CROWD-SOURCED METADATA FOR CROWD SOURCED GEOSPATIAL DATA
Mohsen Kalantari
The University of Melbourne
SETTING THE SCENE
VGI issues

- One is inconsistency because of the range of volunteers and the different methods they use for creating data.

- Second is the lack of efficient specifications by which volunteers can create reliable information.
CREATING METADATA FOR METADATA

- By experts
  - High quality, expensive and time consuming
  - Based on standards
  - Difficult to sustain the metadata record for a massive quantity of VGI

- By authors
  - Volunteers who create data can also create metadata for what they have added or updated in the open maps
METADATA IN OSM
A FUNDAMENTAL ISSUE

- Users of the VGI are not involved in the process
- Ability of users to contribute towards the VGI, without subscribing to the system and becoming a registered volunteer.
Why crowd sourcing VGI metadata

- VGI, a disordered system
- VGI, large and ever-growing
- VGI, a system with an unconventional authority
SPATIAL METADATA AUTOMATION

- Add-on 1 - suggestion list

Brief: offers suggestions based on terms searched by previous users.
SPATIAL METADATA AUTOMATION

- Add-on 2 - tag cloud

**Brief:** records search terms, interactions and tags from user and presents a cloud of keywords, where the popularity (frequency) of a keyword is represented by its size.
**SPATIAL METADATA AUTOMATION**

- **Add-on 3 - agree / disagree**

  Brief: allows users to vote up (agree) or down (disagree) keywords that have been used by other users to describe a particular dataset.

  Also allows them to participate voluntarily in the tagging process.
CROWD SOURCING METADATA
CROWD SOURCING METADATA
CROWD SOURCING METADATA
DISCUSSION

- Ontological structures
- Monitoring the behaviour they exhibit
- Restricted to what users can find
- Not for fitness for purpose
- Unsupervised users
- Ambiguous
CONCLUSION

- On the same incremental basis that authors of VGI create it, users of VGI can provide descriptions for it.