Principles and results (C4EU 5.6.1: Evaluation of Results and Best Practices -a)

Name Name, and Name Name

Abstract

This is the abstract

Index Terms

Bottom-up-Broadband (BuB), principles, results

Affiliation

CONTENTS

LIST OF FIGURES

LIST OF TABLES

I. Introduction

This is the introduction blah blah blah blah blah blah blah. Blah blah blah blah. Blah blah blah blah. Blah blah blah blah.

II. A parallelism with open source communities

The spirit of BuB is very similar to the open source initiative. Before diving into similarities, it is worth saying that the only significant difference is the user attitude. In a bottom up broadband context the user must provide some resources to become part of the resulting network, while in open source community both developers and users benefit from external contributions. Of course, both approaches are completely free.

Transparency is the most evident similarity with this kind of community. For an end user to connect to the network some specifications must be handled thus making this information public and transparent is a key aspect of the BuB approach. The more information, the more users.

From transparency comes derived works. That is, individuals and organizations can adapt these projects to their needs.

As well as the open source definition states, any discrimination or restrictions take place in the BuB philosophy.

III. BuB Principles

IV. Open Network

Open network is a network that allows free connection for anyone, i.e. no restrictions to prevent someone else connecting to it and therefore promotes the growth of the network.

The open network concept itself, is limited to the deployment and operation of the network regardless the content and services running on it. Therefore open network ensures that nobody can prohibit the entrance to new people and essential services network (IPs, DNS, etc.) works properly.

An important aspect of the open network is that it allows connection to many segments of the population excluded (village with low population) since its deployment model reduces costs compared to the currently dominant models. The guifi.net foundation is a

clear example of open network, also with the participation of all users has created the largest open network of the world. It is an open network because all network settings data are published, allowing any person can see how the network is built, to improve, maintain and extend.

A misconception that people have about the open network is that it is not secure, because the link layer is not encrypted, allowing any user to analyze the data passing through your node, but in any network (internet or open network) security depends on the user (application layer), therefore the user is responsible for implementing security measures according to their needs. For example, protocols such as SSL allow secure channel connection between two points in the network and that all information that travels over the network is encrypted.

V. Transparency and documentation

To be done by Nacho

VI. Open Workshops Preparation

To be done by Fernando

VII. Project indicators

A. Pilot proposals 0-10/11-15/+15

The leaders of the pilots work package will issue two calls for pilots in 2012 and 2013. All the partners of the project and external BuB champions will respond to this call with pilot proposals. These proposals must contain some basic information regarding the project, and clearly indicate which are the differentiating characteristics that make them more attractive and suitable for execution. Among all the proposed pilots, the partnership will choose those that are more interesting following criteria of potential impact, geographical distribution, technological diversity, and commitment of the champions that are backing the proposal. The resources of the C4U project will be devoted to monitoring, supporting and documenting the selected pilots.

B. Number of executed sensor pilots 1/2/3

The most promising sensor pilots of all the the received proposals will be executed. These pilots will receive full support from the partners involved in the BuB pilots work package and will be carefully documented to replicate the success models and disseminate the lessons learned.

C. Number of executed superwifi/wifi pilots 1/2/3

The most promising superwifi and wifi pilots of all the the received proposals will be executed. These pilots will receive full support from the partners involved in the BuB pilots work package and will be carefully documented to replicate the success models and disseminate the lessons learned.

D. Number of executed fiber pilots 1/2/3

The most promising fiber pilots of all the the received proposals will be executed. These pilots will receive full support from the partners involved in the BuB pilots work package and will be carefully documented to replicate the success models and disseminate the lessons learned.

E. Number of executed hybrid pilots 0/1/2

Some of the pilots will combine more of one of the technologies of interest in the C4EU project. This hybrid pilots represent a major challenge as they will require the collaboration of different working groups with heterogeneous background and expertise to successfully integrate disparate technologies. Note that a hybrid project involving two different technologies will be counted thrice. As an example, a hybrid wifi-sensor pilot counts as a wifi pilot, a sensor pilot and a hybrid pilot.

F. BuB final users 0-500/500-5000/+5000

One of the goals of this project is to have an impact on a large number of citizens and institutions. To this end, we will estimate the aggregate number of users of the pilots deployed in the project. As an example, if a BuB project provides Internet connectivity

to a cultural center, we will estimate how many people (including staff and visitors) have benefited from the pilot.

G. BuB raised funds 0-1000eur/1000-100,000eur/+100,000eur

The BuB principle requires involvement and commitment from the part of those that will benefit from the pilot. This commitment takes the form of time and effort devoted to the initiative (which are difficult to quantify) and financial support for the execution of the pilot. This indicator reflects the amount of BuB money that is raised from sources different than the project. These should cover the major part of the expenses of the pilots using commercial technologies (wifi, fiber).

H. Cities involved in the pilots 0-2/3-5/+6

One of the goals of the project is to geographically spread success models across Europe, and to establish successful collaborations among champions that share the same goals in different locations. This goal will be fulfilled if the projects are executed in several different cities.

VIII. Conclusion

And this is the conclusion.

Acknowledgment

This work has been partially funded by the European Commission (grant CIP-ICT PSP-2011-5). The views expressed in this technical report are solely those of the authors and do not represent the views of the European Commission.