

Federal Agency for Cartography and Geodesy



## Standardized Quality Estimation of OSM Data

A presentation on the planned application, its examination methods and the challenges in adapting the methods

International Workshop on Spatial Data Quality Lena Jossek

### Can OSM data keep up with proprietary data?

#### Zielstra & Zipf, 2010:

"A Comparative Study of Proprietary Geodata and Volunteered Geographic Information for Germany"





### Example: global inspection of the completeness of the building stock





#### Overview







#### Standardized quality features



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#### Overview workflow of planned application





#### Temporal accuracy: intrinsic examination method







#### Completeness: intrinsic examination method







#### Accuracy of examination method "Mapping Saturation"





#### Accuracy of examination method "Mapping Saturation"





#### Accuracy of examination method "Mapping Saturation"





#### Insights into current status of the application

OSM History Analyzer DASHBOARD Easy access to OSM Histor	ory and Quality Analyses HeiGI
Lill OSM History Stats So OSM Quality Analyses	Area of interest
<b>Т</b> оріс	
Building Count 🔹	
All buildings as defined by all objects tagged with 'building="'. ohsome filter definition of the topic:	
<pre>building=* and building!=no and geometry:polygon</pre>	
Quality Indicators	
Mapping Saturation Calculate if mapping has saturated. High saturation has been reached if the growth of the fitted curve is minimal.	
Currentness	<b>3</b>
Currentness Estimate currentness of features by classifying contributions based on topic specific temporal thresholds into three groups: up-to-date, in-between and out-of- date.	Leaflet   © OpenStreetMap contributors, Downloaded from OSM Boundaries Ma Selected areas

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# Thank you for your kind attention!

Bundesamt für Kartographie und Geodäsie Organisationseinheit Richard-Strauss-Allee 11 60598 Frankfurt am Main

Lena Jossek lena.jossek@bkg.bund.de www.bkg.bund.de Tel. +49 69 6333 – 3937