Bottom-up Broadband Pilots in Europe (C4EU 5.1.2: Report on Selection of Opportunities and Projects - b)

Name Name, and Name Name

Abstract

This is the abstract

Index Terms

Bottom-up-Broadband (BuB), wifi, super-wifi, fiber, sensor networks

Affiliation

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This pilot is focused on deploying a sensor network which would gather real time data from the environment, such as air quality, noise pollution, etc. This information would be then uploaded to an open data portal to make it publicly available. The ultimate objective of this project is to let developers use this data to build applications that can improve the daily lives of the citizens.

At the time of writing some key decisions have been made. ZigBee is an open source protocol which focuses on low energy consumption and it will be used to establish the connection between the sensor nodes. Also, these nodes will be working on top of the open source prototyping platform Arduino which is commonly used to deploy wireless sensor networks nowadays.

V. THE FREE EUROPE WIFI PILOT

The Free Europe WiFi project is based in the original idea that our Italian colleagues are working on. It is called Provincia WiFi, and tries to offer free WiFi internet connection to any Italian citizen. By now it is only available in some regions of that country, so the idea is to extend it to whole Europe. So, our work is to start establishing a similar project in Spain, always having full interoperability with the original project. Thereby, we want to take the next step to extend it to Europe.

In summary, the final idea is: being a European citizen, it is possible to connect to any of the various access point of our network, in order to enjoy of a free internet connection, in every country that participates in the project.

Notice the complexity, not only technical of the project, but also on every European country telecommunication laws. Every region has its own laws in reference of telecommunication organizations, and in the way citizen use the service. From keeping data from the connected users, to meet the rules of the market it's just an example.

Because of this wide range of different possibilities, it is difficult to create a totally generic prototype, so in order to design it there are many factors to consider.

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And this is the conclusion.

ACKNOWLEDGMENT

REFERENCES