OpenAddresses

An OpenGeodata Project

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Georeferenced Street Addreses

- (At least) One address per building containing *streetname, housenumber, postcode, placename*

- Important for micro-geospatial analysis, LBS, delivery and emergency services etc.

- Availability – yes, of course! Accessibility – well, sort of…

- Alternatives: Interpolated navigation-data

Compute Catchment Areas

Geocoded addresses to start from…

Map data: © Grundbuch- und Vermessungsamt Basel-Stadt

Compute Catchment Areas

Create Voronoi

Map data: © Grundbuch- und Vermessungsamt Basel-Stadt

Compute Catchment Areas

Dissolve

Map data: © Grundbuch- und Vermessungsamt Basel-Stadt

OpenWebMapServices (OWMS) Geocoders

Not too bad – but not too good either:

Geocoding 90'483 addresses (Canton Solothurn):

- Google Maps:
  - 79'785 addresses (88.5%) at streetlevel
  - 69'131 (76.7%) < 20m distance to official data
- Microsoft Bing Maps:
  - 77'392 addresses (85.8%) at streetlevel
  - 36'770 (40.8%) < 20m distance to official data

OpenAddresses.org – The Project

- ## Idea:

  - Take advantage of individual's local expertise and collect this knowledge via Internet

  - collected data available & accessible – for free and open

- ## Implementation (since 2010):

  - MapFish Server

  - Client: GeoExt, OpenLayers and ExtJS

  - PostgreSQL/PostGIS (Database)

  - Python (Server), JavaScript (Client)

OpenAddresses.org – History

- Jul '07:   Idea: collect addresses via GM API

- Aug '07:   First version www.openaddresses.ch

- Jul '08:   www.openaddresses.at online

- Dec '08:   Start 'Map Your World'

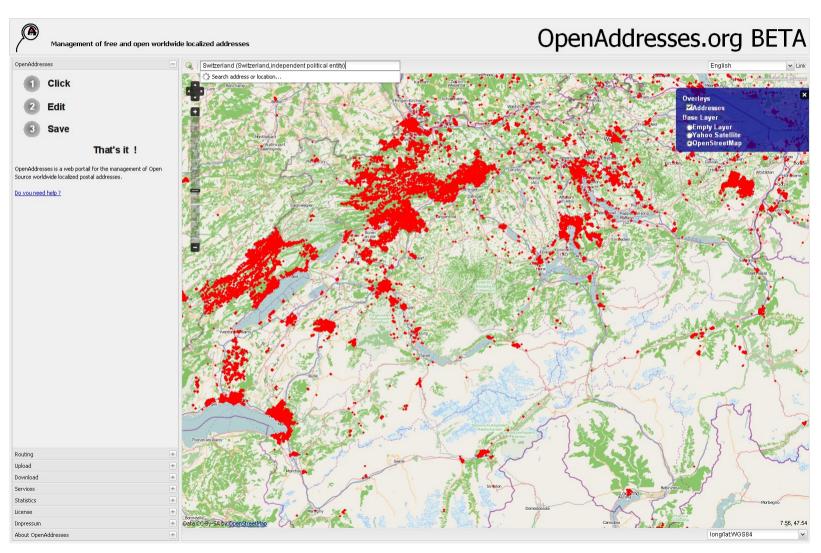- …

- Mar '10:   OpenAddresses.org live

OpenAddresses.org …

…is an OpenSource portal for geocoded addresses worldwide

… stores only address-information – no personal information

… is compliant with OpenStreetMap

… offers services for geocoding and reverse-geocoding
  → *http://code.google.com/p/openaddresses/wiki/RESTService*
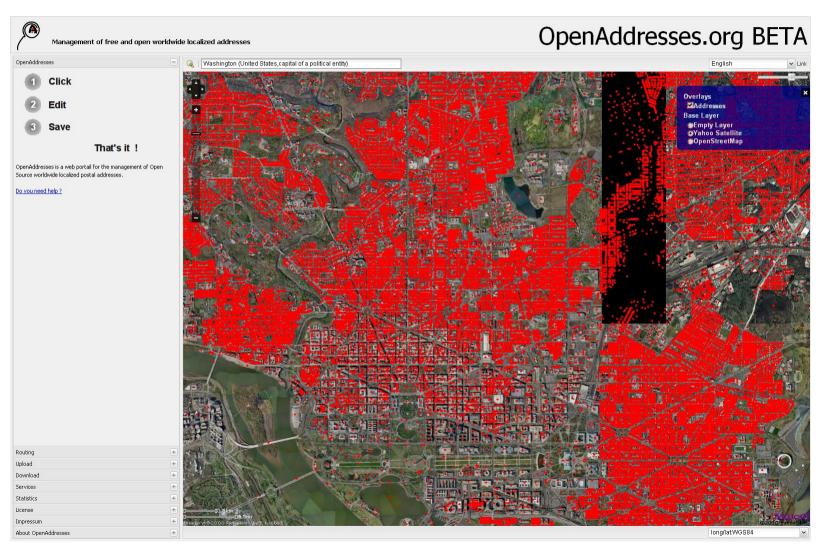
… offers download service for OA data

Areas of Interest

Switzerland
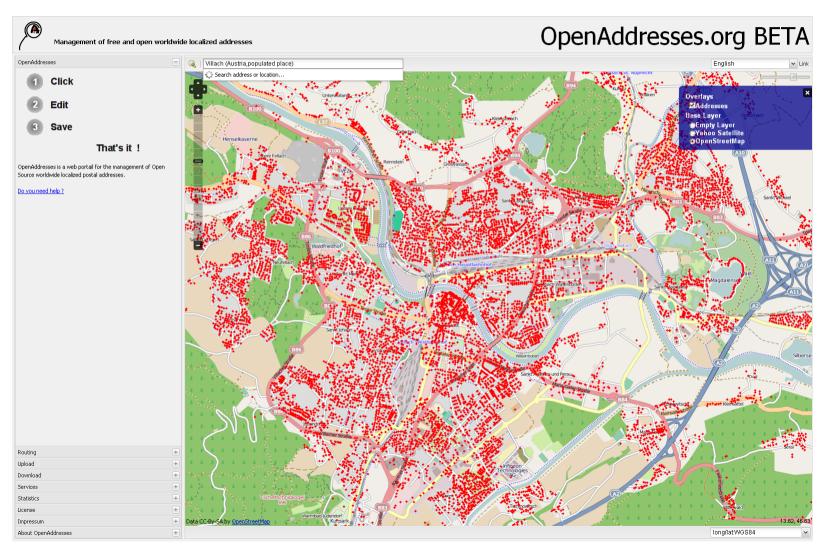
Areas of Interest

Washington (USA)

Areas of Interest

Villach (Austria)

Areas of Interest

Barcelona (Spain)

Websources on OpenAddresses

http://openaddresses.blogspot.com

People behind OpenAddresses

Project Steering Committee:

- **Stefanie Andrae**, Carinthia University of Applied Sciences, Austria

- **Lukas Bähler**, University of Applied Sciences Northwestrn Switzerland, Switzerland

- **Jeff Konnen**, ubithere, Luxembourg

- **Lars Lingner**, Germany

- **Jean-Luc Miserez**, inser, Switzerland

- **Cédric Moullet**, swisstopo, Switzerland

- **Luca Palli**, inser, Switzerland

- **Hans-Jörg Stark**, University of Applied Sciences Northwestrn Switzerland, Switzerland (PSC President).
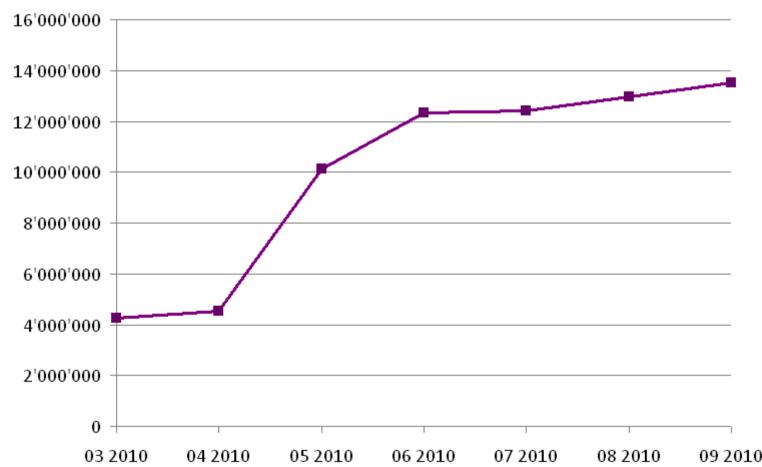
Growth of OpenAddresses data

Currently: **13'518'257** geocoded addresses
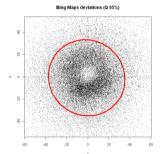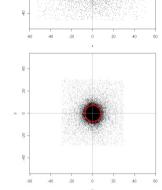

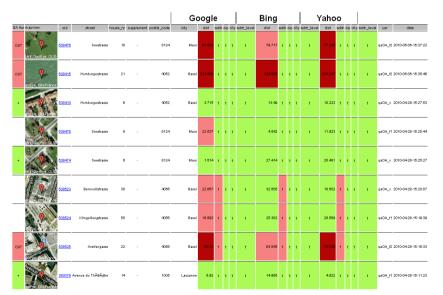number of records in OpenAddresses

Research around OpenAddresses

Quality assessment ISO/TC 211 based:

Using OpenWebMapServices for
    attribute and positional accuracy

Relation between OA and OSM

- 100% compatible with OSM (license)

- OA more focussed on address data and services

- OA2OSM sync currently in work

- We support OSM – vice versa...?

- There are more than one OSS for one task –
  why should there be only one single data repository?

- VGI-SDI !
  For Interoperability between OpenGeodataProjects

visit and join

www.openaddresses.org

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