



# Open Street Map with iPhone.

## Description of the Project.



Date: 8<sup>th</sup> of March of 2010.

Summary: In this document is described the Project with the motivation and the goals.

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# 1. Description

Nowadays Internet offers access to different kinds of maps and streetmaps like for instance Google Maps, Yahoo and Multimap. However, these mentioned maps are private and can not be used to create new applications by means of the use or edition of their data.

Society should have at least one open source map to work on it and using the data for fulfilling their purposes. The OpenStreetMap is a world cooperating project with primary objective is to create a free editable map of the world.

Users of the OSM(**O**pen**S**treet**M**ap) platform can add and edit the maps using data from portable GPS devices, aerial photography, other free sources or simply from local knowledge. Editing and uploading new GPS tracks logs is quite easy using the given editing tools that are provided in the OpenStreetMap website.

OSM was established with the aim of encouraging the growth, development and distribution of free geospatial data and providing geospatial data for anybody to use and share it.

At the beginning, the initial map was built manually by volunteers collecting data using a handheld GPS and a notebook or a voice recorder. Then this data was entered into the OSM database from a computer. Recently some donations of aerial photography and other data sources from commercial and government sources have greatly increased the speed of this work and have allowed land-use data to be collected more accurately.

The technology is always changing and new devices are presented in the market. In the world of Mobile Phones one of the newest ones is the iPhone from Apple and is more than a simple cell phone. The iPhone is a SmartPhone that allows the user to use it as a Camera phone, portable media player, GPS, internet client and give the user multiple software possibilities with the Applications expressly developed for it.

The idea of the project is to use the iPhone as a dispositive for mapping the OSM. For mapping we need GPS, voice recorder and digital camera and this features are covered by the iPhone.

The objectives are:

- Collect GPS tracks with the iPhone and upload them with the correct format to the computer.
- Find the way to add and edit content in the OSM with mapping data collected from the iPhone.
- Search the applications for the iPhone that fit better with the requirements of the OSM platform.

The final result will be two documents:

- User Manual**, in this document will be described, step by step, how a beginner user with an iPhone, can cooperate with the OSM community uploading and editing new map information.
- Work report**, a description mentioning how the goals of the project were achieved.

## References:

- OpenStreetMapWiki : visited 8/3/2010  
([http://wiki.openstreetmap.org/wiki/Main\\_Page](http://wiki.openstreetmap.org/wiki/Main_Page))
- Wikipedia : visited 8/3/2010  
(<http://en.wikipedia.org/wiki/OpenStreetMap>)