www.integrainnovation.com

About us

PRODUCT PRESENTATION

S-PACES: The solution to control the influx of people and vehicles within a Space.

integra

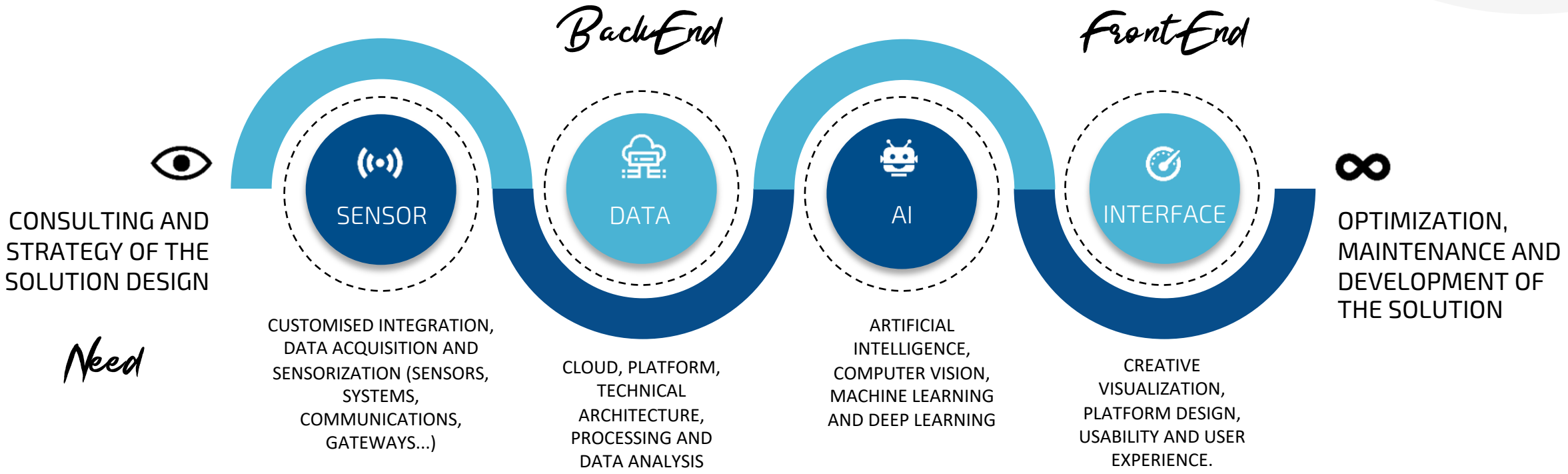
TABLE OF CONTENTS

WHO WE ARE

WE ANTICIPATE CHANGES TO CREATE INNOVATIVE SOLUTIONS

We are a technology consulting company formed by a team of professionals organized in different complementary divisions to develop integral solutions. Our specialization in technological and strategic areas we create an environment of value for our customers differential in the sector.

INTEGRAL SOLUTIONS



WHAT IS S-PACES

S-PACES is a tool to control the flows of people and vehicles in a certain area thanks to the signals sent by their mobile devices.

It is a quick way to know crossing, entering and leaving times, as well as the total time spent in the area. Thanks to this solution it is possible to report occupation and foresee possible crowds.

SOLVING PROBLEMS

Many times, bodies responsible of vast areas need to control people and vehicles influx within these areas to report occupation and foresee possible crowds.

S-PACES allows to have full control over using time, entering and leaving times of the area.

Actually and taking into account Coronavirus pandemic, it is vital to control the number of people in a certain place to make it safe and avoid contagion.

SOME FUNCTIONS

CAPACITY CONTROL

One of its main applications is knowing the number of people and vehicles within a certain space, being able to notify when a specific number of people is exceed

SECURITY SYSTEM AND CONFINEMENT CONTROL

Other S-PACES application is to recognise the movements made in a transit space. This has been so useful for security forces during confinement and will continue to be so in large open spaces control

EMERGENCY AND HEALTH ALARMS

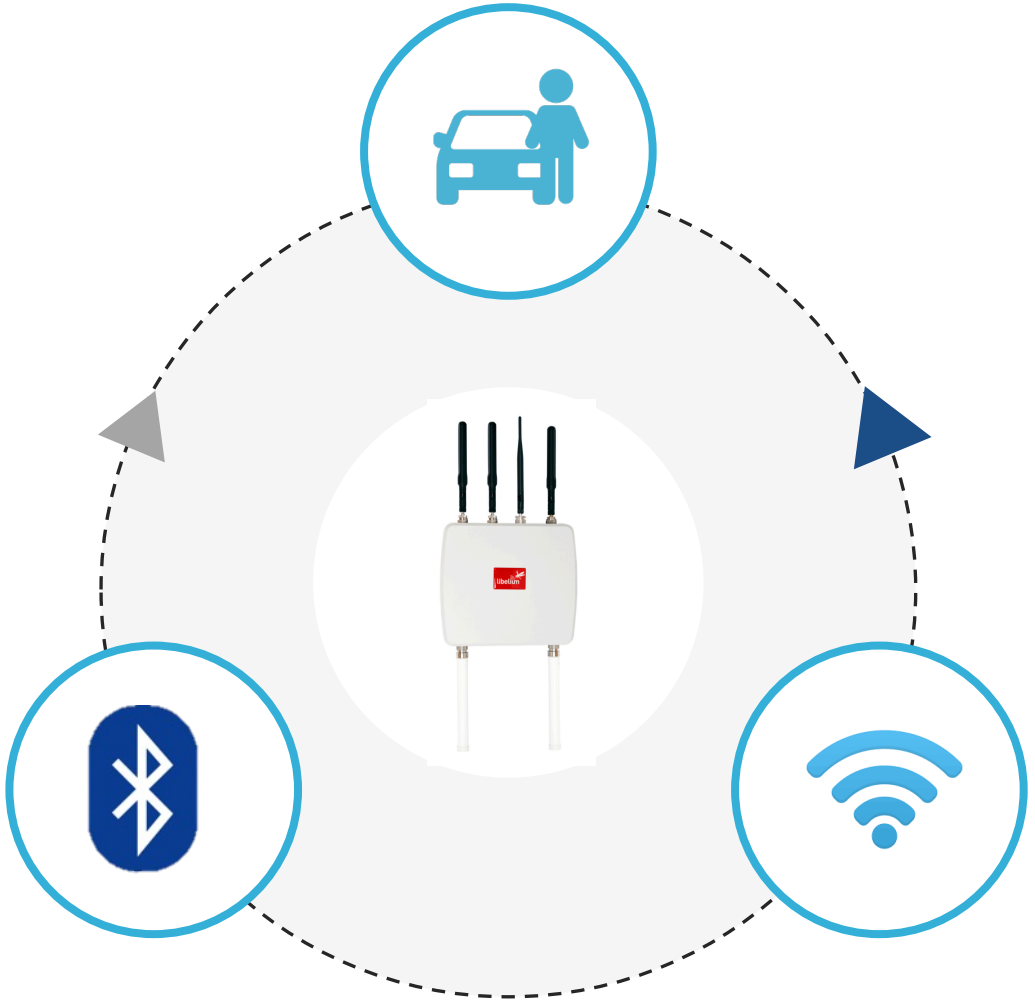
The alarm system predicts masses and ensures compliance with the capacity of an establishment or open space. The compliance becomes more important after the last restrictions performed after COVID-19

OUR SOLUTION: TECHNOLOGY AND PLATFORM

MESHLIUM SCANNER

The system is composed of one single sensor called Meshlium Scanner installed in different points of the area, mainly at the entries and exits and, it detects Wi-Fi and Bluetooth signals that mobile devices of people and vehicles send.

The more devices are installed, the more reliable and accurate results we will get.



TECHNICAL SPECIFICATIONS

Figure : Meshlium unit

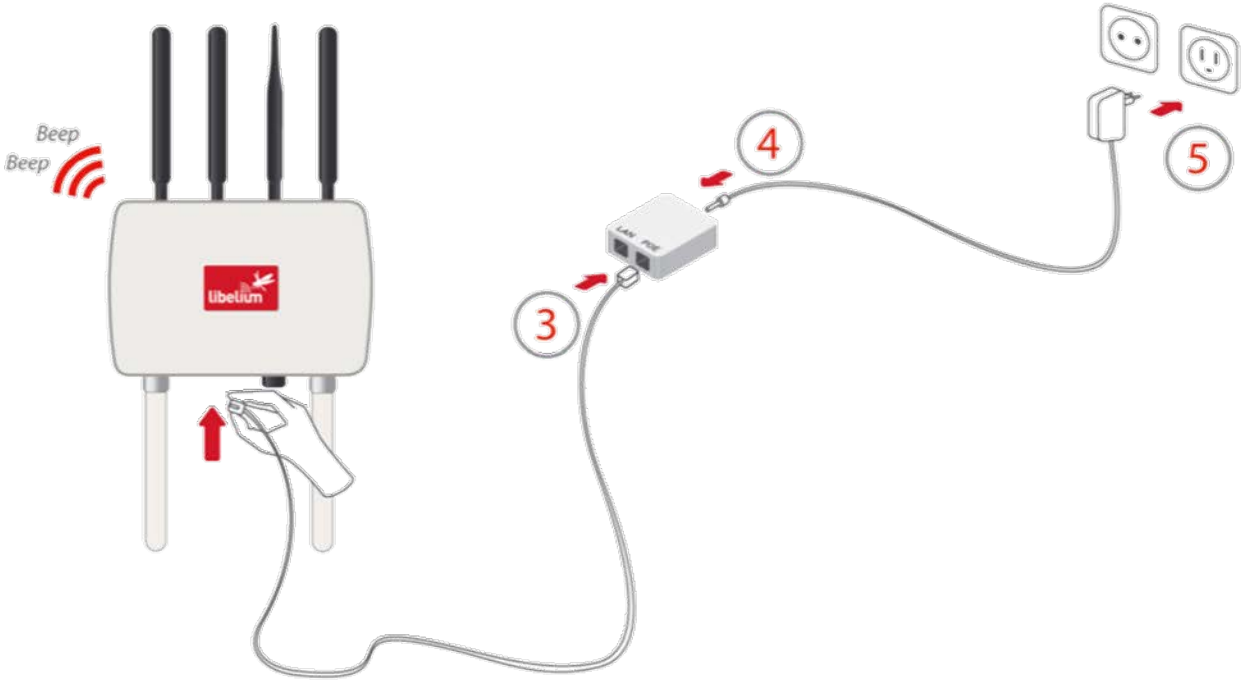
Processor	1 GHz Quad Core (x86)
RAM memory	2 GB (DDR3)
Disk memory	16 GB
Power	6 to 12 W (12 V)
Power source	PoE (Power Over Ethernet)
Max current supply	2 A
Enclosure	Material: Aluminum Dimensions: 255 x 225 x 80mm Weight: 1.9 kg External protection: IP67
Temperature range	-20°C / 50°C
Response time to Ethernet ping	60 s
Time to have all the services running	60 s
Types of power supply*	AC-220 V (DC-12 V)
System	Linux, Debian based
Management software	Meshlium Manager System
Security	Authentication WPA, WPA2, HTTPS

(*) Only with the accessories supplied by Libelium.

Main features:

- Meshlium Scanner can detect iPhone and Android devices and, in general, any Wi-Fi, BLE or Interfaces Bluetooth devices.
- Devices do not have to be connected to an specific point to be detected so it can be used to detect any Smartphone, laptop and vehicles hands-free kit within Meshlium coverage area.
- The aim is to count the number of people in a certain point at a certain time to study people influx evolution.

TECHNICAL SPECIFICATIONS



Installation:

Meshlium must be placed vertically and includes a support to be installed on a post or Wall.

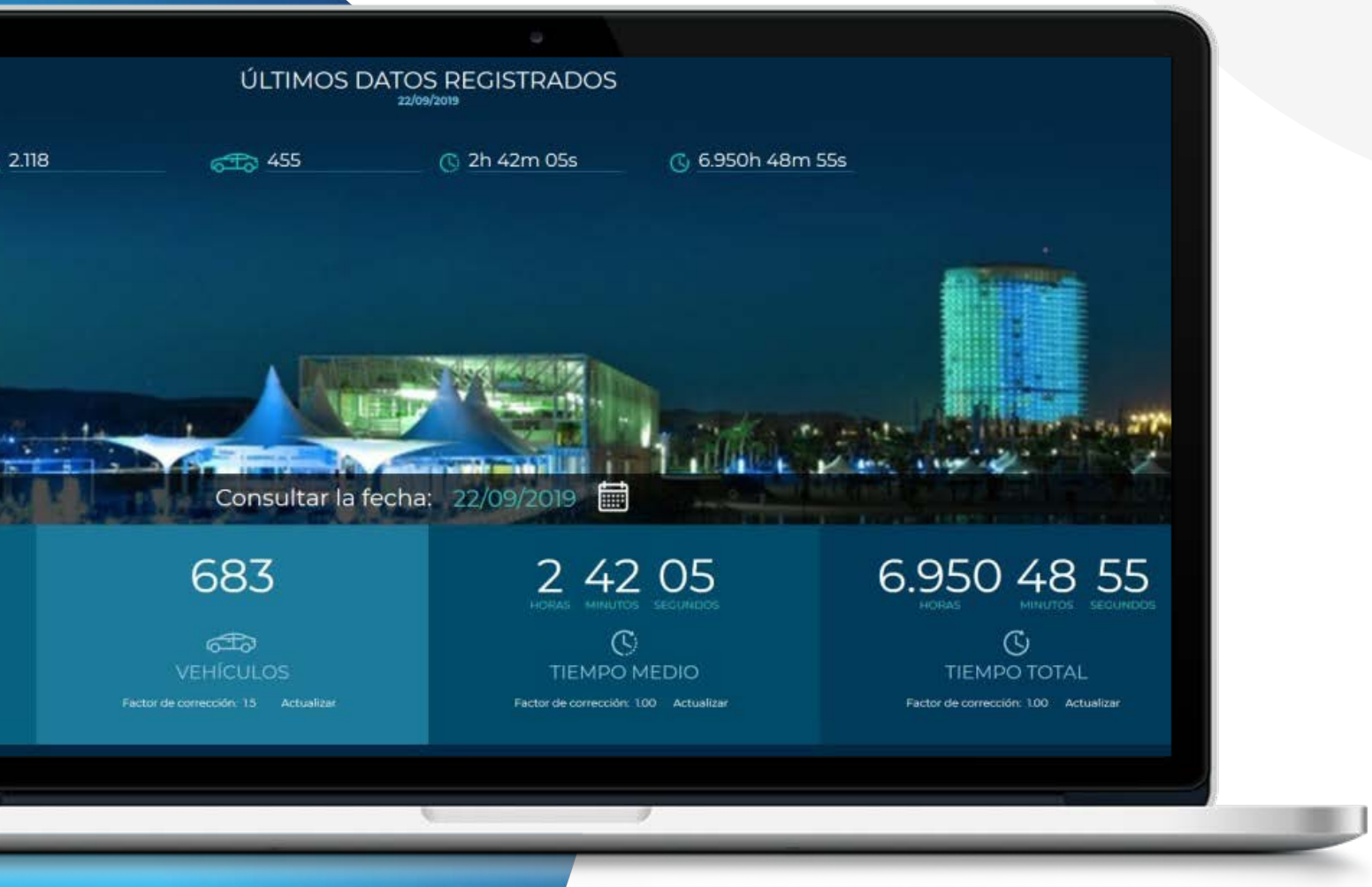
The device uses 220V PoE (Power over Ethernet).

Shipping options:

Meshlium has two ways to send stored data:

- If Ethernet power available, it can be directly connected to Internet.
- By 4G with a SIM card (Nano SIM.)

DASHBOARD



- GRAPHICS OF MOVEMENT EVOLUTION OVER THE TIME
- MASSES AND OVER THE LIMIT ALARMS
- DETERMINE TENDENCIES AND HABITS WITH ANALYSIS
- ESTIMATE INFLUX CLOSELY DEPENDING ON PREVIOUS DATA
- MOBILE PEOPLE CAMERA: AS THE DEVICE CAN BE MOVED, FOR INSTANCE, IT CAN BE PLACED TO MEET THE NEEDS IDENTIFIED IN DIFFERENT CITY AREAS

SUCCESS CASE: PARQUE DEL AGUA IN ZARAGOZA

The first prototype was installed a few months ago in a park called Parque del Agua in Zaragoza. It allowed the City Council and managing bodies to have a realistic vision of the people and vehicles frequent influx in this area.

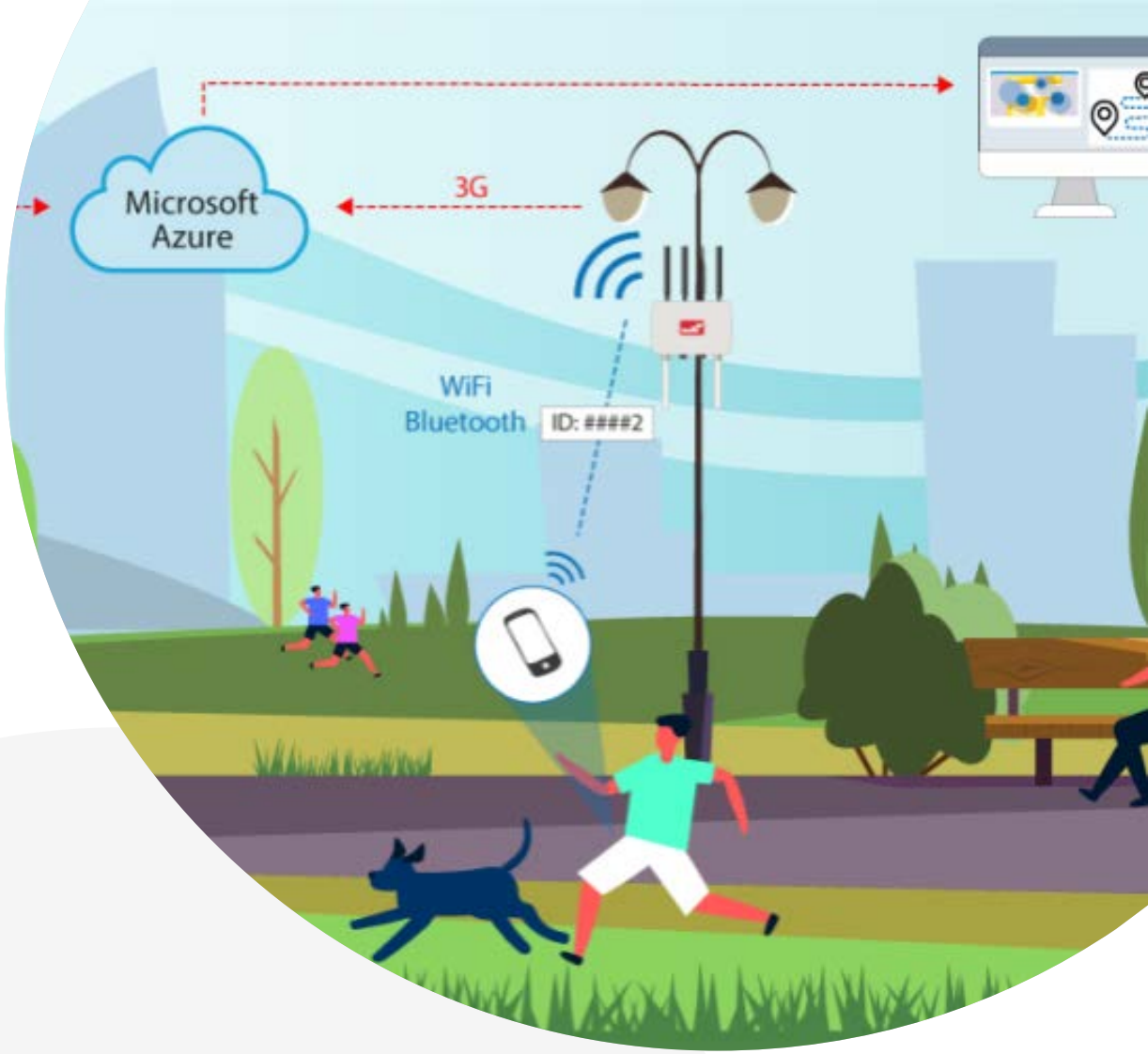
This revolutionary tool can control crossing, entering and leaving times of people and vehicles in the park as well as the total time they have spent there. Thanks to S-PACES and its occupational reports, flows of movements can be better controlled and park resources supply can be foreseen.

PRODUCT REFERENCES

S-PACES in Libelium IoT Marketplace:
https://www.the-iot-marketplace.com/libelium-integra-s-paces-solution-kit

Study case: More efficient public space management with mobile device scanning
http://www.libelium.com/more-efficient-public-space-management-with-mobile-device-scanning/

New: INTEGRA PARTICIPATES IN THE PROJECT FOR MONITORING PUBLIC SPACES
https://www.integrainnovation.com/news/integra-participates-project-monitoring-public-spaces




THANK YOU
Working on the now with a vision of tomorrow.