



# FORTUNA

GLOBAL SUPPLY CHAIN SYSTEMS



**Website:** [www.fortunaglobalsupplychain.com](http://www.fortunaglobalsupplychain.com)  
**E-mail:** [info@fortunaglobalsupplychain.com](mailto:info@fortunaglobalsupplychain.com)

# FORTUNA GLOBAL SUPPLY CHAIN SYSTEMS

*“The Future of Enterprise Intelligence.”*

## Company Overview

Fortuna Global Supply Chain Systems is a next-generation enterprise technology company revolutionizing the global logistics and supply chain landscape.

With a vision to create **intelligent, transparent, and connected ecosystems**, Fortuna blends innovation, data intelligence, and automation to help businesses achieve supply chain excellence.

Established with the belief that **efficiency is the new currency**, Fortuna empowers organizations to manage operations smarter — from demand planning to last-mile delivery — through real-time insights and seamless digital integration.

We are not just a technology provider; we are **partners in transformation** — driving global supply chain optimization with precision, performance, and predictive intelligence.

## Fortuna Yard Sync- *Smart Yard & Dock Management System*

Fortuna Yard Sync is a next-generation **AI-driven Yard and Dock Management Platform** designed to bring real-time visibility, control, and efficiency to inbound and outbound logistics operations. It synchronizes **vehicle entry, docking, loading, unloading, and dispatch** activities within industrial yards, warehouses, and distribution centers — ensuring optimized turnaround times, reduced congestion, and seamless coordination between **warehouse, transport, and gate operations**. “Fortuna Yard Sync transforms your yard into an intelligent, orchestrated ecosystem — where every truck, gate, and dock moves in perfect rhythm.”



Modern supply chains lose valuable time and efficiency at yards and loading docks, where manual coordination leads to delays, congestion, and visibility gaps.

Fortuna Yard Sync solves this through **AI scheduling, IoT sensors, and cloud-based monitoring**, offering **real-time tracking, intelligent dock allocation, and predictive alerts** to streamline every vehicle movement inside the yard.

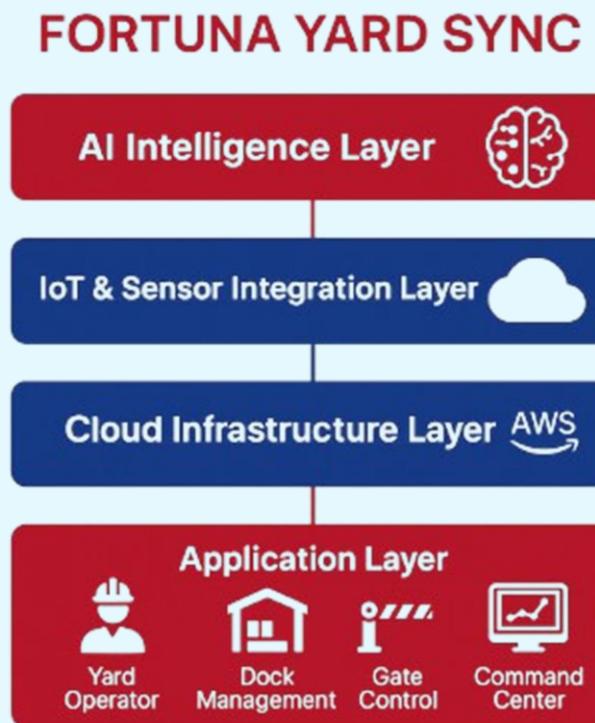
The result:

- Reduced waiting time
- Improved asset utilization
- Faster gate-to-gate cycle
- End-to-end visibility

## ⌚ 2. System Architecture

Fortuna Yard Sync operates within the Fortuna Intelligent Cloud Framework, comprising:

- 1 Cloud Infrastructure Layer – Secure SaaS environment (AWS / Azure).
- 2 IoT & Sensor Integration Layer – Real-time yard, gate, and vehicle data capture.
- 3 AI Intelligence Layer – Predictive scheduling, event optimization, and alerts.
- 4 Application Layer – Interactive dashboards for supervisors, guards, and logistics teams.



# Product Modules, Sub-Modules & Operational Functionality

## 1: Gate Entry & Access Control

### Submodules:

- Vehicle Registration & Verification
- Driver ID & e-Pass Management
- Entry Scheduling & Time Slot Control
- Security Validation with QR/License Scan

### Operational Functionality:

- Automated gate check-in using QR or RFID scanning.
- Real-time validation of driver credentials and shipment details.
- Auto-allocation of gate entry based on scheduled time slot.
- Integration with Fortuna TMS for pre-approved trip authentication.
- Live dashboard for entry queue management and security supervision.

## 2: Yard Vehicle Tracking & Monitoring

### Submodules:

- Real-Time Yard Map View
- Vehicle Status Tracking (Arrived / Waiting / Loading / Dispatched)
- Geo-Fence & IoT Tag Integration
- Dock Queue Visualization

### Operational Functionality:

- Interactive yard layout showing vehicle location and movement.
- IoT sensors and geo-tags capture truck position within the yard.
- Color-coded status indicators for faster identification.
- Auto-alerts for overstayed or idle vehicles.
- Historical playback of yard activity for audits.

## 3: Dock & Slot Management

### **Submodules:**

- Dock Scheduling Engine
- Dynamic Slot Assignment
- Load/Unload Task Management
- Equipment & Crew Coordination

### **Operational Functionality:**

- AI engine optimizes dock utilization based on load, weight, and type.
- Real-time dock assignment for inbound and outbound trucks.
- Automated alerts for dock availability and delays.
- Integration with **Fortuna SIMS** for material availability and dispatch readiness.
- Digital job cards for crew, equipment, and task tracking.

## 4: Appointment & Schedule Management

### Submodules:

- Appointment Booking Portal (Supplier/Transporter)
- AI Slot Recommendation Engine
- Reschedule & Approval Workflow
- SLA Monitoring Dashboard

### Operational Functionality:

- Web portal for suppliers and transporters to book delivery/pickup slots.
- AI recommends optimal slots based on congestion patterns.
- Automatic approval and scheduling via cloud integration.
- Monitors on-time arrival and departure performance against SLA benchmarks.

## 5: Load, Unload & Turnaround Management

### Submodules:

- Loading/Unloading Operation Tracker
- Turnaround Time Analytics (Gate-In → Gate-Out)
- Dock Utilization Metrics
- Delay Cause Analysis

### Operational Functionality:

- Tracks every minute of loading/unloading cycle via mobile app or IoT feed.
- AI calculates turnaround time for each trip.
- Visual KPIs for dock and operator efficiency.
- Auto-escalation for delayed operations.

## 6: Control Tower & Command Center

### Submodules:

- Unified Yard Dashboard
- Event Alerts & Notifications
- Exception Handling & Escalation
- Live Video / IoT Sensor Feed Integration

### Operational Functionality:

- Centralized monitoring for multiple yards and facilities.
- Real-time alerts for safety breaches or idle vehicles.
- Integration with **CCTV / IoT** for automated anomaly detection.
- Command-based workflows for security and operations staff.

## 7: Analytics & Reporting

### Submodules:

- KPI Performance Dashboards
- Yard Utilization Heat Maps
- Delay & Exception Reports
- Predictive Efficiency Analytics

### Operational Functionality:

- Visual analytics for throughput dwell time, and utilization.
- Predictive performance tracking for yards, docks, and gates.
- Exportable reports (PDF, Excel, API feed) for management.
- Comparative analysis between multiple sites or regions.

## ✓ Functional Workflows

### A. Inbound Flow

- Trip Creation (via TMS)
- Gate Check-In
- Dock Allocation
- Unload Operation
- Gate-Out
- Performance Record Update

### B. Outbound Flow

- Dock Allocation
- Loading & Weight
- Gate Clearance
- Dispatch
- Delivery Confirmation
- SLA Evaluation

### C. Scheduling Workflow

- Appointment Booking
- AI Slot Suggestion
- Dock Scheduling
- Reschedule or Escalation
- Slot Confirmation

## Fortuna Yard Sync Advantages

Feature	Business Value
<i>AI Powered Scheduling</i>	Reduces congestion & idle time
<i>IoT Vehicle Tracking</i>	Real-time visibility & yard control
<i>Cloud SaaS Platform</i>	Accessible, scalable & secure
<i>Integrated Dock &amp; Gate Ops</i>	Smooth flow between TMS & WMS
<i>Centralized Control Tower</i>	Unified view for multi-site operations
<i>Predictive Analytics</i>	Proactive performance management

## Industries Served

### Automotive & Industrial Manufacturing



**FGSCM** - supports the automotive sector with advanced logistics planning, vendor coordination, and predictive maintenance scheduling. From global parts movement to plant-level production support, our systems reduce lead times and enhance supply chain agility

**F**TUNA  
GLOBAL SUPPLY CHAIN SYSTEMS

### Ports & Logistics

Fortuna supports the automotive sector with advanced logistics planning, vendor coordination, and predictive maintenance scheduling. From global parts movement to plant-level production support, our systems reduce lead times and enhance supply chain agility



## Food & Beverage Distribution



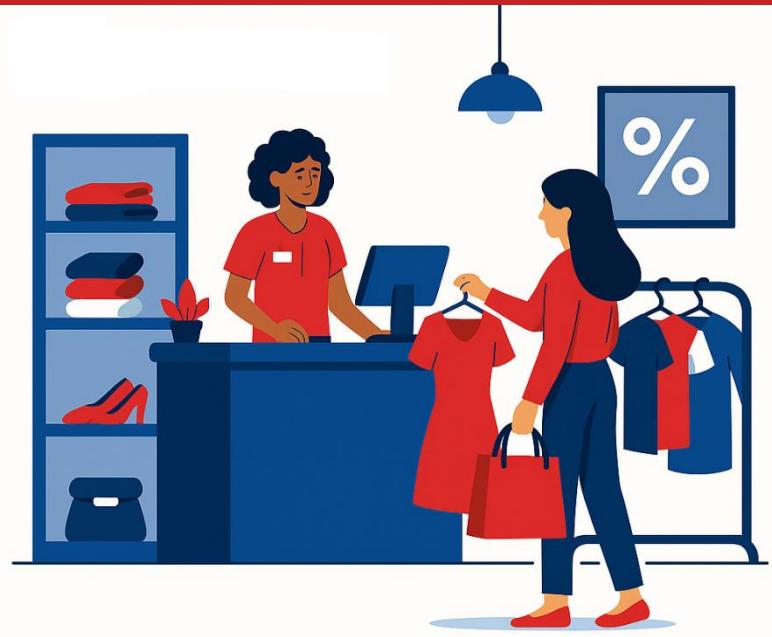
Freshness and safety are at the heart of Food & Beverage - supply chains. We enable end-to-end visibility with IoT-driven tracking, automated quality checks, and predictive demand planning—ensuring traceability from farm to fork.



**FORTUNA**  
GLOBAL SUPPLY CHAIN SYSTEMS

## Fashion & Retail Industry

With High seasonal demand & agile supply chain Planning, Fortuna will empower retailers with faster replenishment & reduces stock outs



## Pharma & Healthcare



Medical safety and regulatory compliance are non-negotiable. We provide automated solutions for cold chain logistics, product traceability, and compliance monitoring—ensuring life-saving medicines and healthcare products reach destinations safely and efficiently.



# FORTUNA

GLOBAL

## E-Commerce & Distributional Channels

In a fast-moving E-Com world, speed and efficiency are critical. Our platforms enable automated order management, demand forecasting, and last-mile delivery optimization—ensuring customers receive the right products, at the right time, every time.



## Corporate Identity



**Headquarters:** Visakhapatnam, Andhra Pradesh, India

**Website:** [www.fortunaglobalsupplychain.com](http://www.fortunaglobalsupplychain.com)

**Email:** [info@fortunaglobalsupplychain.com](mailto:info@fortunaglobalsupplychain.com)