IOT Use Cases

Details

General Plan

- HUPI Company
- IOT Use Cases
- IOT Communications

SPECIALISTS IN ARTIFICIAL INTELLIGENCE AT THE SERVICE OF YOUR BUSINESS.

We are a local company,
rooted in the Basque Country since 2013.

HUPI Company

10 years of experience

We are no longer doing POC, we are **implementing operational solutions**

2 countries

With **offices in France (Bidart)** and **Spain (San Sebastian)**, we think globally and act locally.

1M € invoice per year

Turnover of 1M€ and annual growth of 30% this 2022.

%80 recurring revenue

Long term relationships with our customers, scaling our products in their businesses.

+70 clients

+85 projects developed for: SAFRAN HELICOPTER ENGINES, ENEDIS, SUEZ, KEOLIS.

14 employees

Our team consists of 14 experts in Mathematics, Data Science and Computer Tech.

HUPI is not a startup anymore. We are your rapidly scaling **AI partner...**

IOT USE CASE

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Past, **real time** and **future** affluence / traffic

High granularity characterization

Open and **close** environments: could be applied in the nature, in cities, museums…

Comprehensive and **global view** on data (fact based decision making process)
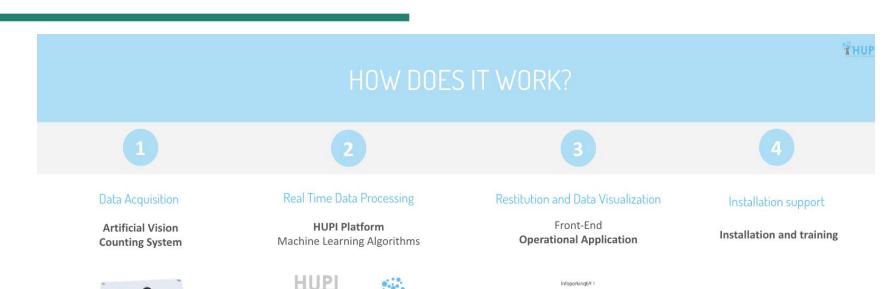
Easy to set up and **scale**: + locations, + visitors

Characterize and identify tendencies to **extrapolate information** from similar sites

With a eco-systemic approach to preserve natural resources

IOT USE CASE

HOW DOES IT WORK?

1 Data Acquisition
Artificial Vision Counting System

Connected devices that gather and send information to our platform

2 Real Time Data Processing
HUPI Platform Machine Learning Algorithms

Mathematical algorithms to characterize vehicle and make predictions / recommendations

3 Restitution and Data Visualization
Front-End **Operational Application**

Real-time monitoring application + APIs to visualize dashboards in your own systems

4 Installation support
Installation and training

Local support for rapid intervention (team located in Bidart)

IOT USE CASE

Configuration of our solution

Begirada System at the **entrance**

Flux de voiture entrant par jour

Flux global entrant par jour

Entrance **flows** detected by the system and characterized by **vehicle type**

IOT Communications

Networks used:

- LORA WAN Public & Private :
  - LORA WAN Public : we install our own free network ⇒ the major advantage is the low cost installation
  - LORA WAN Private : In france only Orange provides this service but not really a high visibility for the future with a price "high"
- LTE-M / NB-IOT :
  - This private network provides different prices for short-term and long term but depending on the use case we need or not high volume of data

From some years ago, HUPI was more involved in LORA, now we balance with LTE-M/NB-IOT