# Pilot Charter — OSN

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## 1 Introduction

The opportunity of making this project possible is born through the initiative Commons for Europe, which at the same time was brought by one of our tutors. More precisely this pilot –open sensor network– belongs to the bottom-up broadband branch, which pursues the utilization of several technologies in networks that follow this approach. That is, a network that gets bigger and better thanks to the active participation of its users.

The technologies used in OSN are –as its name implies– sensors and and the kind of networks that can be created with them.

## 2 Description

The project consists on the deployment of a sensor network which shall gather real-time environmental data. This information would be then uploaded to an open data portal so developers can create new applications that help improve the citizens daily lives.

## 3 Goal

Deploying such a bottom-up network with not too many nodes to prove that indeed it meets the requirements and test the utility of this type of networks.

## 4 Objectives

• Recollecting data from several types of sensors before december 2012.

• Point-to-point communication between two nodes before the end of the present year.

• Being able to upload information to an open data portal before the end of 2012.

• Communicating mesh network before the first trimester of 2013 reaches its end

## 5 Scope

The correct choices have to be made in order to prove the efficiency of this kind of network inside a sensor network. That is, protocols, hierarchy, etc.

## 6 Shareholders

• Governmental regulation.

• Commons for Europe.

• Universitat Pompeu Fabra.

• Material and technology suppliers.

• Public organizations.

• Users.

# 7 Costs

The cost of this project by C4EU/UPF raise to 6,000€ approximately. These costs can be split into the scolarship that those pilots give to the students, amortization of the equipment, two european trips, the time that the director spends as well as fungible assets.

## 7.1 Investment return

This return isn't monetary since the pilot objective does not consist on selling a product. That is, thanks to the accomplishment of the pilot there will be an impact in future deployments of this kind of networks.