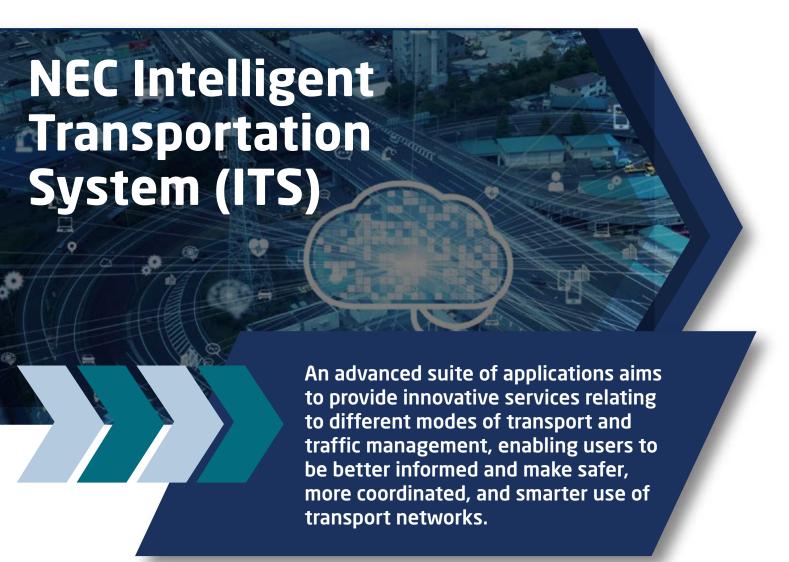


through technology

With the ever-growing urban population world over, increased private vehicles on the streets are becoming a menace. The only way to keep this under control is to have an efficient public transit system. Seamless mobility and transportation solutions are key to encouraging people to adopt public transport and hence reduce the traffic on the street.



NEC ITS focuses on **Improvement in 4 Key Areas** to eliminate the operational and user experience challenges in the Indian transportation sector



Smart Automobiles Smart Infrastructure Sustainable Fuels Intelligent Transport System



NEC's Smart Transportation solutions aim at resolving issues faced by both passengers as well as the operating agencies. NEC leverages the power of ICT to solve social and economic challenges such as traffic congestion in public transport. By applying the experience, it has cultivated over several years of delivering successful projects to customers, NEC is contributing to achieving an eco-friendlier public transportation infrastructure in India and worldover.

Enabling a

Smart, Safe, and Secure Public Transportation System



Processing

- Fare Collection
- Fleet Management
- Incident Management
- Planning & Scheduling
- Passenger Information
- Depot Management

Data Collection









CCTV

Analytics

Business
 Intelligence
 Platform (with
 Smart
 Dashboard)



Planning & Improvements



Smart City Multi-modal

Bus BRT | Railway (MRT·LRT) | Taxi



Depot Management System

Automating the depot operations for public transit systems including HR & Payroll Management, Roster Management, Maintenance Management, Stores & Inventory Management

Automatic Vehicle Locating System (AVLS)

AVLS gives the True Multi-tasking and Multi-user Environment with capabilities to Monitor, Supervise and Control Operations with Real-time Data

Business Intelligence System

Business Intelligence System keeps a check on the revenue, ridership, revenue/km, distance, trips, violations, OTP and IMS with their reporting and analysis tools that drive data-based decisions

Planning & Scheduling System

The objective of Vehicle Planning, Scheduling and Dispatch System is to Enable / Help Transport Planners in Performing Daily Tasks, Efficiently and Effectively

Automatic Fare Collection System

Easy and Accurate Revenue Collection for an Enhanced Travel Experience

Incident Management System

IMS includes the complete suite of solutions, in the physical surveillance category that includes PTZ cameras and the necessary backend video surveillance application, number plate recognition cameras and necessary applications

Mobility as a Service (MaaS)

MaaS is a total mobility solution designed to surpass conventional private transport options via a seamless commuter experience with dynamic journey planning and streamlined payment processes

Passenger Information System (PIS)

Delivers real-time information to passengers traveling on the buses through advanced mobile applications and websites



Some of our **Successful Deployments**





Upgrade city's manually operated, often erratic bus transit infrastructure with a

seamless, safe and reliable intelligent transport management system.



Solution Scope



Automatic Vehicle Location System



EMV based Automatic Fare Collection System



Integration with Card Host System



Vehicle Scheduling & Dispatch Management System



Passenger Information Management System



Incident Management System



Depot Management System (DMS)

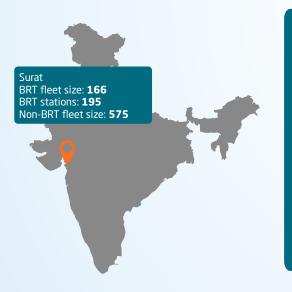


Smart Transport Citizen Portal/ Citizen Mobile App



EMV BASED AFC SYSTEM FOR BRT & CITY BUS, SURAT for Surat Municipal Corporation

Enabling ease of travelling mobility for commuters in Surat city



Solution Scope



Automatic Fare Collection System



EMV Card & QR Code Ticket Validation



ICard Account Management



Fare Management



Blacklisting Management



Reporting

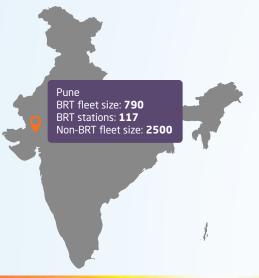




Reconciliation with Card Hosting System



Bus Rapid Transit System (BRTS) in Pune city



Solution Scope



Automatic Vehicle **Location System**



Command **Control Center**



Real-time Passenger Information System

- In-bus displays
- Bus stop displays
- Web / Mobile Application



Operator Analysis and Reporting System



Communication



In-bus Visual and Audio Announcement



Case Study

Vehicle Location Tracking Project, Uttar Pradesh

for Uttar Pradesh State Road Transport Corporation



Uttar Pradesh Buses: **5000** Enforcement Vehicles: 79 Routes: **10,000**



Transform UPSRTC's bus transit infrastructure with an AIS 140-based intelligent transport management system, ensuring seamless, safe, and reliable operations, along with enhanced passenger information and safety features.

Solution Scope



Automatic Vehicle Locating System



Passenger Information System



Passenger Announcement System



20 Regional Control Centre





Intelligent Transport Management System (ITMS) to improve the performance of the Makkah bus traffic



Makkah, Saudi Arabia

Design, supply, installation, testing and commissioning of Intelligent Transportation System for Makkah Bus Project

400 Busses and 80 Ticket Vending Machines & Point of Sale Stations across the city

Solution Scope



Automatic Vehicle Location System



Ticket Validation System



Passenger Information System



In-bus Surveillance



Ticket Vending Machines at bus stops



Electronic Ticketing Machines at point of sale locations and ticket validators in bus system



Case Study ITMS PROJECT, KARWA, DOHA

for Public Transportation System, Mowasalat

Public Transportation System for FIFA World Cup 2020



Doha, Qatar

Design, supply, installation, testing and commissioning of Intelligent Transportation System for Qatar Mowasalat ITMS for 3000 Buses



Solution Scope



Automatic Vehicle Location System



On-board Devices



Passenger Information System



In-bus Surveillance



Vehicle Planning Scheduling



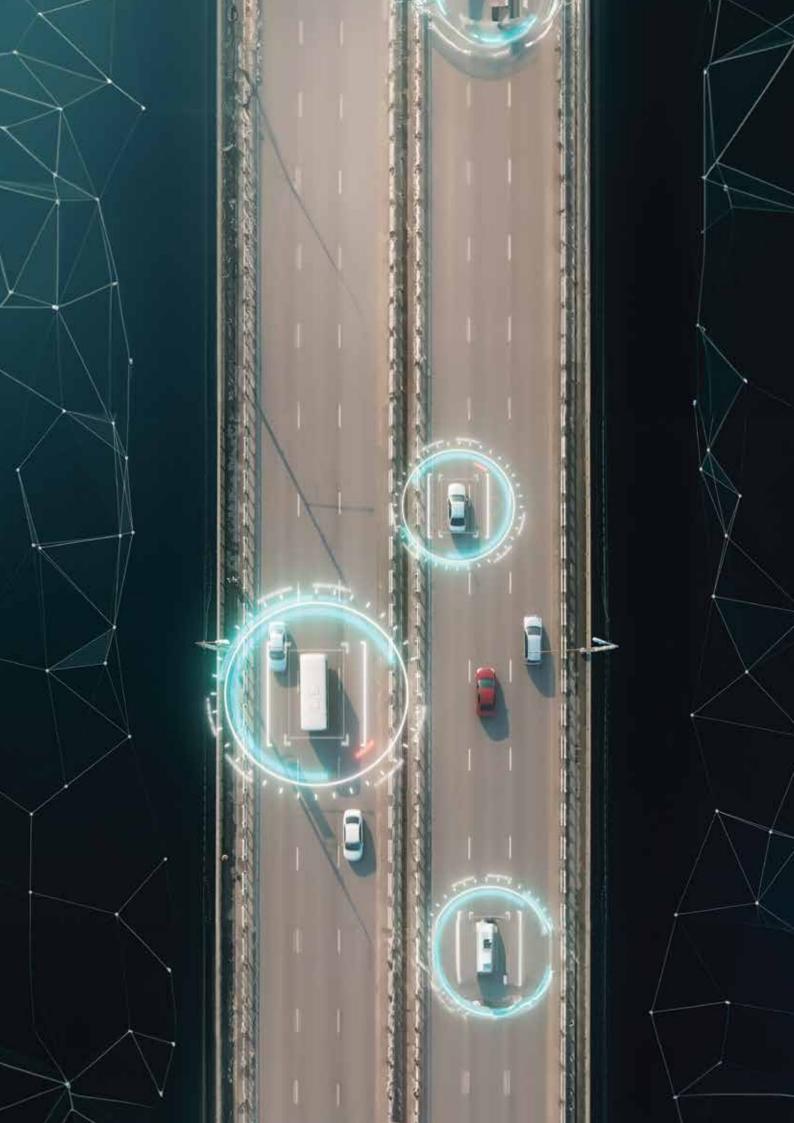
Depot Management System



Parking Management System for buses



Business Intelligence





Why NEC?

NEC possess deep expertise in the design and implementation of Transportation solutions that leverage the most innovative big data techniques including predictive modelling and machine learning (ML). We work by analysing the current transportation technologies to identify the bottlenecks that need to be addresses to tackle issues faced by both passengers and the transport operating agencies. Our mission is to streamline the transport services & amplify customer experience.

1899

160+

106K Employees

49K+

For further queries & demonstration, please contact

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