




SICE | TECHNOLOGY
FOR PROGRESS



Tolling
Capabilities

About us



SICE is a **leading multinational company in the integration of technologies** for public infrastructure management.

With over 100 years of history, SICE has become an international benchmark in providing comprehensive solutions for each phase of a project, from consulting to operation and maintenance.

At SICE, we develop state-of-the-art integrated solutions and applications based on data science and artificial intelligence technologies. Through seamless integration of in-house innovations and third-party systems, we provide value-added services across the following areas:



Tolling Capabilities



Innovative Solutions adapted to the needs of our clients.

Our commitment to cutting-edge technology ensures that our tolling solutions are tailored to meet all levels of toll collection and all business models and technologies available on the market. With a forward-thinking approach, we design tolling solutions that are scalable, adaptable, and future-proof.

TOLLING SOLUTIONS





Success cases around the world

1988 - Onwards

CONVENTIONAL TOLLING



1998 - Onwards

SHADOW TOLLING



2002 - Onwards

FREE-FLOW
ROADSIDE EQUIPMENT



2002 - Onwards

TOLLING BACK OFFICE
SYSTEMS



SIDERA Tolling



A comprehensive Operational and Commercial Back-Office System solution that addresses the specific needs of tolling operators using any type of Electronic Toll Collection system. It is mainly composed of two large blocks: Operational Back-Office and Commercial Back-Office.

Business Intelligence

It offers a series of open, high-performance management tools, such as dashboards, predictive analytics and operational reports.

Artificial Intelligence

Seeking to minimise operational costs by reducing the number of images requiring manual processing.

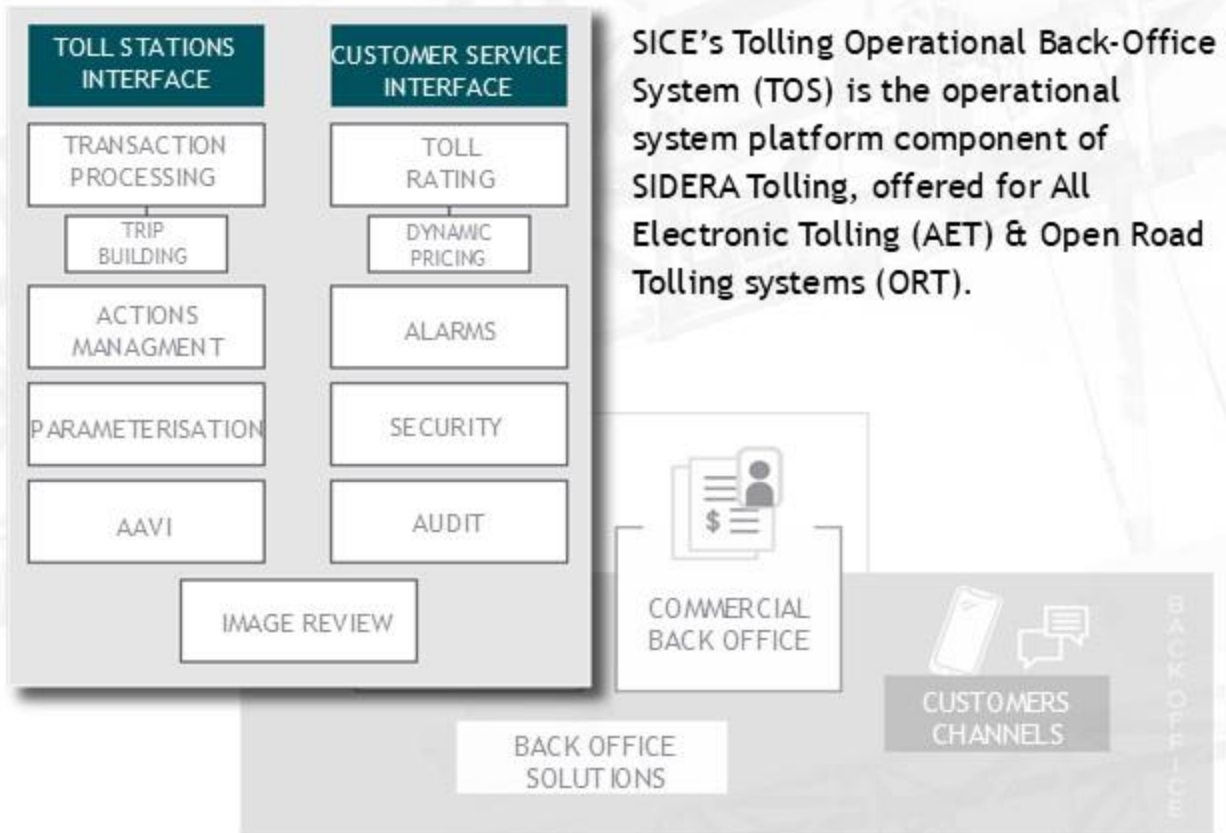
Pay Per Use and Congestion Charge

It has a high level of flexibility to incorporate different pricing criteria in line with the interests of our customers.





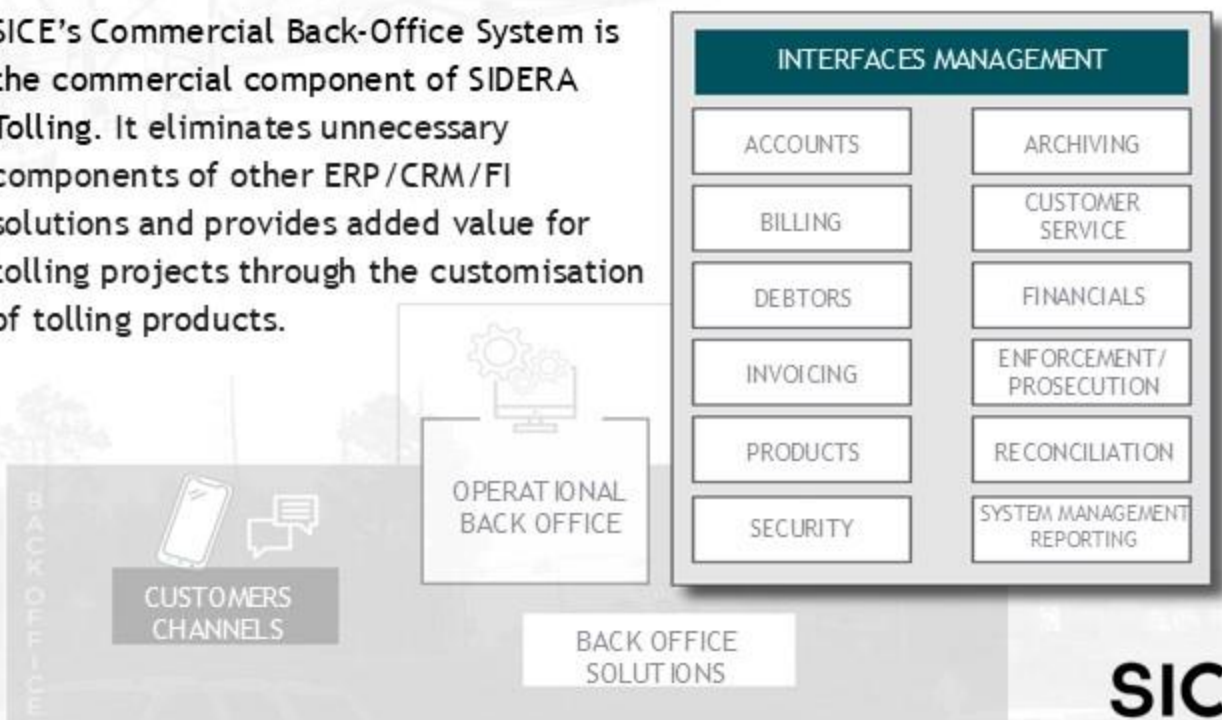
Operational Back Office



Commercial Back Office



SICE's Commercial Back-Office System is the commercial component of SIDERA Tolling. It eliminates unnecessary components of other ERP/CRM/FI solutions and provides added value for tolling projects through the customisation of tolling products.





Roadside Solutions

We deliver communications solutions to provide the required connectivity for a transport network.



Vehicle Detection and Classification Systems

It handles detecting the dimensions, shape, brand, and model of the vehicles passing through the toll point using cameras, loops, and/or LiDAR technologies.



Automatic License Plate Recognition

Captures vehicle images with visible license plates (front and rear) and identifies them by processing the image using Optical Character Recognition (OCR).



Dedicated Short-Range Communication Tag Detection System

Obtains the data contained in the tag transponders installed in the vehicles driving through the toll point.



Independent Vehicle Detection Systems

The IVDS performs a secondary detection of vehicles passing through the toll point in order to validate the results provided by the main VDC.



Video Surveillance and Recording Systems

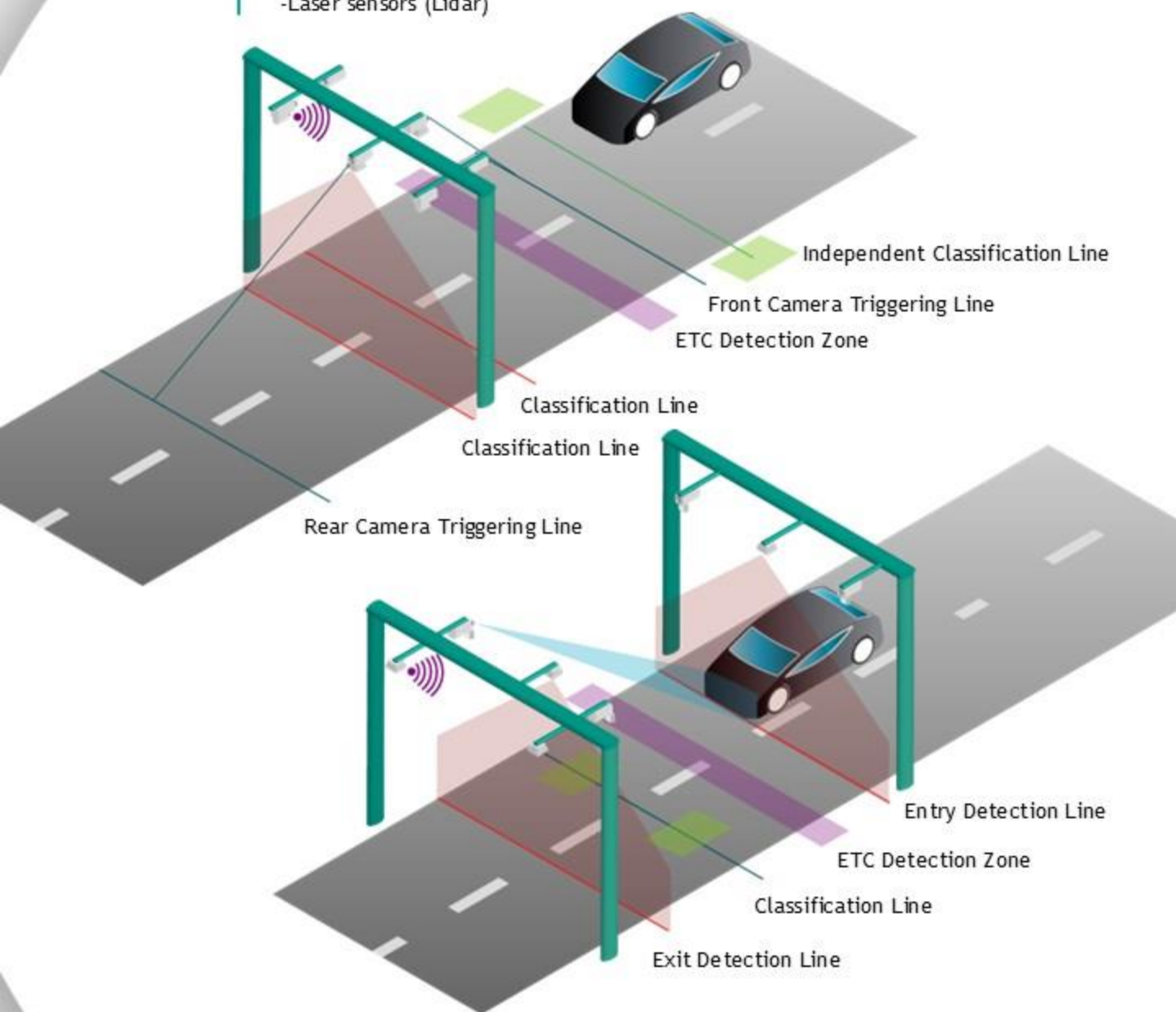
Based on a Digital Video Management System (DVMS), this solution allows the operator to monitor the entire area surrounding the toll points for both auditing and security reasons.

● VEHICLE DETECTION AND CLASSIFICATION:

- Stereoscopic cameras
- Axle counting cameras
- Smart loops
- Laser sensors (Lidar)

● ELECTRONIC TOLL COLLECTION DEVICES

Electronic toll collection (DSRC or RFID)



● IMAGES CAPTURE FOR AUTOMATIC LICENSE PLATE RECOGNITION:

- Videotolling and/or offenders enforcement
- Front and/or rear license plate
- General overview of vehicles

● AUXILIARY EQUIPMENT

- Illumination
- Power/Electricity
- Security
- Communications, etc.

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