



IB



hochschule mannhein

MANNHEIM² Integrationsforum



PROJECT: MANNHEIMER MAPATHONS PROMOTING INTEGRATION – PROVIDING HUMANITARIAN AID

https://mamapa.org

Unterstützung:

und Hilfe von:



cartong Chambèry, FR

Disastermappers Heidelberg

BASF Ludwigshafen am Rhein



PROJECT: MANNHEIMER MAPATHONS PROMOTING INTEGRATION – PROVIDING HUMANITARIAN AID

Activity: organizing a series of mapathons (every 4-5 weeks) in which recent arrivals in Germany (immigrants, refugees or others) and local residents, work together -- in tandem -- on selected HOT / Missing Maps tasks





















PROJEKT: MANNHEIMER MAPATHONS

PROMOTING INTEGRATION – PROVIDING HUMANITARIAN AIDE

100% volunteer organization and participation

- Begin: January, 2018
- Summer 2018: formally registered as non-profit association ("e.V.")
- To date: 18 Mapathons organized Mannheim, Ludwigshafen, Heidelberg
- Mapathon attendance: 25-35 persons (50/50 new arrivers/local residents)

IT infrastructure/usage provided free of charge by support organisations

Supporters :

- Language and "integration" schools for migrants, refugees, "new arrivers" (Goethe Institute, Int.Bund, Volkshochschulen, etc.)
- Local authorities charged with communal integration tasks
- Mannheim Technical University Faculty for Social Work
- Geographic Institute Uni Heidelberg
- CartÓNĠ France
- **BASF** (financial)
- Acquaintances, friends and family



MANNHEIMER MAPATHONS

Promoting integration of new arrivals

- Mapping in tandem with current residents:
 - Social contact
 - Language practice
- Getting to know their new environment:
 - Moving beyond daily « routines » of school, home, compatriots, family
 - Expanding their daily « geographic horizons »
 - Better understand the new cultural situation in which they find themselves

For all participants: new arrivals and long-time residents: Deconstruct stereotypes, combat prejudicial thinking





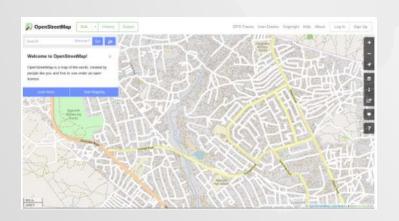




MANNHEIMER MAPATHONS

Acquisition of new knowledge and skills

- Raising geographic awareness in general
- First encounter with (digital) cartography
- Increased IT skills
- Awareness of career possibilities related to location-based services









MANNHEIMER MAPATHONS

Making a concrete humanitarian contribution

- Supporting others in need worldwide
- Being part of a worldwide community of humanitarian activity.
- Being able to help others despite one's own difficulties.









PUERTO RICO MAPATHON

October 4, 2017 | 11:00 A.M. – 1:45 P.M. | Criss Library Rm. 112

Contribute your time to open source mapping to aid relief efforts in Puerto Rico.

Following Hurricane Maria, people globally are using OpenStreetMap to help provide the Red Cross with data needed for disaster response. The Red Cross has identified tasks we can help with that aid their relief efforts. UNO Libraries in hearing a morpathan to help students, staff, and faculty contribute. During the mapathan, we will work together to help provide data that the Red Cross needs.

No mapping experience or knowledge of the local geography is required. You are free to came and go as you need—this is intended to be a drop-in event. If you want to help but only have a few moments, please feel free to stop by.

Please RSVP on MaxSync. Feel free to bring your laptop, but computers will also be available for use in the lab. No software installation is required.

Dr. Jason A. Hepple Digital Engagement Libraria Jheppler#unomaha.ed

LIBRARY.UNOMAHA.EDU In Diservity of Velocities in Director (2010) and not decrement locations ago, resp. strategy, reduct responses





MANNHEIMER MAPATHONS « Live » - 10.04.2018



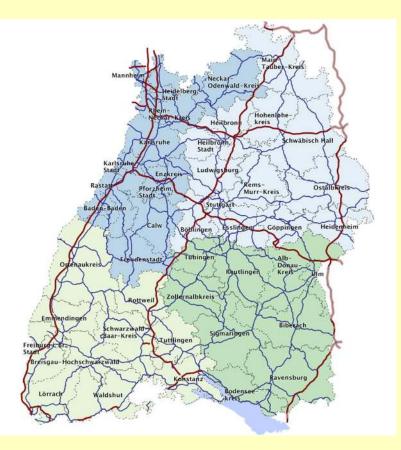
https://mamapa.org



Road Works Management System BW – BIS2.0 Alexander Dreidt (LST)

Road works & constructions in Baden-Württemberg

- > 400 major road construction sites each year on highways and primary roads
- Hundreds of maintenance works each day

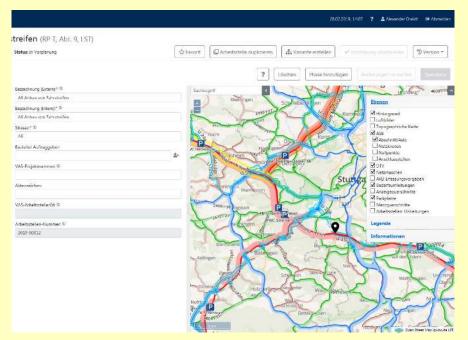




Improve planning and coordination

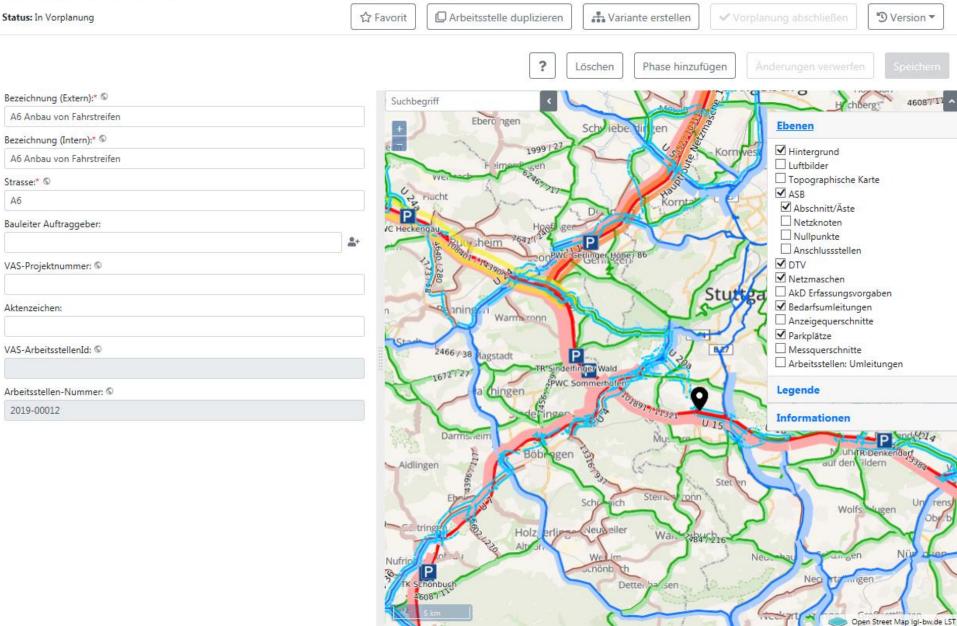
BIS2.0 supports planning and coordination of road works

- Capture all information relevant for public and third parties
- Finding optimal time slots
- Estimating (and reducing) road work's traffic impact
- Support request, hearing and approval of road works



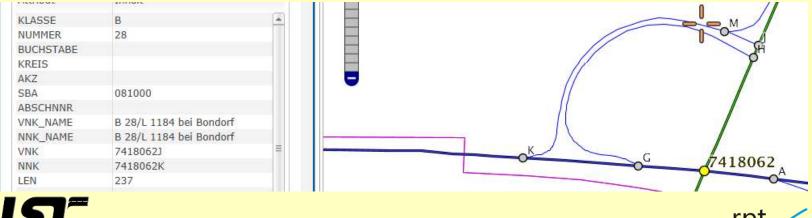


treifen (RP T, Abt. 9, LST)



Map Matching OSM / Official classified roads network

- All road works are matched to routable OSM network
- Purpose: detect conflicts between road works of different parties
- Preliminary map matching of classified highlighted data issues (mainly in official data)

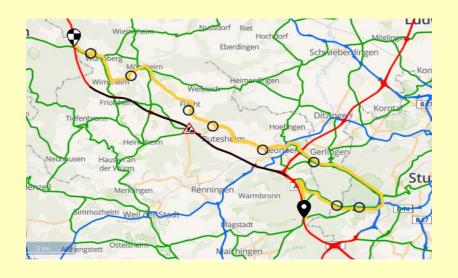




Diversion planning via OSM



- BIS2.0 uses OSM network to easily capture planned diversion
- Advantage: routable, unclassified roads
- Diversions will be published via DATEX2 as OpenData
- OSM detour routes still to be improved
- LST publishes official route description as open data





OpenData: Detour routes



Straßenverkehrszentrale Baden-Württemberg



English França

→ sucher

STRASSENVERKEHRSZENTRALE BW		Sie sind hier: Straßenverkehrszentrale BW > Die Straßenverkehrszentrale > Veröffentlichungen > Bedarfsumleitungen	- mi
	Verkehrslage		
-	Verkehrsbeeinflussungsanlagen	Bedarfsumleitungen	-
-	Verkehrszählung	Bedarfsumleitungen sind dauerhaft mit blauen U-Schildern ausgeschilderte Umleitungsstrecken, die einen	- ALL
	Die Straßenverkehrszentrale	Autobahnabschnitt zwischen zwei Anschlussstellen umfahren.	/
	Veröffentlichungen	Die Landesstelle für Straßentechnik veröffentlicht eine Beschreibung des Verlaufs der Bedarfsumleitungsstrecken in Form einer Excel-Liste unter der Datenlizenz Deutschland - Zero - Version 2.0 (dl-de/zero-2-0).	
	Bedarfsumleitungen		SUCHE
	Parken und Mitfahren-Plätze	Bedarfsumleitungen Baden-Württemberg, Stand 30.10.2018	Suchbe
h	Kontakt und Anfahrt		E Erwe
	Арр	Rückfragen und eventuelle Hinweise richten Sie bitte mit dem Betreff "Bedarfsumleitungen" an abteilung9@rpt.bwl.de.	



eariff

Detour routes are published as OpenData (de-dl/zero-2-0): https://www.svz-bw.de/bedarfsumleitungen.html Further datasets: Park&Pool parkings, more to come...





Thank you!

For your intererest, your attention, and before all: all your efforts in creating and maintaining OpenStreetMap.

We are looking forward to working with you!



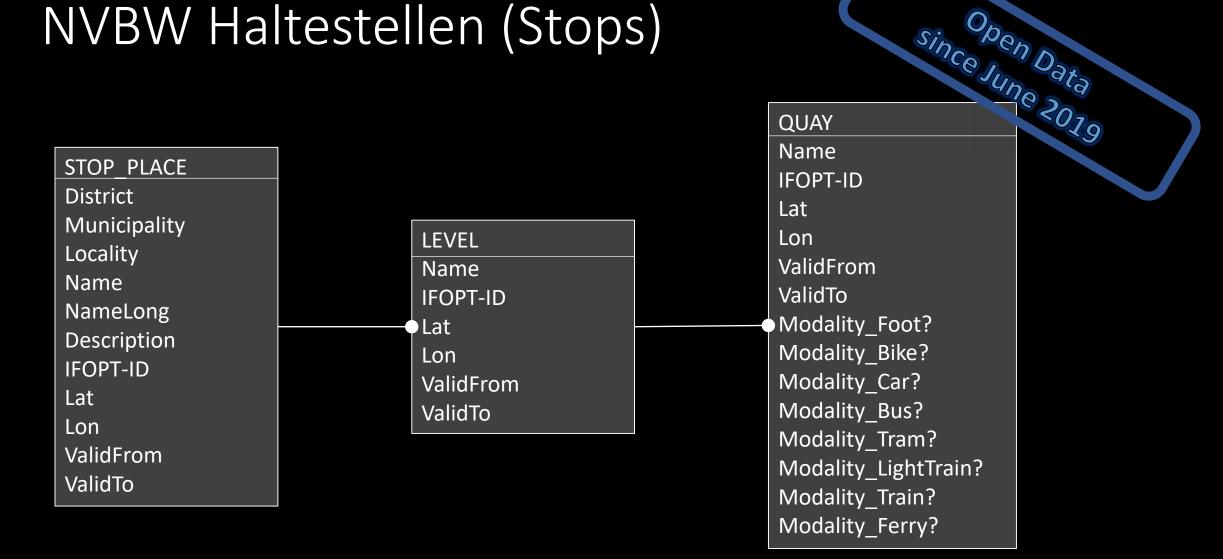


Public transport stops

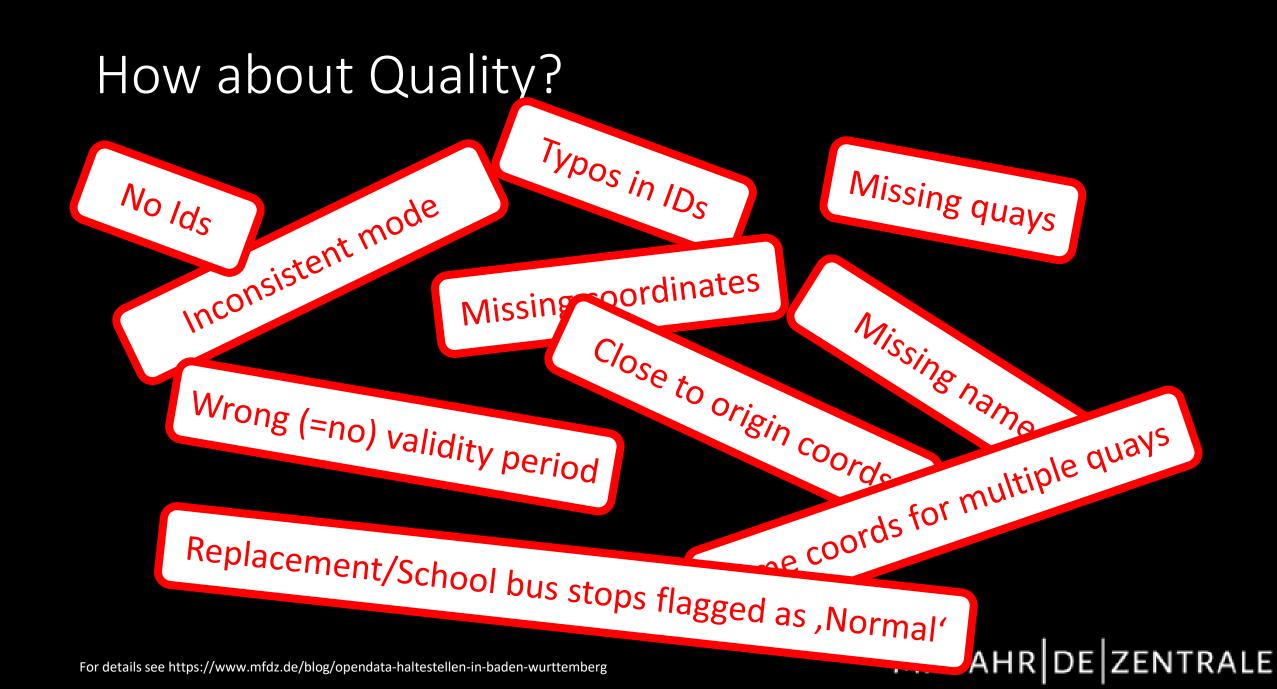
Official (BW) data vs OSM

Holger Bruch, 21.09.2019

NVBW Haltestellen (Stops)



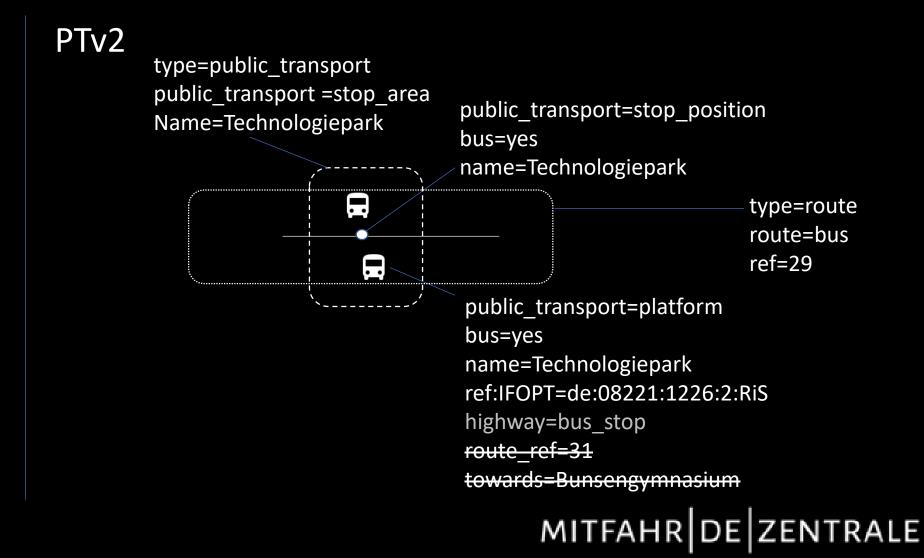
IFOPT: Identification of Fixed Objects in Public Transport



OpenStreetMap: PTv1 vs PTv2

highway=bus_stop name=Technologiepark route_ref=31 towards=Bunsengymnasium

PTv1



Some stop mapping "varieties"

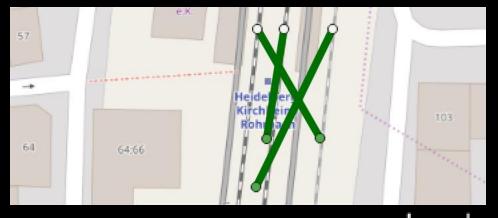


Matching OSM and official stops: What?

- For buses the waiting area
 - highway=bus_stop (or, if no bus_stop: public_transport=platform, bus=yes)



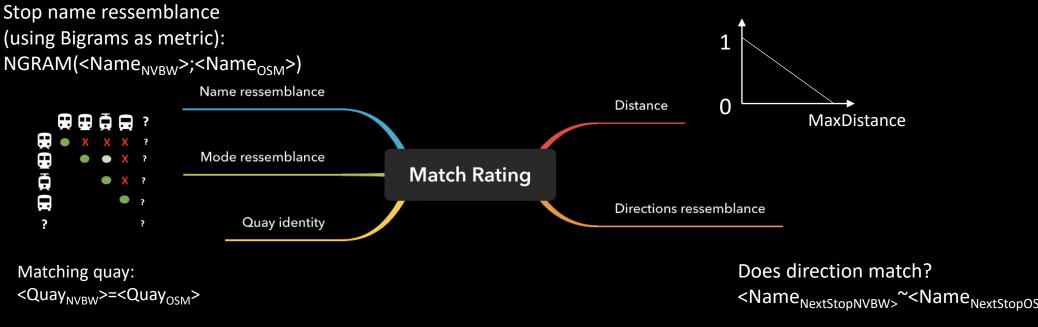
- For rail/tram/light_rail:
 - Public_transport=stop_position (or, if not available: halt or station)



Matching OSM and official stops: How?



Matching OSM and official stops: How?



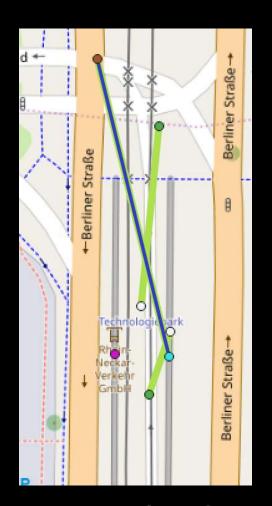
Quay_{OSM} is extracted from local ref (or name) and Quay_{NVBW} is extracted from IFOPT: country_code:admin_area:stop_place:level:quay

<Name_{NextStopNVBW>}~<Name_{NextStopOSM}>

<Name_{NextStopNVBW>}~!~<Name_{NextStopOSM}>

Matching issues

• Matching is sensitive to incomplete tagging

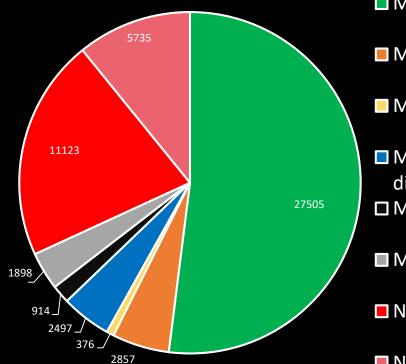


Matching issues

- Matching is sensitive to incomplete tagging
- Matching correct side of street oftens depend (often unavailable) stop sequences



Overall Results



Matched

Matched quais to stop_area

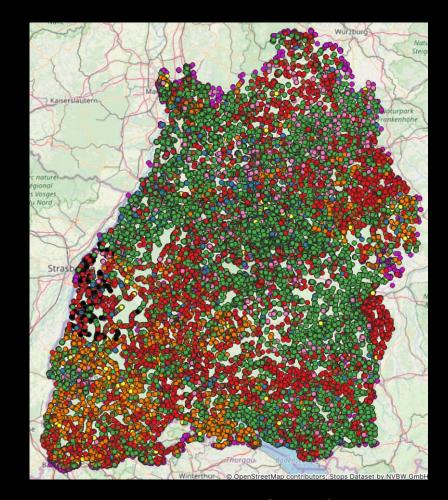
Matched though distant

 Matched though name differences
Matched though no offical name

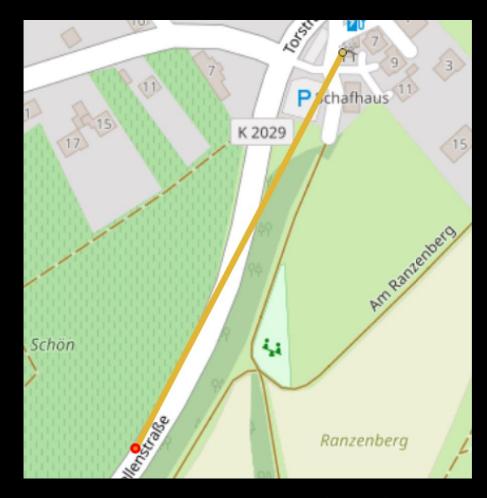
Matched though no osm name

Not matched (no single quay)

Not matched (but other quay)



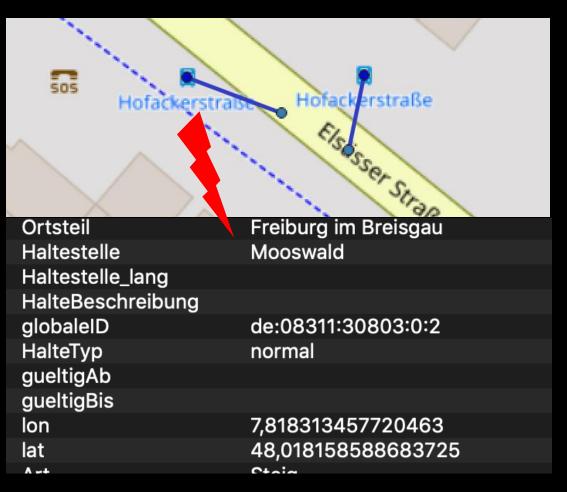
• Authoritative locations are often inaccurate



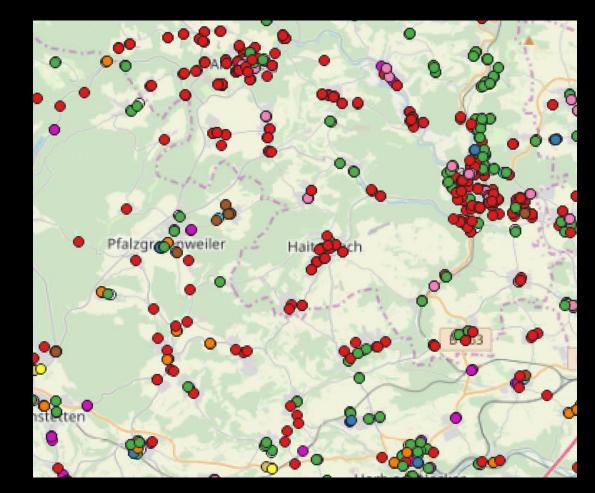
- Authoritative locations are often inaccurate
- Authoritative data might have inaccurate validity information



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- Authoritative data might have inaccurate validity information
- Authoritative stop names may be outdated



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- Some areas of BW not yet well covered in OSM



- Authoritative locations are often inaccurate
- Authoritative data might have inaccurate validity information
- Authoritative stop names may be outdated
- Some areas of BW not yet well covered in OSM
- OSM-Tagging for stops is heterogenous



Ideas for next steps...

- Publish match results as map
- Integrate GTFS as stops source
- Publish issues (Osmoscope? Maproulette?)
- Provide additional MapCSS/Osmose rules
- Request German Stop Database (DELFI) as OpenData and repeat...
- Code: https://github.com/mfdz/nvbw-osm-stop-comparison

OpenTrailView 360

Nick Whitelegg School of Media Arts and Technology Solent University

OpenTrailView 360

- "StreetView for paths and trails"
 - https://opentrailview.org
- 100% Free and open source
 - https://gitlab.com/nickw1/opentrailview/
- Panoramas auto-connected using underlying OpenStreetMap data
- Uses:
 - GeoJSON Path Finder https://github.com/perliedman/geojson-path-finder
 - Pannellum https://pannellum.org

Contribute

- Photo Spheres (Google Camera)
 - c.40 shots needed, autostitched to 360 pano so time consuming
 - High-resolution, some stitching errors but big improvement compared to c.5 years ago
- 360 cameras (e.g. Ricoh Theta)
 - Quick
 - Quality can be poorer, photo shooter appears in panorama

Thanks!

- Questions?
- Contact:
 - nickw4426@gmail.com, @hikar_AR