AutoSense
Analytics

A data collection company utilizing vehicle mounted sensors

PROBLEM STATEMENT

01 Lack of available data

02 Inflexible data collection

03 Data fragmentation

OUR SOLUTION

Vehicle Mounted Sensors

Deploy sensors on vehicles to collect real–time data across various routes

Data Sharing Partnerships

Adoption of IoT Technology

Centralized Data Integration Platforms

UNIQUENESS

Vehicle Utilization

Public transportation vehicles: established routes frequently

Private transportation vehicles (taxis): wide range of routes

Commercial Fleets: specific hours

Enhanced Features

Low-cost and high-speed hardware

Plug and play h/w

Edge-AI

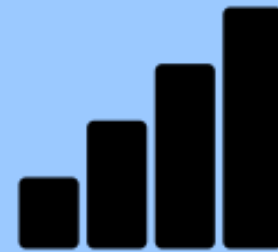Application specific hardware design

Data Analysis

Customized data analysis per project

Friendly and readable data presentation

Covering a wide spectrum of applications

CURRENTLY WORKING

Signal RSSI Mapping

Measuring:

4G/5G
LoRa
Zigbee
NB-IoT

Providing:

- Detection of **dead signal spots**
- Recommendation of new **access points placement**
- Creation of **signal coverage heatmap**
- Comparison of network service providers

WiFi Access-Point Mapping

Detecting:

Approximate detection of access point location, in campus

WiFi RSSI

Providing:

- A map of the campus **WiFi access points locations**
- A **heatmap** of the campus **WiFi signal**
- Recommendations for **access-points reallocation**

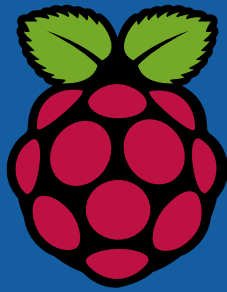## Image Collection for 3D reconstruction

Collecting:

Images from 3 cameras looking in different angles

Providing:

- **Images** formatted for **3D-reconstruction** of the desired area
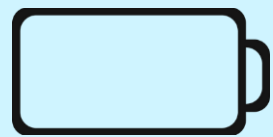- Information from the images collected, using **EdgeAI**

HARDWARE SELECTION

Raspberry Pi 4 B+ 8GB

Extra Hardware

Battery or 12V Car Lighter Power adapter

3D printed Vehicle Mount Case

GPS Antenna

RPi Camera

Raspberry Pi HATs
selected depending on each business needs
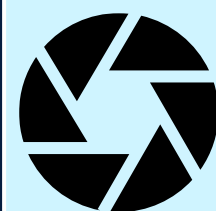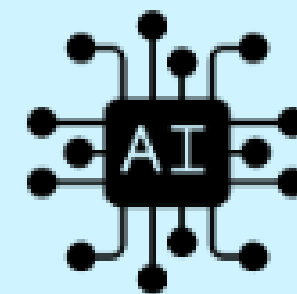
4G 5G LoRa NB-IoT

RPi AI HAT+

WEBSITE DRAFT

AutoSense Portal

Username

username

Password

password

Sign in

Create an account

- **Authorized User Login**
- **Login necessary in order to view the project updates**

AutoSense
ANALYTICS

Welcome username. Please choose the project below to view its progress.

Access Points

Signal Coverage

3D Cameras

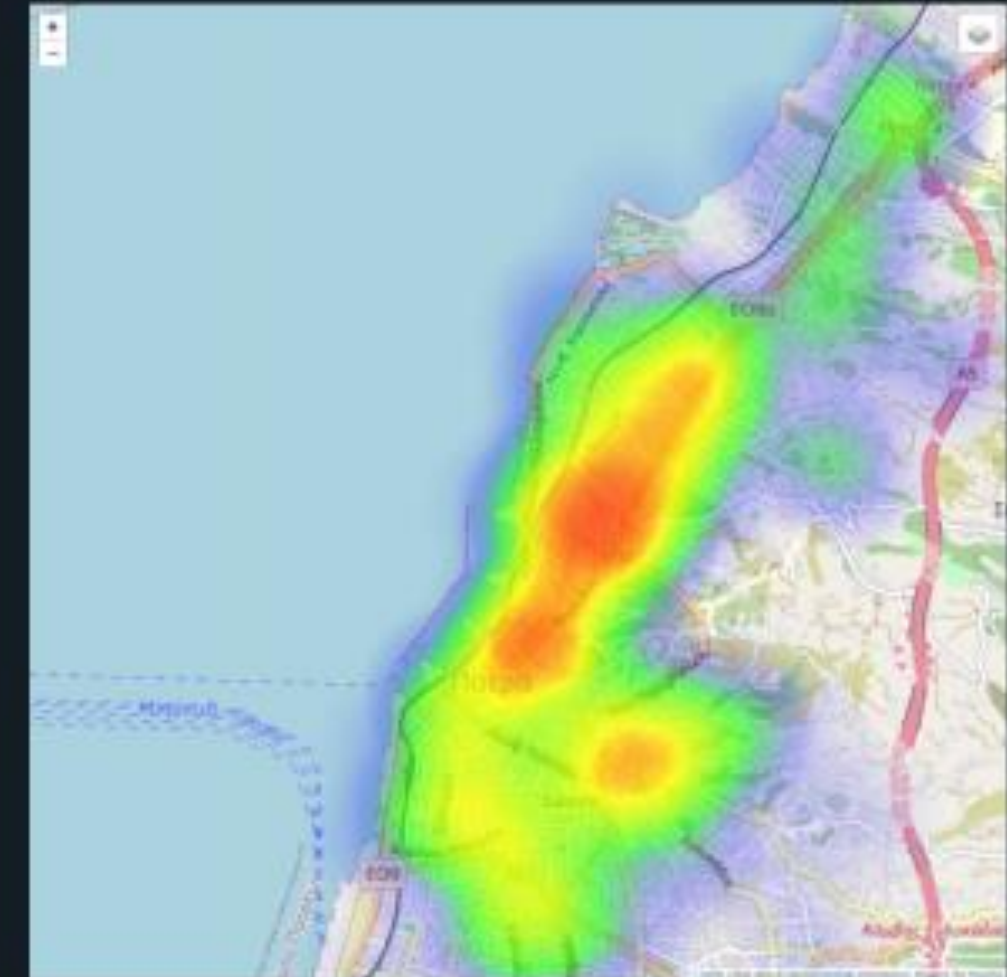- **For each connected user the list of the projects they are associated with, will be displayed.**

For every project:

- **Customized Dashboard, depending on the users needs**

- **Heatmaps**

- **Graphana charts**

OUR TEAM

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AutoSense
Analytics

Thank's For Watching

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