

autonemo® | vms

Autonemo Fleet Operations Command Centre

Transforming Industrial Logistics Through
Time Intelligence, Automation & AI

Powered by
Autonemo VMS

Enterprise Fleet Intelligence Platform



QR SCAN
CHECKPOINT

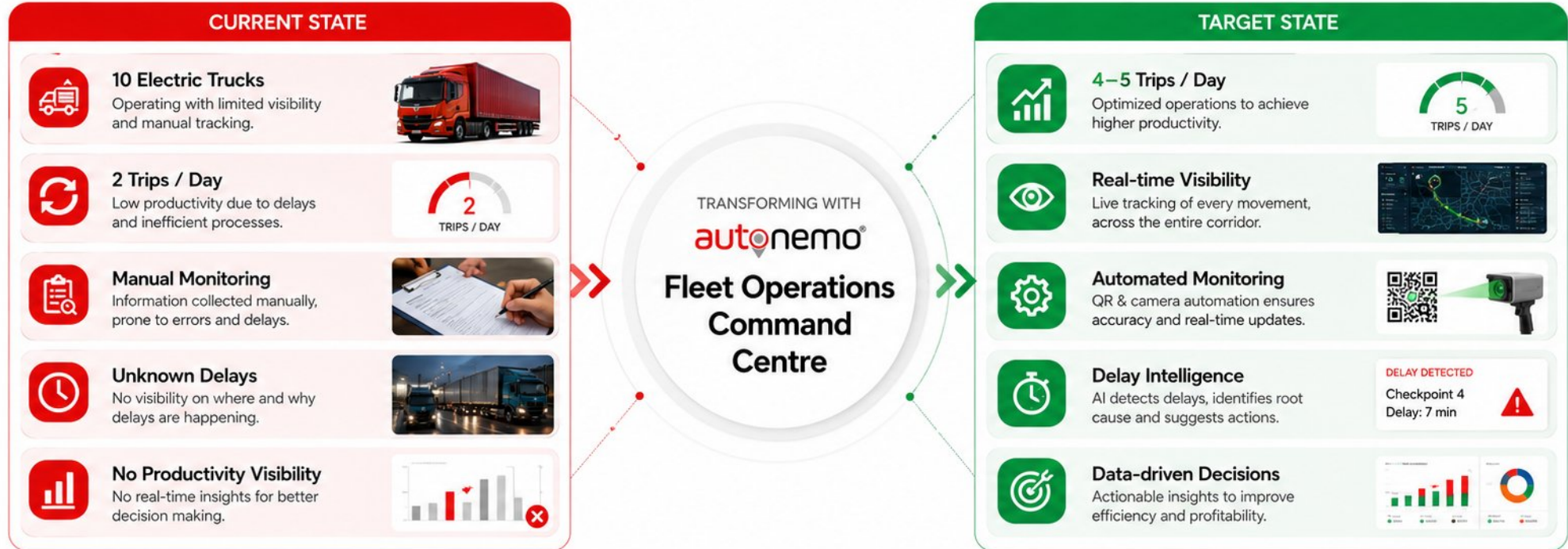


Prepared by
Mahfuz Akand
Solution Architect
Autonemo Fleet Operations
Command Centre



Executive Summary

One Platform. | One Timeline. | Complete Operational Visibility.



10
 Electric Trucks

55 KM
 Smart Corridor

10
 Smart Checkpoints

Optimized Charging

2 → 5
 Trips Per Day

MAXIMIZING EVERY MINUTE. DELIVERING EVERY TRIP.

Understanding the Operation

End-to-end visibility across the complete logistics journey.

CURRENT LOGISTICS WORKFLOW



River Port
Raw materials in



1 Main Warehouse
Centralized storage



3 Raw Material Bins
Categorized storage



Loading Zone
Efficient loading



10 EV Trucks
Electric & efficient



55 KM Corridor
10 Smart Checkpoints



Factory Delivery
On-time & reliable



Charging Station
Fast & smart charging



Next Trip
Cycle continues

The Business Challenge

Productivity is lost in time—not in distance.



Unknown Loading Delay



- No real-time visibility at warehouse
- Manual processes and paperwork
- Long waiting & turnaround time



No Checkpoint Visibility



- No visibility across 55 KM corridor
- Cannot track real-time movement
- Delays go unnoticed



Charging Inefficiency



- Unplanned charging stops
- Queue and downtime at charging
- High idle time, low trip count



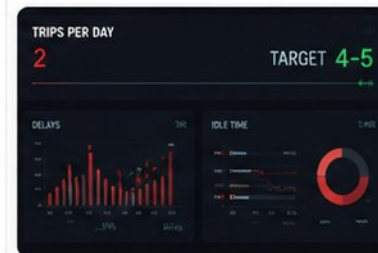
No Live Operational Control



- No central command & live overview
- Cannot respond to issues quickly
- Decisions made without real-time data



No Productivity Intelligence



- No performance analytics
- No insights on losses & delays
- Cannot optimize or improve



The challenge is not tracking vehicles.
The challenge is managing operations.



Low Trips
2 / Day



High Idle Time
& Delays



Low
Productivity



High
Operating Cost

Our Integrated Solution

One platform. All operations. Complete control.



BUSINESS IMPACT



20–30%
Increase in Fleet Productivity



15–25%
Reduction in Energy & Fuel Cost



25–40%
Reduction in Maintenance Downtime



50%+
Improvement in Safety & Compliance



Higher ROI
Better Utilization. Higher Profitability.

Built for Modern Fleet Operations

A complete ecosystem to manage your fleet, people and performance.



Track

Real-time GPS tracking with live location and route visibility.



Manage

Plan trips, manage tasks, drivers, vehicles and deliveries efficiently.



Optimize

Monitor performance, reduce costs and improve fleet productivity.



Secure

Role-based access and data security you can trust.



Alert

Instant alerts for delays, deviations, geofence breaches and more.



Analyze

Data-driven insights to make smarter decisions.



10

Electric Trucks



55 KM

Smart Corridor



10

Smart Checkpoints



Optimized
Charging



2 → 5

Trips Per Day

Why It Matters **Now**

The world is moving fast. Your fleet should too.



Sustainability First

EV adoption reduces emissions and supports a greener future.



Operational Efficiency

Smart operations reduce downtime, delays and unnecessary costs.



Cost Optimization

Optimize energy use, charging and routes to lower total cost.



Safety & Compliance

Ensure driver safety, asset security and regulatory compliance.



Data-Driven Growth

Real-time insights help you make smarter decisions and scale faster.



It's not just about managing vehicles.
It's about driving performance, sustainability and growth.



Smarter Operations. Stronger Results.

Everything in one platform. Control today. Grow tomorrow.



Real-time Visibility

Know where your vehicles are, what they're doing and how they're performing.



Operational Control

Manage trips, tasks, drivers and assets from a single command center.



Performance Boost

Improve productivity, reduce downtime and achieve more every day.



Cost Savings

Optimize fuel/energy usage, maintenance and routes to cut operational costs.



Safety & Compliance

Ensure driver safety, asset security and stay compliant with regulations.



Higher Reliability



Happier Drivers



Greener Fleet



Better Decisions



Stronger Business

Complete Control. Every Mile.

Monitor. Manage. Optimize. All from one command centre.



Higher Productivity
Improve efficiency across operations.



Lower Operating Cost
Optimize fuel, routes and resources.



Improved Safety
Ensure driver safety and asset security.



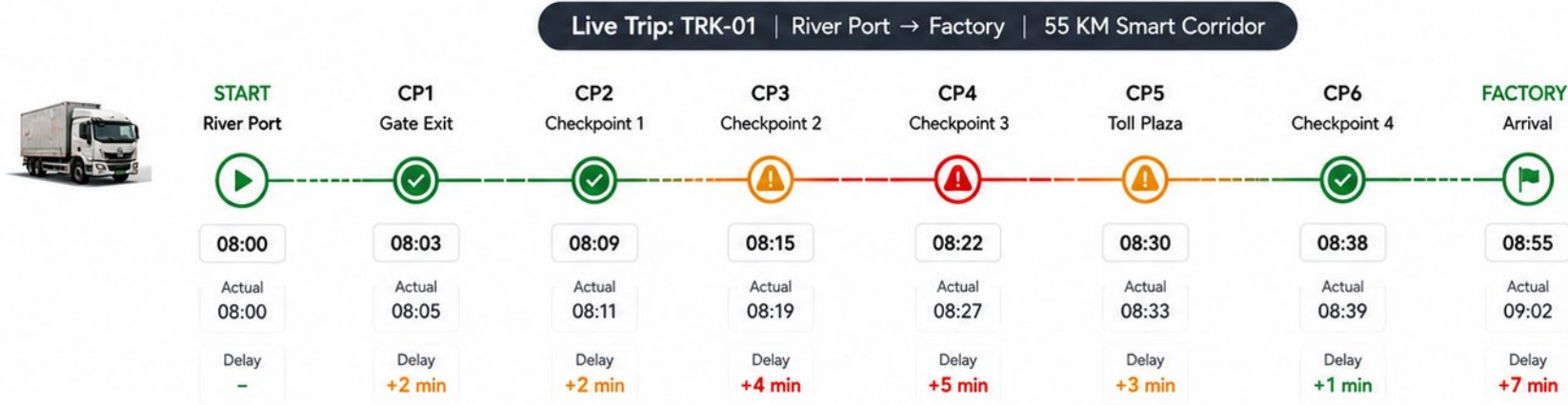
Sustainable Future
Reduce emissions with smart operations.



Better Decisions Stronger Business
Real-time insights for smarter growth.

Delay Intelligence. Operational Control.

Detect. Understand. Act. Recover.



TRIP DELAY SUMMARY



🕒 Planned Arrival	08:55
➔ Actual Arrival	09:02
📏 Total Distance	55 KM
🕒 Avg Speed	46 KM/h

⚠️ Trip delayed 7 minutes

DELAY DETECTED

CP4 – Checkpoint 3
Delay: **+5 Minutes**
Detected at: 08:27

⚠️ System Alert Triggered

SUPERVISOR NOTIFIED

Supervisor: Ops Manager
Truck: TRK-01
Location: CP4
Delay: **+5 Minutes**
Time: 08:27



REASON IDENTIFIED

Reason: Road Congestion
Type: External
Impact: **+5 Minutes**



RECOVERY ACTION

- ✓ Route Adjusted
- ✓ Traffic Cleared
- ✓ Speed Normalized
- ✓ ETA Recalculated

📈 Recovered: +4 Minutes

ON TRACK AGAIN

New ETA
08:58
Remaining Delay
+3 Minutes

✓ Trip On Track

IMPACT

- 🕒 **Better On-time Delivery**
Improve customer satisfaction
- 💰 **Lower Operational Cost**
Reduce delay & idle time
- 📊 **Higher Productivity**
More trips, more output

Driver Intelligence. Safer Operations.

Monitor. Coach. Improve.

DRIVER PROFILE



Driver ID
DRV-1047

Name
Rashid Khan

License No.
BRTA-12345678

Experience
4.3 Years

ASSIGNED VEHICLE



Truck ID
TRK-01

Vehicle Type
EV Truck

Load Type
Raw Material

DRIVING BEHAVIOR OVERVIEW

Speeding



8

Events

High

Harsh Braking



6

Events

Medium

Rapid Acceleration



5

Events

Medium

Idle Time



12%

of Trip

Good

Seatbelt



100%

Compliance

Good

Route Compliance



98%

Compliance

Good

AI ALERTS & COACHING



Speed Limit Violated
At CP3 – 68 km/h in 50 km/h zone

08:22 AM

High



Harsh Braking Detected
Near Toll Plaza – Sudden brake

08:30 AM

Medium



Long Idle Time
At CP5 – Engine idling for 8 min

08:31 AM

Medium



AI COACHING SUGGESTION

- ✓ Maintain speed within limit
- ✓ Avoid sudden braking
- ✓ Minimize engine idle time
- ✓ Follow optimal route
- ✓ Drive safe, save more

DRIVER SAFETY SCORE



Good Performance

Keep it up!

SCORE TREND (Last 7 Trips)



LAST TRIP SUMMARY

Distance **55 KM** Trip Time **55 min** Avg Speed **46 KM/h** Fuel / Energy **~ 210 kWh**



Improve Safety

Reduce accidents and ensure driver safety.



Boost Performance

Better habits lead to better trip performance.



Lower Costs

Reduce fuel/energy waste and vehicle wear.



Driver Development

Continuous coaching for long-term growth.



Reward Good Drivers

Encourage safe driving and recognize performance.

Vehicle Intelligence. Maximum Uptime.

Know your vehicles. Monitor health. Prevent issues. Extend life.

VEHICLE OVERVIEW



FLEET HEALTH SUMMARY



VEHICLE STATUS - TRK-01

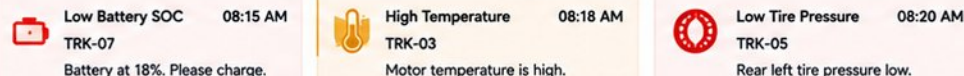
TRK-01



Vehicle Type **EV Truck**
 Make / Model **HAKIZ EV-55T**
 Year **2024**
 Odometer **34,560 KM**
 Driver **Rashid Khan**
 Today's Run **1 Trip (55 KM)**



ACTIVE VEHICLE ALERTS

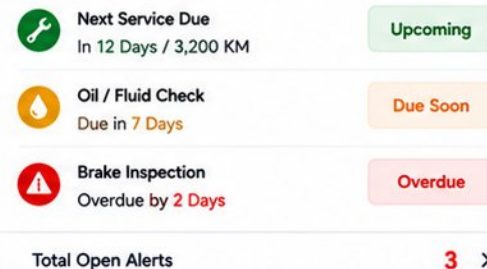


[View All Alerts >](#)

COMPONENT HEALTH



MAINTENANCE & SERVICE



Prevent Breakdowns
Early detection reduces unexpected failures.



Improve Uptime
Healthy vehicles mean maximum availability.



Lower Maintenance Cost
Avoid major repairs and reduce TCO.



Extend Vehicle Life
Regular care ensures longer vehicle life.



Efficient & Green
Optimized performance reduces energy usage.

Charging Intelligence.

Smart charging. Lower cost. Maximum uptime.



CHARGING WORKFLOW



QR Scan In

Vehicle arrives at charging station



Charging Started

Session started automatically



Charging Completed

Battery fully charged & verified



Ready For Next Trip

Vehicle dispatched for operation



AVERAGE CHARGING TIME

45 min

per session



TARGET TIME

40 min

per session



LOST TIME TODAY

18 min

total across fleet



AI RECOMMENDATION

Charge Truck-07 after 2:00 PM to reduce waiting time.



AI Recommendation. Smarter Decisions.

AI turns data into action. Improve efficiency. Reduce delay. Increase productivity.

AI Engine
Continuously analyzes trip, driver, vehicle, route & delay to give smart recommendations.

Route Optimization
Use Corridor via CP5 to save 6 minutes

Delay Prediction
CP3 likely to delay by 4-6 minutes

Driver Suggestion
Assign Driver B for next trip

Charging Suggestion
Charge after 2:00 PM to reduce waiting time

AI IMPACT



Delay Reduced
22%



Trip Efficiency Increased
18%



Operational Cost Saved
₹ 2.4M / month



Productivity Increased
20%



Predict Delays
AI predicts delays before it happens.



Optimize Operations
Get the best route, driver & timing every time.



Take Action
Smart alerts help team take action faster.



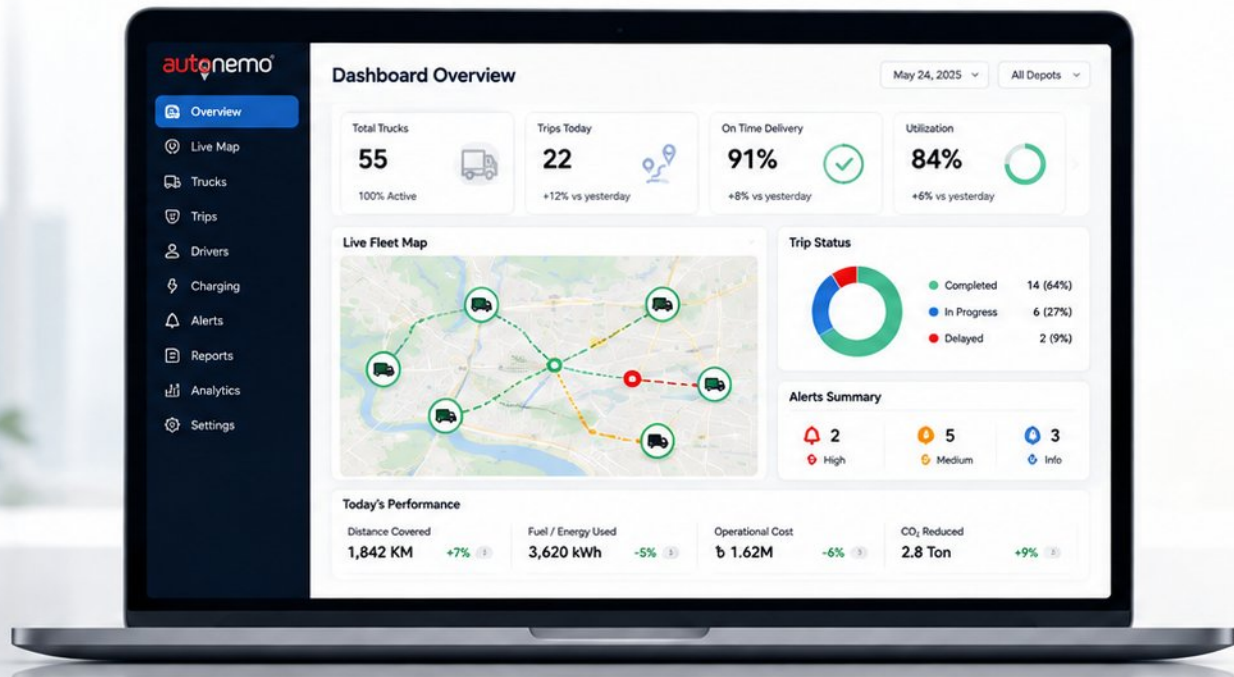
Continuous Learning
AI learns from every trip and gets smarter.



Better Results
Lower cost. Better service. Happier customers.

Executive Dashboard. Complete Control.

One view. Every insight. Better decisions.



Real-time Visibility

See every truck, every trip, every moment.



Performance Insights

Track KPIs and operational performance instantly.



Smart Alerts

Get notified before small issues become big problems.



Data Driven Decisions

Make faster, smarter decisions with real data.



Complete Control

Monitor operations, drivers, vehicles & more from one place.



55

Total Trucks



22

Trips Today



91%

On Time Delivery



84%

Utilization



2.8 Ton

CO₂ Reduced Today



₹ 1.62M

Operational Cost Today

Before vs After. The Transformation.

From manual chaos to smart, efficient, and profitable operations.

BEFORE – Manual & Uncontrolled

-  **No Real-time Visibility**
No idea where trucks are or what's really happening.
-  **Delays & Unpredictability**
Frequent delays, missed schedules, no control on deviations.
-  **Paper Based Operations**
Manual logs, data entry, and communication gaps.
-  **High Operational Cost**
Wastage of time, fuel, and resources with low productivity.
-  **No Performance Insights**
No data, no analysis, no visibility into true performance.



AFTER – Smart & Controlled

-  **Real-time End-to-End Visibility**
Live tracking, live events, full visibility at every stage.
-  **On-time & Predictable Operations**
Smart corridor timing, alerts & AI help deliver on time.
-  **Digital & Automated Workflow**
QR + AI based event capture, automated data & reports.
-  **Lower Cost, Higher Efficiency**
Optimized routes, less idle time, higher asset utilization.
-  **Data Driven Performance**
Live KPIs, analytics & insights for continuous improvement.



The Result



22%
Delay Reduced



18%
Fuel Saved



2.4M BDT
Cost Saved / Month



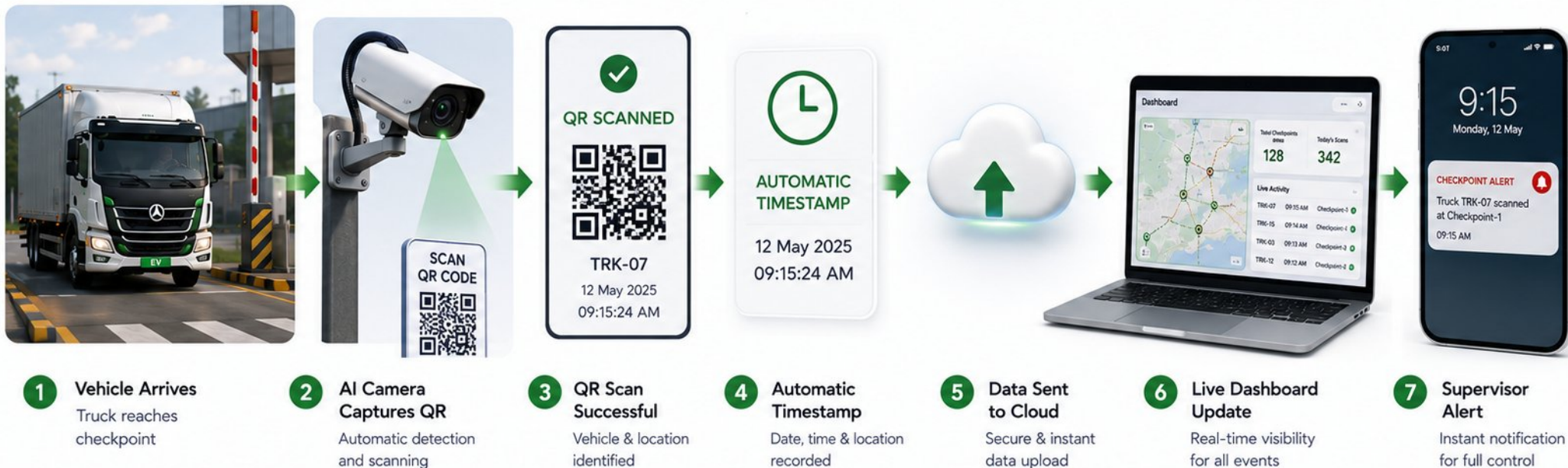
20%
Productivity Increased



Lower Emissions
Greener Operations

Smart QR Checkpoint Automation

Every scan. Every event. Automatically captured.



100% Automatic
No manual entry,
no human error



Tamper Proof
Real data from real
checkpoints



Real-time Control
Instant updates for
better decisions



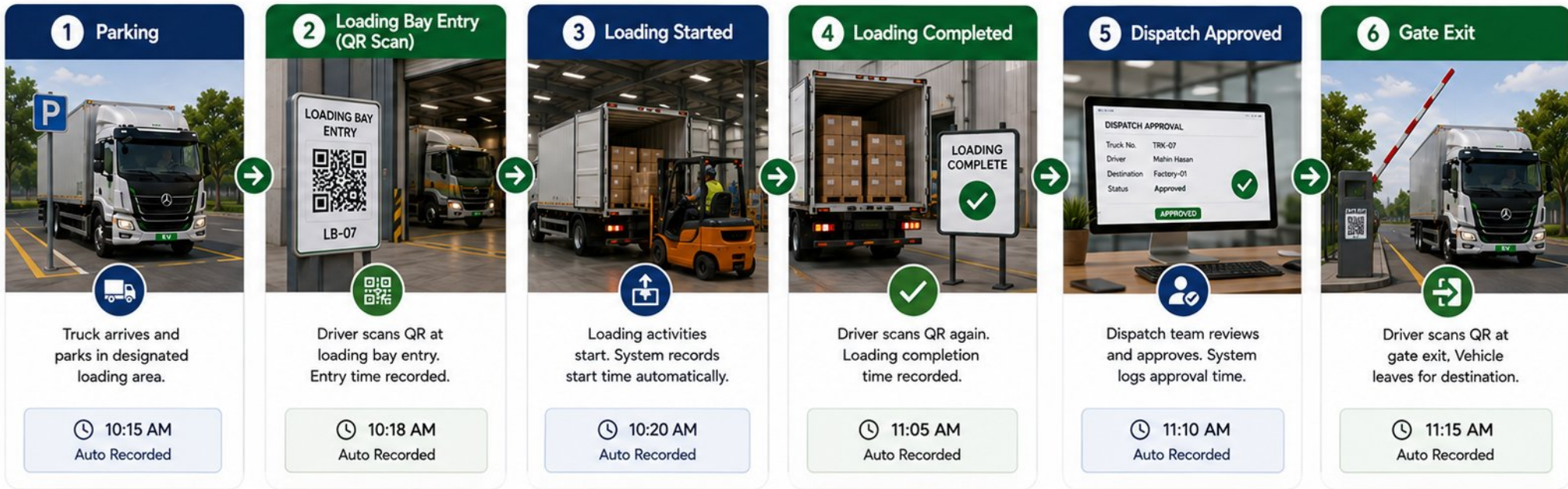
Complete Visibility
Track every move,
every minute



Higher Efficiency
Save time, reduce cost,
increase productivity

Loading Process Automation

QR scan at every step. Automatic timestamp. Full control.



Automatic Timestamp
Every step recorded automatically



No Manual Entry
No paperwork, no human error



Real-time Visibility
Live status of every loading operation



Instant Alerts
Get notified for delays or exceptions



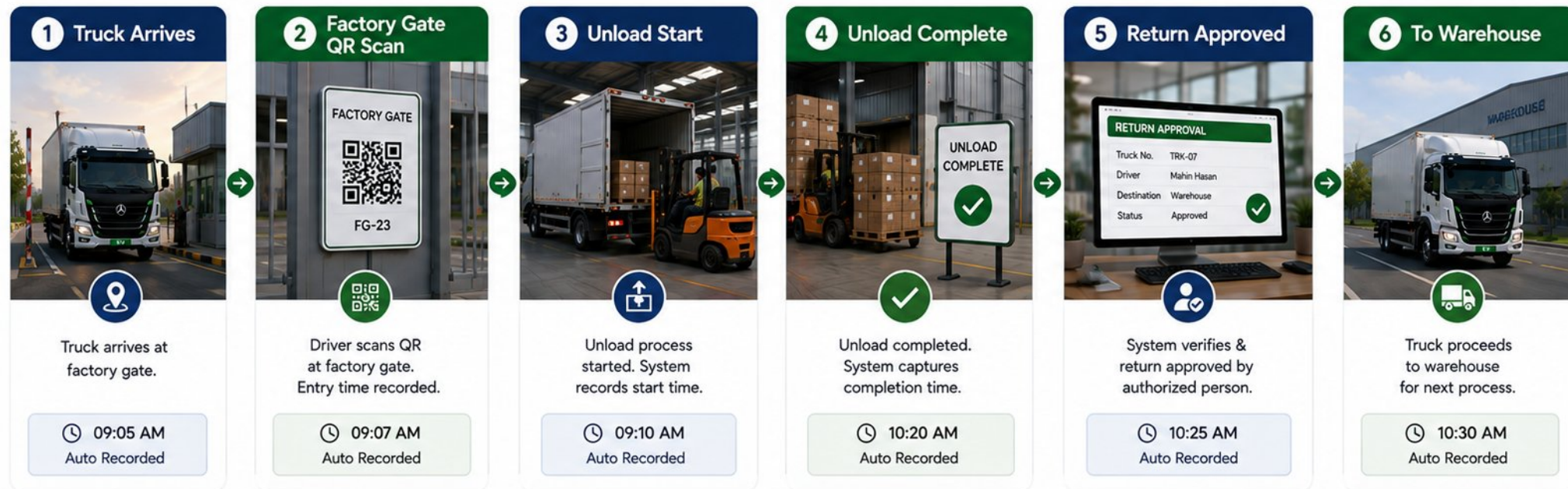
Complete Audit Trail
Full history for reporting and compliance



Higher Efficiency
Faster operations, better productivity

Factory Receiving Automation

From arrival to return – every step captured, every action verified.



Automatic Timestamp
Every step recorded automatically



Verified & Secure
QR + user approval for complete verification



Real-time Visibility
Live status from gate to warehouse



Instant Alerts
Get notified for delays or exceptions



Complete Traceability
Full audit trail for every receiving operation



Higher Efficiency
Reduce waiting time, increase productivity

Charging Process Automation

Scan. Charge. Complete. Automatically.



Smart Charging.
Maximum Uptime.
Minimum Cost.



Avg. Charging Time
45 min
Target: 40 min



Energy / Session
118 kWh
Target: 110 kWh



Cost / Session
₺ 1,185
Target: ₺ 1,100



Charging Efficiency
92%
Target: 90%+



AI Recommendation
Charge Truck-07 after 2:00 PM to reduce waiting time.

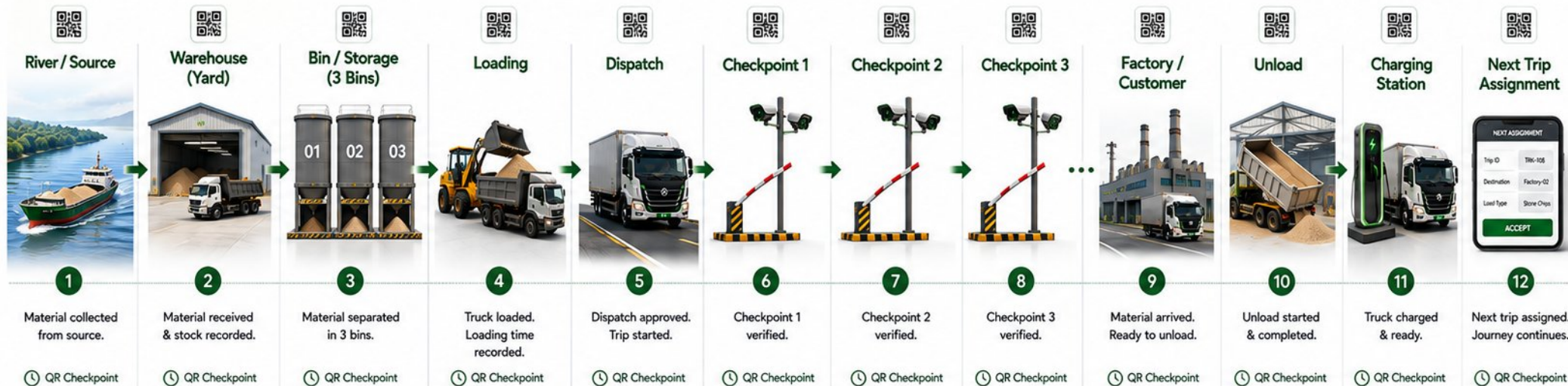


Complete Operational Journey

One Journey. Multiple Checkpoints. Full Visibility. Zero Blind Spots.



Every step is QR verified. Every event is captured. Every move is visible.



End-to-End Visibility
Live tracking from source to destination.



Full Accountability
Every QR scan creates audit trail.



Real-time Operations
Instant updates at every checkpoint.



Better Decisions
Accurate data for planning, performance & efficiency.



Lower Cost
Reduce delays, idle time & operational loss.



Greener Operations
Optimized routes & efficient fleet usage.

Human QR Scan (Manual) – Flexible & Easy

No AI camera? No issue! Your team can scan QR codes using the mobile app and complete every operation.



Use the Autonemo VMS Mobile App to scan QR codes at any checkpoint and record events in real-time.
Perfect backup for camera downtime or areas without AI devices.

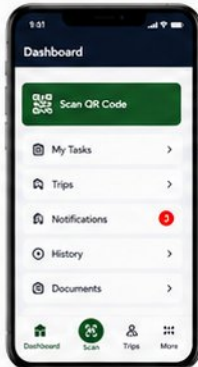
How It Works (Step by Step)

1 Open App



Login to Autonemo VMS Mobile App.

2 Tap Scan QR



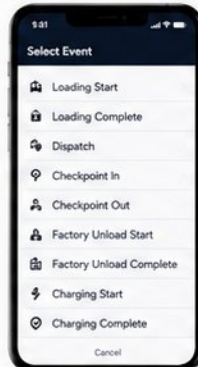
Tap on "Scan QR" from the menu.

3 Scan QR Code



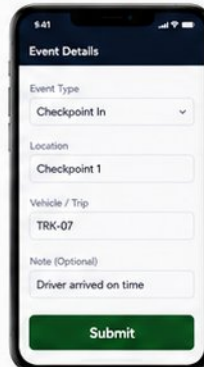
Scan the QR code at the checkpoint.

4 Select Event Type



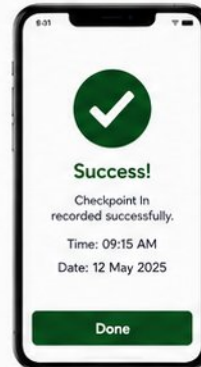
Choose the correct event / activity.

5 Add Details (If Needed)



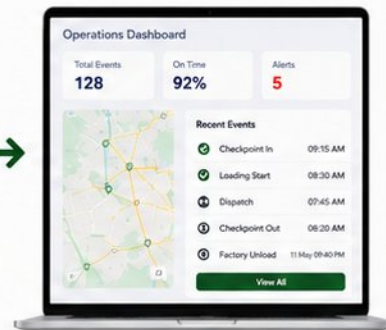
Add any additional info (optional).

6 Submit



Submit. Event is recorded instantly.

7 Live Sync to System



Data is synced to the system in real-time.



Works Everywhere
No camera required.
Use in any location.



Easy for Everyone
Simple interface.
Anyone can use.



Real-time Sync
Instant data update
to the system.



Accurate & Secure
Verified QR + user
activity log.



Better Accountability
Know who did what,
and when.



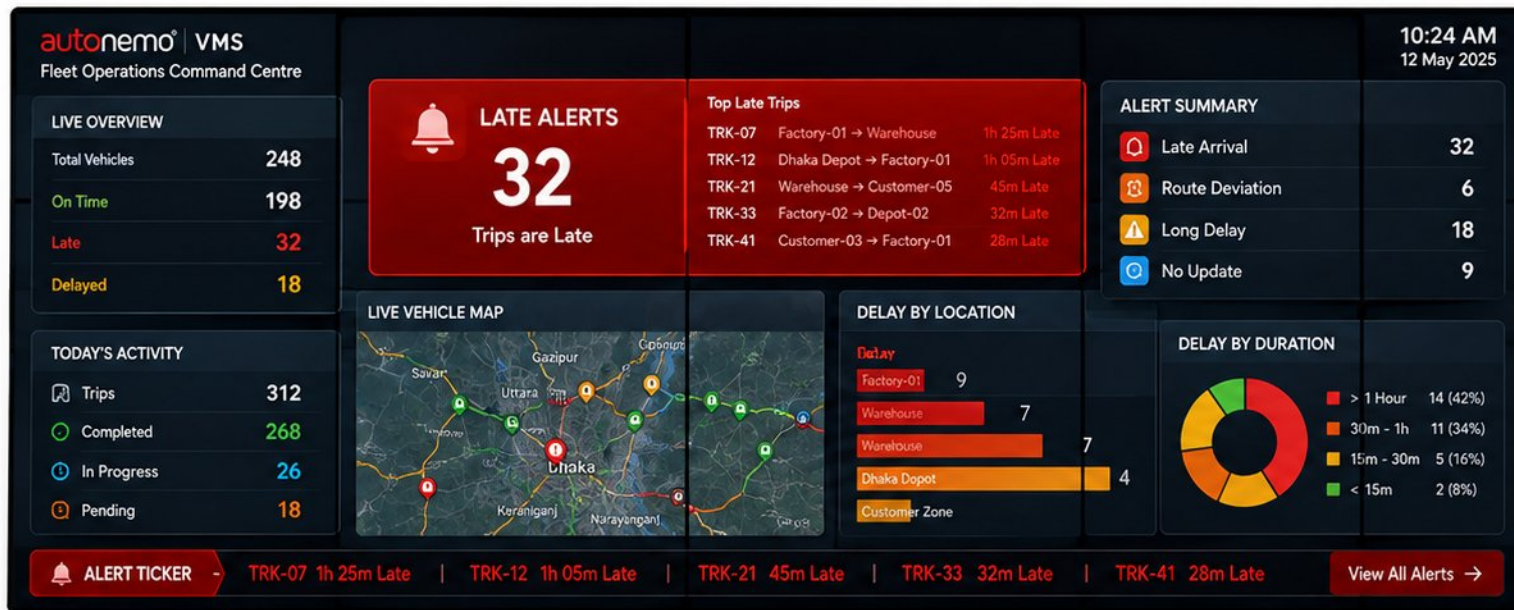
Flexible Operation
Use AI Camera or
Human Scan – or both!

Late Alerts on Big Dashboard Wall

Real-time visibility. Instant alerts. Take action before it's too late.



Get instant alerts for late arrivals, delays, and exceptions – right on your Command Centre Dashboard Wall.



How Late Alerts Work



1. System Detects Delay

If a vehicle is late beyond the expected time.



2. Alert Triggered

Late alert is generated automatically based on rules.



3. Show on Dashboard Wall

Alert appears instantly on the big dashboard wall.



4. Team Takes Action

Operations team takes immediate action and updates.



5. Real-time Resolution

Status is updated and alert is cleared automatically.



Instant Visibility
See all late trips at a glance.



Faster Action
Take quick decisions, avoid bigger delays.



Better Control
Reduce exceptions and improve SLA.



Data Driven
Understand delay pattern and take control.



Team Collaboration
Everyone stays informed, everyone takes action.



Higher Efficiency
On-time delivery, happy customers.

Productivity Improvement: 2 Trips → 4 Trips

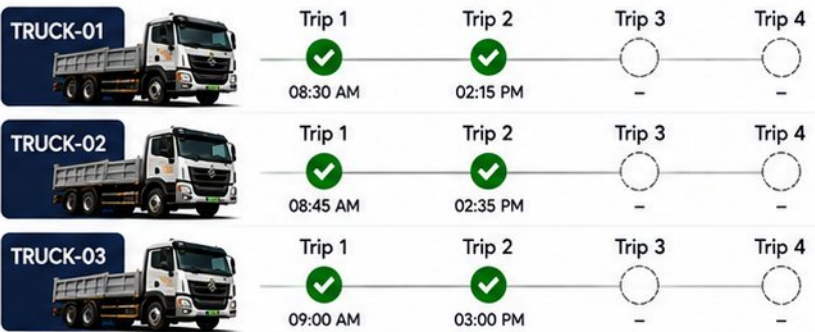
Run more trips. Deliver more. Earn more.



With Autonemo Fleet Operations Command Centre, we help you achieve **100% productivity improvement**.

CURRENT SCENARIO

Most trucks are completing only 2 trips per day



Average Trips Per Truck / Day

2 Trips

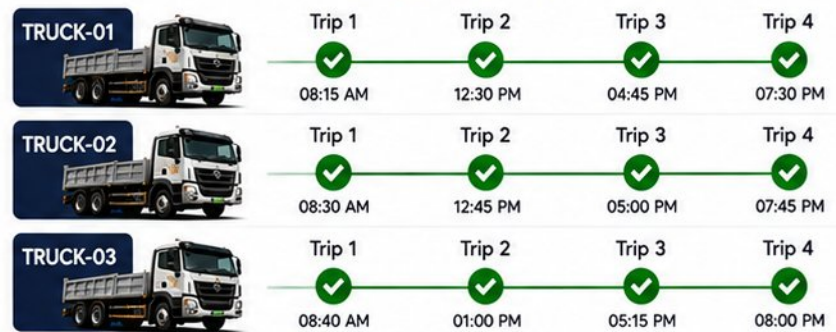
Autonemo Fleet Operations Command Centre



- ✓ Live Monitoring
- ✓ Late Alert System
- ✓ Route Optimization
- ✓ Performance Analytics
- ✓ Complete Visibility

AFTER IMPLEMENTATION

Trucks are now completing 4 trips per day consistently



Average Trips Per Truck / Day

4 Trips



TRIP CAPACITY

2 → 4

Trips Per Truck / Day



IDLE TIME REDUCTION

-45%

Less Idle Time



FLEET UTILIZATION

+85%

Better Vehicle Utilization



DAILY PRODUCTIVITY

+100%

More Trips, More Output



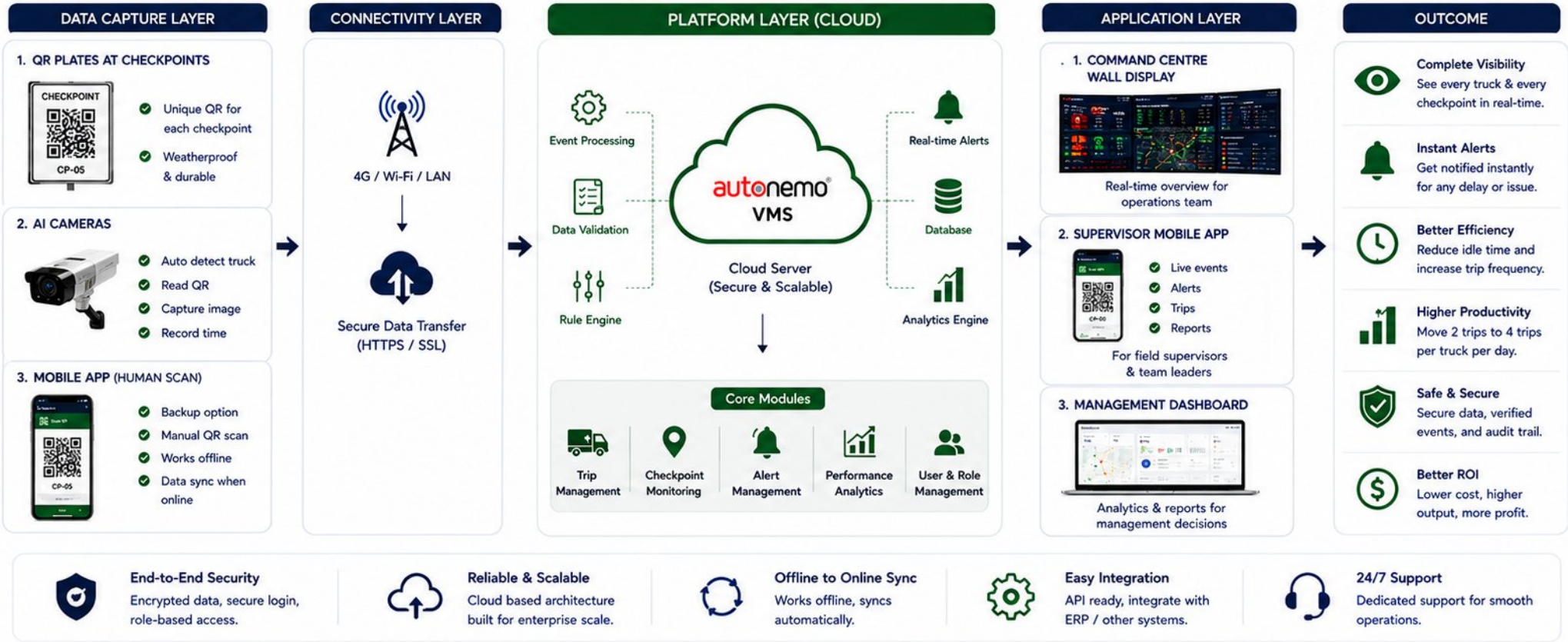
The goal is not to track vehicles. The goal is to **maximize every trip**.

System Architecture

Smart Hardware. Intelligent Software. Real-time Visibility.



Autonemo Fleet Operations Command Centre connects every checkpoint, vehicle and person into one intelligent ecosystem.



Before vs After Operations

From Manual & Uncertain to Automated & Intelligent Operations



Autonemo Fleet Operations Command Centre brings control, visibility and productivity.

BEFORE – MANUAL OPERATIONS



Manual Phone Calls

Drivers call at checkpoints.
Time consuming & unreliable.



Paper Register

Manual entries, mistakes,
no real-time data.



No Live Visibility

No idea where trucks are
or if they are late.



Late Decision

Issues are known too late,
action is delayed.



Lower Productivity

Most trucks complete
only 2 trips per day.



Average Trips Per Truck / Day

2 Trips

Autonemo
Fleet Operations
Command Centre



- ✓ QR Automation
- ✓ AI Camera Events
- ✓ Live Dashboard
- ✓ Instant Alerts
- ✓ Data Driven Decisions
- ✓ Higher Productivity

AFTER – AUTONEMO OPERATIONS



QR Automation

Trucks scan QR at checkpoints.
Fast, accurate & reliable.



AI Camera Events

Auto capture entry/exit time.
No human error.



Live Visibility

See every truck & checkpoint
in real-time on wall.



Instant Alerts

Get notified instantly for
any delay or exception.



Higher Productivity

Trucks complete up to
4 trips per day.



Average Trips Per Truck / Day

4 Trips



TRIPS CAPACITY

2 → 4

100% Increase



IDLE TIME REDUCTION

-45%

Less Idle Time



FLEET UTILIZATION

+85%

Better Utilization



DAILY PRODUCTIVITY

+100%

More Output



SAFETY & CONTROL

100%

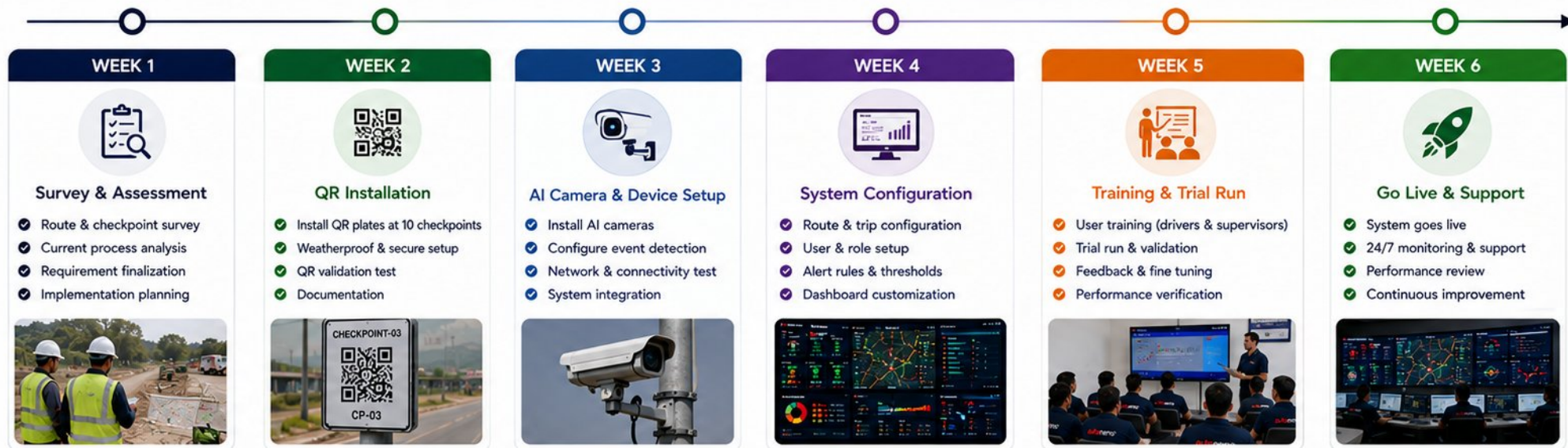
Better Safety & Control

Implementation Roadmap

A Proven Step-by-Step Plan for Successful Deployment



Fast deployment. Minimal disruption. **Maximum results.**



Our team works closely with yours to ensure a **smooth transition** and **long-term success.**



What You Get at Go Live



Live Visibility of all trucks & checkpoints



Instant Alerts for any delay or exception



Better Control over operations in real-time



Improved Efficiency and higher trip frequency



Data-Driven decisions for maximum output



100% Visibility for management anytime, anywhere



From Planning to Go Live in just **6 Weeks** – Built for **Speed**, Designed for **Success**.

ROI & Business Impact

More Trips. Less Idle Time. **Higher Output.** Better Profit.



Investment in Visibility Today, Returns in Productivity Every Day.

Key Business Benefits



Increase Trip Capacity
From 2 trips to 4 trips per truck per day.



Reduce Idle Time
Minimize waiting, loading & charging idle time.



Improve Fleet Utilization
Better route planning & real-time monitoring increases utilization.



Operational Control
Complete control from loading to delivery with real-time visibility.



Instant Alerts & Action
Act instantly on delays, exceptions & route deviations.



Lower Operating Cost
Less fuel waste, less overtime, less manual supervision.



Higher Productivity & Profit
More trips, more deliveries, higher output & more profit.

BEFORE (Current Scenario)

Most trucks complete only 2 trips per day



2

Trips / Day
Per Truck



**~10-12
Hours**

Average Idle
Time / Day



~50%

Fleet
Utilization



AFTER (With Autonemo FOCC)

Trucks complete up to 4 trips per day consistently



4

Trips / Day
Per Truck



**~4-6
Hours**

Average Idle
Time / Day



~85-90%

Fleet
Utilization



Limited Output
Higher Cost
Lower Profit

Productivity
Improvement
100%



Higher Output
Lower Cost
Higher Profit

Estimated Business Impact (Per Truck / Per Day)

Item	Before	After	Impact
Trips Per Day	2	4	+100%
Idle Time	10-12 Hrs	4-6 Hrs	-45%
Fleet Utilization	~50%	~85-90%	+35-40%
Deliveries	Low	High	+100%
Operating Cost	High	Lower	-20-30%
Daily Productivity	Low	High	+100%
Profit Potential	Limited	Significantly Higher	+100%+



Every additional trip means more raw material delivered, **more production achieved, and more profit earned.**

Business Impact Summary



Trips Capacity
2 → 4
100% Increase



Idle Time Reduction
-45%
Per Day



Fleet Utilization
+85%
Better Utilization



Daily Productivity
+100%
More Output



Cost Reduction
-20% to -30%
Operating Cost



Profit Potential
+100%+
Higher Profit

Long-Term Advantage

- ✓ Scalable System
- ✓ Data-Driven Decisions
- ✓ Sustainable Growth
- ✓ Future-Ready Operations



THANK YOU FOR YOUR **TIME!**

Thank you for considering **Autonemo Fleet**
Operations Command Centre.
We appreciate your time, trust and confidence.



Our goal is simple:

MAXIMIZE EVERY TRIP.

Together, we can move more,
achieve more and build a more
productive future.



More Trips
Increase trip
capacity



Less Idle Time
Reduce waiting
and idle time



Higher Productivity
Achieve more with
the same resources



Better Control
Complete visibility
and control



Instant Alerts
Act instantly on
any issue



Higher Profit
Lower cost,
higher profit

“ The goal is not to track vehicles. The goal is to **maximize every trip.** ”

PRESENTED BY

MAHFUZ AKAND