Air quality in urban areas. New possibilities in sensing, data processing, and modelling

Juan Benavente Ponce

Motivation

Transportation

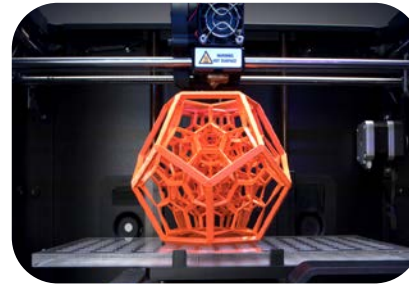Environment
&Human Health

Sensing
Technologies

5G

Big Data

3D Printing

Objectives

As part of project:

- Understanding the State of the Art and Practice

- Collaborate in the implementation of a massive real-time heterogeneous data gathering system.

- Take part in the design and deployment of an on-line public transport QoS monitoring solution.

- Be part of the team responsible for the micro-modelling of Santander City Urban Area.

Objectives

- **Design, build, and test a low-cost mobile environmental sensor**.
- Gather and analyse the environmental data collected by the new sensor.
- Co-operate to set-up a public real-time mobility assistant.
- Help to implement a mobility dashboard for operators an interested mobility parties.
- Disseminate the scientific knowledge obtained during the project.

Academic activity

- Expert's Degree in Transportation Modelling (University of Cantabria)
- Modelling and Simulation of Transportation Networks (MIT)
- EuroPython2017 (The Python Software Foundation, Bilbao)
- World Mobile Congress (GSMA, Barcelona)
- Jornada Técnica sobre Tecnología y Cervicios para las Smart Cities (University of Cantabria)
- I Jornada Futuro en Español Smart Cities (Vocento, Santander)
- Collaboration in an paper regarding Optimization of Bus School Transportation (under review)

Thanks