



## EPS Project proposal

Name: FUZZ SENSORING

Introduction: (Explain the framework of the project and the problem to be solved)

Cities needs data to solve it's problems. As we need to know how much light we have in the environment to open, or not, the street lights, we should need to know traffic data to manage the traffic lights. Usually, we have not a complete data sets, but we can create inferences with data we have.

This project is about this. Where we can get traffic data without traffic sensors? Can we trust in this ones? if we have sensors, but not enough ones, Can we mix this two kind of data inputs to get something in we can trust?

Project Brief: (Describe the project specifying the main objective and its outcomes, design specifications, etc...)

The goal is to get a streets city map where we can know traffic in real time. By this we propose two work layers: Data getting and data inference.

We can get a lot of data from different traffic app api's like google, waze, racc, 'sevei català de trànsit' and so on. Also, we can get data from real traffic sensors that are deployed at street level.

The project it's about how we can mix this different kind of data to try to suppose data where we don't have ones, and which is the real reliability.

Questions to answer are: From how many api's we can get data? How many street level sensors we need to make a useful inferences and where we must to install?

As this is a complex model trying, with many inputs and outputs we purpose a neural network to solve it.

### Proposal made by:

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### Project team:

Number of students: 3/4

Students speciality: Informatic and electronic engineering, matematics, economist, physics