Specialist on Smart Solutions for a developing world
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The multinational technology integration company SICE Tecnología y Sistemas mainly focuses its work on providing added value services through the integration of a range of in-house and third party technologies and systems, always with the aim of offering the best solution tailored to each customer, and of providing:

Thanks to the professionalism of its human resources, since the establishment in 1921 of its leading company SICE, the group has successfully evolved and nowadays has a consolidated scope of solutions and systems and a wide range of services.
**SICE Tecnología y Sistemas** carries out its activities in the ACS Group’s Industrial Services area, one of the largest references in the world in the applied industrial engineering sector.

The solidity of the SICE TyS group is guaranteed by the diversity and specialisation of seven companies, whose wide-ranging experience in the product and services development at a multinational level strengthens the group’s position as a **world leader** in the industrial engineering sector.

SICE has the **capability to work** on all project phases, from conception to integration and operation.

1| **Technical support**

Provision of services in the phases of preliminary analysis, functional requirements, technical specifications and detail engineering.

2| **Integration**

Supply, installation and integration of associated subsystems. Development and manufacturing of associated on-site elements.

3| **Operation**

Technical support and participation in the operation, conservation and maintenance of systems.
SICE offers support and solutions to customers regarding the problematic issues caused by the urban traffic.

**ADIMOT** is a fundamental platform for correct system maintenance and operation, focused both on operators as well as specialist traffic engineering personnel. The platform is designed for any type of city - small or large - as it can be adapted to solve specific mobility problems.

ADIMOT is a fundamental tool of SICE's Smart City platform.

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**SMART MOBILITY. CENTRALIZED TRAFFIC CONTROL**

Software ADIMOT. Design and development.

**URBAN TRAFFIC REGULATION**

Design, development and maintenance. Regulators, red light photo system, variable message panel, etc.

**TRAFFIC ENGINEERING**


**TRAFFIC CONTROL**

Public transport priority. Access to residential or restricted areas. Control of parking spaces reserved for the disabled. STOP signal infraction. BUS lane access.
SICE is specialized in the integration of different subsystems that make up an ITS.

The company works providing motorways with intelligence, installing several equipment controlled by its own software, with the aim of increasing security, improving mobility and comfort, optimizing the installations and providing useful information to users in real time.

**INTEGRAL AND GENERALIZED MANAGEMENT**
Motorways and tunnels management integration in a unique multi-language graphic interface.

**OPERATION**
Operating support specific modules.

**INCIDENT MANAGEMENT SYSTEM**
Automation tools to create response plans.

**EVOLUTION AND EXTENSION**
Modular expandable architecture that facilitates technological advances and new functionalities incorporation.
SICE’s transport activities focus on meeting the needs of users, operators and transport operations concessionaries.

As a systems integration and supply company it offers unique technological solutions tailored to this type of installations.

The company designs the centralized management of all services that complement any form of public or private transport and integrates different solutions and systems.

**CENTRALIZED MANAGEMENT**
Real time monitoring tools. Tools for scheduling, events management, reporting and auditing. Scalability based on modular design and open technologies.

**SECURITY SYSTEMS**
Efficient, safe and reliable systems. Functionalities adapted for each project to the operational and operation transport model. Railways safety solutions designed and certified under maximum safety level SIL-4 “fail safe”.

**COMMUNICATIONS NETWORK**

**PASSENGER INFORMATION**
Dynamic information platforms. Easy to understand for users in order to provide a friendly environment.
SICE provides solutions to all customer requirements and offers customized technological solutions applied to fields as diverse as hydrology, meteorology, water and air quality and hydraulic infrastructures.

It has also evolved its traditional public lighting activity that it has been carrying out since 1921, and is currently incorporated as an Energy Services Company.

**ENVIRONMENT AND ENERGY EFFICIENCY**

**HYDROLOGY AND WATER RESOURCES**
*Customized solutions for river basin management authorities for adequate management and operation.*

**HYDRAULIC INFRASTRUCTURE**
*Engineering, construction, automation and control, operation and maintenance services of all kind of infrastructure.*

**AIR QUALITY**
*Modern monitoring systems that guarantee air quality to citizens and ecosystems and allow measures to be taken if needed.*

**ENERGY EFFICIENCY AND LIGHTING**
*Installation, maintenance, supply, monitoring, Smart City integration, engineering, consultancy and auditing.*
Comprehensive management platform for all Smart Systems from the city.

Based on quality of service indicators (QoS) easily measurable and supporting decision making. Capable to establish communication channels and improve coordination and efficiency in service delivery.

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**Optimal and Efficient Management of Mobility within Cities**

Relevant data of real time traffic, increasing efficiency at downtown and suburbs of cities.

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**Customized Solutions for Environmental Impact Surveillance**

Real time management of the environmental conditions (water, air, waste) within the city.

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**Energy Efficiency Control of Public Management Systems**

Energy savings on public lighting installations and buildings energy consumption management.

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**Information Services to Citizens**

Participatory processes of people within cities connecting data, citizens and knowledge.
SICE Seguridad is an **approved specialized company** for the installation and maintenance of fire protection systems and all parts of security systems.

SICE Seguridad shares with customers its vision of the business and sector knowledge and works to **assume customer objectives as their own**, with high levels of commitment, such that its security projects and solutions provide high added value to organizations.

**INTEGRATION CAPACITY**
*The system allows distributed security installations to be managed, monitored and controlled, and integrates the component systems.*

**SAFE CITIES**
*Specialized in the innovation, integration and quality of security services required to respond to all requirements included within the protected environment of a public, smart and safe city.*

**SECURITY CONTROL CENTRES**
*Consultancy, design, construction, operation and maintenance of a range of control and alarm reception centers. Turnkey solutions.*

**CONSULTANCY PROCESS**
*Analysis of all information related to risks, threats and vulnerabilities in order to propose an adequate treatment and solution to provide a satisfactory set of global measures.*
Through its subsidiaries TELSA and Sistemas Radiantes F. Moyano, the SICE TyS Group is an integrator of the main structured cable solutions such as Systimax, Brand Rex, Panduit, TE and Corning, among others.

SICE's staff are certified in the most advanced intelligent management systems, both in a corporate environment and a data center environment, having integrated solutions for more than 17,000 ports.

**Communications Infrastructure**

- **Radiating Systems and Towers**
  - Lattice towers, tubular towers, camouflaged systems, medium wave antennas, FM antennas, UHF antennas, mobile telephone antennas, special band antennas, etc.

- **Emplacements for Operators**
  - Turnkey projects. Rolling out communication networks. Constructing sites both in urban and rural locations.

- **Outside Plant**
  - Design, installation and optical fiber network testing for outside plants, both for operators (FTTH and FTTN networks) and for infrastructure management companies.

- **Multi-Service Networks**
SICE has experience in EPC (engineering, procurement and construction) projects for the modernization of infrastructure, plants and processes in the hydrocarbon production chain, from on-site phase separation to storage and distribution terminals, including the various processes involved in refining and transport.

**GAS AND OIL**
Customized solutions for hydrocarbon flow metering, R&G systems, ESD and optimization of processes at surface production facilities.

**PLANT AUTOMATION**
Automation of hydrocarbon storage terminals including measurement, operation and control of all plant sub-systems and SAP R3 systems integration.

**SCADA AND DISTRIBUTED CONTROL**
Development of solutions for monitoring and controlling industrial processes.

**OFF-SHORE SPECIALIZED WORKS**
Specialized works at off-shore platforms, such as telecommunications networks, fire and gas systems, etc.
OFITECO offers comprehensive solutions in Instrumentation and Monitoring of civil infrastructure, such as dams, tunnels, bridges, viaducts, singular buildings and energetic installations.

The company carries out geotechnical, structural, seismic and hydrological monitoring tasks. It develops functional and detailed analyses of all elements in the monitoring system, such as sensors, communication and automation systems, including their calibration and setup.

**INSTRUMENTATION AND MONITORING**

**INSPECTION AND COMPREHENSIVE SURVEILLANCE**
Solutions accurate, representative, accessible and updated data, for a more efficient management of infrastructure safety.

**INSTRUMENTATION AND AUTOMATION**
Design, supply, implementation and setup, data management, and the preparation of dam behaviour reports.

**DAMS EMERGENCY ACTION PLANS**
Design and implementation of different systems for prevention and correction of dam warning or emergency situations, and decision-making support.

**WEB SOLUTIONS (DAMDATA, TUNNELDATA Y BRIDGE DATA)**
Real-time data management, mathematical modelling, evaluation tools, warnings management, and generation of multi-measurement reports.
SICE TyS Group, through OFITECO, offers specialised engineering and consultancy related to hydraulic civil works (dams, flood protection, hydrometeorological networks and urban water infrastructure) and transport (roads, highways and railways).

**ENGINEERING AND CONSULTANCY**

**DESIGN ENGINEERING**
Preliminary studies, feasibility studies and detailed design. Preliminary project drafts and construction projects.

**SUPERVISION OF CIVIL WORKS**
Quantitative control. Quality control of the works with laboratory testing.

**CONSULTANCY**
Geology and geotechnical, hydrology and hydraulics, environmental impact assessment, inventories, expropriations and the restoration of affected services.

**OPERATION AND MAINTENANCE**
Support to operation of hydraulic civil works, as well as corrective, preventive and predictive maintenance.
**SICE** is a systems integration technology company dedicated to addressing and resolving market needs in the fields of traffic and transport, the environment and energy, telecommunications and all types of industrial processes.

Present in over 30 countries across 5 continents, **SICE** has the capacity to work on all phases of a project, from design to operation. This knowledge, along with a consolidated group of products and a wide range of services has allowed **SICE** to position itself as an international benchmark for the development, construction, maintenance and operation of systems in different types of infrastructure.

**OFITECO** is a Spanish international engineering company established in 1971 specialized in services related to dams instrumentation, bridges, subways, undergrounds works and road and railway transport infrastructures.

Its main activities are:
- Consultancy specialized in hydrological resources.
- Design of hydraulics and transport works.
- Technical assistance, management and supervision of hydraulics, transport and environmental works.
- Instrumentation, auscultation and monitoring systems in dams, tunnels and viaducts.
ENYSE is an industrial company dedicated to provide technological solutions to railway systems (security, signalling and railway traffic control). It offers products which meet the maximum requirements of the signalling industry and security installations, such as: latest generation EIS23 electronic interlockings, level crossing protection system via PNR E-300, communications, the new integrated control centre ENYSIC for interlockings and level crossings, integration of the ERTMS L-1 system in its electronic interlockings.

MOYANO TELSA Sistemas Radiantes y Telecomunicaciones, S.A. was born in 2017 as a result of Sistemas Radiantes F. Moyano S.A. and Telsa S.A. merging, both with more than 50 years of experience within the telecommunications sector. This union is reinforced thanks to Moyano’s expertise in engineering, designing, manufacturing and installing antennas, towers and concealed infrastructures and Telsa’s experience installing communication solutions, data centers, structured cabling and electricity. The company has a state-of-the-art equipment and know-how that allows it to be present at national and international level.

Since 2006, SICE SEGURIDAD offers comprehensive security services through an optimized quality management. It is a company approved for the installation and maintenance of security and fire protection systems. It provides its clients with an added value through its counselling about real security needs. Indeed, among its services it is possible to find counselling, consultancy, integration, installation and maintenance.

SUMIPAR is manufacturer of access control and toll systems, pioneer for the manufacturing and supply of toll and parking barriers in Spain thanks to its capacity to configure its systems according to the clients requirements, always at the technology forefront. Present on the market since 1973, its main activity focuses on the start-up and maintenance of in-house or imported access control equipment, aimed at supplying the best solution.
SICE Tecnología y Sistemas is present in over 30 countries across 5 continents.