

Intelligent Traffic & Mobility **Systems**



— WHO WE ARE

Engineering the intelligence behind safer, faster roads.

NXT Vision Mobility Labs Pvt Ltd builds integrated, technology-driven ecosystems for urban and highway transit. Combining IoT sensors, high-resolution surveillance, radar, ANPR, and AI-powered analytics, our platforms give road operators the real-time visibility and automation needed to run corridors that are safer, more efficient, and easier to manage — from a single traffic signal to a full statewide highway network.

5

Core Solution Lines- ATMS, TMS, MLFF, PMS & Analytics

24/7

Real Time Monitoring & Incident Response

AI

Powered detection, classification & forecasting

100%

Cashless, contactless transaction ready

— WHAT WE DELIVER

ATMS- Advance Traffic Management System



Adaptive signals, ANPR, speed detection & live incident alerts across highway corridors.

TMS- Traffic Management System



FASTag/RFID, ANPR and weight-based lanes that classify and charge vehicles automatically.

MLFF- Multi Lane Free Flow



Barrierless, open-road tolling at highway speed — zero stop, zero queue, auto debit.

AI- Analytics & Reporting



Traffic flow, violation, density and queue analytics for data driven road decisions.

PMS- Parking Management System



Intelligent & automated Parking solutions

Why Road Operators Choose Us

- Single integrated platform across ITS, tolling and analytics
- Radar, LiDAR and ANPR hardware paired with proprietary AI models
- Rapid incident detection with automated alerting

Built For

- National & state highways authorities
- Expressway & Toll Concessionaires
- Smart City and multiple Traffic departments

OUR SERVICES

ATMS

Advanced Traffic Management System



An Advanced Traffic Management System (ATMS) is an integrated, technology-driven ecosystem that leverages real-time data, IoT sensors, surveillance cameras, and AI-powered analytics to optimize the highway traffic flow. By continuously monitoring corridor conditions, ATMS dynamically coordinates adaptive traffic, rapidly detects accidents and bottlenecks, and broadcasts live travel alerts via Variable Message Signs (VMS) & mobile alerts.



VMS

(Variable Message Sign)



PVMS

(Portable VMS)



VSDS

(Vehicle Speed
Detection System)



ECB

(Emergency Calling
Box)



IMPROVED ROAD SAFETY



REDUCED CONGESTION



REAL TIME INCIDENT RESPONSE



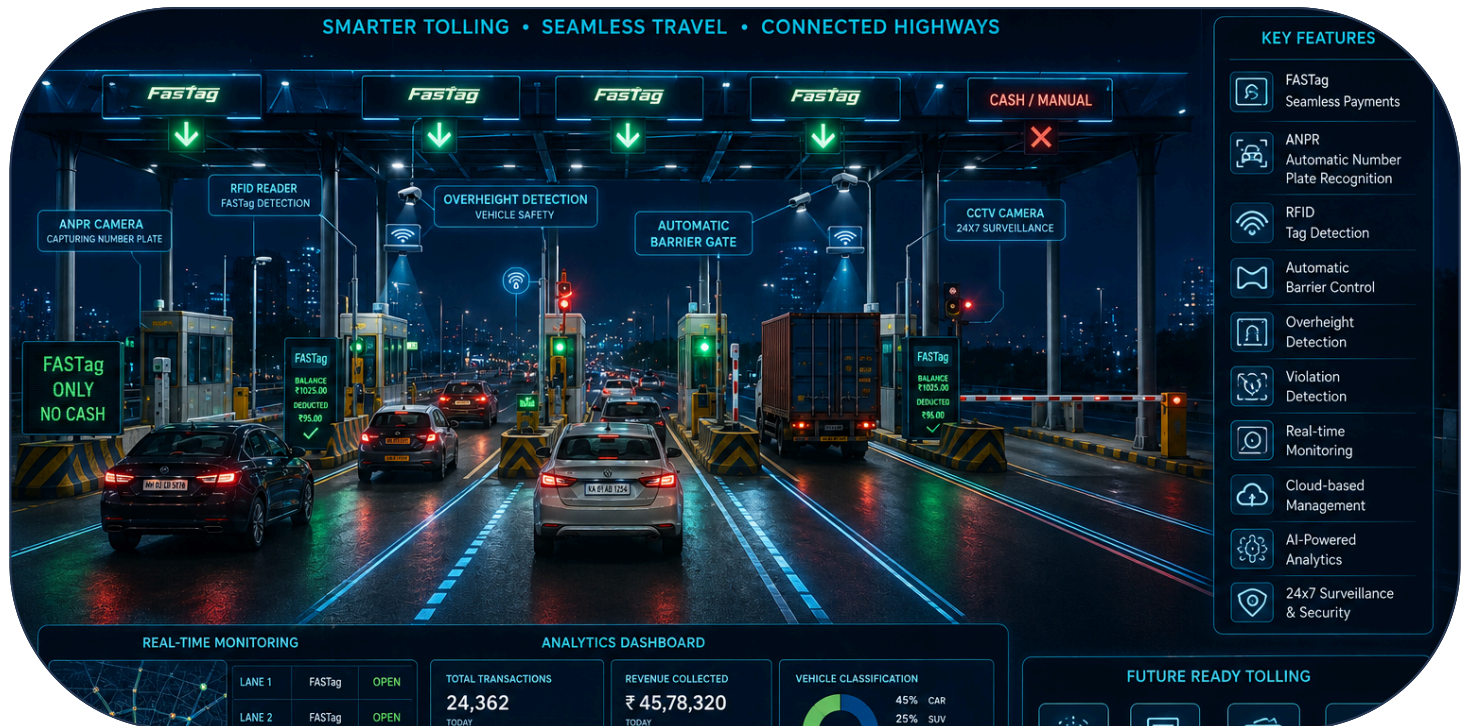
DATA DRIVEN DECISIONS



SMART & SUSTAINABLE MOBILITY

TMS

Toll Management System



Our Toll Management System (TMS) is an integrated hardware and software solution designed to automate the collection and monitoring of highway usage fees. By utilizing technologies like Radio Frequency Identification (RFID tags/FASTag), Automatic Number Plate Recognition (ANPR), and weight sensors, modern systems automatically identify vehicles, classify them, and deduct toll fees.

System Components



IMPROVED ROAD SAFETY



REDUCED CONGESTION



REAL TIME INCIDENT RESPONSE



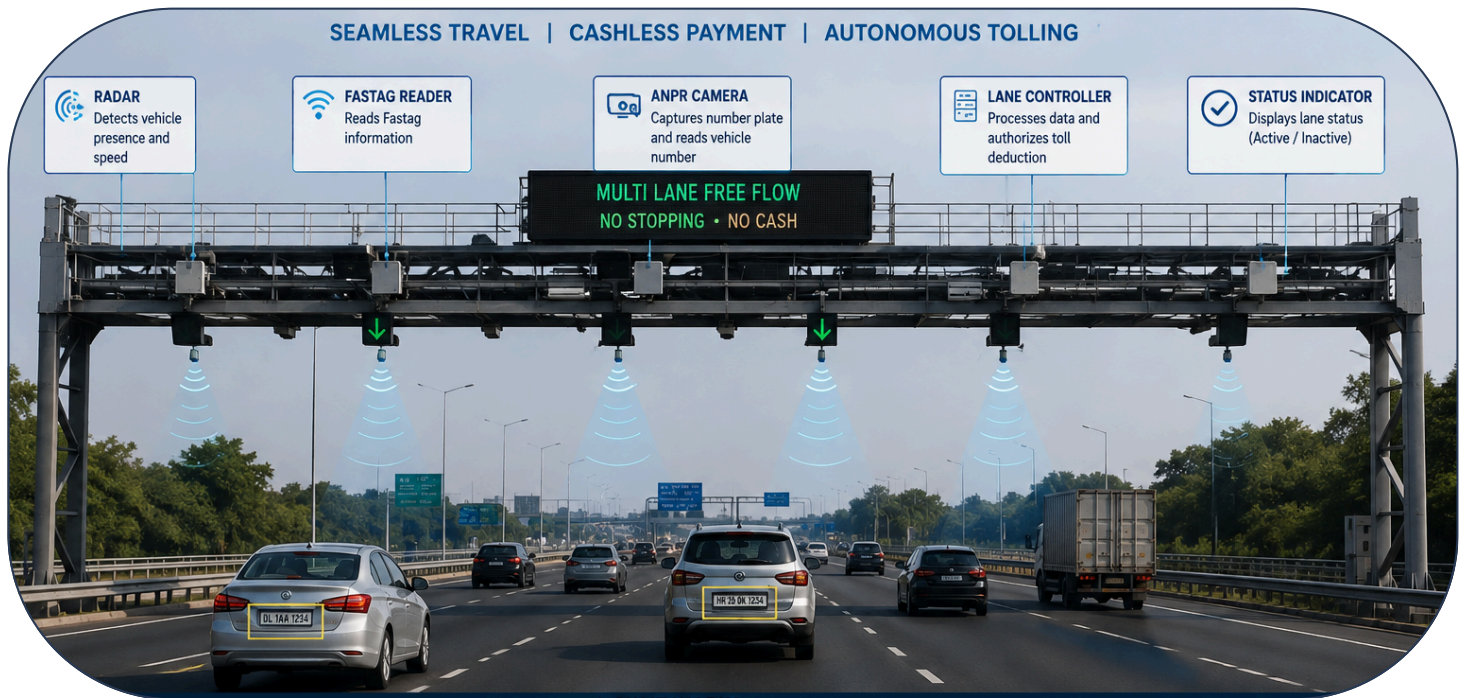
DATA DRIVEN DECISIONS



SMART & SUSTAINABLE MOBILITY

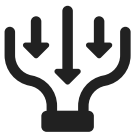
MLFF

Multi-Lane Free Flow



A Multi-Lane Free-Flow (MLFF) toll system—often called barrierless or open-road tolling allows vehicles to travel through toll zones at regular highway speeds without slowing down, changing lanes, or stopping at physical booths.

Key Benefits



Zero Traffic Bottlenecks

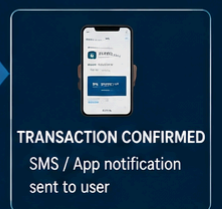
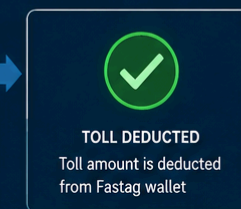


Lower Emissions & Fuel Savings



Cost Efficiency

HOW IT WORKS



SEAMLESS TRAVEL
NO STOPPAGE



High Speed
Detection



ACCURATE & RELIABLE
DETECTION



REAL-TIME MONITORING
& REPORTING



SECURE & CASHLESS
TRANSACTIONS

FASTag
ONLY

PMS

Parking Management System

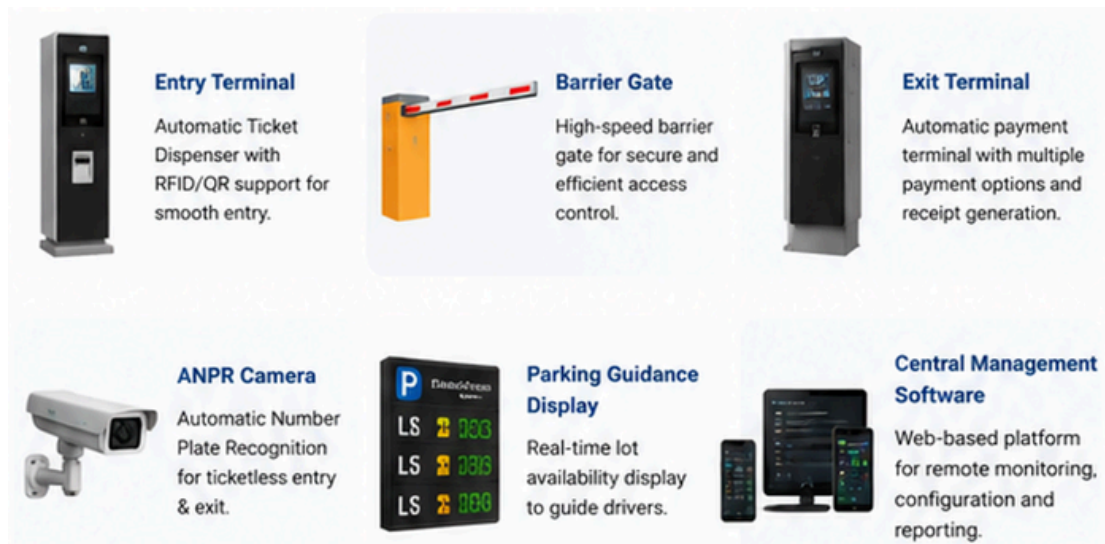
SMART PARKING. REAL TIME INFORMATION. BETTER EXPERIENCE.

- Real-time Space Availability
- Automated Entry & Exit
- Cashless Payments
- Video Surveillance
- Analytics & Reporting



Our Parking management system is an intelligent, integrated solution that automates parking operations, enhances user experience, maximizes spaces utilization with real-time monitoring and advanced analytics.

Key Components



ANALYTICS

SMARTER ROADS | INTELLIGENT INSIGHTS

AI Powered Analytics for Safer, Smarter & Efficient Highways



AI Driven Real-Time
Insights



Enhance Safety
& Security



Improve Traffic
Efficiency



Data Driven
Decision Making

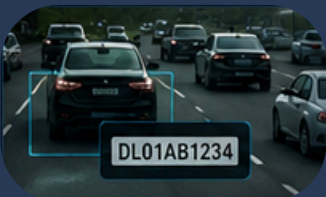


Scalable & Future
Ready Solutions



ANPR

Automatic Number Plate
Recognition



SPEED DETECTION

Detect speeding
vehicles in real-time



VEHICLE CLASSIFICATION

Classify Vehicles by their type,
size & category



TRAFFIC FLOW ANALYTICS

Analyzes traffic flow & density
& congestion



VIOLATION DETECTION

Detect multiple violations
automatically



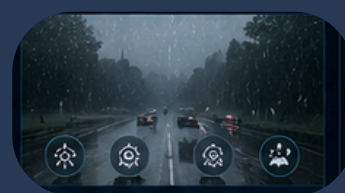
DIRECTION/ WRONG WAY DETECTION

Detect wrong way driving instantly



ENVIRONMENTAL MONITORING

Monitor weather & roadway
conditions



AI INSIGHTS & REPORTS

Actionable insights with powerful
clipboards



NXT Vision's analytics suite covering ANPR/LPR, speed detection, vehicle classification, traffic flow, incident and pedestrian detection, violation and wrong-way detection, density & queue analytics, and environment monitoring – unified into real-time dashboards and reports.



— Get in Touch

Traffic **Simplified**

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