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REGIONE TOSCANA

Universidad Zaragoza

CESGA

USC UNIVERSIDADE DE SANTIAGO DE COMPOSTELA

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TRAFAIR

Understanding traffic flows to improve air quality

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Motivation and goals

The TRAFAIR project brings together 9 partners from two European countries (Italy and Spain) to develop innovative and sustainable services combining **air quality**, **weather conditions**, and **traffic flows** data to produce new information for the benefit of citizens and government decision-makers. The project is started in November 2018 and lasts two years. It is motivated by the huge amount of deaths caused by the air pollution. Nowadays, the situation is particularly critical in some member states of Europe. In February 2017, the European Commission warned five countries, among which Spain and Italy, of continued air pollution breaches. In this context, public administrations and citizens suffer from the lack of comprehensive and fast tools to estimate the level of pollution on an urban scale resulting from varying traffic flow conditions that would allow optimizing control strategies and increase air quality awareness.

The **goals** of the project are:

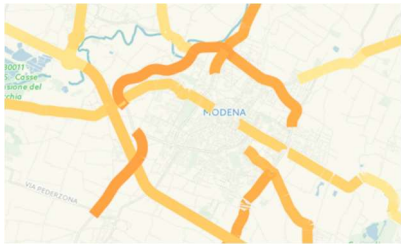
- monitoring urban air quality by using sensors in 6 European cities;
- making urban air quality predictions thanks to simulation models.

Monitoring urban air quality by using sensors in 6 European cities

Making urban air quality predictions thanks to simulation models

TRAFFIC SENSORS

TRAFFIC MODEL



TRAFFIC FLOW

AIR POLLUTION DISPERSION MODEL

AIR QUALITY FORECAST