

# Transportation Solutions

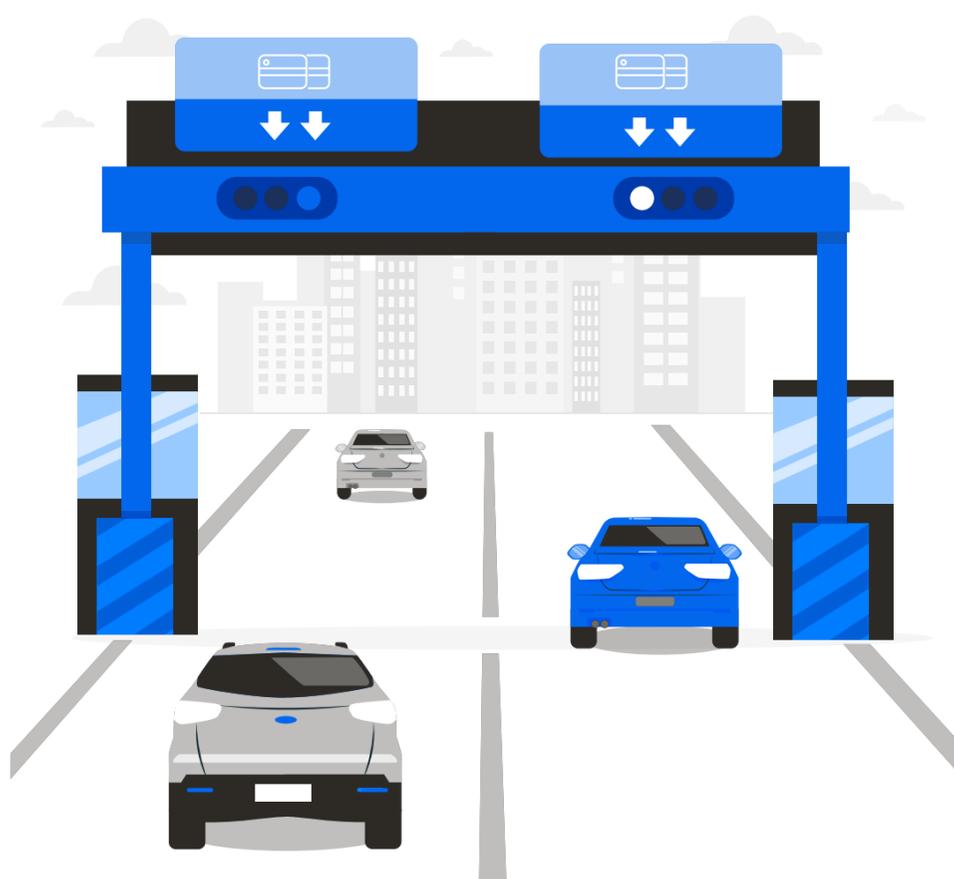


# Solution Overview

Peajo is a cutting-edge smart Tolling Management System transforming the future of transportation. Designed to support a wide range of tolling models from traditional toll booths to advanced open-road tolling and RFID-based systems, Peajo ensures seamless and efficient toll collection across highways, bridges, express lanes, and tunnels.

By combining intelligent automation, real-time processing, and scalable architecture, Peajo empowers tolling authorities to optimize operations, increase revenue, and significantly reduce traffic congestion. It also supports broader infrastructure upgrades, sustainable commuting initiatives, and integration with public transportation systems.

With Peajo, operators can move beyond legacy technologies and adopt a smarter, more eco-friendly, and more connected tolling ecosystem built for the demands of modern mobility.



# Added Business Value



## Infrastructure Funding

Generates sustainable revenue through toll charges, supporting road development, upgrades, and ongoing maintenance.



## Dynamic Recovery & Management

Offers advanced tools and flexible planning to help toll operators effectively respond to infrastructure issues as they arise.



## Smarter Road Usage

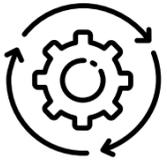
Encourages the use of alternative routes by applying strategic tolling, reducing congestion and easing pressure on busy roads.



## Data-Driven Decisions

Collect accurate data on traffic patterns, vehicle types, and peak hours, empowering operators to optimize road use and prevent disruptions.

# Added Business Value



## **Full Process Automation**

Utilize technologies like RFID and ANPR to automate toll collection, enabling fast, contactless payments and reducing operational effort.



## **Enhanced Safety & Security**

Minimizes traffic jams and accidents while ensuring secure, private payment processing through an integrated digital gateway.



## **Environmental Sustainability**

Reduces vehicle emissions and travel delays, supports public transit, and contributes to better air quality and greener cities.

# Solution Components

## 1 Customer Channels Module (Portal & Mobile App)

Seamless customer interaction through intuitive web portals and mobile applications, offering easy access to tolling services anytime, anywhere.

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## 2 Policies Engine Module

A powerful engine for defining and managing tolling rules and policies, ensuring regulatory compliance, accuracy, and operational efficiency.

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## 3 Vehicle Management Module

Streamlines vehicle registration, classification, and tracking, enabling accurate and efficient handling of all vehicle-related tolling data.

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## 4 User Management Module

Provides secure management of user accounts and access levels, allowing customized control over user roles and interactions.

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## 5 Payment Gateway Module

Facilitates fast, secure, and reliable payment processing between users and operators through an integrated digital platform.

# Solution Components

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## Asset Management Module

Tracks and maintains physical assets within the tolling infrastructure, ensuring optimal operation and timely maintenance.

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## Statistics & Insights Module

Delivers real-time data analysis and performance reporting, empowering operators to make data-driven decisions and optimize revenue and traffic flow.

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## System Administration Modul

Centralized administrative control for configuring, securing, and managing the entire tolling system with ease and flexibility.

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## Customer Support Module

Provides responsive support for drivers, addressing inquiries and resolving issues to ensure high satisfaction and service quality.

# Key Features & Capabilities



## Dynamic Policy Rules Engine

Define and manage complex tolling rules with ease to ensure compliance and adaptable operations.



## Customizable Reporting

Generate detailed, tailored reports for operational insights, performance monitoring, and data-driven decision-making.



## Manual Transactions Review Engine

A powerful rule-based engine for reviewing transactions manually, ensuring accuracy and accountability.



## Dynamic Vehicle Management

Handle vehicle registration, classification, and real-time tracking through a fully dynamic management system.



## Automatic Number Plate Recognition (ANPR)

Enables high-speed, contactless vehicle identification to maintain smooth traffic flow without stops.

# Product Modules & Features



## E-Wallet Integration

Users can top up and manage e-wallets for fast, convenient toll payments.



## Manual Optical Character Recognition (OCR)

When ANPR fails, Peajo enables manual plate verification by authorized personnel, ensuring accuracy.



## GNSS Tolling Support

Supports Global Navigation Satellite System tolling using onboard units (OBUs) for distance-based charging.



## DSRC Tolling Compatibility

Enables fast and secure tolling through Dedicated Short-Range Communication, known for its low latency and high reliability.



## RFID Tolling Integration

Detects and verifies vehicles using RFID tags, often used alongside ANPR for enhanced accuracy and reliability.

# About Us

At Tahaluf Al Emarat Technical Solutions, we specialize in delivering cutting-edge IT and cybersecurity solutions that empower businesses to thrive in a dynamic digital world. Since our founding in 2015 in Abu Dhabi, we've rapidly grown into a trusted name across the UAE and beyond.

Driven by innovation, expertise, and a passion for excellence, our team works closely with clients to enhance operational efficiency, ensure continuity, and create lasting value. With a strong focus on emerging technologies, we help organizations stay ahead of the curve while building a secure and sustainable future.