

# 5G0.pt

## 5G Probe

Sensing for the next generation communications

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Development of a probe for monitoring 5G networks, providing an integrated solution with a centralized service for data control and visualization.

## Motivation:

- New types of services with new requirements
- Different spectrum... different coverage

## Objectives:

- Channel power and identification
- Occupied bandwidth
- Detection of interfering signals

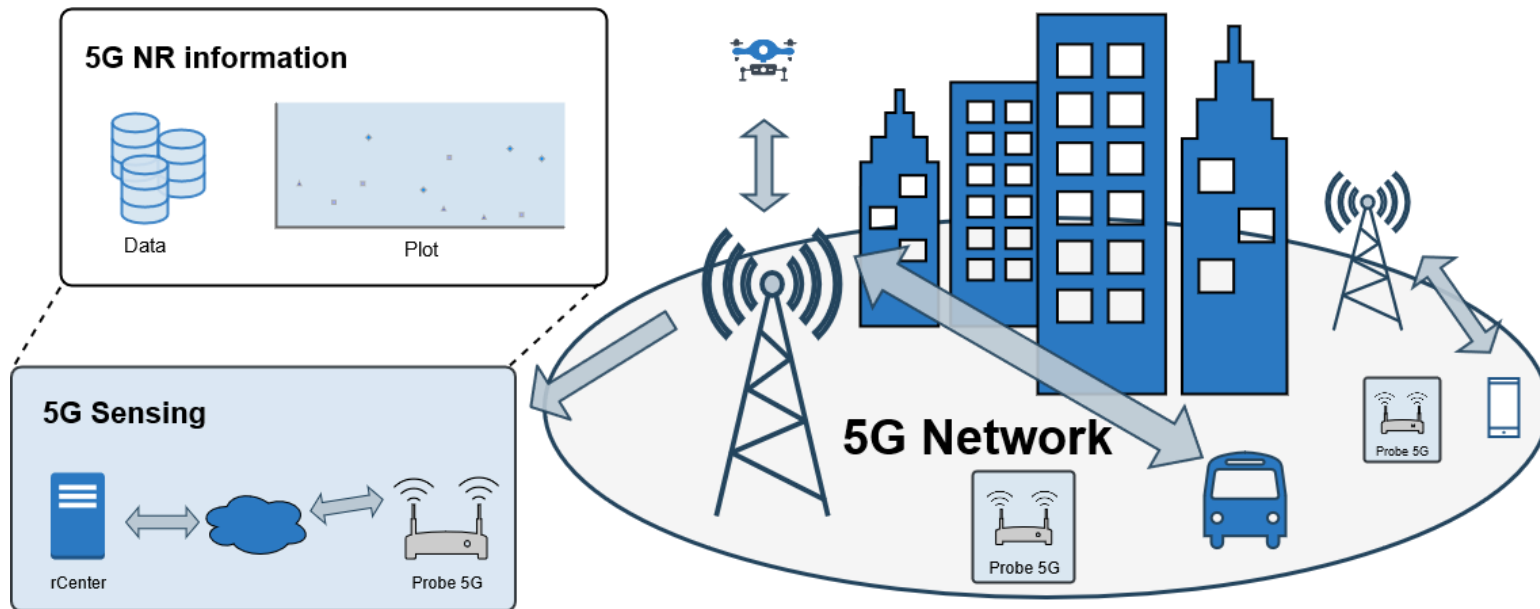


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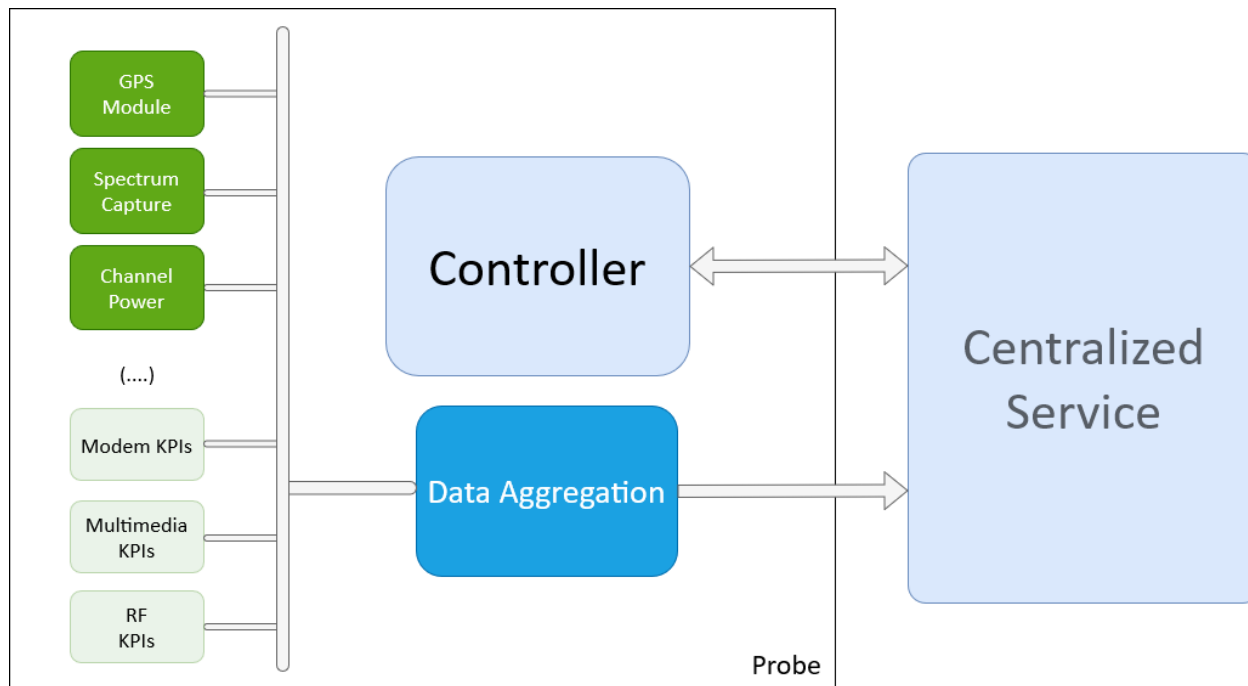


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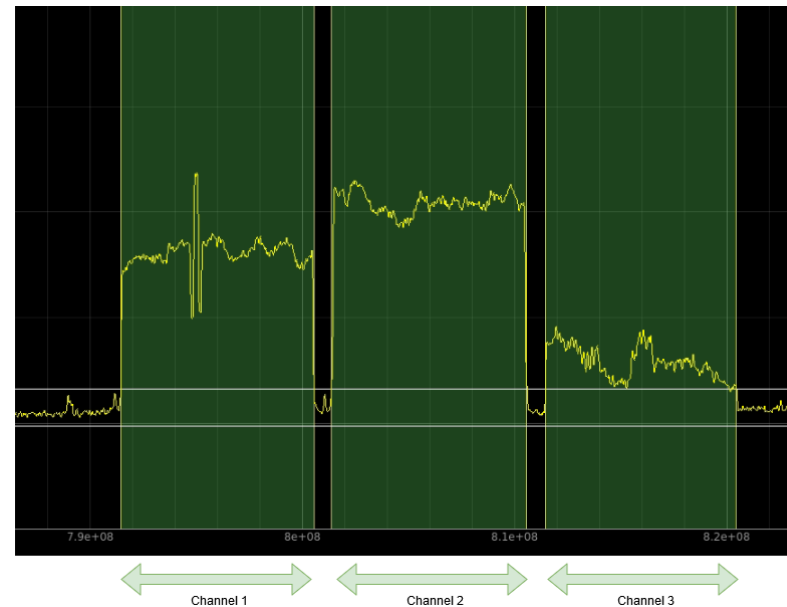


## Components:

- Spectrum acquisition and power processing
- Sending information to centralized service
- Centralized service for analysts and information processing with an alarm system

## Features:

- Spectrum and KPIs visualization in a dashboard
- Custom configuration that can be changed remotely
- Custom configuration of channels of interest
- Configuration of an alarm system
- Spectrum and KPIs history stored in the cloud



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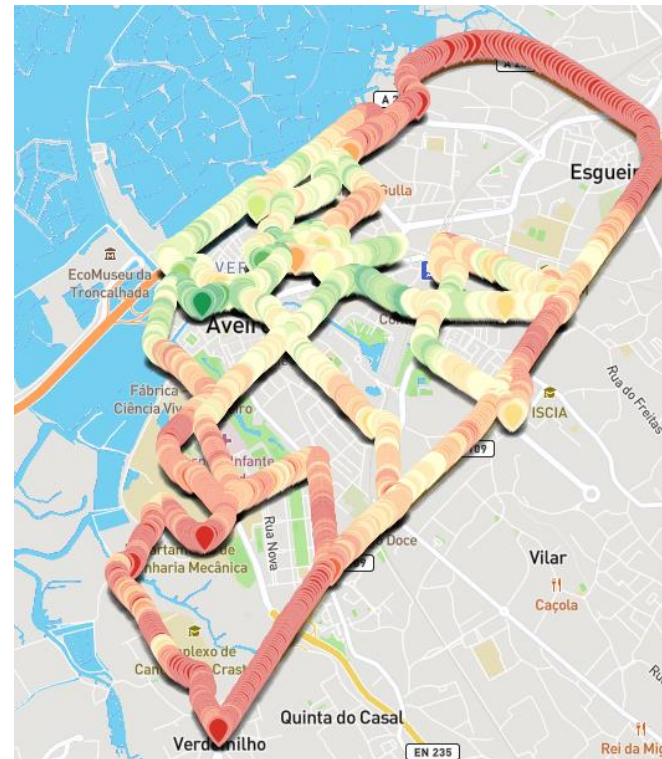
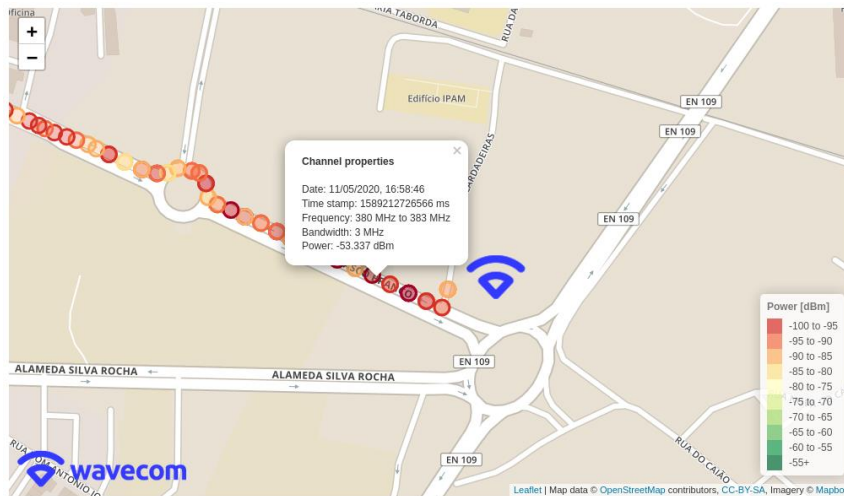
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# Use case - 5G Coverage in Aveiro

Measurements performed on 10 July 2020

- Minimum SSB-RSSI: -94.42 dBm
- Maximum SSB-RSSI: -48.51 dBm
- Dynamic Range: 45.91 dB



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- More mobility tests
- LTE SSB decoding
- 5G SSB decoding
  - SS-RSRP, SS-RSRQ and other KPIs
- Non-cellular technologies
  - TDT, TETRA (SIRESP), VHF, etc
- Machine-Learning to help signal characterization

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## Thank you!

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