



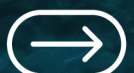
# SURGE MARINE

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Automating Empty  
Container Yard Operations

AI-ML & Meta Data

PAN INDIA



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# OVERVIEW

**Surge Marine Services Pvt Ltd** is a leading provider of marine & offshore support services for global companies. Catering to shipowners, operators & energy companies.

With a commitment to safety, efficiency & innovation, the company delivers high-quality maritime solutions tailored to client needs.

**SHIPPING LINES - MSC, OOCL, ASYAD**

## BACKGROUND

**Client:** Surge Marine Services Pvt Ltd

**Industry:** Logistics & Supply Chain

**Inception:** 2016

**Locations:** 16 Pan-India Yards

**Volume:** 10,000+ Containers/Month

**Product:** Empty Yard

The MSC logo consists of the letters 'm' and 'sc' in a bold, black, sans-serif font. The 'm' is positioned above the 'sc', and both are centered within a white square.The OOCL logo features the letters 'OOCL' in a bold, red, sans-serif font. To the left of the 'O's is a red circular icon containing a white stylized flower or star shape. The entire logo is set against a white square background.The ASYAD logo displays the letters 'ASYAD' in a bold, black, sans-serif font. Above the 'Y' is the Arabic word 'اسياد' in a smaller, black font. The logo is contained within a white square.

# PROBLEM STATEMENT



Absence of digital system for container inspections; reliance on paper-based processes.



Manual CODECO file generation increasing human dependence & errors leading to missing timelines & schedules.



MSC being major customer with unique process flow for repair with global standards.  
(WESTIM/DESTIM/REPAIR EDI) impacting reputation with shipping line & inventory errors as well delaying approvals.



Absence of real-time dashboards & visibility to management as well to ground staff on inventory, repairs & billings.

# APPROACH TOWARDS THE PROBLEM

## 1. Deep-Dive Requirement Analysis:

Conducted on-ground workshops with Surge Marine's operations team, surveyors & estimators to map pain points.

### Identified critical gaps:

manual surveys, EDI delays, OVA/OVMNR complexity, & reporting bottlenecks.

## 2. Designed the Software:

### Mobile App:

OCR-based container surveys with image/remark & meta data.

### Unified Dashboard:

Single interface for gate control, MNR/ OVMNR, inventory, parking & invoicing.

### Auto-EDI Engine:

24x7 Schedules for CODECO/WESTIM/DESTIM file generation & submission.

## 3. On-Site Validation & Iteration

Deployed a beta version on **Jan 2024** for real time testing at Surge Marine yards.

### Incorporated feedback to refine:

### MNR Workflow:

Simplified estimate creation for MSC's OVMNR program.

### Gate Automation:

Auto-pass generation with shipping line compliance.

# APPROACH TOWARDS THE PROBLEM

## 4. End-to-End Integration:

Connected all yard activities under one ecosystem:

### Survey-to-Repair:

1. Mobile app
2. MNR estimates
3. EDI approvals.

### Gate-to-Invoice:

1. Auto-gate passes
2. Real-time inventory
3. AI-driven billing.

### BI Dashboards:

Custom reports for stakeholders (daily/monthly/quarterly).

## 5. Management & Training:

### Onsite BA & QA Teams:

Worked alongside Surge Marine staff to ensure smooth adoption.

### Role-Based Training:

Tailored sessions for surveyors, estimators & admins.

## 6. Go Live:

Pan India go live on April 2024

### +30 Users

across India for survey

### +5 management team

members active on platform.

# MOBILE APP SOLUTION

## Mobile App for Container Surveys

### Instant Job Creation:

Add container details (number, type, size) in seconds.

### OCR Technology:

Auto-capture container numbers via camera scan (no manual entry).

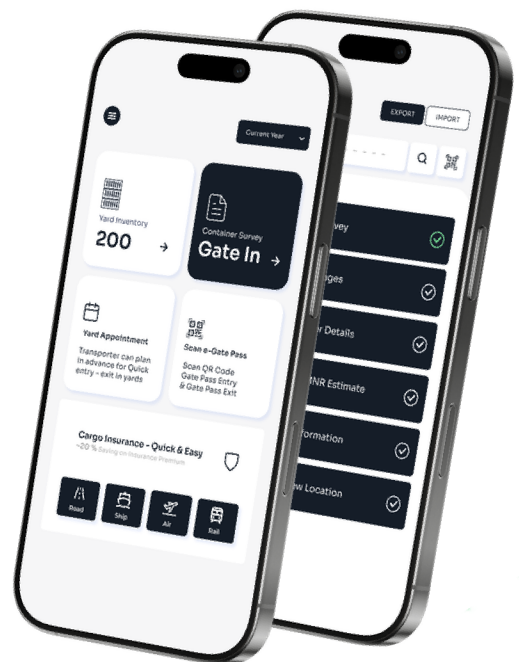
### Comprehensive Damage Documentation:

- Store 120+ high-resolution images per survey.
- Attach custom remarks to each image for precise damage reporting.
- Before/After Survey Mode: Track repair progress visually.

### MNR/OVMNR Estimates On-the-Go:

- Create & submit repair estimates (WESTIM/DESTIM) directly from the field.
- Sync with MSC's portal automatically.

Introducing OCR for container no. detection



# WEB APP SOLUTION

## Fully Automated Workflows

### **Auto EDI & CODECO:**

files to be generated as per the scheduler time slot provided by shipping line & auto-send via email

### **Auto In-Gate Pass:**

In-gate Pass have auto created as per the job filled by surveyor along with the in details & company logo

### **Auto invoicing:**

As per inward date triggered the LOLO, Parking & other invoices created automatically as per the Master tariff against each shipping line & the size & type of container.



## Centralized Dashboard

### **Unified Login:**

Single platform for surveys, repairs, gate passes & reports.

### **Customizable Access:**

Role-based permissions for admins, surveyors & operators.





# RESULT & OUTCOMES

## Operational efficiency achieved:

### Single-Window Platform:

manual surveys, EDI delays, OVA/OVMNR complexity, & reporting bottlenecks.

### 70% Reduction of Manual work:

Automation of EDI, CODECO, gate passes & container survey using OCR, invoicing.

### Real-time Dashboard:

- Container status in/out, under repair
- Shipping line-wise inventory (20+ lines supported)
- AI-driven predictive alerts for delays/backlogs.

## Centralized Admin Control:

- Role-based access surveyors, estimators, shipping line partners
- All access & rights are reserved against one single admin.
- Under one login admin is able to create their users & provide the access accordingly.
- AI-BI Dashboard & custom report generation.

# CONCLUSION

Conmove's solution BOXYARD transformed Surge Marine's operations from manual, inefficient processes to a fully automated, audit-ready system, improving productivity, compliance & cost savings.

#paperlessports

**Wish to Digitize  
your Yard ?**

**Call us on!**  
+91 895 - 6249 - 573

Download  
the app now!



 **conmove**