

## SMART MOBILITY

Technology, finance and solutions at the service of citizens, local economy and environment.

### APPROACH

One of the tasks of a local Public Administration consists in planning mobility systems in a rational, efficient and sustainable manner. Nowadays, mobility develops in a dynamic context: technology and connectivity are taking on a central role and this also becomes a strategic factor for pursuing institutional tasks. Cities are seeing a growing need for Intelligent Transportation System solutions based on the use of IoT for mobility monitoring and control and for governing systems for timely and widespread services and information to users. Means and people are increasingly interconnected, producing data collected in public and private silos, waiting to be integrated and used to tackle the challenges of mobility, improving citizens' quality of life and public service.

### SOLUTION

Municipia offers solutions and services to preside over urban mobility and everything that affects the road infrastructure (private vehicles, buses, bikes, pedestrians, etc.) as an integrated multimodal system, optimising the use of economic, human and environmental resources for greater sustainability. Municipia has a suite of platforms and hardware, software and IoT products able to integrate existing systems and infrastructures by placing them in an open and interoperable environment and to implement dynamic and proactive public and private mobility management models. Integration with third-party systems allows public administrations, municipalities and private providers to achieve unprecedented levels of efficiency and understanding in mobility management.



# SMART MOBILITY, SMART PARKING AND CITY LOGISTICS

## INES CLOUD

AGID qualified SaaS platform used by numerous cities in Italy and abroad for the unified management of urban mobility. It offers tools for configuring access, transit and parking rules, for the issue of permits and authorisations both by an operator at a physical desk and in self-service mode through an online desk, for the management and implementation of the systems and of the HW/IoT devices created by the main manufacturers on the market, for analysis and economic-financial and operational reports in table and graph format.

## TAP & PARK, SMART FINES, mOBUS

three distinct mobile apps:

- **for end users** to pay for parking and mobility services (season tickets, daily permits, bike sharing, etc.) and info mobility services
- **for road control officers** for checking and sanctioning
- **for commercial vehicles** for rewarding services and incentives based on stopover time or on the kilometres travelled.

## PARKING SPOT SENSOR

LoRaWAN wireless sensor that detects the occupation of parking spaces for a variety of services for both the user and the provider: info-parking and directing to available spaces, optimisation and efficiency of control and fines, punctual analysis and reports for better knowledge of parking activities, implementation of dynamic management and payment models (PayBySpace, PayByPlate, Dynamic Pricing).

## MUV CLOUD

platform for the management of MaaS - Mobility as Service offers which allows the integration of the various public and private mobility services of the city, from public transport to sharing services, parking and access schemes, with trip-planning functionality, integrated ticketing of the various methods, user management and data analysis in real time for a precise knowledge of mobility behaviour.

## RFID MOBILITY PASS AND RFID MOBILITY GATE

electronic devices for the digital identification of vehicles and people that allow the creation of access control services in Free Flow and Fast Access mode and the enforcement of Access Control Schemes (Congestion Charge, RTZ, APU) for specific types of vehicles, people and goods, etc.



# ADVANTAGES




- Overcoming **the fragmentation of silo systems**, both hardware and software, and the integration of multiple technologies and applications, allow to provide citizens and businesses with more effective and targeted services, modelled on their actual needs.
- Implementation of **predictive and proactive mobility management models**: from access, transit and parking policies - which take into account the social and environmental impact - to the digitalisation of services for citizens and businesses, leading to the creation of a knowledge base and of analysis tools for spatial planning.
- Thanks to IoT devices and networks and to integrated info-parking services, motorists receive **real-time information on parking**, drastically reducing search time and, more generally, urban traffic, with positive impacts from a social, environmental and economic point of view for commercial establishments.



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