

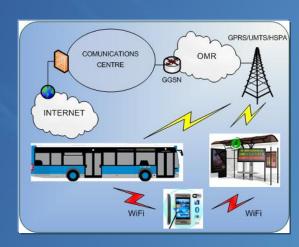




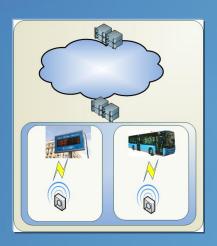


Some figures

- 1.904 buses
- 203 bus routes (176 daytime/27 night service),
- 4,629 bus shelters
- 800 electronic information panels (PMV)
- 404 million passengers / year
- 91 million km / year
- Open data policy
- On board wifi
- ICT/ITS









OPEN PLATFORM FOR OPEN DATA SERVICES

Geographic infrastructure of the transport network

Bus service and incidences information

Multimedia information systems

Open data portal



http://opendata.emtmadrid.es

AN OPEN PLATFORM

FOR TRANSPORT DATA





Cultivate resilient smart Objects for Sustainable city applicationS

http://iot-cosmos.eu/



ICT cloud-based platform and mobility services available, universal and safe for all users

http://www.moveus-project.eu/

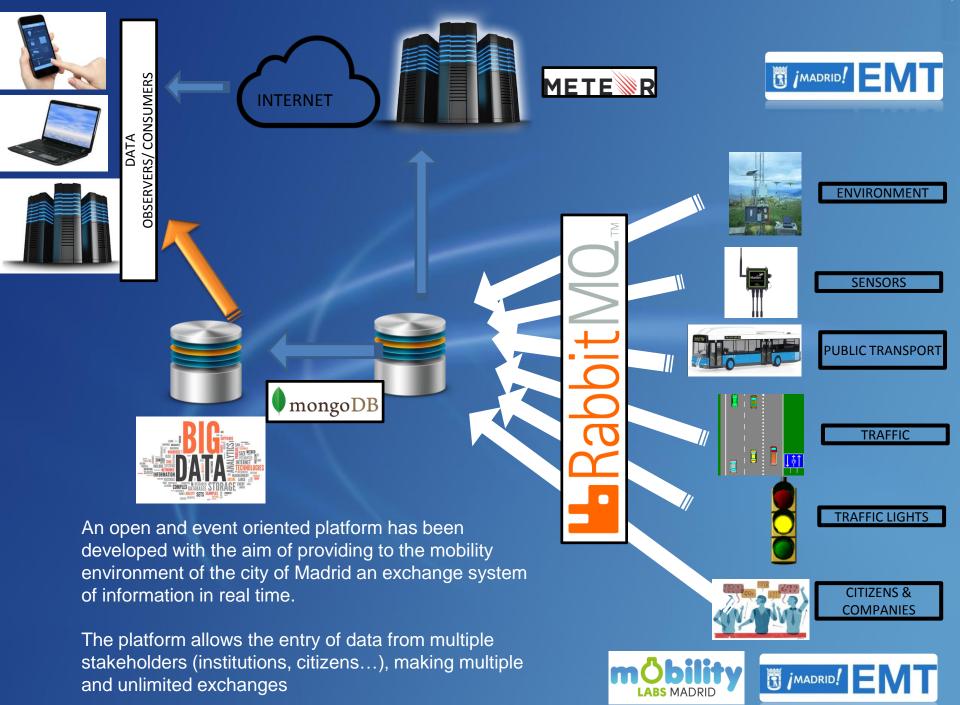


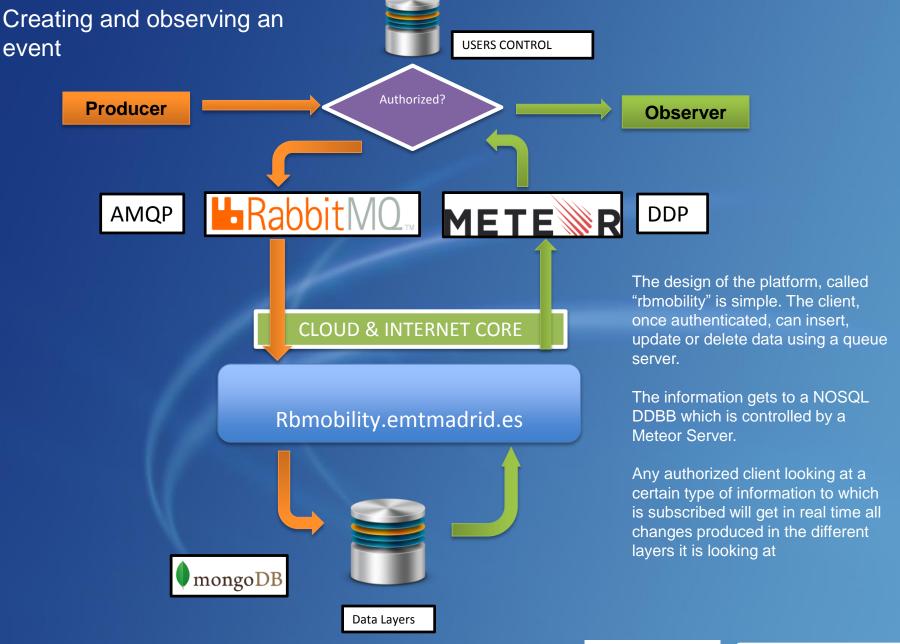


An EU / Japan collaboration to deliver Intelligent Knowledge-as-a-Service

http://ikaas.com/





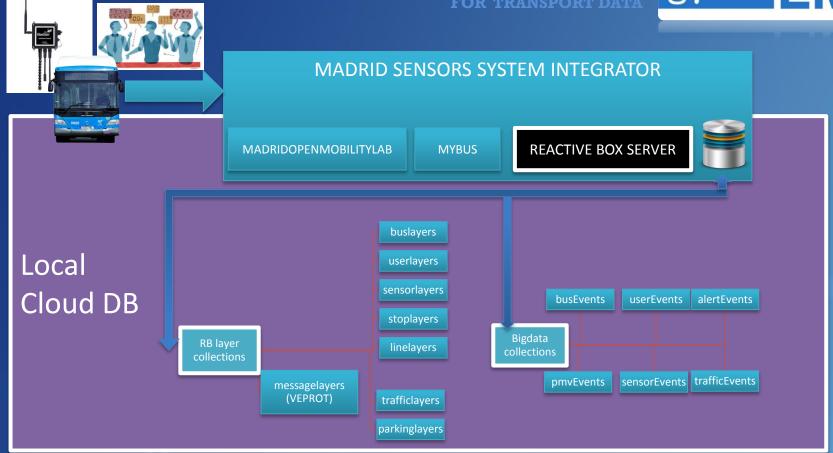












The model is soported by a NOSQL DDBB (Mongo DB) It contains the semantic definition of objects It has real time data and BigData collections



Madrid data model design

To set it, a mobility lab for the city has been created (openlabmobility.emtmadrid.es)



THE MADRID ENTITIES BASIC MODEL HAS BEEN DEFINED BASED ON THE FOLLOWING AIM:

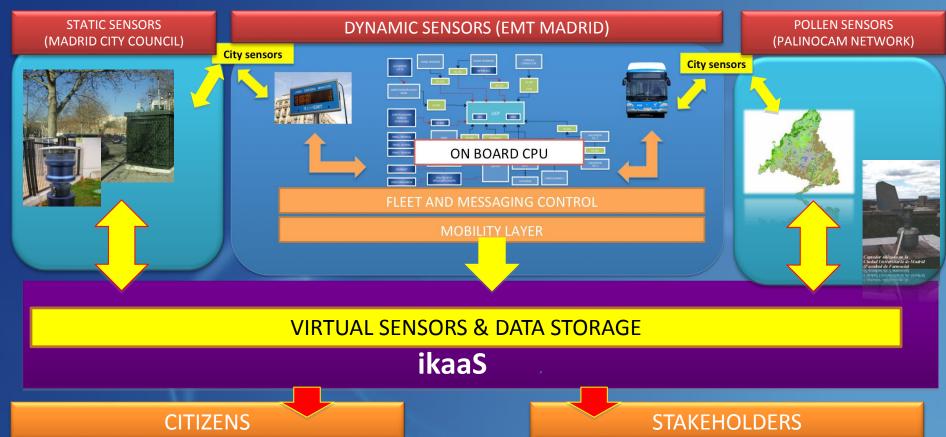
- 1. SHARED AND OPEN
 - 2. ADAPTABLE
 - 3. SCALABLE
 - 4. STANDARD

THE DATA MODEL IS PUBLIC AND OPEN, AND IT IS PUBLISHED IN

HTTPS://GITHUB.COM/MADRIDOPENLABMOBILITY/MOBILITY-MADRID-VIRTUAL-ENTITIES





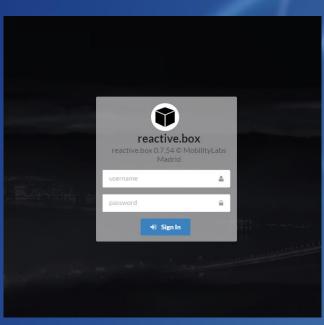


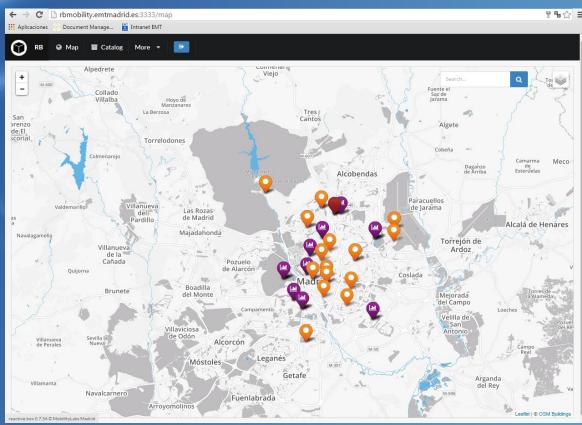
The objective of MADRID is converting its 800 electronic panels and 1,900 buses in an extensive network of mobile and dynamic sensors in addition to current MADRID fixed sensors network. IKAAS provides an open and compatible architecture that will allow firstly to connect any type of sensors and secondly to integrate all of them into a service architecture through which any stakeholder can read values and perform actions using the virtual representation of these sensors. This service architecture must have safety rules and schemes of representation of abstract objects sufficient to ensure its safe use and reliability. Within this idea, IKAAS will help Madrid to step from an environmental data provider (local solution) to an environmental health service provider (global application)



... Madrid open platform for transport (mobility) data

- In real time
- http://rbmobility.emtmadrid.es:3333/







Thank you very much!



http://showroom.emtmadrid.es

http://opendata.emtmadrid.es

sergio.fernandez@emtmadrid.es



@SergioFBalaguer