

BLUgis

GIS for Emergency Medical Services EMS
GIS für den Rettungsdienst
GIS pour le service de secours



**REGIO
144
RETTUNG**



HSR
HOCHSCHULE FÜR TECHNIK
RAPPERSWIL



**SAMSUNG
ENTERPRISE ALLIANCE
PROGRAM**



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Eidgenössisches Volkswirtschaftsdepartement EVD
Kommission für Technologie und Innovation KTI
Förderagentur für Innovation

about me...

Markus Honegger

2009 – now

working as a paramedic

then – 2009

working in the IT industry



- local knowledge
- turn-by-turn GPS
- operation fax
- smartphone
- local maps (on paper)



Schutz & Rettung Zürich - Einsatzleitstelle		16.06.2014		Einsatzauftrag Rettungsdienst	
Einsatznr.	S14073152	Dip-Nummer	Alarm	Team	Speziales
Einsatzr.	elsB	D14043437	13:56:47	654	NOTARZT ABHOLEN
		D14043438	13:56:47	693	ABHOLVERFAHREN
			13:56:47	NA_GZO	
Kreis	706432 / 241984	Station	Quartier	Baugemeinde	Endort
<p>Trauma schwer und gefährliche Körperregion 16.1.4.1 Sondersignal mit Notarzt !</p>					
Bemerkungen Kettenstraße, Landwirt 60 j RD wird eingewiesen			Einsatz angelegt: 16.06.2014 13:56		
Zielort			Einsatzort VOLLZUGSZENTRUM BACHTEL KOLONIENSTRASSE 2 HINWIL		
Zielort			Zum Spital Spital GZO Patient		
Zielort			Melder 0794095692 H. Jucker		
Zielort			[X-] NA [T+] [X]		







Subikon

job sharing

driver

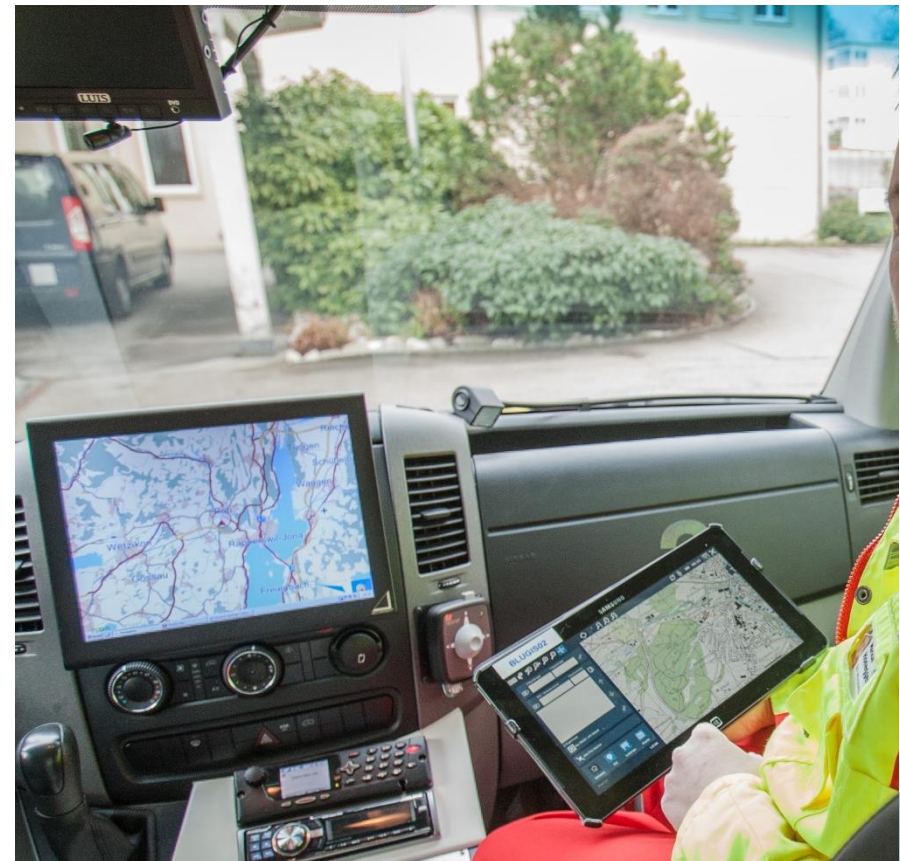
- find the location roughly

co-driver

- route overview
- orientation around the target area
- accurate navigation

overview

- digital **maps** instead of paper
- search by **street / house number** or **coordinates**
- **object information**
- **entry information**
- temporary **events/obstructions**
- fully **offline**



Components

QGIS

Plugin/GUI
BLUgis

maps and geo data

Hardware, OS (Windows)

- **base maps**
Landeskarten Swisstopo 1:25'000, 1:50'000
Übersichtsplan 1:5'000
- **addresses**
AV and GeoPost
- **POI point of interest**
manually added POIs like hospitals, buildings,
local surgery, ...
- **entries**
good, bad an «no ways».
- **events**
temporary information like roadworks, fairs, sport events, ...
- **newsboard**
an easy way to spread any files (e.g. PDF's) to all tablets.





GPS-Signal wird gesucht...

X-Koordinate Y-Koordinate

POI / Strassenname Hausnummer

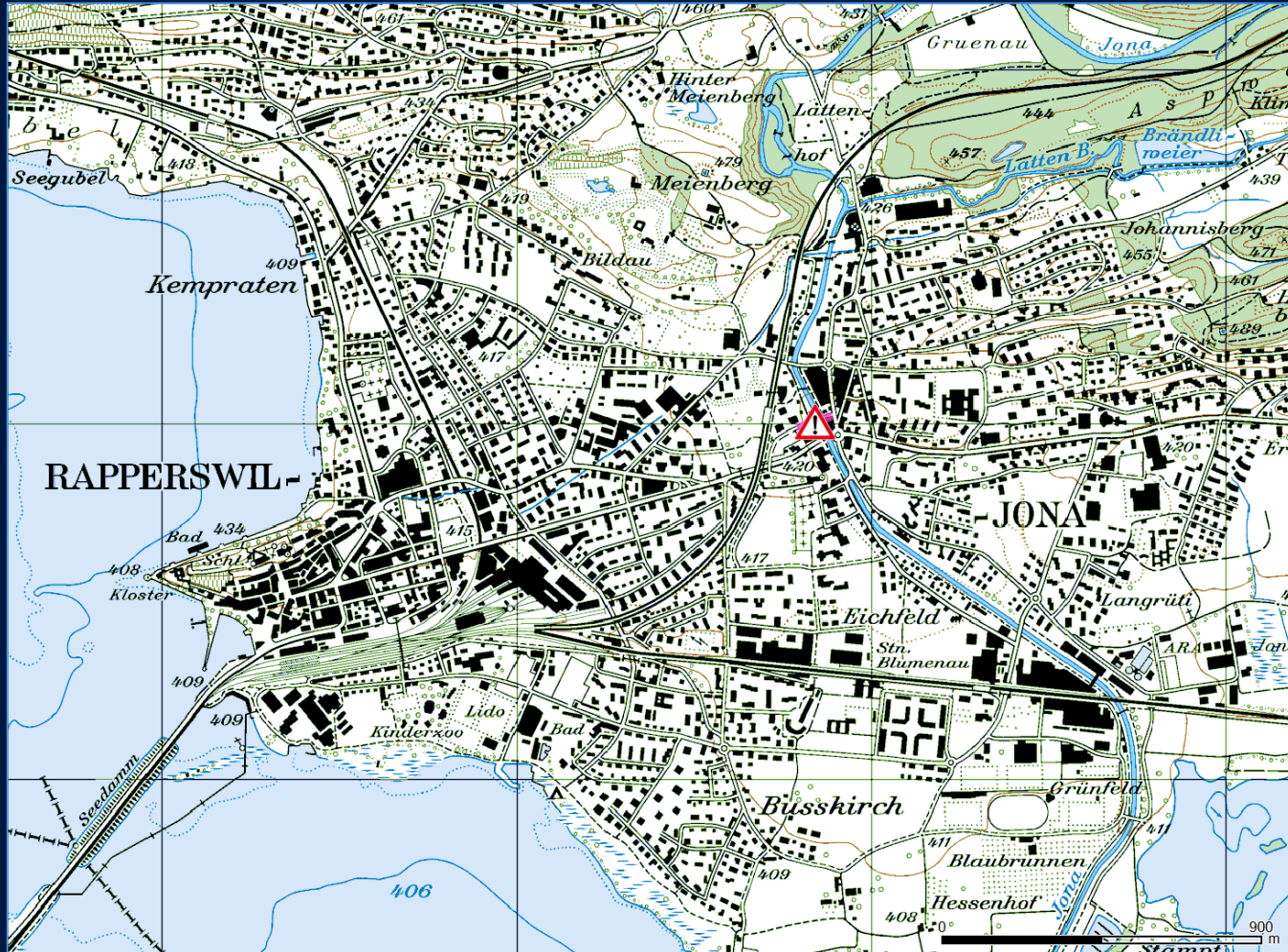
Search results area

0 Ergebnisse Nur REGIO 144 Gebiet

Alle Pins löschen

- Adressen POI Zufahrten Events

BLUGs 0.11 1:11'701



Datenmaterial

Basismaterial

Zusatzinfos

Temporärinfos

Kartenmaterial
Landeskarten
Übersichtsplan

Zufahrten

Veranstaltungen

Adressen
(AV, GeoPost)

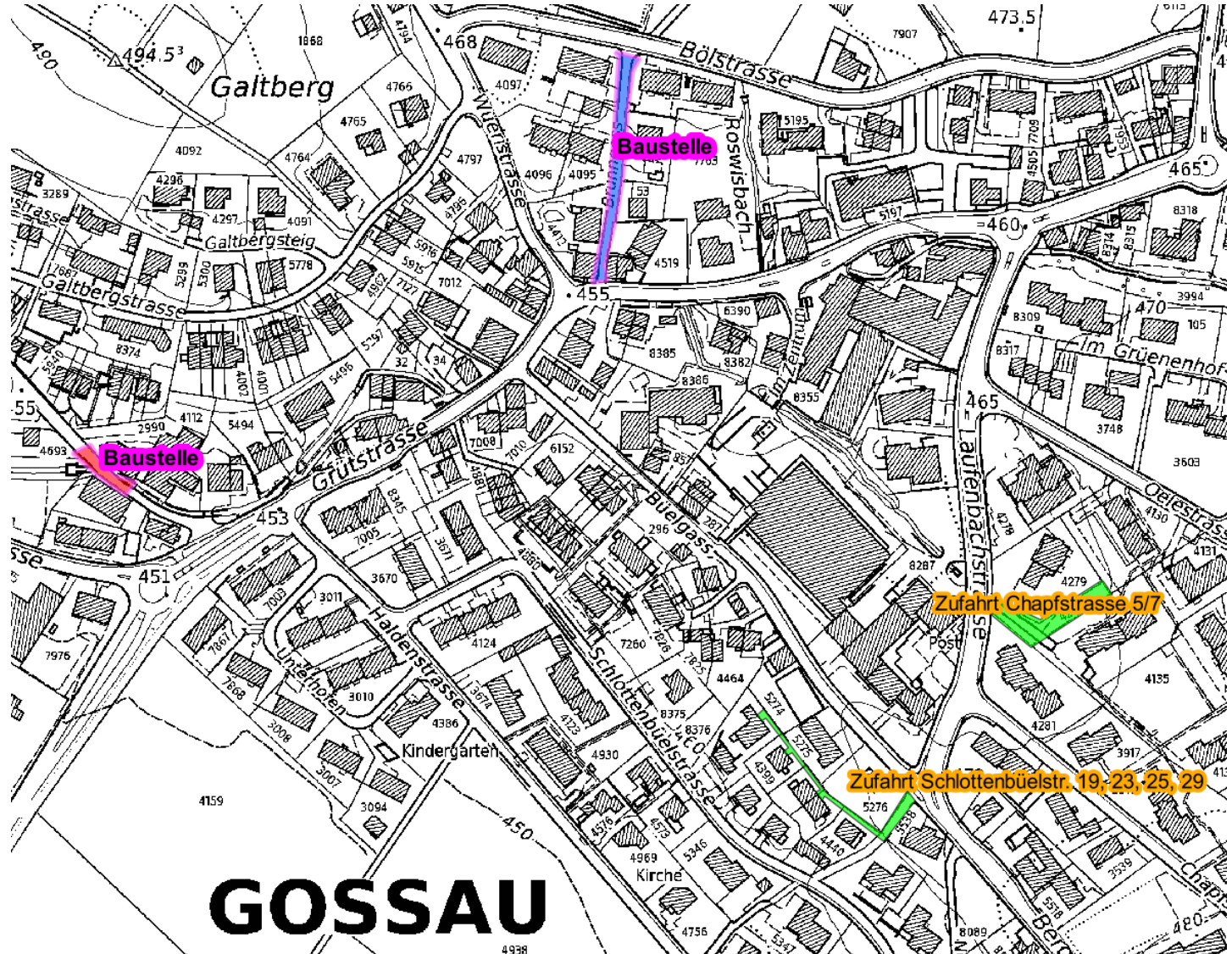
Point-Of-
Interest

Baustellen

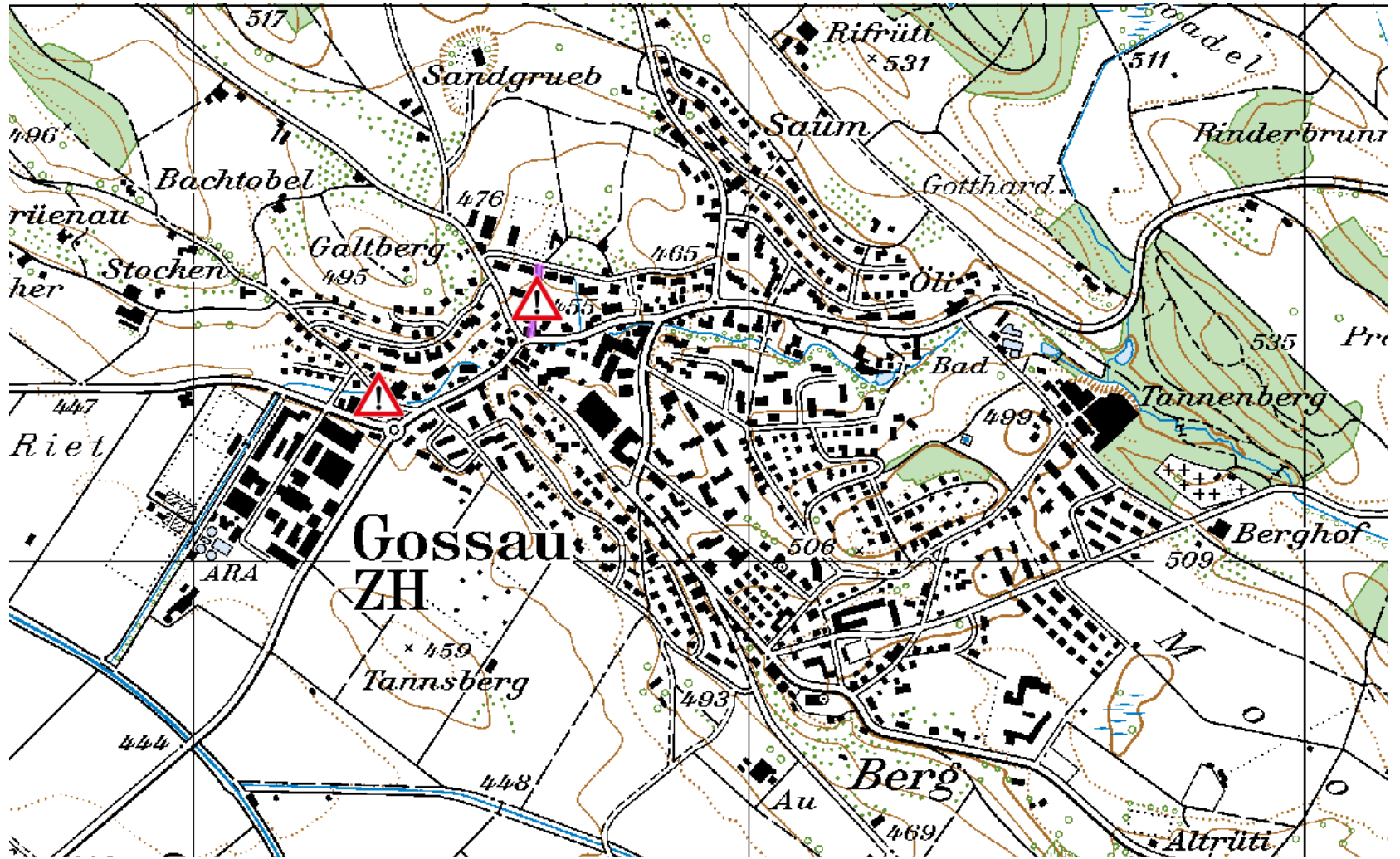
maps

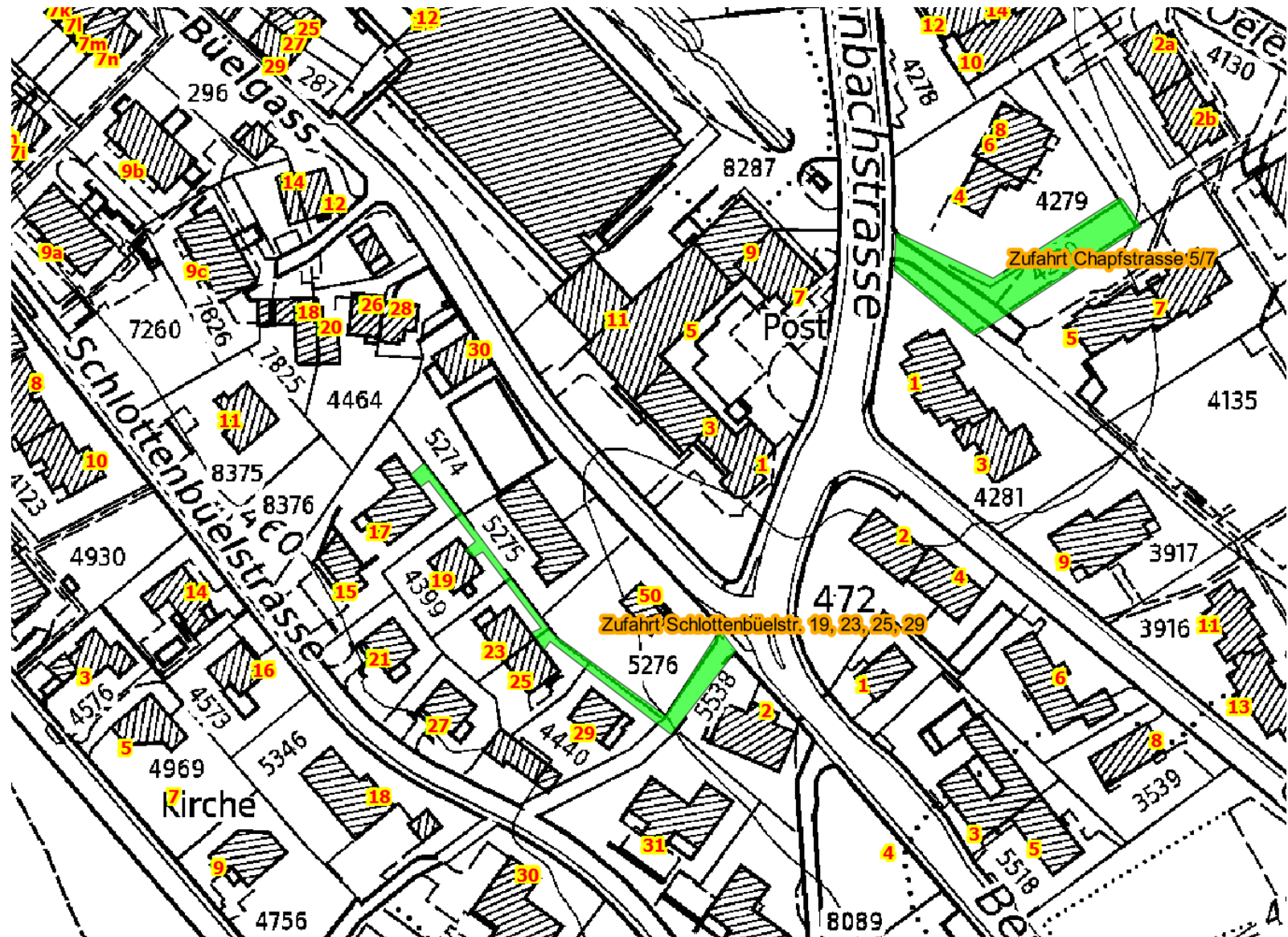


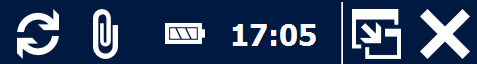
events, entries



GOSSAU







Zuletzt aktualisiert vor 5 Tagen

X-Koordinate Y-Koordinate

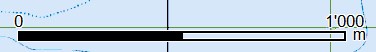
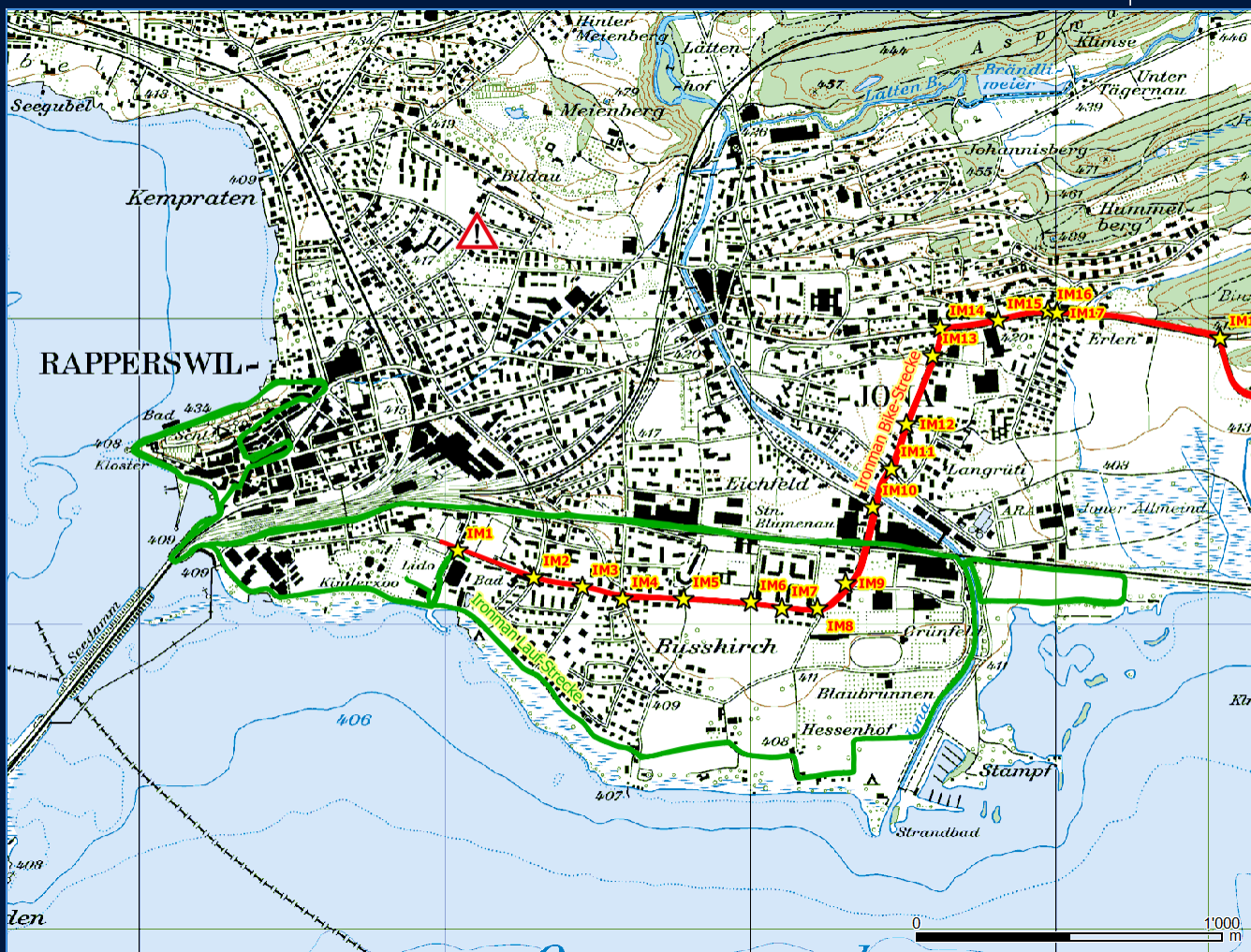
POI / Strassenname Hausnummer

0 Ergebnisse
Nur REGIO 144 Gebiet

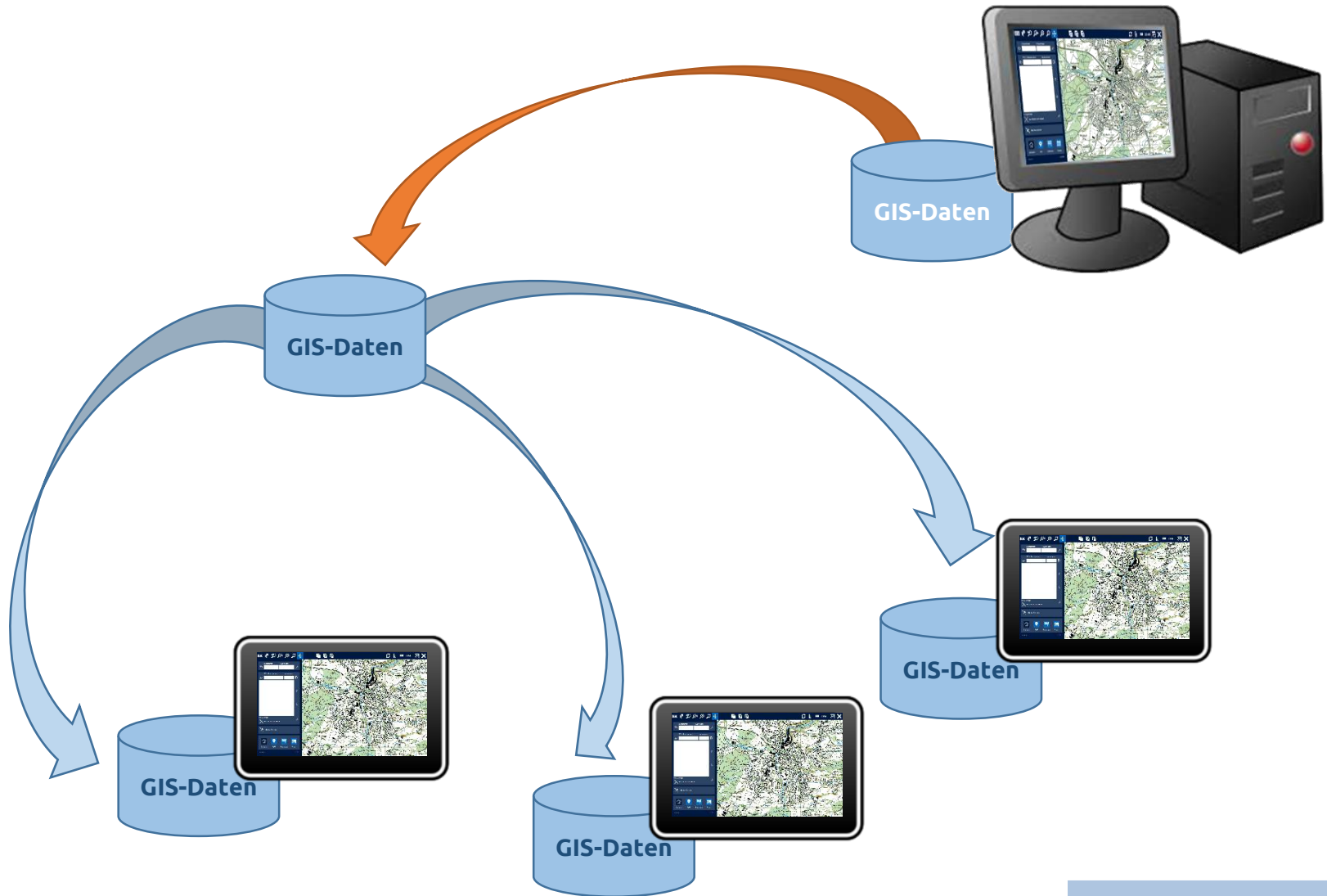
Alle Pins löschen

- Adressen
- POI
- Zufahrten
- Events

BLUgis 0.11 1:14'486



data management



data management

- **.QGS project file**
- **raster files**
Pixelkarten, ÜP
- **spatialite databases**
addresses (poin), poi (point),
events (polygon), entries (polygon)
- **attached files**
PDF, JPG, ...
- **symbols**
warnsigns, ...

- **main developer:** Josua Stähli
- **support:** Stefan Keller, Rafael Krucker, Tobias Schmutz
- **QGIS plugin**
written in Python
- **touch optimized GUI**
realized using Qt style sheets
- **GPS**
Windows Location API (.NET Framework)
C# console application, read out by QGIS plugin
- **file replication**
updates (even opened) sqlite databases based on
file size, change date, ...

Traffic Obstruction Database Verkehrshindernis-Datenbank

- «side project», lead at HSR
- webservice, registration needed
- implemented: Astra, Tiefbauamt Stadt Zürich
- <http://trobdb.hsr.ch>
http://giswiki.hsr.ch/TROBDB_Webservices

http://trobdb.hsr.ch/map Traffic Obstruction Databas... x

Traffic Obstruction Database

INSTITUT FÜR SOFTWARE HSR HOCHSCHULE FÜR TECHNIK RAPPERSWIL FHO Fachhochschule Ostschweiz

markus.honegger@gmail.com Logout

Home Contact About Edit

search for address ...

2 km 1 mi

Leaflet | Map data © OpenStreetMap | Lizenz

Swiss map data 25.03.2014 ODbL by [OpenStreetMap](#) · Data sources: [VMZ](#), [Stadt Zürich](#) · [Data license](#)

TROBDB

