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MobiWise: from mobile sensing to mobility advising

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Project Details

Period

Jan 2017 – Dec 2019

Consortium

IT - Instituto de Telecomunicações

Network Architectures and Protocols – IT-Aveiro

Radio Systems – IT-Aveiro

Networked Systems – IT-Porto

CISUC – The Centre for Informatics and Systems of the University of Coimbra

CMUC – The Centre for Mathematics of the University of Coimbra

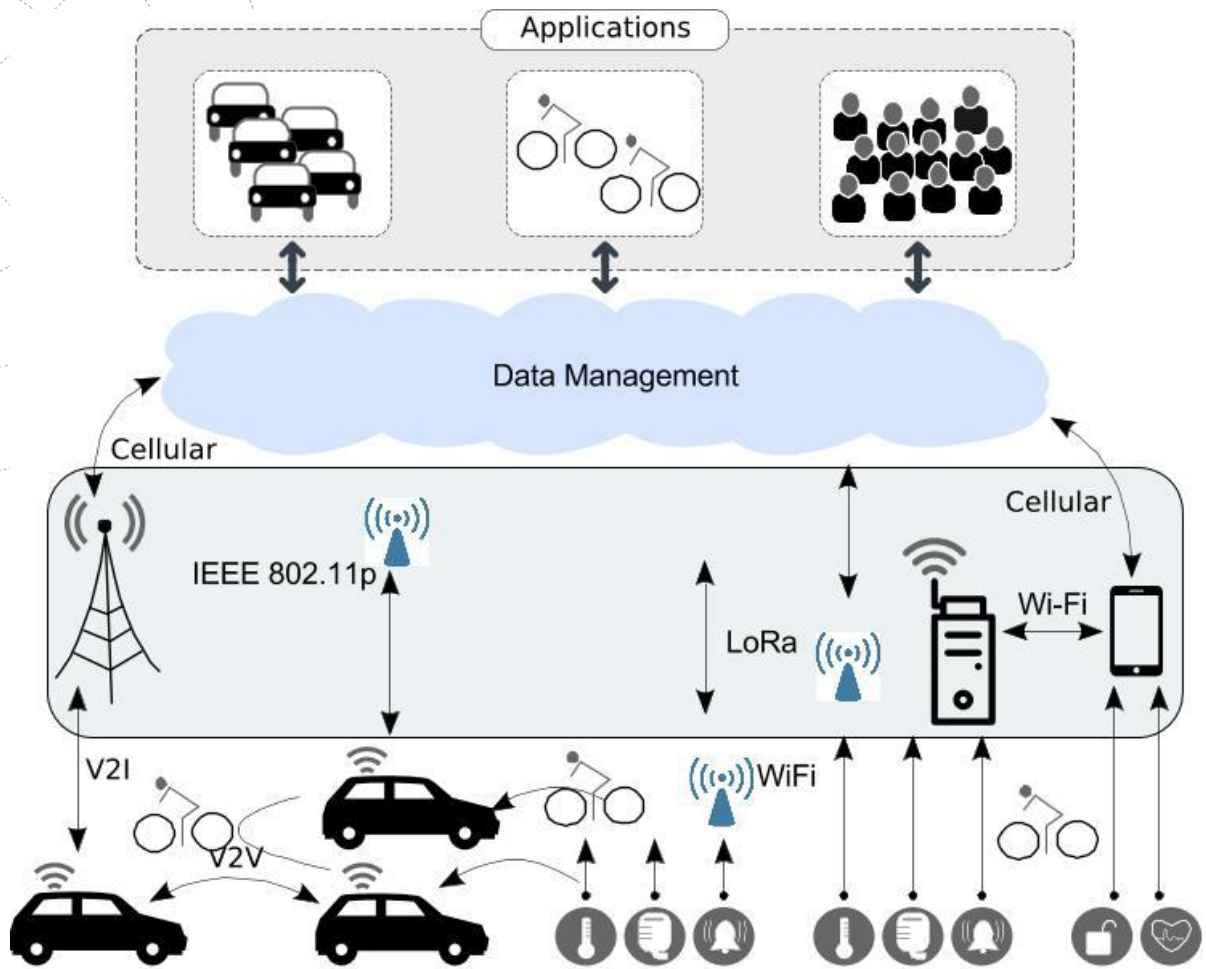
TEMA – Centre for Mechanical Technology and Automation, University of Aveiro

Project Details

Main Objective:

"MobiWise will build a (5G) platform that encompasses the access infrastructure filled with **sensors**, **people** and **vehicles**, to improve **mobility** in the cities, both for **commuters** and for **tourists**. The project will **connect any sensor, person and vehicle**, and will use all possible information to improve the **user mobility**, through a complete **network** and services platform for an **Internet of Things** real deployment in a **smart city.**"

Big Idea


Applications
Data Management
Cellular
IEEE 802.11p
LoRa
Cellular
Wi-Fi
V2I
V2V
WiFi

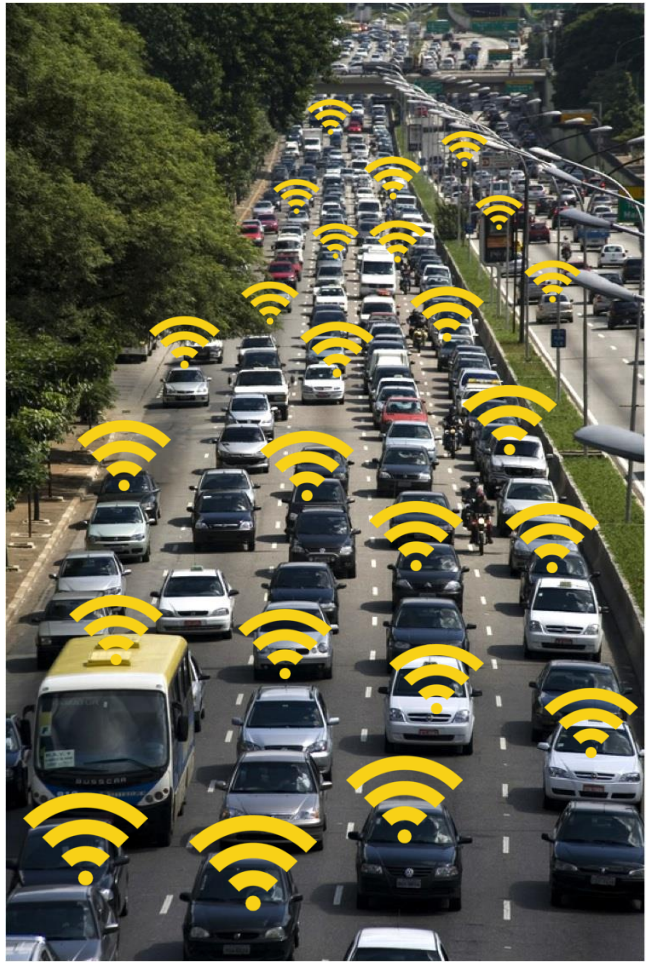
Vehicular communications: why?

V2V connectivity

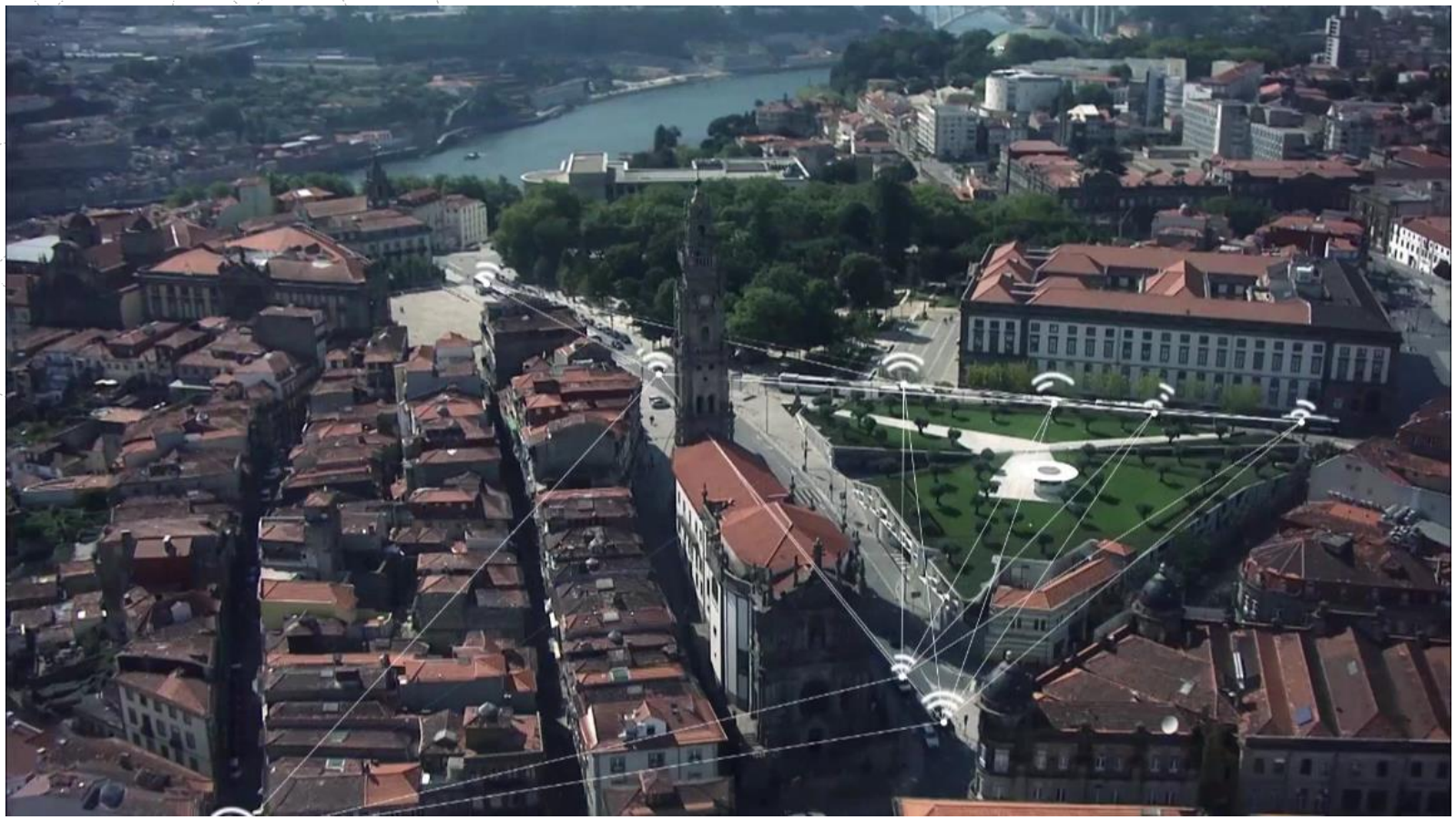
vs. cellular data (V2I)

- Lower cost
- Lower latency

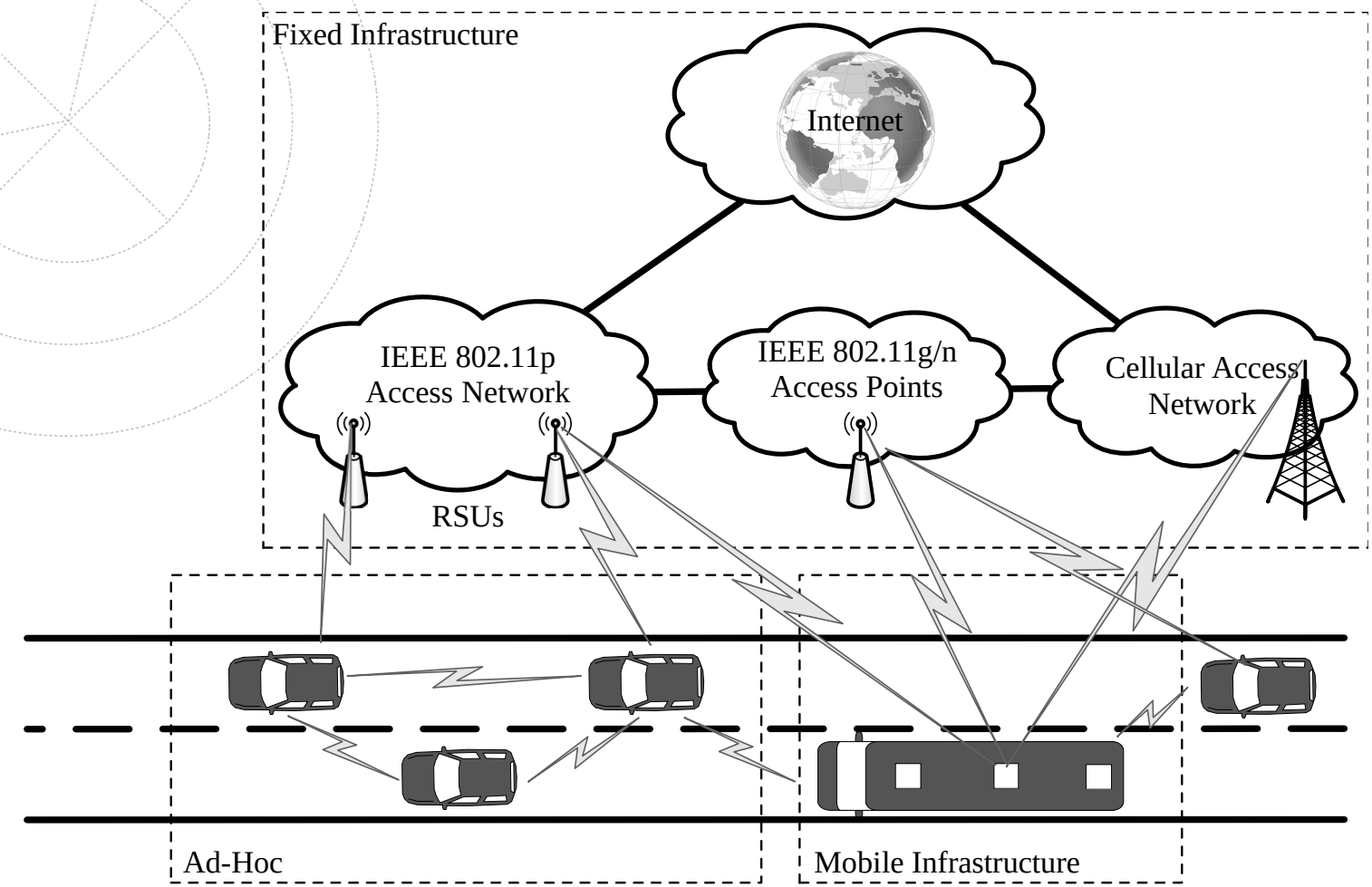
Ubiquitous connectivity



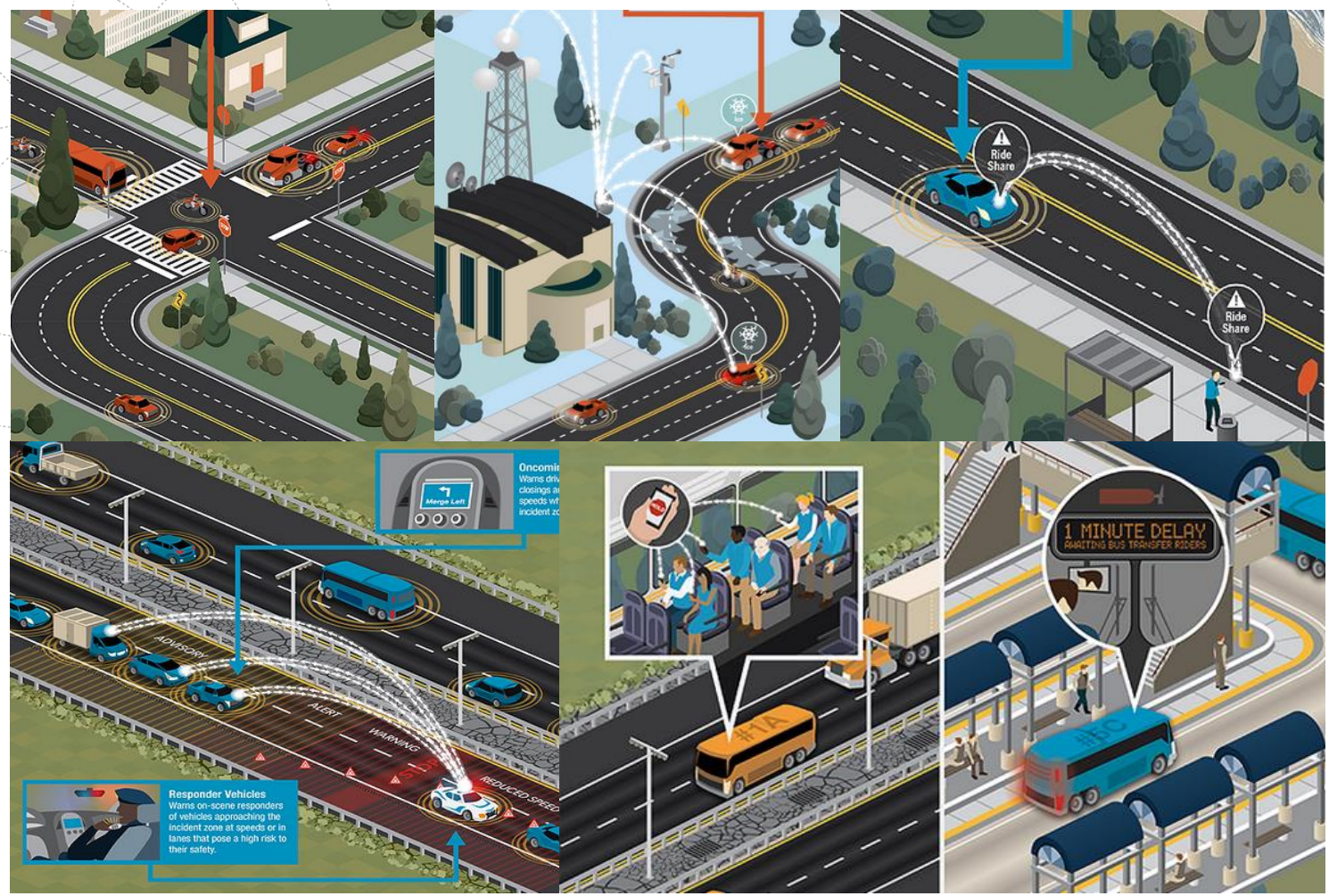
Not from scratch



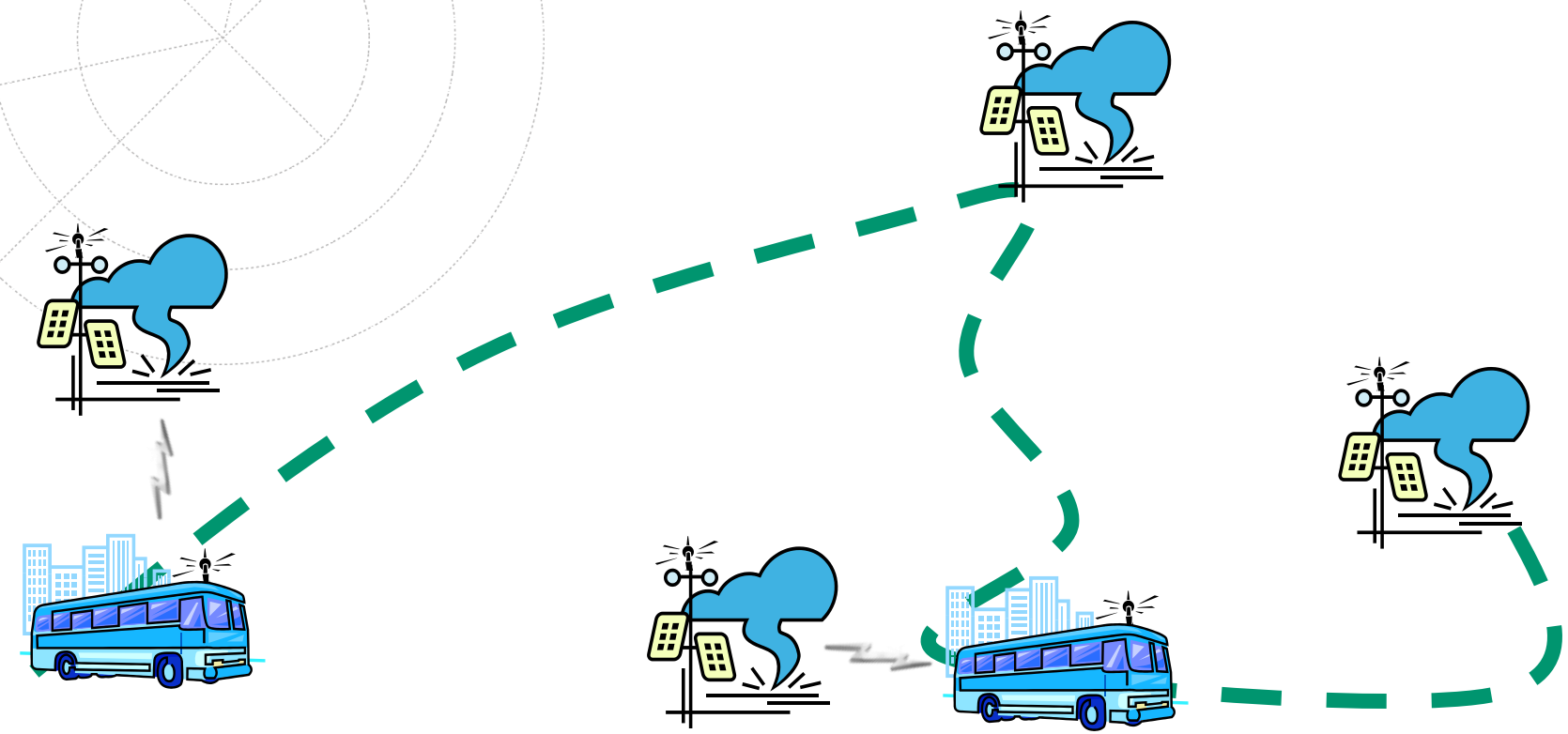
Vehicular networks: how?



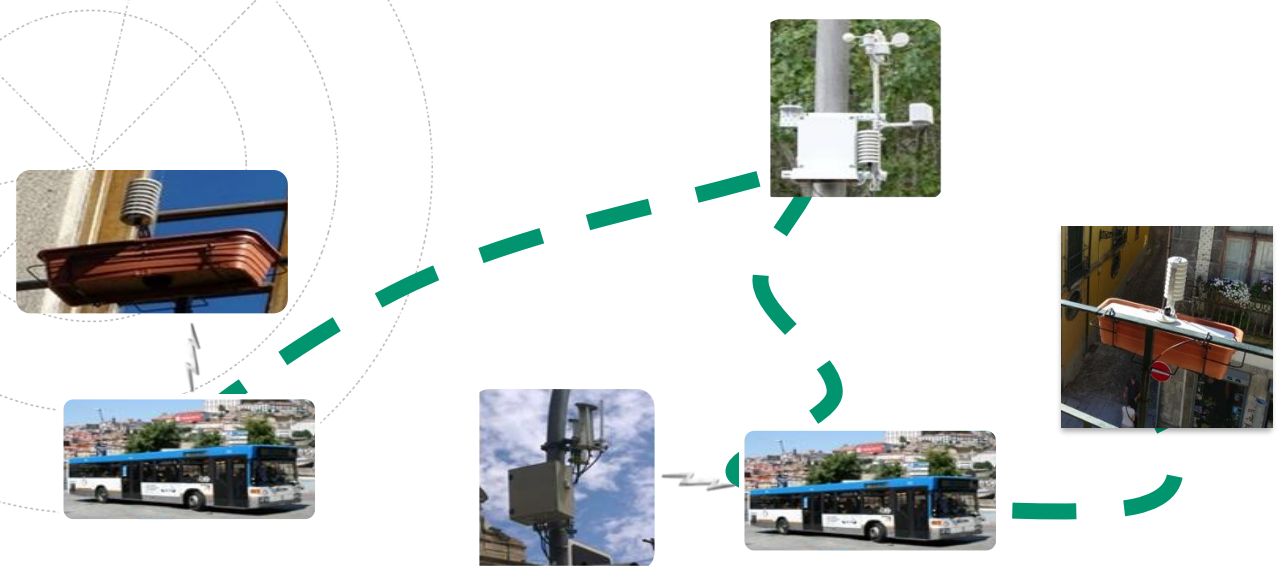
Vehicular communications: what for?

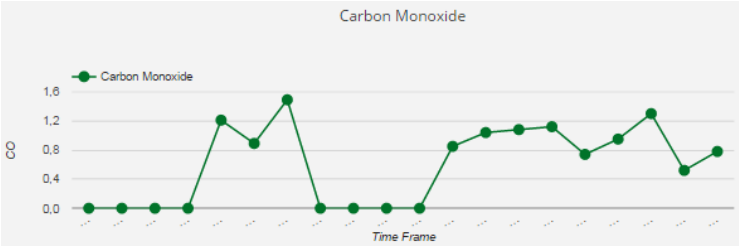


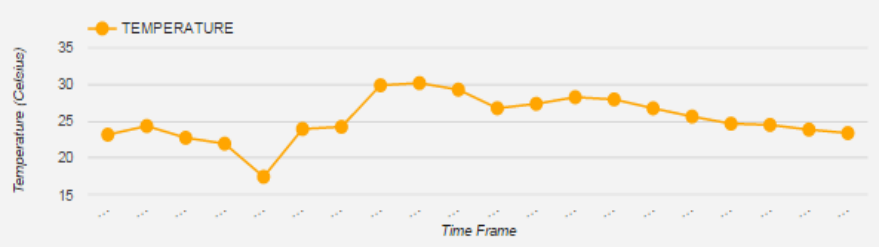
Sensing the city through vehicular networks



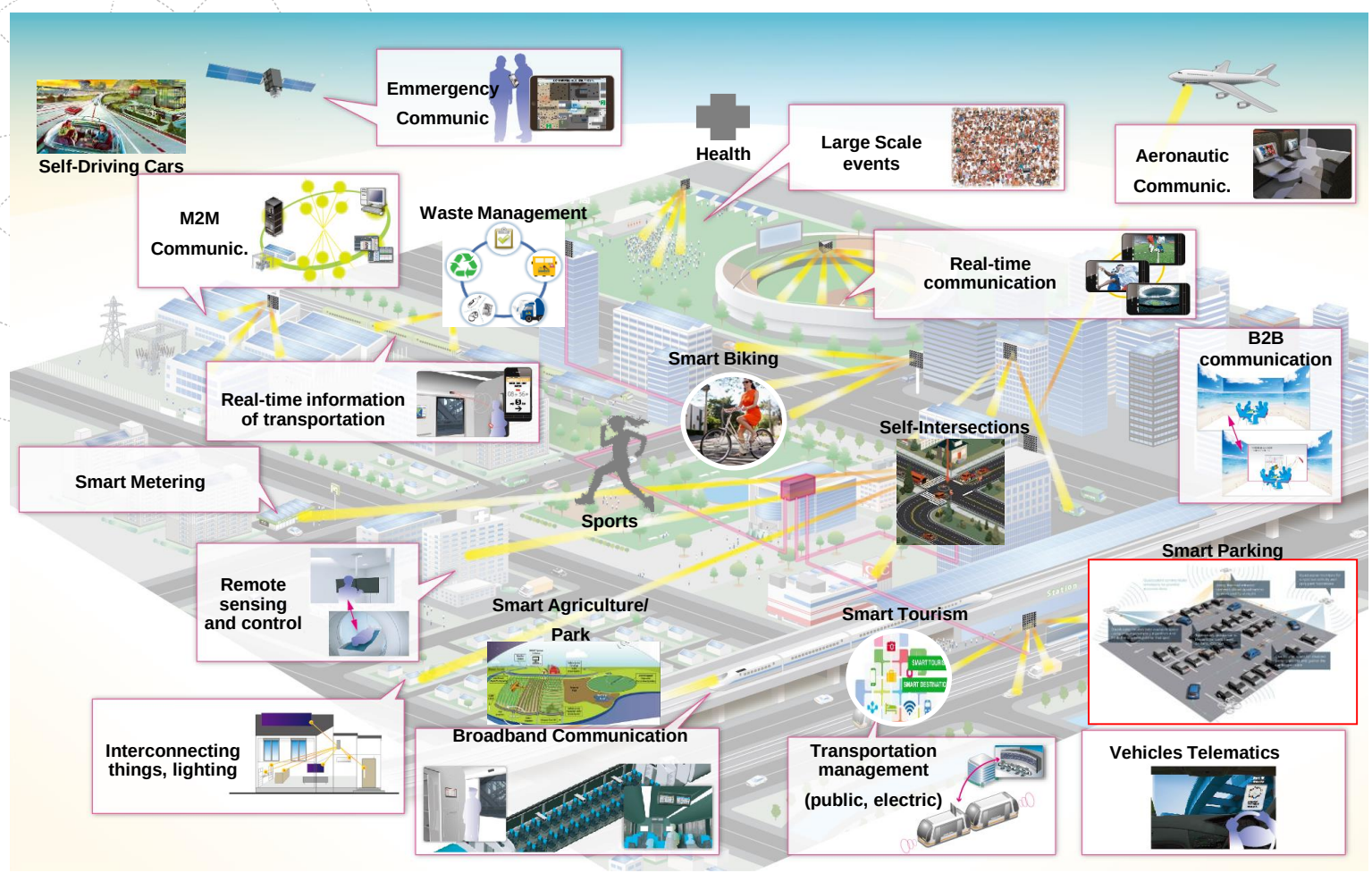
Sensing the city through vehicular networks





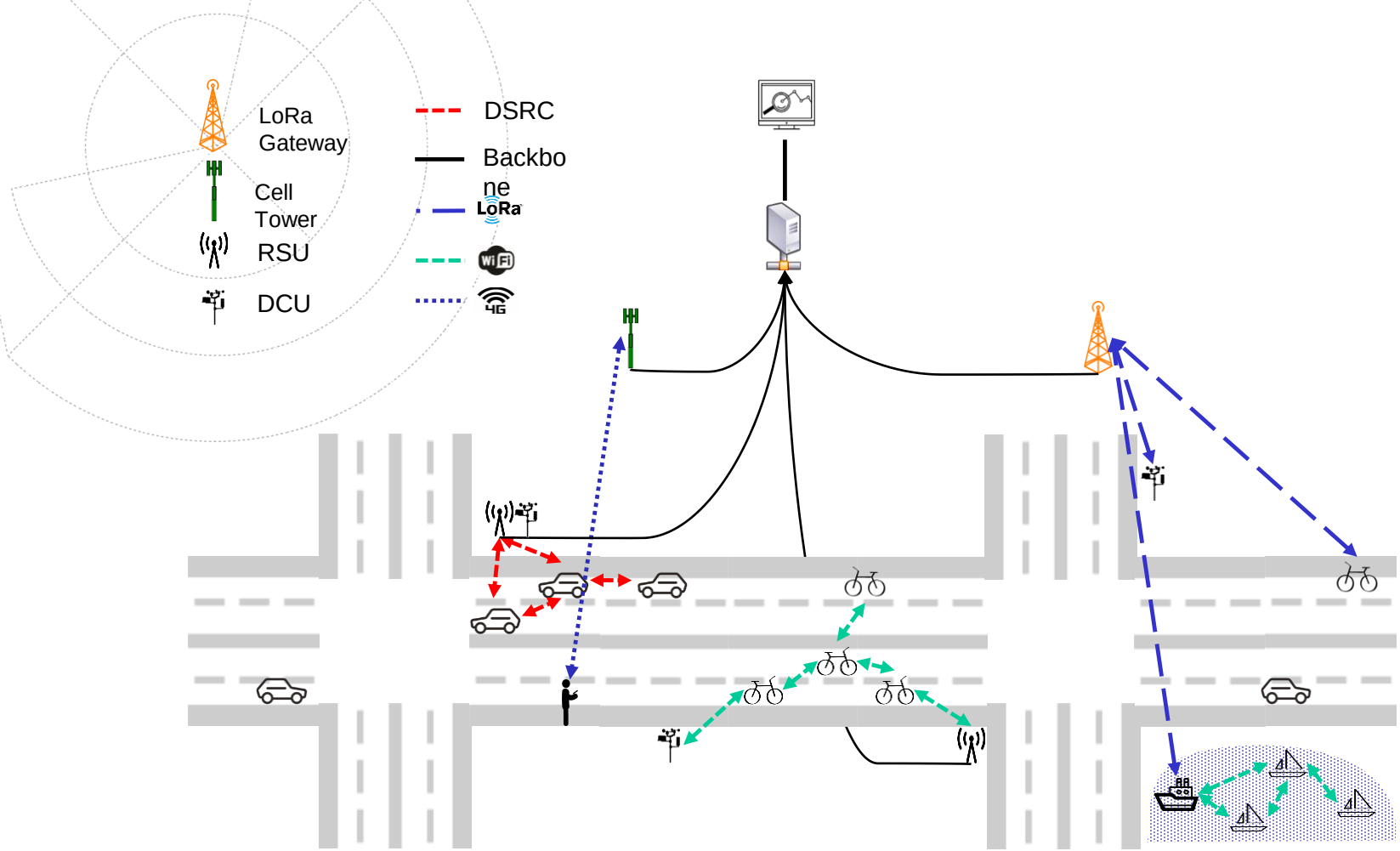


Smart Cities, Internet of Things and Mobility

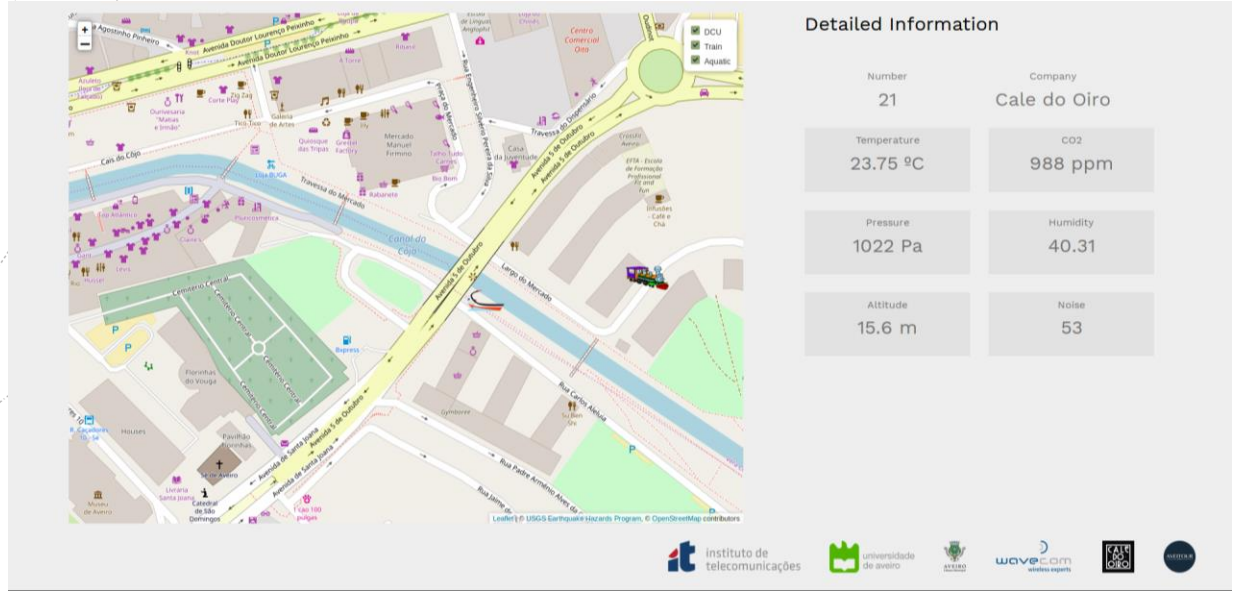


Mobile and enabling technologies

Result: a multi-technology mobile network



Sensing the city – MobiWise & Aveiro Open Lab



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