



Smart  
Mobility



# SMART MOBILITY

One of the main challenges cities currently face is the mobility management within the city. The increase of the population pressure in urban areas implies an increase of daily transfers and has become a true challenge for the administration of cities to achieve a sustainable mobility policy.

This policy seeks to reduce contamination from vehicle emissions, increase road safety and improve citizen experience by optimizing their commute to their work centers, homes or tourist destination.

SICE provides comprehensive solutions in the field of smart mobility, through their initiatives for public transport, urban and interurban mobility, and the management of conventional and free flow toll systems.

In the field of urban and interurban mobility, the complete solutions for tunnels and urban and interurban traffic, parking management, public transport priority system, travel times, smart crosswalks, connected vehicles, and the management and treatment of traffic violations, stand out among others.

In public transport, the on-board solutions on trains and trolleys, the comprehensive management of multimode stations, and solutions developed in busses for the location, automatic speed control, efficient driving, monitoring, maintenance and fleet control, are benchmarks.

Lastly, SICE is an expert in conventional and free flow toll system management, as shown by our many successful projects developed around the world.

All of these solutions are integrated in **KALIOPE**, the integrated management platform for all the smart systems of a territory designed by SICE, based on Quality of Service (QoS) indicators that are easily measured and support the decision-making process, which is capable of establishing active communication channels with the citizen and enables the improvement of the coordination and efficiency of the services rendered.

**KALIOPE** thus becomes the core and fundamental piece that integrates all the services and systems of each project.

## SMART CONCEPT BY SICE

SICE's new SMART CONCEPT seeks to break down the barriers of smart cities and commit to a broader concept, providing this same intelligence to a group of municipalities, a region, a community or even, in the future, a country. In short, regions or territories sharing common characteristics, their own identity, or certain elements or ties that bring them together somehow. These ties could be tourism, a shared natural environment, the same social strategy or structure, etc.

Many of the proposals included in SICE's Smart Concept have been implemented and have been providing services to citizens for a long time. The current goal is to provide these services with more intelligence and, above all, interconnect them with the goal of achieving sustainable development.

SICE has been developing an applying these technologies for years, thus becoming a benchmark pioneering company in the Smart concept.

## URBAN AND INTERURBAN MOBILITY

The main goals of the solutions provided by SICE in urban and interurban mobility are:

- To reach optimal and efficient management of mobility in cities. Increasing road safety.
- To improve the user experience by saving time, resources and efforts in their mobility.



For this purpose, it is used solutions developed by SICE engineers, such as:

- Comprehensive urban traffic management, using **ADIMOT** software and traffic signal controller **MFU3000**, manufactured by the company.
- Comprehensive tunnels and interurban traffic management with SICE's proprietary software, **SIDERA**.
- Solutions to increase the safety of pedestrians and drivers such as **SAFECROSS**, violation infraction systems and connected vehicles.
- Solutions to improve user experience as, for example: parking management, electric recharging systems for vehicles, travel times, user information through variable message panels, public transport priority systems, etc.

## PUBLIC TRANSPORT

The main solutions developed by SICE in the field of public transport are:

- **Security solutions and communications for metro-railway infrastructures.**
- **SISTATION.** Multi-mode transport center, that integrates the set of systems and functionalities needed to operate a multi-mode center under a unified graphic interface.



- **Passenger information system** that can improve user experience and reduce wait time while optimizing connections.
- **Automatic fare collection system. Ticketing.**
- **BRT turnkey solutions.** A BRT (Bus Rapid Transit) solution that can provide an attractive infrastructure that promotes local economy and the quality of life of the users in medium-sized cities.



## TOLLS

With over 20 years of experience in the development of toll systems, SICE implements these solutions in many countries, adapting designs to each specific situation. The solutions offered by SICE for different areas are:

- **Conventional toll.**
- **Free flow toll.**
- **Shadow Toll Module.**
- **Mixed toll.**
- **BackOffice Subsystems.**

International market leader of **multiple lane Free-Flow Tolls**, SICE develops projects with over 10 million transactions / day, thus becoming the most reliable partner in the global toll industry.

