



INSTITUT NATIONAL
DE L'INFORMATION
GÉOGRAPHIQUE
ET FORESTIÈRE

QUALITY AND CREDIBILITY OF VGI



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VGI 2012 Workshop

PANEL QUESTIONS

- How do you think national mapping agencies (NMAs) like Geomatics Canada changed the way they perceive VGI data and their usefulness?
- What are the main technical and organizational challenges faced by NMAs to make a better integration of VGI and authoritative data happen?
- Should VGI systems map space or places?

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 - Quality and specifications very heterogeneous, so far from NMA standards
 - Make NMA data freely accessible is the current trend
 - Use VGI data to:
 - Guide and speed up the update processes (e.g. automatic change detection)
 - Enrich their data with large scale data extracted from VGI

PANEL QUESTIONS

- What are the main technical and organizational challenges faced by NMAs to make a better integration of VGI and authoritative data happen?
 - NMA-centered integration platform
 - Make contribution interesting (e.g. provide conflation services)?
 - Build ontologies and tools to help using the complex specifications of NMAs (Brando et al 2011)?
 - Automatic correction tools to maintain good quality (e.g. geometric conflation or spatial relation checking)?

PANEL QUESTIONS

- What are the main technical and organizational challenges faced by NMAs to make a better integration of VGI and authoritative data happen?
 - Use the existing VGI projects (like Geomatics Canada)
 - Develop mechanisms to identify trustworthy/incomptent contributors?
 - Develop automatic matching/conflation tools?
 - Automatic correction tools to maintain good quality (e.g. geometric conflation or spatial relation checking)?
 - Adopt RDF data models to benefit from VGI richness?
 - Develop data mining tools to use linked data?

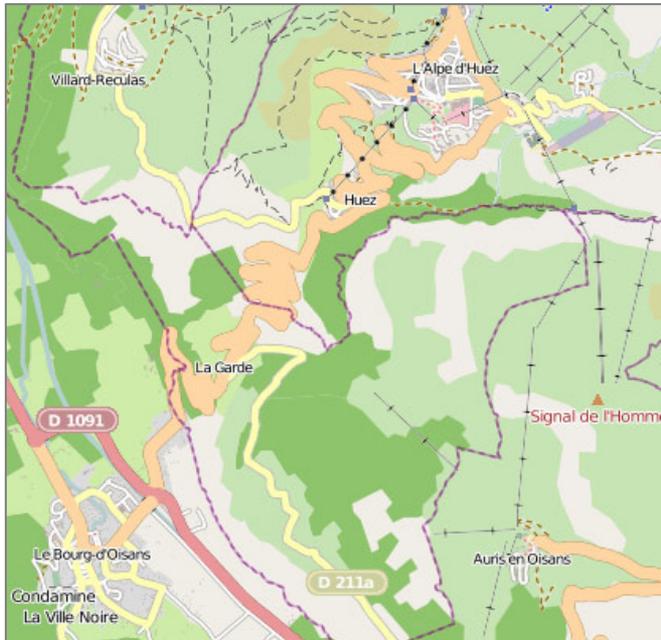
PANEL QUESTIONS

- Should VGI systems map space or places?
 - Assets of VGI to map space:
 - Progress in the precision of standard positioning devices
 - That's what most contributors are interested in (see the success of OpenStreetMap)
 - Easier to capture on aerial photographs (roads, buildings, rivers, forests are easily identified)
 - Drawbacks of VGI to map space:
 - Mapping space requires quality and homogeneity

- Should VGI systems map space or places?
 - Assets of VGI to map places:
 - Linked data techniques are powerful to extract information from VGI
 - Consensus due to Wiki-like moderation of multiple contributions favors places mapping
 - Drawbacks of VGI to map places:
 - Does it interest VGI contributors? (weakness of attribute tags in OSM (Girres & Touya 2010))
 - As many opinion on places as contributors
 - Is it always possible to match OSM, FlickrR, Wikipedia etc. ?

ADDITIONAL QUESTION

- What is the Level of Detail of OSM?



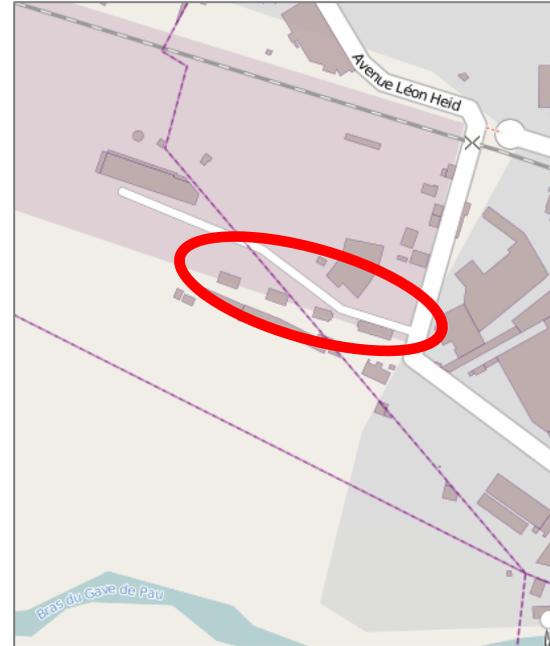
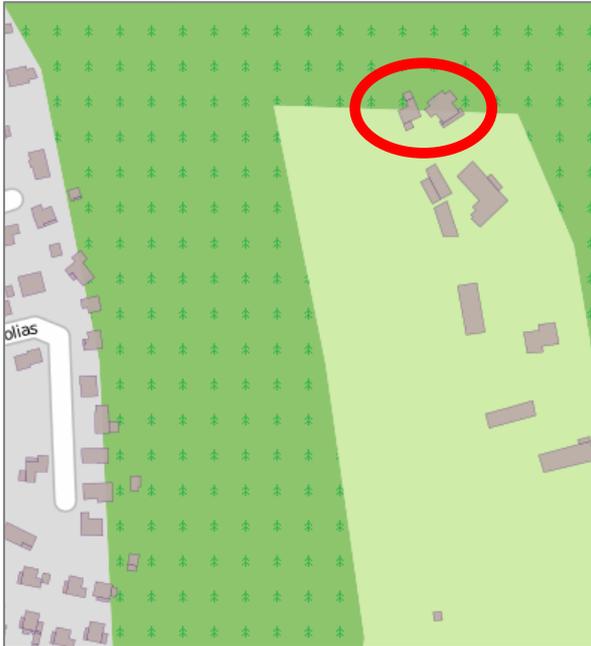
Small scale map



Large scale map

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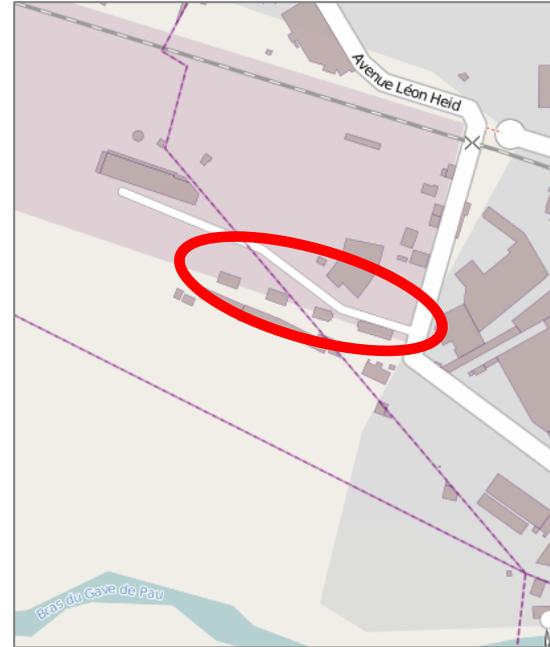
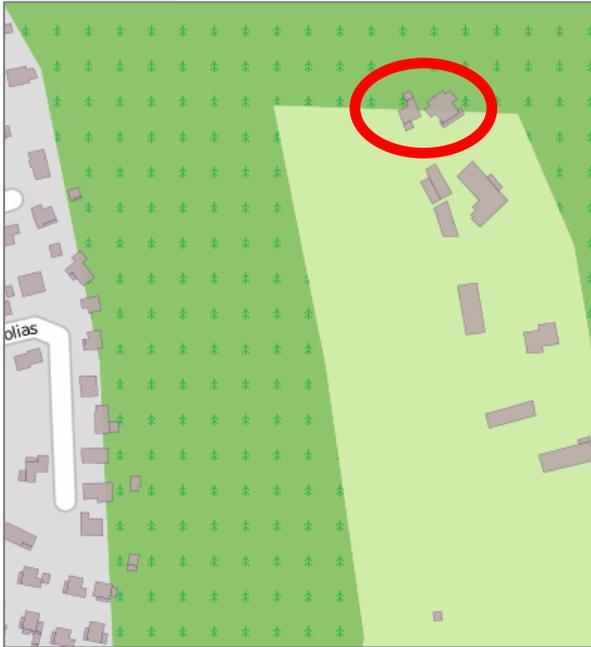
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Re-homogenize OSM data to produce legible maps?