Open Historical Map: re-using obsolete information

or, the world's most outdated map

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State of the Map: Birmingham 2013

Presentation Outline

- Introduction Why OHM?
- 2 Use cases
- 3 Data Feeds to it
- **4** Conclusion

Introduction

- Born from many competing ideas about historical mapping.
- Using its own database, as opposed to OpenSeaMap.
- OHM prefix for tag namespaces (ohm:military:wireObstacle).
- Slightly modified toolchain.
- Primary interested in things that aren't there anymore, or that have a historical value.



Initial Drivers

- Born from many competing ideas and projects dealing with historical mapping.
- Academic, government and hobby projects generate GIS data that needs a home.
- "Users" tend to be institutional / research employees that don't want to hand edit things but provide data dumps.

OHM vs. OSM

- Data comes from scripted processes if you break it, you fix it.
- Aggressive use of start_date, end_date and historic:eraboth as a search key and rendering hint.

Use cases

- Primary use as repository of historical GIS information.
- Recycling all of those edits that ended up deleted (or have date_end) from OSM.
- Useful as secondary layers what was here before?.
- Search for lost features, places and things.
- An obvious "Killer App" is safety during excavation.



Forgotten infrastructure can be deadly



Source: http://myblog.it/

What was here before?!





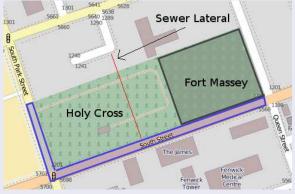
Punctured pipeline was unmapped

A natural gas leak that forced more than 40 people from their homes along the Burnaby-Coquitlam border occurred when a road crew struck an old service pipeline not on FortisBC's map, a spokeswoman for the energy company said Wednesday.

BY VANCOUVER SUN FEBRUARY 9, 2012

Corpses need mapping too!





http://www.openstreetmap.org/#map=17/44.63910/-63.57568

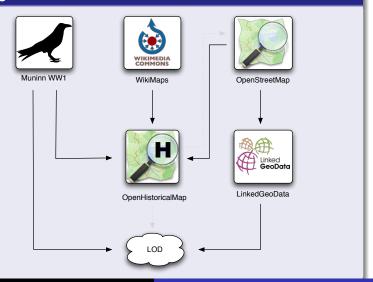
London Crossrail Dig Sites



http://www.crossrail.co.uk/sustainability/archaeology/

case-study-archaeology-at-crossrail-liverpool-street-site

Process



Great War Trenches Overlays



Moeuvres, France

http://www.openhistoricalmap.org/?lat=50.16668&lon=3.053815&zoom=16&layers=H

Great War Artillery Locations



Inchy-En-Artois, France

http://www.openhistoricalmap.org/?lat=50.17405&lon=3.05191&zoom=16&layers=H

Wikimaps 1/3

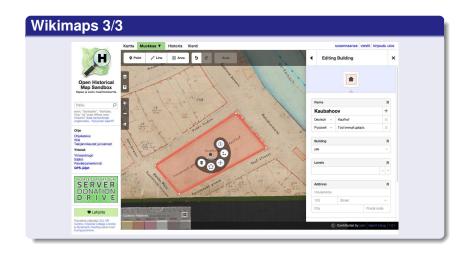


- Record mapping meta-data in Commons.
- Extract data from maps images already available.

Wikimaps 2/3



- Warp / Re-project the Map.
- Available as a web service.
- Acts like a WMS and OSM xyz tile server.



Rendering with OHM

- Trying to get rendering of the map is ... annoying. Fighting with the renderd codebase while trying to make sense of multiple ways of seeing time. (How do we transform "The 1860's" into a date query?)
- Attempting to use a simple rendering system based on start date and end date.
- Some rough starts We need help with rendering!

Links within and without OHM

- Experimenting with OHM:SameAs add a owl:sameAs to the LOD?
- Lessons from Time Ontology start_date:before and/or start_date:after?
- Link nodes in OHM imported from OSM using OHM:OSMOriginal?
- Linked Open Data has interesting applications to fuzzy information.
- before, after, during, partOf
- Very Experimental.
- Record whatever data we have now and let the renderer decide later...

Help wanted!

- Different rendering styles needed (NATO,Archaeological,Hazmat Map styles?).
- Historical applications abound let's use the data!
- OHM/OSM are great data integration points with other databases (wikipedia, LOD).



More Talking

- Open Historical Map mail-list: http: //lists.openstreetmap.org/listinfo/historic
- Open Historical Map irc: #hosm on irc.freenode.net
- github https://github.com/OpenHistoricalMap
- http://www.openhistoricalmap.org/