



Smart Parking



Keep in touch



An Enhanced Park Systems for our Cities

The cities of future are called to face considerable challenges in protecting the environment, people and the economy.

The hope lies on a key concept: to shape the future by choosing solutions that are intelligent, effective, profitable and fully integrated.

A city where citizens move faster and easier, traffic is not congested and air quality is good, is a driving force for economic activities that have the greatest opportunity to develop.

Optimizing the search for parking spaces for motorists brings with it numerous advantages.

The ease of identifying a free parking space reduces the stress of people behind the wheel, an advantage in terms of personal well-being and health, but also a value for the community, a substantial reduction in toxic gas emissions due to a consequent reduction in traffic and an improvement of air quality.

Finding a parking space quickly and at low cost is an essential element for the good maintenance and, in some cases, the survival of commercial establishments and various business activities.

ENERGY EFFICIENCY, FUNCTIONALITY, COST OPTIMIZATION, ORCHESTRATION OF SERVICES, AUTOMATION, AVAILABILITY WITH A #HUMANCENTRIC APPROACH.

Smart parking for T.net is the combination of energy efficiency, functionality, cost optimization, orchestration of services, automation, availability with a #humancentric approach that minimizes stress, consumes, CO2 emissions and pollutants.

The economic benefits of the EPS (Enhanced Parking System) represent an important opportunity for every administration: with an increase in revenues, it is possible to develop new services for citizens, improving mobility, road infrastructures and urban fabric. At the same time, it establishes a virtuous circle that can represent the real key to transform a city into a Smart City or a simple parking into a source of income totally independent.

EPS (Enhanced Parking System)

The platform consists of physical and application devices, summarized below:

- ATM, Access and exit columns in stainless steel
- Weather resistant
- High contrast multilingual display
- Continuous integration with various access media
- Magnetic stripe and barcode ticket technology
- Multiple combinations of electronic payment devices
- Shock and scratch resistant monitor
- Multiple combinations of entry and exit functions
- Various ticket-less access options

Advantages



Intelligent: EPS guarantees efficient management of all activities and problems that could arise in the management of perimeter (closed) or open (on-street) car parks and that are related to functional requirements: assessment of parking, reporting, maintenance and planning.



Efficient: It adapts itself to any target, citizens, residents, economic operators, protected categories and it guarantees innovative services that will make everyday life easier.



Remunerative: Thanks to a fair, ecological and functional use, it allows to increase earnings from the first day of installation through tickets, badges, discounts for shops.



Totally integrated: the cockpit guarantees total control of all elements and critical issues present in the management of a car park.



Scalable: It is easy to integrate new features without having to invest more money.



Multidisciplinary: Often there are many ways in which realize an idea, T.net can integrate a multitude of technologies and devices: cameras (Overview, LPR), IoT sensors (LoRa, Wi-fi, RFID), access bars, ATM, App (Android, IOS, Web), online credit.



EPS - Road

EPS (Enhanced Parking System) is the platform (Software and Hardware) designed by T.net to adapt also to complex systems that include functions for managing multiple parking permits, entry and exit with credit card, use of prepaid cards or tickets, digital access tickets, license plate recognition, as well as other possible options which data flow into our Cloud.

On-street car parks are those parking lots where, in most cases, there is no entry or exit gate; the monitoring of the stalls, delimited by lines on the pavement, takes place thanks to the use of a surveillance camera or sensors embedded in the asphalt which can assume four states marked by respective colour LEDs:

- green: free (if no vehicle is present),
- red: occupied (if the vehicle is present),
- yellow: booked (booking made via the App)
- blue: area reserved for people with disabilities.

EPS-Road allows:

- › Management of sensors and parking areas
- › Real-time parking monitoring
- › Evaluation of the number of free / occupied / booked / assigned places to disabled people
- › Status of a place / area / parking area through graphs and reports
- › View the status of the stalls on the map



EPS - Perimetral

Perimeter car parks are those car parks with an entry and an exit point, typically (but not necessarily) equipped with a barrier.

These car parks can be monitored in two ways: in the same manner as in the case of on-street car parks (to obtain information on individual lots) or by using license plate reading cameras (LPR) located at the entrance and exit gates, in order to obtain overall information on the parking area.

EPS-Perimetral allows:

- Dynamic and real-time management of license plates through black and white lists
- Automatic activation of the external system in the case of a vehicle with a white list plate (e.g.: automatic opening of the bar via button or App)
- Evaluation of the parking status, in terms of number of free / occupied stalls



READY TO RUN

"CCTV LPR, Lightings, PMV, Light Indicators, Barriers...#humanless"

Unlike the non-perimeter car park, the elements that improve planning and profitable efficiency are many and heterogeneous. Just think of the automatic barrier that allows the transit of only one vehicle at a time, authorized by ticket collection, badge reading or LPR cameras.



PMV

Variable message panels or PMVs, allow to show messages of different subjects: parking availability, parking status, useful information, advice on parking, warning messages



Lighting

T.net delivers car parks equipped with an intelligent lighting system, able to adjust the intensity of the lights based on the movement of people or vehicles and that could be also managed remotely.

The LED devices, combined with the meticulous design phase, guarantee the same level of light both with empty and full parking spaces, channelling the light in key points and self-adjusting thanks to brightness sensor.

The shape, the mechanics, the electronics and the power supply system have been engineered to ensure the best heat dissipation and the maximum yield and duration of the LED.



Luminous Stall Indicators

Each stall inside the parking will be equipped with an ultrasound system for driving to the free parking lot and for the punctual count of occupied parking spaces. A single device able of checking the occupancy status of the parking space and reporting it to the user. Unlike other ultrasound systems, T.net use a single device able of controlling the occupancy status of the stall and reporting it to the user via RGB LEDs, in different colors depending on the status:

Red: busy Green: free Yellow: booked Blue: reserved for disabled people



Strip Parking Indicators

Each user will be courteously welcomed into the new environment with all the necessary attention, for T.net time is a non-renewable resource, it must be managed wisely. Therefore T.net provides a LED addressing system to the stall within the covered parking area, facilitating the identification of the stall assigned.

A series of LEDs arranged along the path will guide the driver thanks to a series of LED strips embedded in the pavement.

The path led strips will guide the driver along the parking lot, while the stall led strips will light up to indicate the assigned stall.

Requirements

Main Requirements to apply T.net Solution:

- > An **Intelligent Network** to control each device
- > **IOT Sensors:** to detect available and stall status, efficiency system, informative data
- > An **Intelligent Management System** to perform savings and manage the whole infrastructure

Thanks



Keep in touch

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