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The ParkFinder App



ParkFinder App helps drivers to find the most suitable parking spot, reducing the time spent on parking search. Looking for a place to park is a big problem on urban mobility, which increases urban traffic congestion and mobility difficulties in the cities. ParkFinder App is a result of a cooperation between [SEAT](#) and [UPC](#).

The ParkFinder user will be able to get real-time parking availability by filtering different types of parking places and organizing preferences (distance, price and the likelihood of finding parking). Once users simply enter where they are headed, the app connects to the onboard unit of SEAT cars using the Mirror Link Technology to get real-time information about time to destination, distance, and guidance to the parking spot. After the integration of the [BIG IoT ecosystem](#) in the Parkfinder, the app can get parking data from the BIG IoT marketplace. For the project pilot demonstration, the app was capable of discovering new parking data coming from different or new providers using BIG IoT features.

At the demo session in Athens, Parkfinder firstly showed parking spots from North Germany. Then, a new parking provider was added to the [BIG IoT Marketplace](#) from Barcelona. This new data included parking information of Les Corts, a neighborhood in Barcelona, provided by WorldSensing. Once the new data offering was successfully registered to the Marketplace, the new data was displayed and could be used at the Parkfinder app.

This demonstration showed the successful integration between ParkFinder mobile app, BIG IoT libs and data providers from different places.

The Air Quality Sensor



Air pollution is nowadays one of the most serious problems in populated areas. Households heating systems, factory plants and vehicular traffic contribute to create a mix of dust and gases that represent a risk for the health of the people living and working in that areas. The Air Quality Station (AQS) is a sensor box developed in the context of the [BIG IoT project](#) and its purpose is to monitor the air quality in outdoor scenarios. The AQS detects pollutants using low-cost sensors, that are selected and validated in order to provide a relatively high accuracy keeping the cost low. This allows to significantly increase the density of the monitoring points and to provide a large amount of reliable data.

The AQS monitors a number of chemical and physical elements such as:

- Nitrogen Dioxide (NO₂)
- Carbon Monoxide (CO)
- Carbon Dioxide (CO₂)
- Ozone (O₃)
- Particulate Matter (PM10, PM 2.5)
- Temperature (T)
- Relative Humidity (RH)

Data acquired by AQSs are made available to the [BIG IoT Marketplace](#) through Internet connection over both Ethernet and Wi-Fi. AQS is the result of a cooperation between [CSP](#) and [Econais](#). CSP carried out the selection and validation of sensors and the definition of operating requirements of the AQS from hardware, software and enclosure point of view. Econais designed and manufactured the AQS while it developed the software for the integration to the Marketplace. The validation phase was conducted by CSP and Econais together.

Air quality Station sensor boxes will be installed in Piedmont Pilot.



On the 27th of September, the BIG IoT project participated in the common review meeting of the [IoT EPI](#) projects in Athens. The project received excellent feedback from the reviewers. The reviewers agreed that the BIG IoT approach is sound and that the main decisions taken to achieve the project objectives are clear and comprehensible. The BIG IoT team demonstrated a remarkable commitment and full engagement in the event which was acknowledged and appreciated.



European Platforms Initiative

BIG IoT is a member of the [IoT-European Platforms Initiative \(IoT-EPI\)](#)



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