

- *Bottom Up Mapping: Development of Software Toolkit to Enable the Creation of Free and Collaborative Geospatial Data Collection*
- Dr Muki Haklay (University College London)

## Abstract

"OpenStreetMap" is a bottom-up, Collaborative Commons-based project to develop free digital mapping information of the world. It is currently restricted to technically-savvy participants able to deal with the technical difficulties of acquiring and integrating geospatial information. The objectives of the research were to develop and test software which enables lay members of the public to participate and populate the map for use by themselves and anyone worldwide.

## Outputs

- Haklay, M., 2007, Open Source Geospatial Foundation, in Kemp, K. K. (Ed.), *Encyclopaedia of Geographic Information Science*, Sage, Thousand Oaks. pp. 330-331
- Haklay, M., in revision, How good is OpenStreetMap information? A comparative study of OpenStreetMap and Ordnance Survey datasets for London and the rest of England *Environment and Planning B* (submitted).
- Haklay, M. And Weber, P., 2008, OpenStreetMap – User Generated Street Map, *IEEE Pervasive Computing*. October-December 2008, pp. 12-18
- Haklay, M., Singleton, A., and Parker, C., 2008, Web mapping 2.0: the Neogeography of the Geoweb, *Geography Compass* 3, 2011-2039, doi: 10.1111/j.1749-8198.2008.00167.x

### Conference Presentations:

- Haklay, M., *Volunteered Geographical Information - a Critical Review*, presented at the 2009 Annual Meeting of the Association of American Geographers, Las Vegas, USA, 22-27 March.
- Haklay, M., 2008, *Open Knowledge – learning from environmental information*, presented at the Open Knowledge Conference (OKCon) 2008, London, 15 March.
- Haklay, M., 2007, *OSM and the public - what barriers need to be crossed?* presented at State of the Map conference, Manchester, UK, 14-15 July

### Invited Talks

- Mar 2009 - Ordnance Survey workshop on usability of Geographic Information – Invited speaker on usability of Geographic Information, by Jenny Harding of the OS.
- Jan 2009 - UCL Centre for Spatial Analysis, S4 event – Invited speaker on the quality of Open Street Map data, by Dr. Andrew Crooks of UCL, CASA
- Oct 2008 - World University Network Global GIS Academy Virtual Seminars – Invited speaker on Neogeography, by Prof. Dave Unwin of WUN.
- Mar 2008 - Open Knowledge Conference – one day conference of the Open Knowledge Foundation. Invited speaker on the transport and environment panel, which opened the conference.

The student that was working on this project got interested in OpenStreetMap, and eventually became a founder of CloudMade, a company that commercialises OpenStreetMap outputs. His engagement with the project can be traced back to this project: <http://www.cloudmade.com/team/nick-black>