



OpenAddresses

An OpenGeodata Project

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Georeferenced Street Addresses

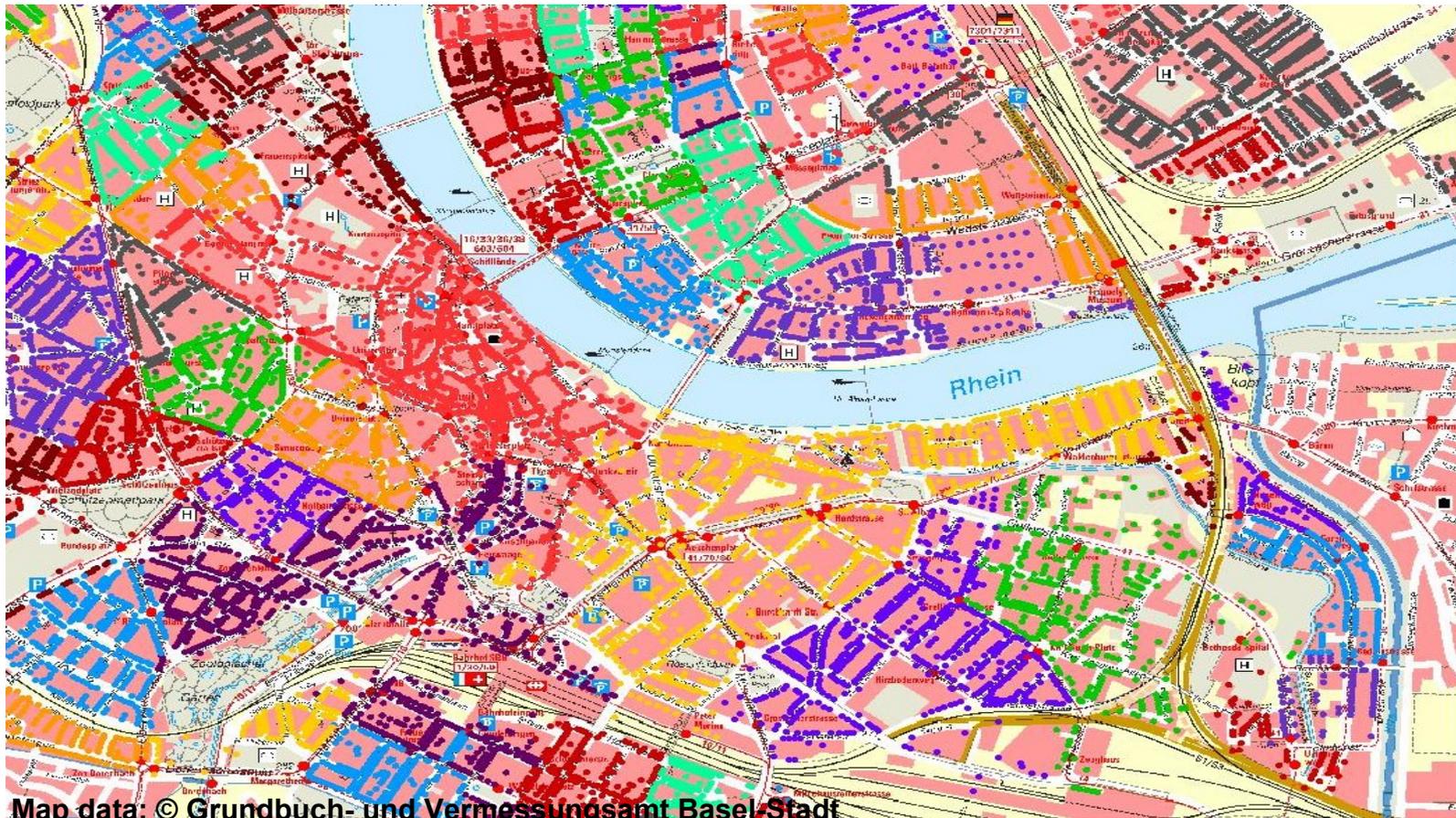
- (At least) One address per building containing *streetname*, *houzenumber*, *postcode*, *placename*
- Important for micro-geospatial analysis, LBS, delivery and emergency services etc.
- Availability – yes, of course!
Accessibility – well, sort of...
- Alternatives: Interpolated navigation-data





Compute Catchment Areas

Geocoded addresses to start from...



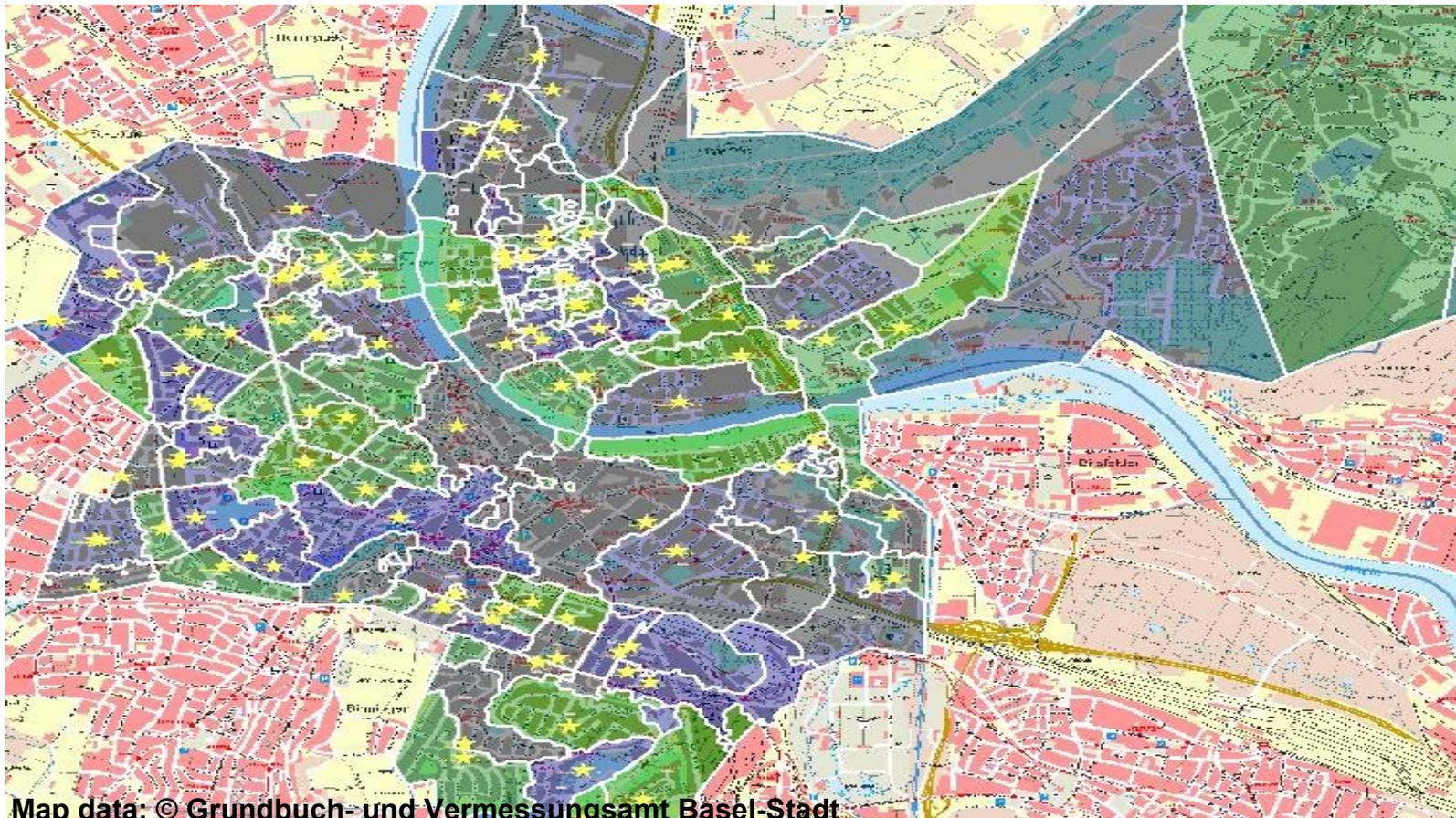
Map data: © Grundbuch- und Vermessungsamt Basel-Stadt





Compute Catchment Areas

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

Management of free and open worldwide localized addresses

OpenAddresses.org BETA

OpenAddresses

1 Click
2 Edit
3 Save

That's it !

OpenAddresses is a web portal for the management of Open Source worldwide localized postal addresses.

[Do you need help ?](#)

Routing
Upload
Download
Services
Statistics
License
Impressum
About OpenAddresses

Switzerland (Switzerland,independent political entity)

Search address or location...

English

Overlays
 Addresses
Base Layer
 Empty Layer
 Yahoo Satellite
 OpenStreetMap

7.56, 47.54
long/latWGS84





Areas of Interest

Washington (USA)

OpenAddresses.org BETA

Management of free and open worldwide localized addresses

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Washington (United States, capital of a political entity)

English

Overlays
 Addresses
Base Layer
 Empty Layer
 Yahoo Satellite
 OpenStreetMap

long/lat/WGS84





Areas of Interest

Villach (Austria)

Management of free and open worldwide localized addresses

OpenAddresses.org BETA

OpenAddresses

Villach (Austria, populated place)

Search address or location...

English

1 Click

2 Edit

3 Save

That's it !

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[Do you need help ?](#)

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Impressum

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Overlays

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- Base Layer
- Empty Layer
- Yahoo Satellite
- OpenStreetMap

Data CC-BY-SA by [OpenStreetMap](#)

13.82, 46.68

longlat:WGS84





Areas of Interest

Barcelona (Spain)

Management of free and open worldwide localized addresses

OpenAddresses.org BETA

OpenAddresses

Barcelona (Spain, seat of a first-order administrative division)

English

1 Click
2 Edit
3 Save

That's it !

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Websources on OpenAddresses

twitter Hast Du ein Konto? Einloggen

Kurze, aktuelle Nachrichten von OpenAddresses erhalten.

openaddresses

Name OpenAddresses
Web <http://www.openad...>
Biografie OpenAddresses.org is an Open Source web portal for the management of Open worldwide geolocated postal addresses.

1 Following 50 Follower 6 Gelistet

Tweets 54

Favoriten

Ich folge

RSS-Feed mit Tweets von openaddresses

About 200'000 new addresses with an update of arkansas.gov!
12:42 PM Jul 4th via web

New Open WMS from Jura: <http://www.openaddresses.org/?northing=6001849.4943126&eastng=817329.79733202&zoom=18&overlayOpacity=0.7>
11:57 AM Jul 1st via web

Freigeben Missbrauch melden Nächstes Blog

openaddresses

www.openaddresses.org is an Open Source web portal for the management of Open worldwide geolocated postal addresses.

OpenAddresses
<http://www.openaddresses.org>

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- ▼ 2010 (22)
 - ▼ July (1)
 - OpenAddresses receives an award at AGIT 2010
 - June (2)
 - May (6)
 - April (11)
 - March (2)

Saturday, July 10, 2010
OpenAddresses receives an award at AGIT 2010
The OpenAddresses poster have been awarded during [AGIT 2010](#).
Have a look at this poster (also [pdf](#)):

<http://openaddresses.blogspot.com>

Congratulations to Hans-Jörg!
Posted by Cédric Moulet at 12:22 AM. 0 comments

Startseite

Beschreibung: Discussion around www.openaddresses.org, the open source geocoded addresses repository

Diskussionen 9 von 646 Nachrichten [Alle anzeigen »](#)

- [OA mentioned](#)
Von OpenAddresses Hans-Jörg Stark - 7:38 - 1 Autor - 0 Antworten
- [Prod Server Down <http://c2cpc84.camptocamp.com/openaddresses/> !!!](#)
Von SiteUptime - 26 Aug. - 1 Autor - 1 Antwort
- [6th anniversary of OSM](#)
Von OpenAddresses Hans-Jörg Stark - 24 Aug. - 1 Autor - 0 Antworten
- [WG: Are building addresses freely available? Would you share these in OpenAddresses.org?](#)
Von Lars Lingner - 23 Aug. - 2 Autoren - 1 Antwort
- [Free Greek Data \(?\)](#)
Von OpenAddresses Hans-Jörg Stark - 17 Aug. - 2 Autoren - 2 Antworten
- [Quality Assessment with VGI - applied on OpenAddresses](#)
Von OpenAddresses Hans-Jörg Stark - 14 Aug. - 1 Autor - 0 Antworten
- [the good and the bad boys...](#)
Von OpenAddresses Hans-Jörg Stark - 11 Aug. - 1 Autor - 0 Antworten
- [\[Mapbender-users\] Projektstände auf der Intergeo 2010 | OSGeo Park on Intergeo 2010 -> project booths \(german\)](#)
Von OpenAddresses Hans-Jörg Stark - 9 Aug. - 2 Autoren - 1 Antwort





People behind OpenAddresses

Project Steering Committee:

- **Stefanie Andrae**, Carinthia University of Applied Sciences, Austria
- **Lukas Bähler**, University of Applied Sciences Northwestern 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 Northwestern Switzerland, Switzerland (PSC President).

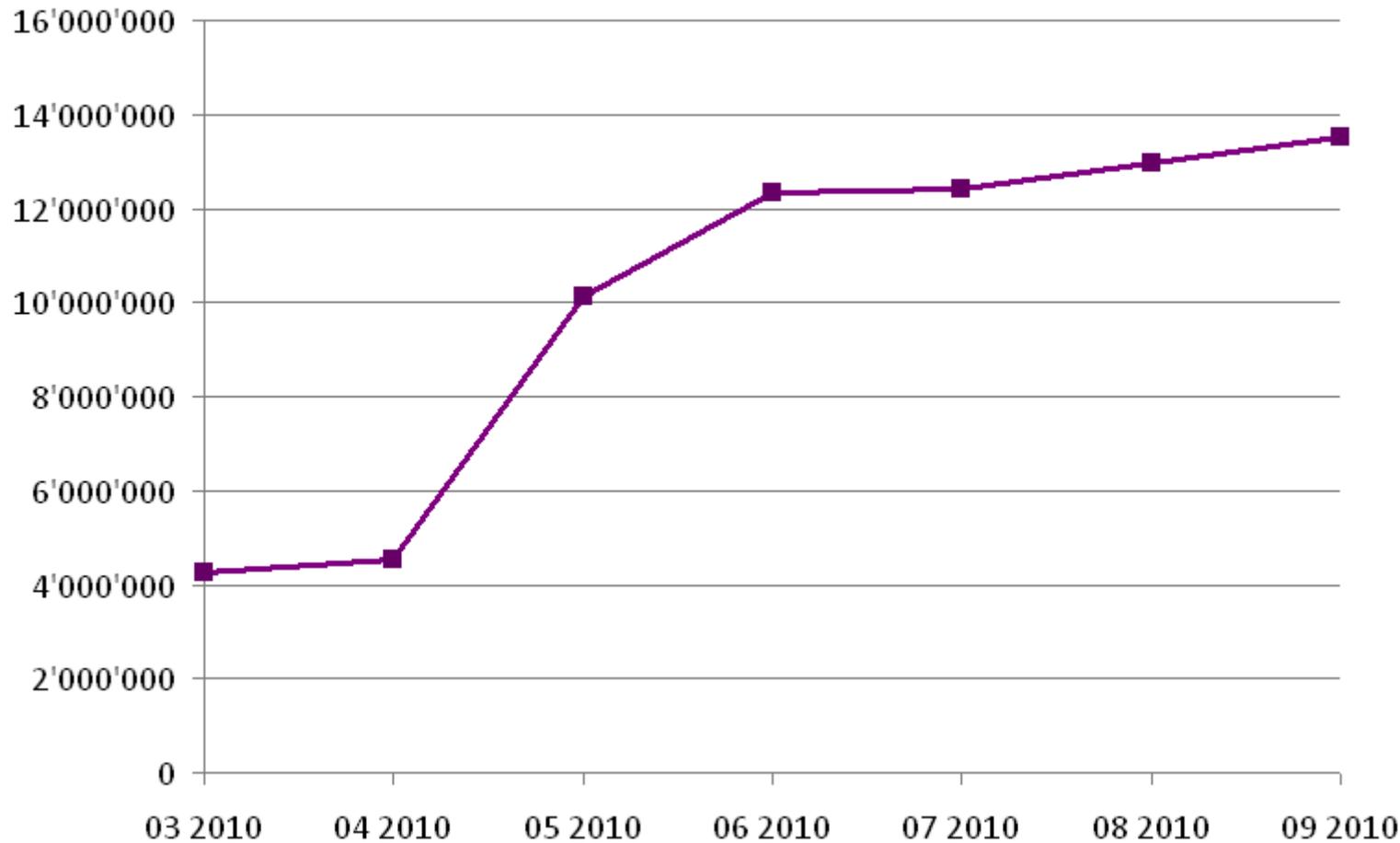




Growth of OpenAddresses data

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

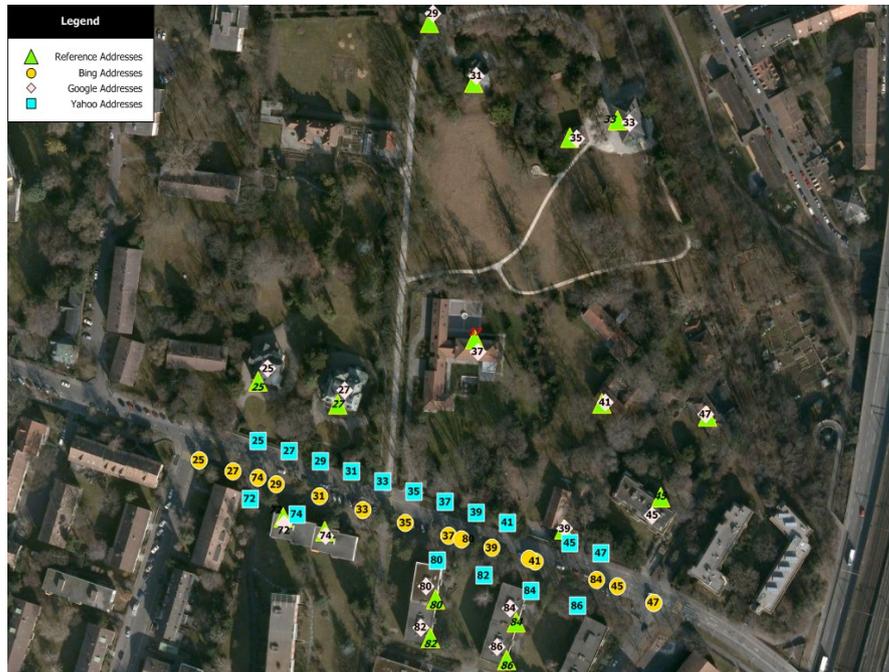
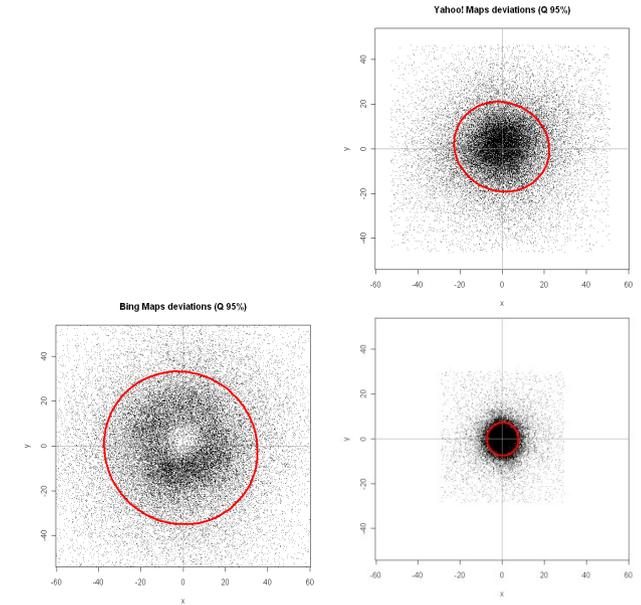
number of records in OpenAddresses





Research around OpenAddresses

Quality assessment ISO/TC 211 based:
Using OpenWebMapServices for
attribute and positional accuracy



DA_Ad	mapview	oid	street	hours_yr	supplement	postal_code	city	Google			Bing			Yahoo			user	date		
								dist	addr_cp	city_addr_level	dist	addr_cp	city_addr_level	dist	addr_cp	city_addr_level				
OUT		438478	Seestrasse	10	-	8124	Maur	27.842	f	t	t	79.717	f	t	t	77.285	f	t	t	caDA_C 2010-05-05 15:37:22
OUT		438415	Hemburgstrasse	21	-	4052	Basel	134.463	f	t	t	238.838	f	t	t	284.381	f	t	t	caDA_C 2010-05-05 15:38:46
+		438410	Hemburgstrasse	0	-	4052	Basel	3.716	f	t	t	13.46	f	t	t	10.223	f	t	t	caDA_C 2010-04-28 15:27:53
+		438475	Seestrasse	0	-	8124	Maur	22.537	f	t	t	4.542	f	t	t	11.923	f	t	t	caDA_H 2010-04-28 15:25:44
+		438474	Seestrasse	0	-	8124	Maur	1.514	f	t	t	27.414	f	t	t	20.481	f	t	t	caDA_C 2010-04-28 15:25:27
+		438542	Benevolitstrasse	30	-	4050	Basel	22.667	f	t	t	32.508	f	t	t	10.602	f	t	t	caDA_C 2010-04-28 15:20:07
+		438524	Klingelbergstrasse	50	-	4050	Basel	18.892	f	t	t	25.302	f	t	t	20.594	f	t	t	caDA_H 2010-04-28 15:19:36
OUT		438525	Grellengasse	22	-	4059	Basel	80.134	f	t	t	93.540	f	t	t	74.124	f	t	t	caDA_C 2010-04-28 15:18:33
+		402029	Avenue de Thâle	14	-	1005	Lausanne	5.92	f	t	t	14.955	f	t	t	4.922	f	t	t	caDA_H 2010-04-28 15:11:23





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

hansjoerg.stark@openaddresses.org

