

# SBMP SMART BUILDING MANAGEMENT PLATFORM

**Buildings**

**Offices**

**Parking lots**

Digitizing buildings, maximum energy savings, high equipment performance, user's comfort & active safety at vehicles, assets, and persons.

# WE MAKE YOUR BUILDING SMARTER



According to the usability of the facility, we intelligently manage:

- Interior lighting, street lighting/gardens
- Energy and water according to site use
- Equipment's use according to usability
- Active security on installation
- Parking lots
- Security in parked vehicles
- Location of mobile equipment
- We can sterilize your interior using UV

# WE MAKE YOUR BUILDING SMARTER



## We control in real time

- energy consumption,
- water use,
- other liquids,
- usability of the website,
- ambient light levels
- noise levels,
- presence or movement
- ambient air quality
- temperature & humidity

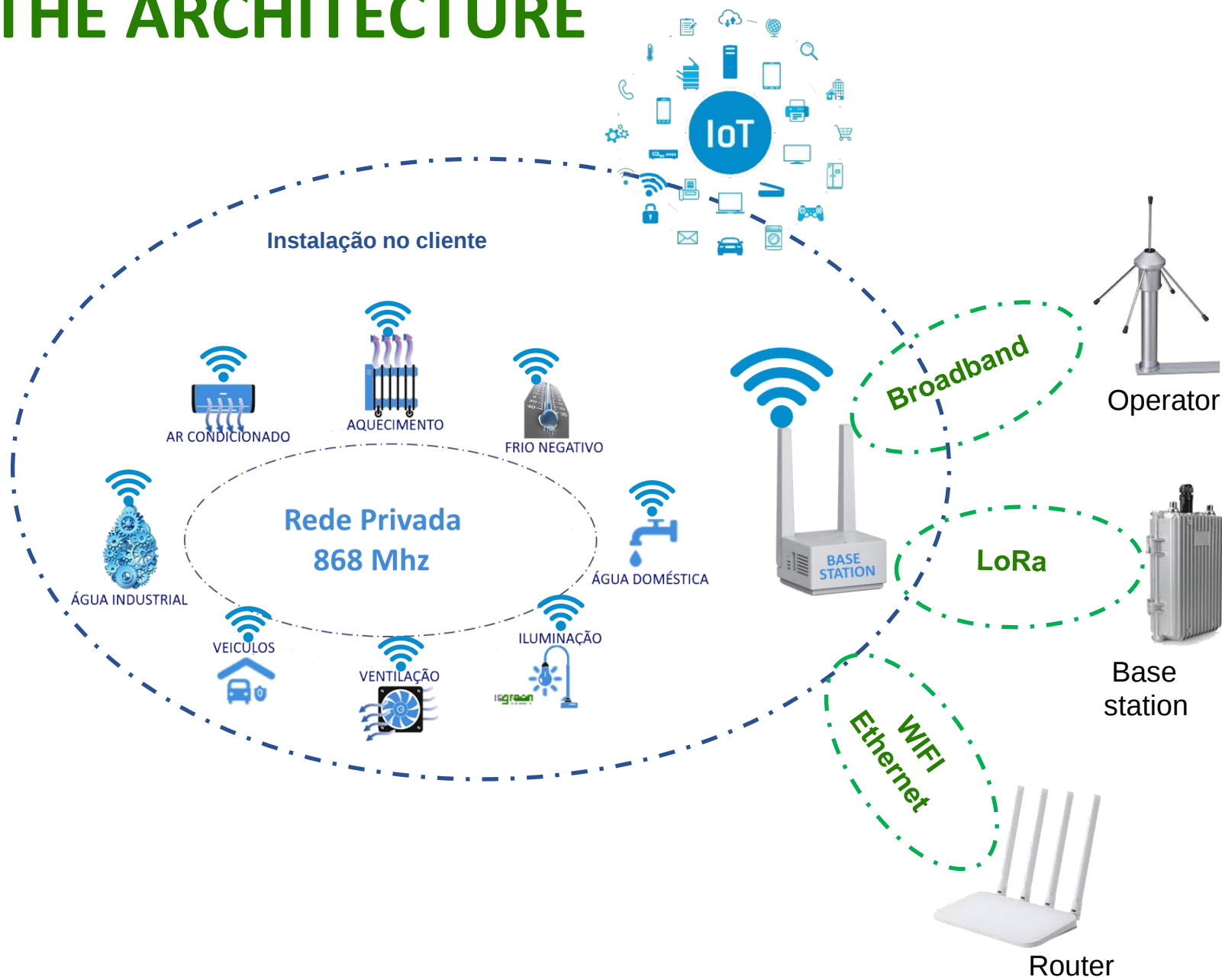
# WE MAKE YOUR BUILDING SMARTER



## The Platform

- Fully automatic
- Dash-board easy-to-use
- Local & remote control
- Business rules according usage
- Make decisions
- Embedded intelligence
- Neuronal network feed-back
- Record all activity
- Consumptions, data & decisions
- Current savings,
- Past and forecast reports,
- Warnings & alerts to APP or email
- Fully wireless,
- Parameterizable “Over-the-Air”

# THE ARCHITECTURE



**isgreen**  
We Make the Buildings Smarter

Create encrypted network  
independent controllers  
Analyze and make decisions  
point to point connections

controllers or repeaters

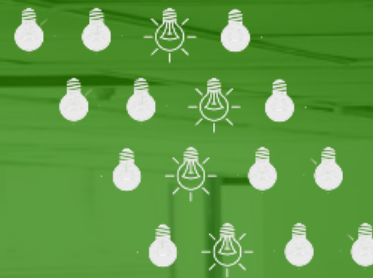
Great extent  
Use simple antennas  
The signal can be amplified  
Each BS has its own website

# THE APLICABILITY

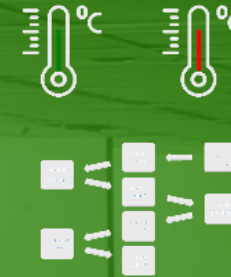
## Equipment Control



## The Amount of Light When and Where Needed



## Temperature control – Connecting / Disconnecting equipment



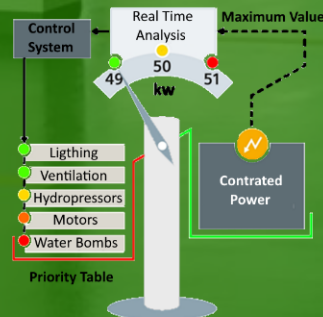
## Unexpected Movement Active



## User Registration at APP



## Load-Shedding Keep Power Consumption Stable



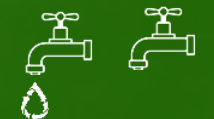
## Opening the barrier by proximity



## Lighting Park Activated if intrusion detected



## Water use and Control



Use control  
Real Time monitoring  
Automatic shut-down



# Warnings & Alerts



Unexpected movement



Unexpected Light



Changes in temperature



Detected “non-presence”

## Events and Business Rules

- Detects movements at abnormal times and in no-go zones,
- Detects unexpected light changes and unusual ambient noise.
- Reacts to changes in temperature and air quality by sending warnings and being able to turn on equipment if appropriate.
- Detects unexpected consumption
- Detects unauthorized person
- Rules are drawn using a simple-to-use graphical system.
- All warnings and alerts can be received remotely.

# SOME REFERENCES



2011 -1st prize for energy



2012 - Finalist project in the 2th call of the fund of entrepreneurs



2015 – Valência - 1st prize Portugal and Espanha Smart Ventilation System

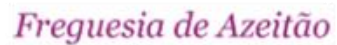


2017 – 1st prize Energy efficient building



2020 – 1st prize Energy efficient building

Warehouses



Sport facilities



Parque do Mercado Municipal de Torres Vedras



Government



Offices



ASSOCIAÇÃO INDUSTRIAL PORTUGUESA

Underground parking



Public libraries



Escola Básica EB/JI da Azeda

Piscina Municipal de Azeitão

Cidade de Azeitão

Utilities



Hungary



Budapest Office

More than 230 systems installed

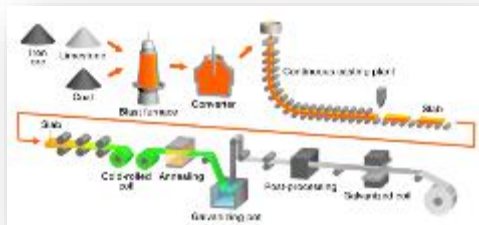
**Smart Lighting  
at Parkings**



**Intelligent Lighting  
for Buildings**



**Energy Control  
for Buildings**



**APP to control &  
Receive Alerts**



**The future is Now!**

A complete ecosystem  
for  
Manage installations  
automatically and  
intelligently.

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...and cities with less cars  
driving.

# Tech Stack

Dedicated hardware based on Cortex-A11 architecture.

Linux-based software

Client-server architecture supporting protocol MQTT, HTTP,  
Proprietary protocol for Sub-1GHz (868MHz)

Proprietary WEB server. Total configuration forms

Data display format or connect to the cloud (IoT) to share the data.

Configurable alerts engine with notification (dedicated APP for Android)

C++, Java, Python.  
Server Nginx, PHP.  
Data base MySQL, Cassandra.  
Framework Simplicity (Texas)



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