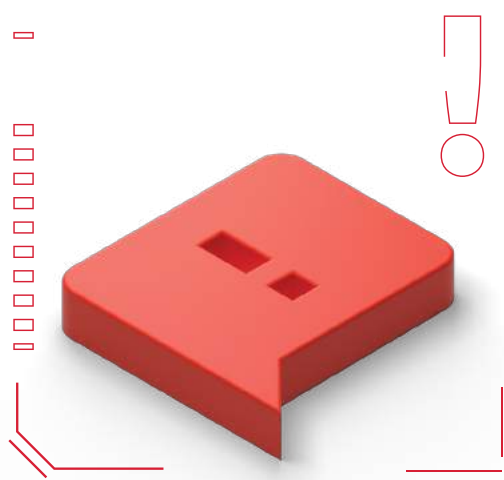# ABER My Road

Product Overview

Transportation networks have always been a key indicator for thriving economies and an instrumental player in shaping the future of our societies. As a result, today's governments are more eager than ever to update their road systems to address urbanization, reduce pollution and improve overall safety.

Tahaluf has developed a smart infrastructure solution for day-to-day traffic management, that caters to long-term transportation needs.

We proudly present "ABER My Road", an intelligent tolling system that operates without traffic barriers or kiosks; hence, ensuring safety and maximizing efficiency while minimizing the impact on traffic flow.
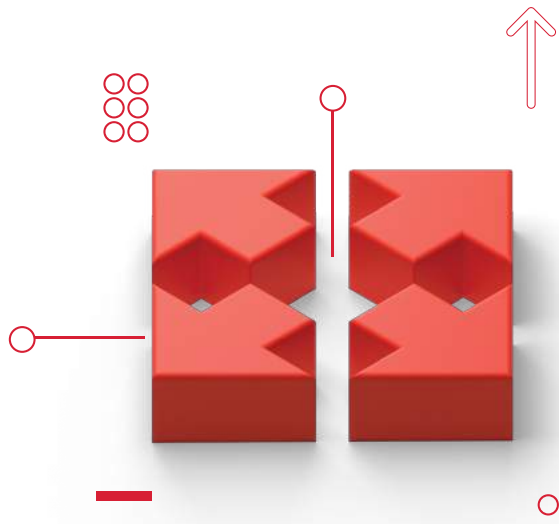
Benefits

With the successful implementation of Tahaluf' s Road Tolling System, stakeholders have reported increased efficiency, reduced congestion and a boost in infrastructure projects

More particularly, they were able to:

Increase operational efficiency, while reducing operational costs

Optimize organizational resources and enhance governance by automating the business processes

Provide visibility on traffic flow to enable optimal planning of the road network for a more efficient traffic movement and reduced congestion

Improve and optimize toll revenue collection

Control changes in traffic laws and business rules in real time

Promote the use of public transportation systems and reduce individual vehicle use

Encourage trip planning to choose cost-efficient travel times, thus positively impacting the sustainability of the transport sector and preserving both infrastructure and environment
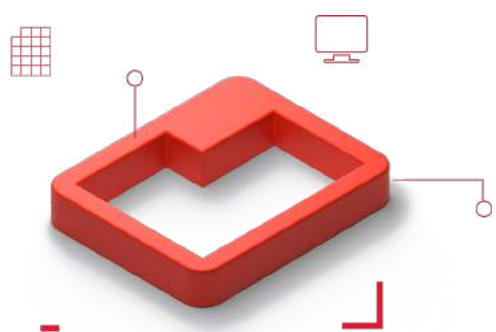
Provide a contactless solution
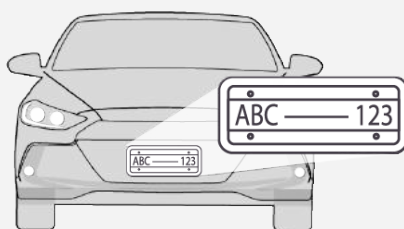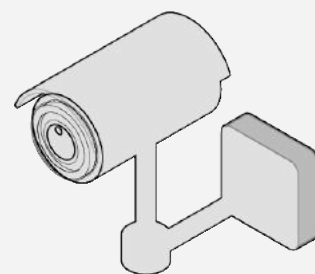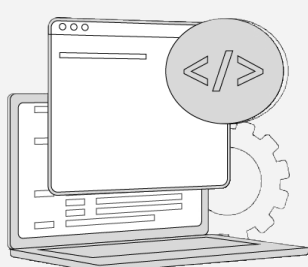
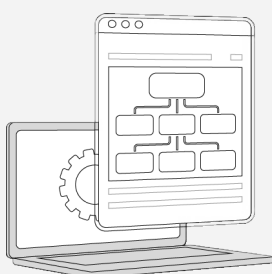Offer value-added services

Modules

Gates

Manual optical character recognition
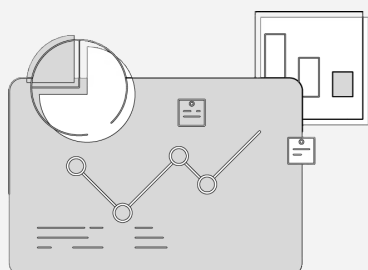
Automatic optical character recognition

Back-end solution
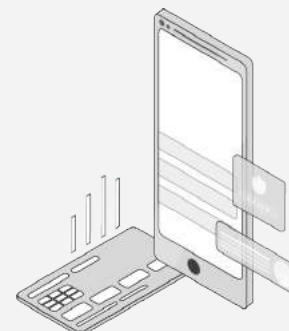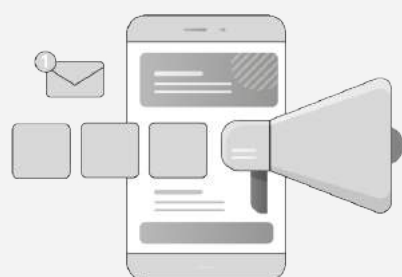
Front-end solution
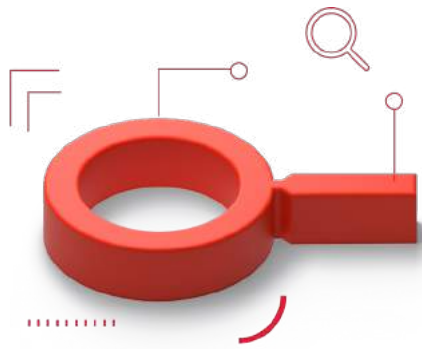
Mobile app

Business intelligence

Payment gateway

Notification gateway

Operation & customer service

Features

○ Implementation of policy engine for real-time configuration of tolling business rules and traffic law changes,including tariffs configuration, gates operating hours, and fines

○ Automation of the toll crossing process through the Automatic Number Plate Recognition (ANPR), a system that identifies the crossing vehicle, validates its registration, checks its account balance, performs the deduction, while observing violation rules

○ Integrated with MAESTRO Business Process Management suite to initiate manual verification in case of low ANPR accuracy. In such cases, the requests will be routed to different users based on their access permissions

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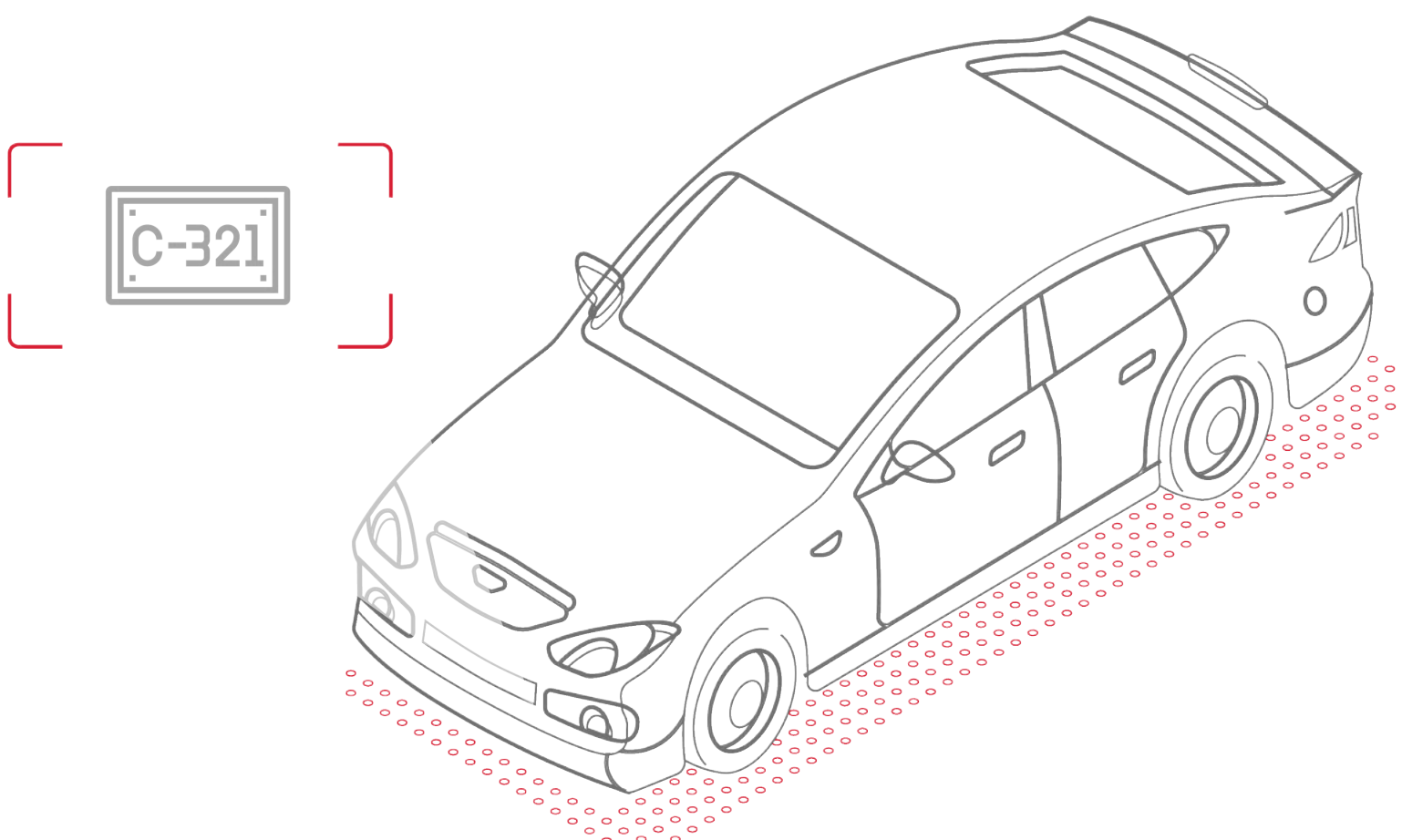
○ Supports a variety of payment methods (cash, credit card, e-wallet)

○ Automatic payment processing

○ Digital video audit system to capture and store continuous footage of vehicular activity in the toll zone

○ A smooth and flexible mechanism to submit requests for exemption, grievance, or complaints in the event of incorrect fines movement

○ Strategically designed, easily deployable and exceptionally accurate toll gates, highly resistant to extreme weather conditions

○ User-friendly platforms for registration, managing profiles and accounts, and completing transactions

○ Diverse delivery channels for end-user access (website, smart app, kiosk, service centres)
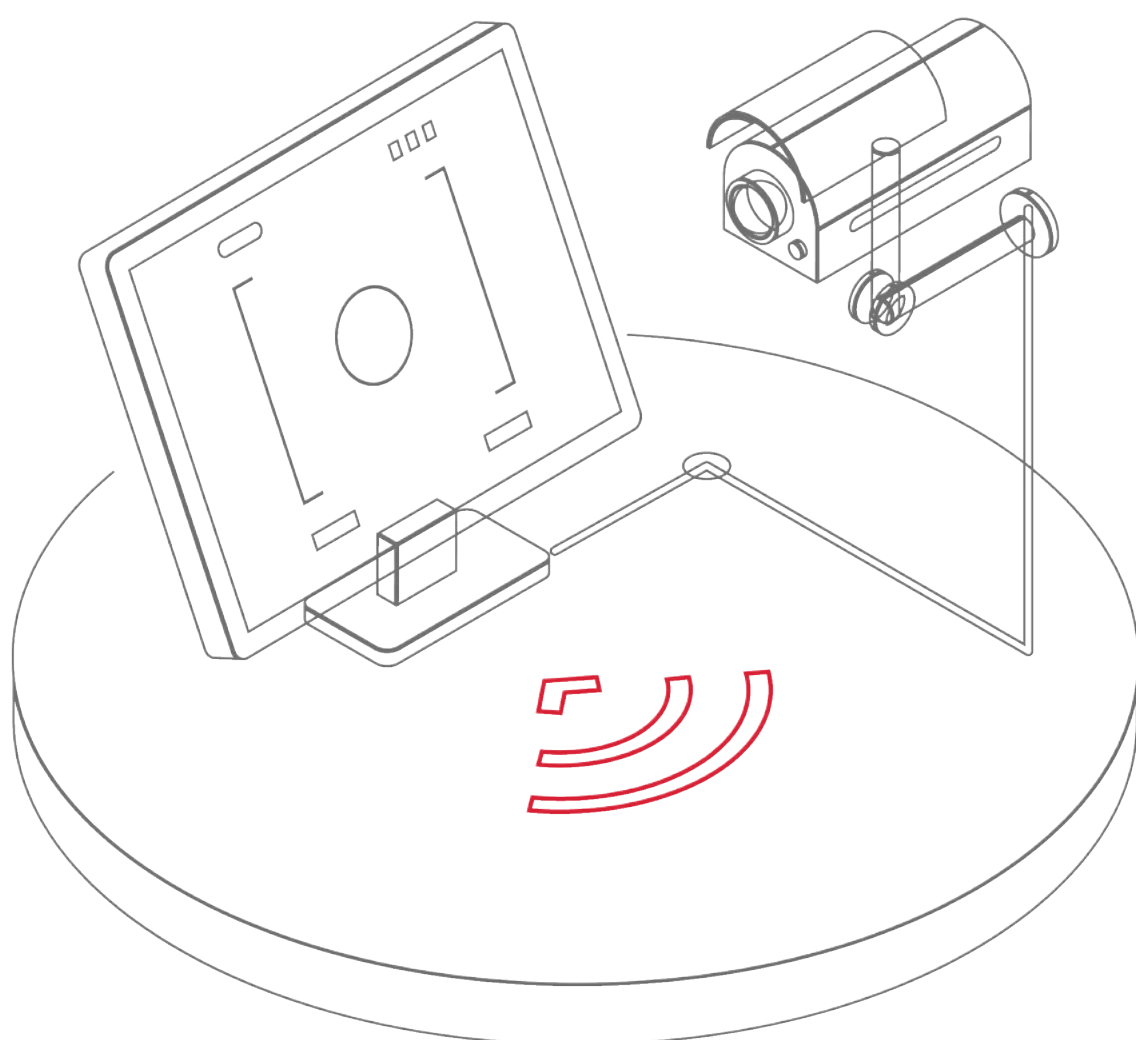
○ Real-time traffic camera feeds with live alerts for the command centre whenever and wherever an incident occurs

○ Easy and flexible remote management of the Gates, Lanes, and Cameras

○ Easy integration with banks and financial institutions through a flexible payment gateway

○ In-house developed optical character recognition (OCR) system that utilizes artificial intelligence technology

○ Easy integration with other systems

○ Cutting-edge technology delivering high performance

○ Customizable solution based on customers' requirements
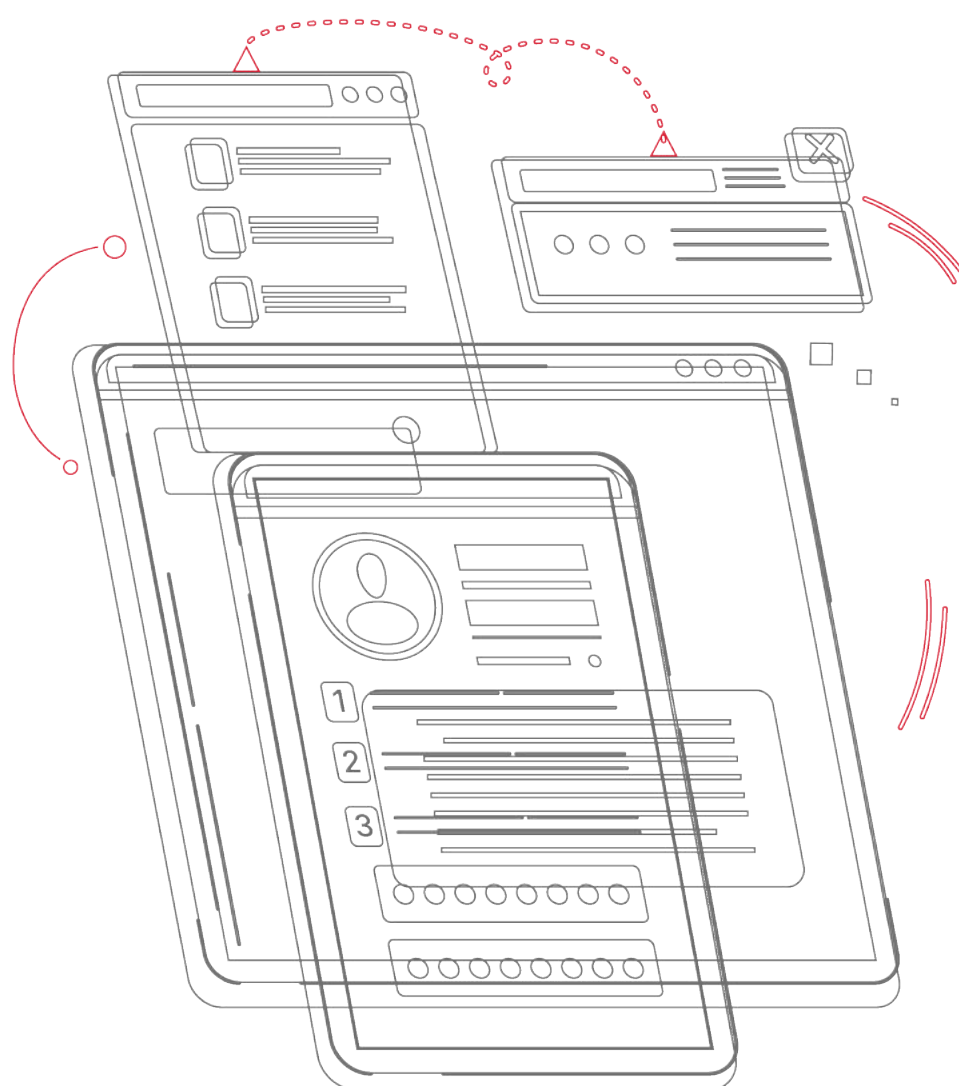
Gantries

A toll gantry is a structure that spans the road without the constraint of a physical road barrier. It is a free-flow electronic toll collection support with the following components:

- The Gantry Structure

- Racks

- Radars & Cameras

- DPU units

- The VMS screen and its components (Media Player , cables)

- Router & switch

- NVR for Cameras

- Security Cameras
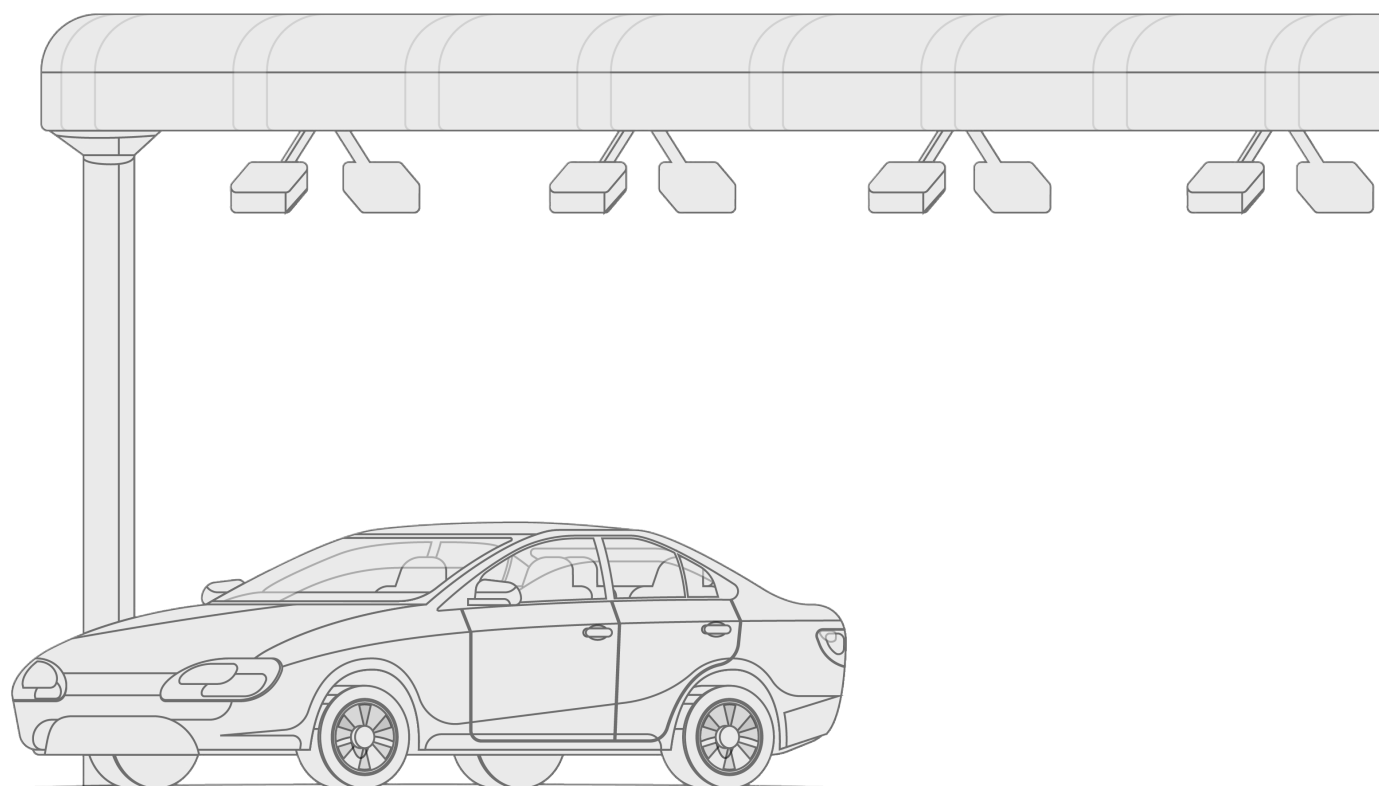
About Tahaluf

In an effort to define the digital landscape for the region, Tahaluf was established in 2015 as a strategic initiative for the nation's quest for digital transformation.

Since its inception, Tahaluf has strived to provide the latest state-of-the-art solutions and services to keep businesses secure and at the forefront of the future. By solidifying its position as an innovative industry leader offering integrated solutions and services across the country and internationally, Tahaluf has established itself as a leading national presence in IT and cybersecurity.

Tahaluf's growing legacy has become intrinsically woven into the technological advancement of the UAE, shaping, and elevating the government's determined strive to achieve its ambitious vision built around smart cities and infrastructure developments. With this vision, Tahaluf intends to continuously cultivate innovation and transformation, provide cutting-edge security solutions, and create a future of possibilities in the UAE and beyond.

WE DO IT WITH PASSION