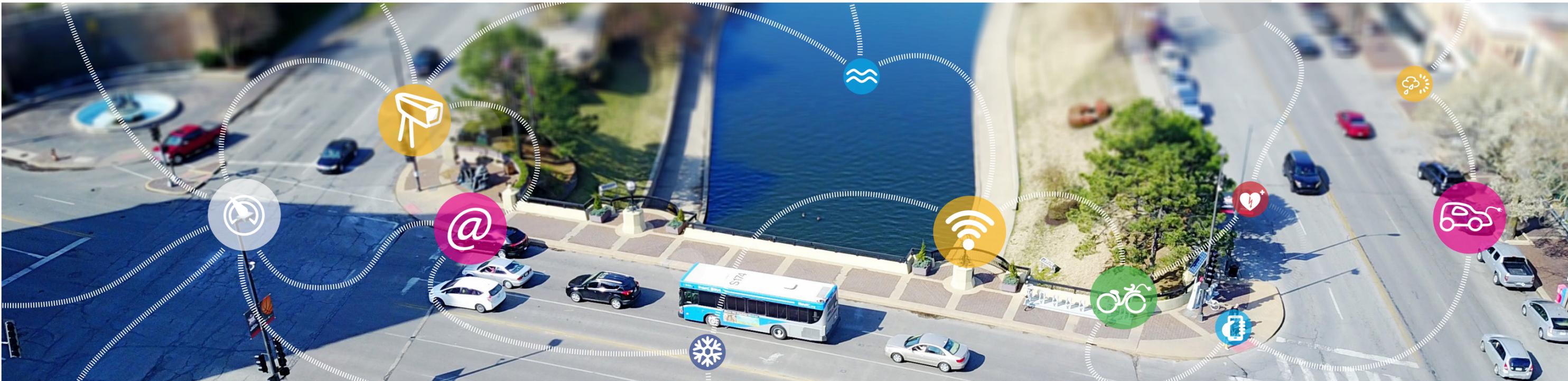


SMART CITY PLATFORM



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Smart City Platform is a technological platform, open and integrated with any service delivered to the territory.

Smart City Platform condenses in a single, integrated proposal **the entire technological power of the Maggioli Group**: smart lighting, Internet of Things, cloud computing, videosurveillance and security, backoffice software solutions, mobile APPS.

Smart City Platform transforms cities into smart and interactive areas where **Public Sector can obtain the maximization of the citizens' experience** by feeding them with punctual, accurate, fast services and, above all, services that are really useful for them.



Smart Lighting

Street lighting service test and certification, project target achieving, KPI measuring, remote management and control of street lighting plants that illuminate when and where it is needed avoiding energy and environment waste.



Smart Security

Territory monitoring and control with videocameras that can measure vehicles traffic, identify vehicles passing through and their authorization status (e.g. permission of circulating through traffic limited zone, insurance, ...), register traffic laws violations.



Smart Metering

Devices that allow bidirectional data communication among meters and control room to analyze consumption and on-field devices operating status, to force by remote the power use (e.g. energy detachment due to use excess of power related to the contract limit) and remote control to assure billing based on real data instead on predicted ones.

Internet of Things

Integration and management of an always growing range of sensors that are distributed all around the territory and that have the aim of registering data and deliver them to the internet. Many different services can be built on these data (e.g. it can be decided to spread salt on a street before the ice forms over the road surface or to alert the citizens about air quality problems immediately).



multi-band wireless communication
2G, 3G, 4G
NB-IoT

Wi-Fi

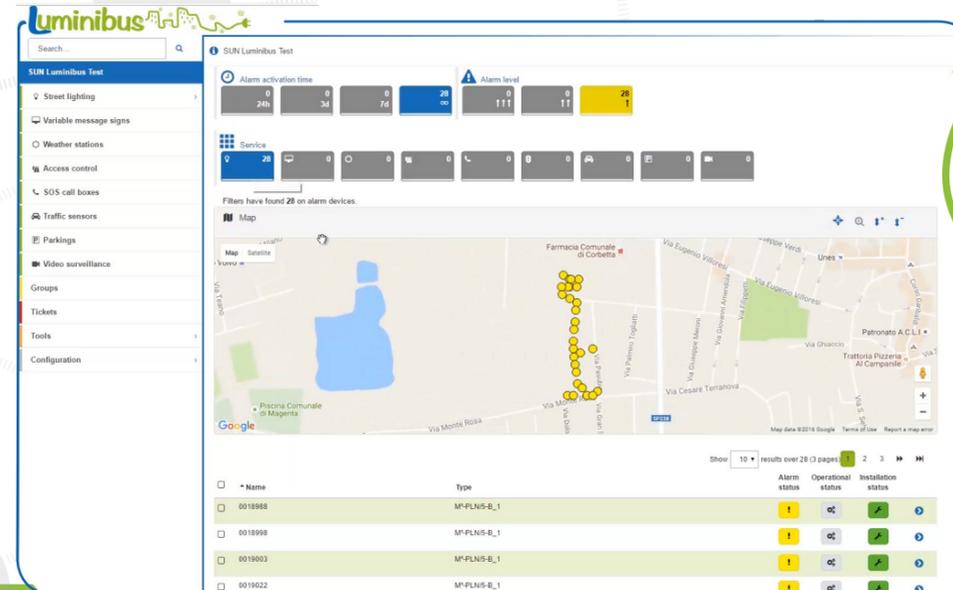
RF multi-standard



Multi-standard data concentrator for Smart City, remote management of electrical panel, data concentrator for Smart City and IoT sensors

PLC 3-phase standard communication

Optical Fiber



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Interaction with mobile citizens,

to offer them contents, information and services related to the place where they are (e.g. a car parking) or to their needs (e.g. they want to electronically pay the parking fare).



Interoperability with backoffice systems

This is the added value for Public Sector that already uses our backoffice software suite to conduct its daily administration action, since it warrants realtime access to the different events identified by the platform and immediate react with administration actions (e.g. the platform identifies the exceeding of PM10 value, the Mayor promulgates the circulation provisional restriction for that area by using the backoffice tools and the citizen is immediately warned by an APP message).

Cloud service

The platform and all data generated by the sensors are hosted in our data centers and can be used by our cloud computing services; all our data centers are certified and offer the most elevated level of quality, safety and efficiency standards.



The territory is becoming more and more enriched with sensors and widespread intelligence to contribute to retrieval of data that are useful to the interaction and delivery of more punctual, accurate, fast and, above all, useful service; in this situation it is becoming necessary and fundamental monitoring the sensors operating, storing and managing the retrieved data and the derived data from the delivered services. Sometimes these sensors are able to connect to the Internet on their own, other times they need help in doing this.

Smart City Platform is open and independent from technologies distributed on the territory and it is based on open and standard data communication protocols.

Smart City Platform offers a web-based application environment to administrate sensors and services, that can be supported by APYLink devices to enable some sensors to communicate data.