
To enhance efficiency, transparency, and competitiveness while fostering growth and sustainability across the sector.



Swachh Sagar Portal

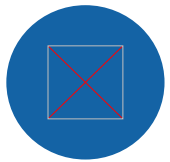


A digital platform of the Directorate General of Maritime Administration strengthening marine environmental protection through transparent, data-driven monitoring and compliance.



PORT RECEPTION FACILITIES

Captures mandatory ship-generated waste inventory data, supporting MARPOL compliance and pollution prevention.



BUNKER SUPPLIER & E-BDN

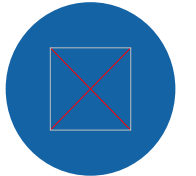
Maintains approved supplier records and enables digital bunker delivery note management.



Swachh Sagar Portal

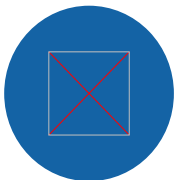
BALLAST WATER REPORTING

Collects operational and technical BWMS data to support experience-building and compliance programmes.



SINGLE-USE PLASTIC REPORTING

Enables SEP preparation, onboard plastic tracking, and usage and disposal reporting.

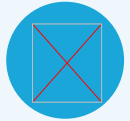


**CLEANER SEAS
SMARTER COMPLIANCE**

Supports India's adherence to IMO conventions and promotes sustainable maritime practices.



SHIP RECYCLING PORTAL



Ship Recycling platform under DGMA to implement the Hong Kong Convention and the Recycling of Ships Act, 2019, enabling real-time, transparent and accountable governance of India's ship recycling ecosystem.

WHY THE PORTAL MATTERS



Transparency

Digitally traceable inspections, certifications and audits



Accountability

Role-based actions with time-stamped compliance trails



Real-time Monitoring

Central oversight by DGMA and State Authorities



Global Credibility

Auditable records for IMO, flag States and shipowners



Stakeholder Integration

Connects DGMA, GMB, ROs, yards and service suppliers

CORE FUNCTIONAL MODULES



Yard Registration & Licensing



RRC Certification Registry



Inspection, Audit & ISO Compliance Tracking



Worker Training & Competency Records



Inventory of Hazardous Materials



SRP Submission & Approval



Incident & Non-Conformity Reporting



GISIS / IMO Reporting Integration



ISO 9001
Quality Management System
(QMS)



ISO 14001
Environmental Management System
(EMS)



ISO 30000
Ship Recycling Management System
(RSMS)



ISO 45001
Occupational Health & Safety
Management System

Maritime Security Incidents Across Key High-Risk Regions

Black Sea Region

28 Total Incidents

05 Fatalities

06 Injuries

02 Missing (SAR Operations ongoing)

Total fatalities – 16

Total injuries – 19

Total Missing – 03

Red Sea Region

05 Total Incidents

Piracy Incidents in Gulf of Aden Region

07 Total Incidents

04 Currently in captivity

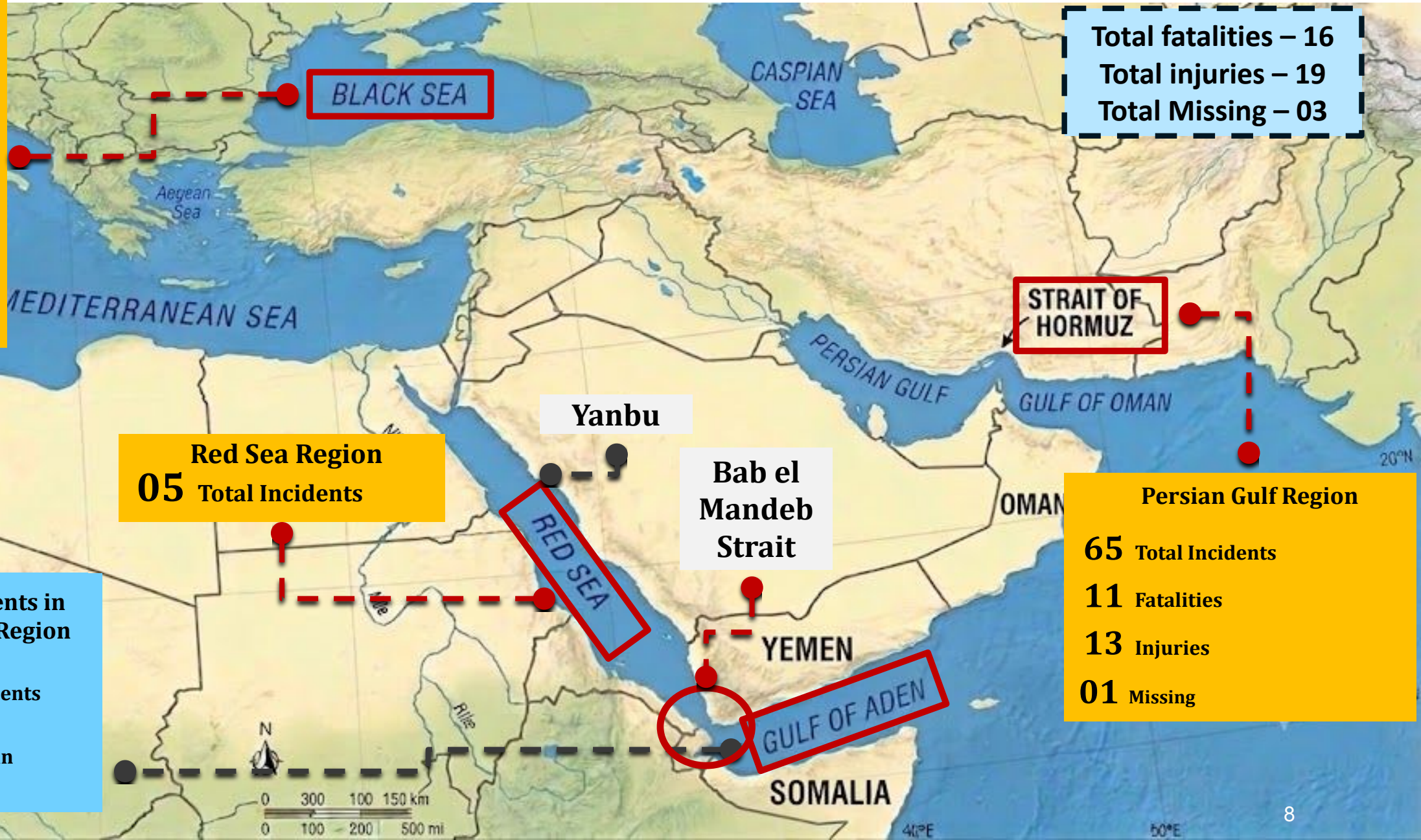
Persian Gulf Region

65 Total Incidents

11 Fatalities

13 Injuries

01 Missing





Seafaring Ecosystem | e-Navik Seafarer Tracking Dashboard

Aims to maintain a global tracking database of Indian seafarers and enable coordinated assistance before, during and after a crisis.

LINK: <https://beta-enavik.dgma.gov.in/enavik/seafarer-monitoring/live-map>

Key Functions:

Track every Indian seafarer

Account for every Indian seafarer operating globally.

Vessel-by-Vessel Monitoring

Continuous monitoring of vessels carrying Indian seafarers.

Real-Time Dashboard

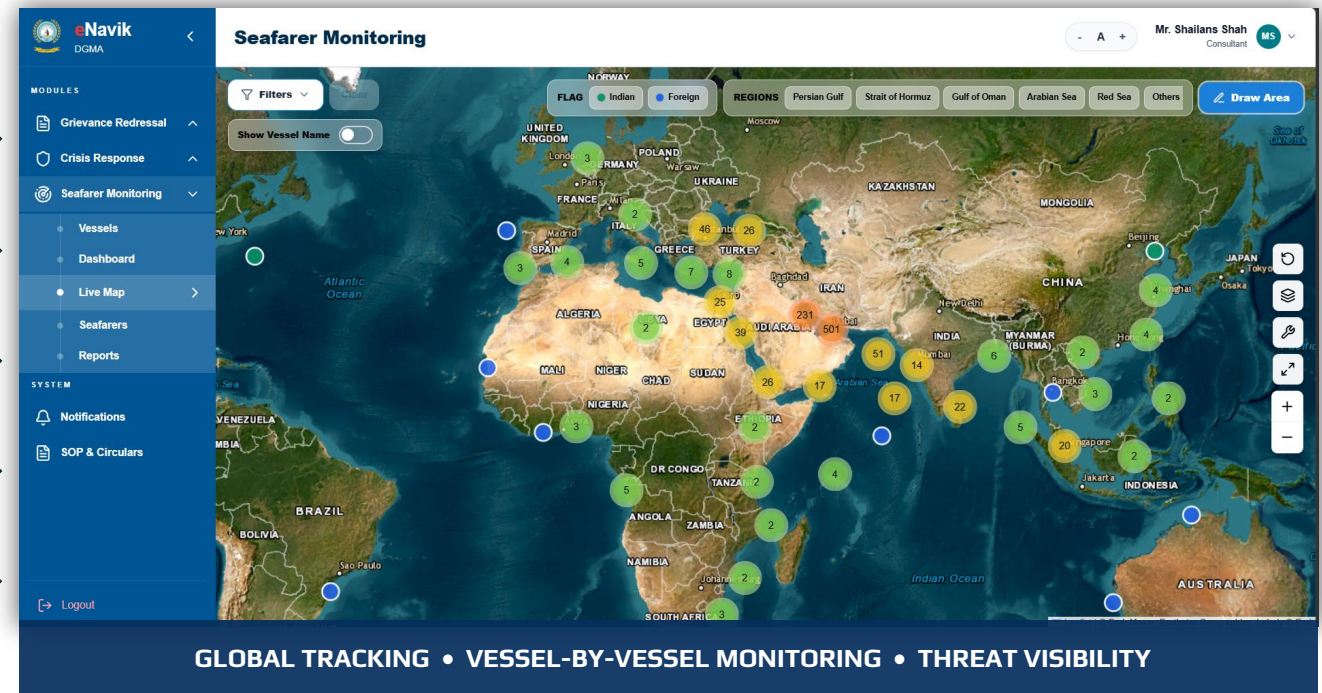
Dashboard for vessel tracking, voyage and threat monitoring

Crisis Response in Conflict Zones

Strengthen crisis response for Indian seafarers

Round-the-Clock Coordination

Ensure coordinated response among maritime stakeholders



A 24x7 safety net for Indian seafarers – before, during and after a crisis.

22

INR 10 Lac/- Compensation paid to families of Seafarers affected in high risk zones

19,354

calls monitored

52,873

emails handled

4,280

seafarers repatriated



Launch of e-Navik | 24x7 Grievance Redressal System

Launch of e-Navik 24X7 Grievance Redressal System

by Hon'ble Union Cabinet Minister Shri Sarbananda Sonowal

29th May 2026

8,692
TOTAL
GRIEVANCES

482
PENDING

157
QUERIED

6,818
RESOLVED

Growing Trust in DGMA's Digital Grievance Redressal System

More than **8,500** grievances received in just 120 days, surpassing **3,170** grievances recorded in all of 2025, reflecting growing seafarer trust and engagement with DGMA's grievance redressal system.



24x7 Seafarer Grievance Redressal System

Launched by Shri Sarbananda Sonowal at JNPA's 37th Anniversary Celebration

<https://beta-enavik.dgma.gov.in/enavik/welcome>

1800-889-7768
(Domestic toll free)

+1-888-988-0256
(International toll free)

enavik.24x7@gov.in
(Email)

+91-8655856830
(Whatsapp)



Crisis Response Module

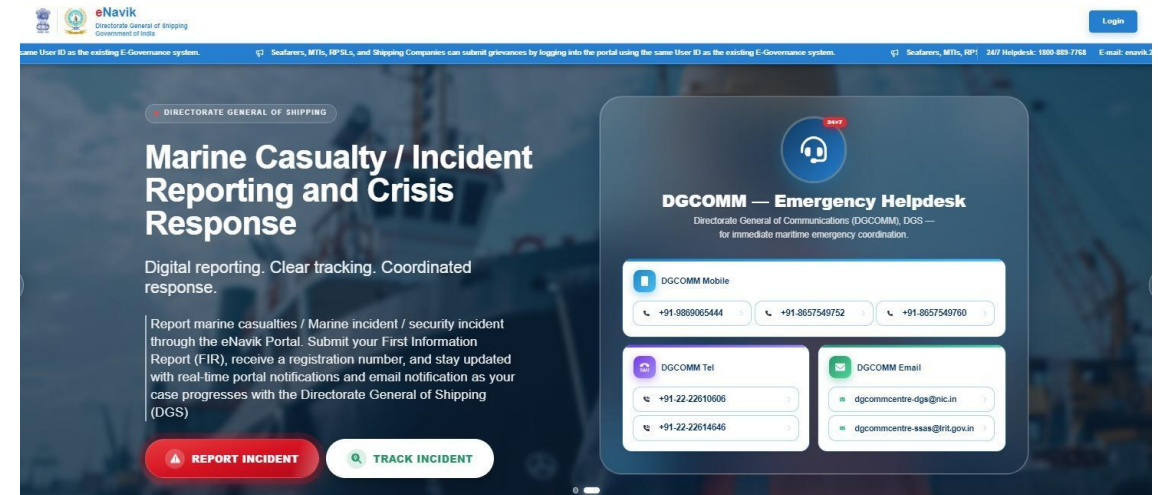
Aims to ensure a rapid, coordinated, and technology-enabled response to maritime crisis through an integrated digital platform.

Core Objectives

- ✓ Enable real-time reporting and tracking of maritime incidents.
- ✓ Facilitate coordination among multiple stakeholders (DGS, MoPSW, MEA, Navy, Coast Guard, etc.). Ensure incident management from initiation to resolution.
- ✓ Provide live updates, alerts, and analytics.
- ✓ Generate post-crisis reports for evaluation and policy improvement.

Key Enablers

- ✓ Digital incident reporting & categorization.
- ✓ Automated action plans with assigned tasks and deadlines.
- ✓ Resource mobilization tools for quick response.
- ✓ Real-time communication and discussion boards for stakeholder collaboration.
- ✓ Analytics dashboards with role-wise data and trends.



Interactive maps, charts, and status summaries

Real-time overview of ongoing incidents (type, location, severity)

Dashboard & Analytics

Reports & analytics filtered by incident type, department, and resolution time

Role-wise / department-wise tracking of incidents in progress and resolved



Recruitment & Placement Service License Module

Aims to strengthen transparency, compliance, and efficiency in Recruitment & Placement Service License (RPSL) operations through automation and digital integration.

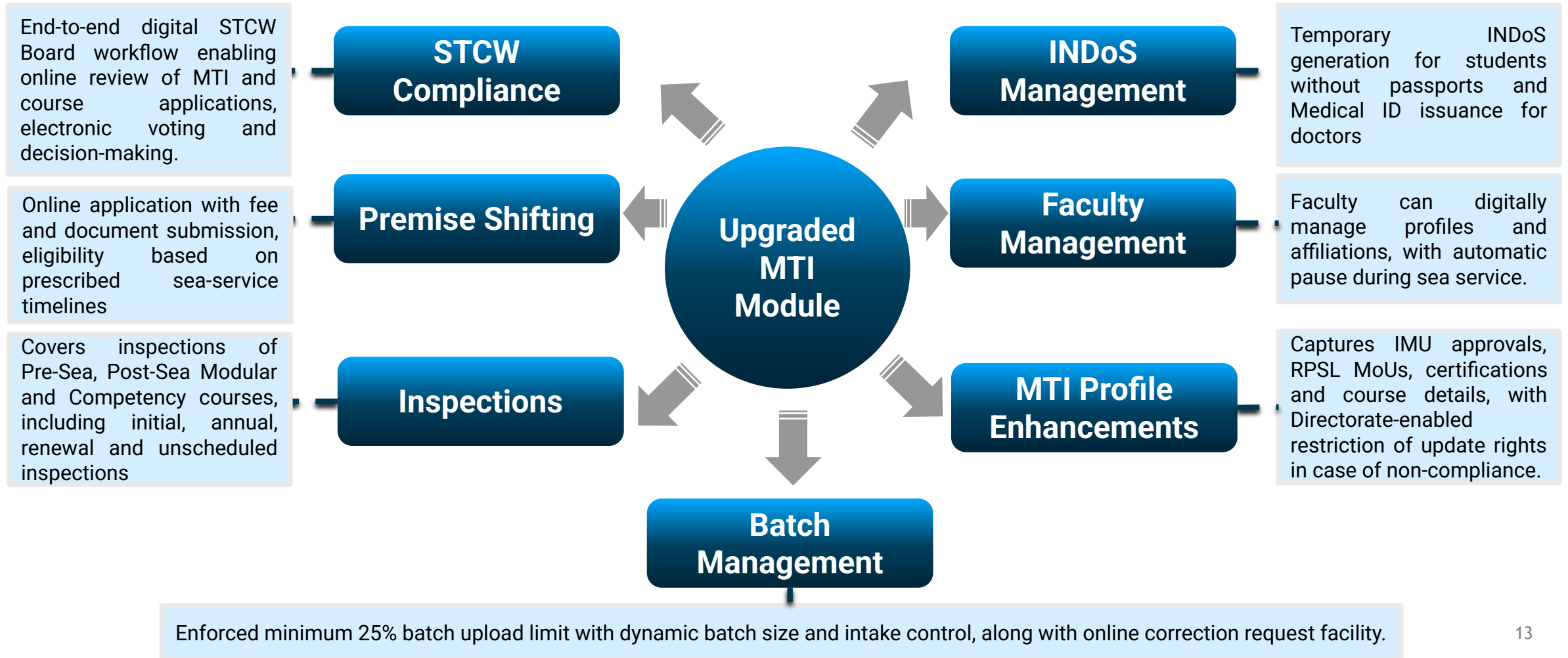
KEY FUNCTIONALITIES:

- | | | | | | |
|----|---|---|----|---|---|
| 1. | { | Comprehensive Inspection Program (CIP) | 5. | { | Non-RPSL License (Technicians) |
| 2. | { | MLC Board Integration | 6. | { | Appeal Management |
| 3. | { | Seafarer / Technician Sign-On/Offs | 7. | { | Change Requests & Contract Updates |
| 4. | { | Fee Payments & Bank Guarantees | 8. | { | Integration with MTI System |



Maritime Training Institute Module

Aims to enhance efficiency, compliance, and transparency in the Maritime Training Institutes (MTI) ecosystem through digital automation and seamless integration.





e-Samudra | Digital Transformation in Maritime Governance

e-Samudra is a unified digital platform for end-to-end maritime administration and service delivery.

FROM FRAGMENTED TO INTEGRATED

One Digital Ecosystem

- 1 End to End Digital Processes
- 2 Real-time Dashboard monitoring
- 3 Time-bound service delivery

UNIFIED
DIGITAL PLATFORM

DIGITAL SCALE

15

integrated modules

70+

processes & sub-processes

38

Services

achieved more than

50% TIME
REDUCTION

24

HOURS

End-to-end vessel registration through

Registration, mortgage creation and discharge complete the **same day – faster than Singapore.**

SERVICE DELIVERY IMPACT

69

services mapped for timeline review

16

services delivered within 24 hours

Compared with 2 services in 2018 delivered within 24 hours

VISIBLE TURNAROUND GAINS

Ship Registration	7 days →	24-hours
MTO recognition / renewal	20 days →	24 hours
INDoS correction	3 days →	24 hours

KEY BENEFITS

Faster approvals | Ease of Doing Business | Single-source data | Transparent workflows | Stronger regulatory oversight



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सत्यमेव जयते



Thank You

*"May the seas be
pathways of
prosperity"*