Less congestion and pollution with a system that monitors traffic in real time

LOCATION: Málaga
DURATION: 1'37"

SUMMARY: Researchers from the University of Málaga have developed a system to obtain information about the traffic and environment of a city to analyse it. The system is cheaper and easier to install than other systems and, thanks to its Bluetooth sensors, it can predict how the traffic flow will be within a specific period of time.

VTR:

It is very easy to install and it also provides a higher amount of information. It is the system developed by engineers from the University of Málaga that monitors the traffic of a city in real time using wireless sensors and the Bluetooth devices of vehicles.

Juan Jesús Fernández
Researcher of the UMA

"There's no need to do works to install these sensors, we can distribute them quickly, in just a couple of hours. On the other hand, we have added a very diverse group of sensors that provides us with very complex information about what is happening."

Miguel Martín
Researcher of the UMA

"The number of vehicles or the gas levels in the surrounding area, as well as the levels of light intensity, dust and noise around us."

It is cheaper and easier to install than other systems and provides access to more complete information about the traffic thanks to the sensors that interact with the Bluetooth devices installed in vehicles.

Juan Jesús Fernández
Researcher of the UMA

"We can obtain information about how many vehicles go from one point of the city to another. We can tell, identify, the origin and destination of most of the travels."

All the sensors collect and send information in real time.

Miguel Martín
Researcher of the UMA

"All these nodes send information to the central node, which we call coordinator node. It is in charge of collecting all that information and sending it to the famous cloud through a 3G connection."

That information can be used to make decisions about improving the traffic conditions and controlling pollution.

Juan Jesús Fernández
Researcher of the UMA

"Traffic behaviour to be able to adapt the control systems: traffic lights, detours and the traffic flow, to it."

They are already working on the next phase that consists of installing the sensors in a vehicle that will work like a probe collecting data around the city.

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