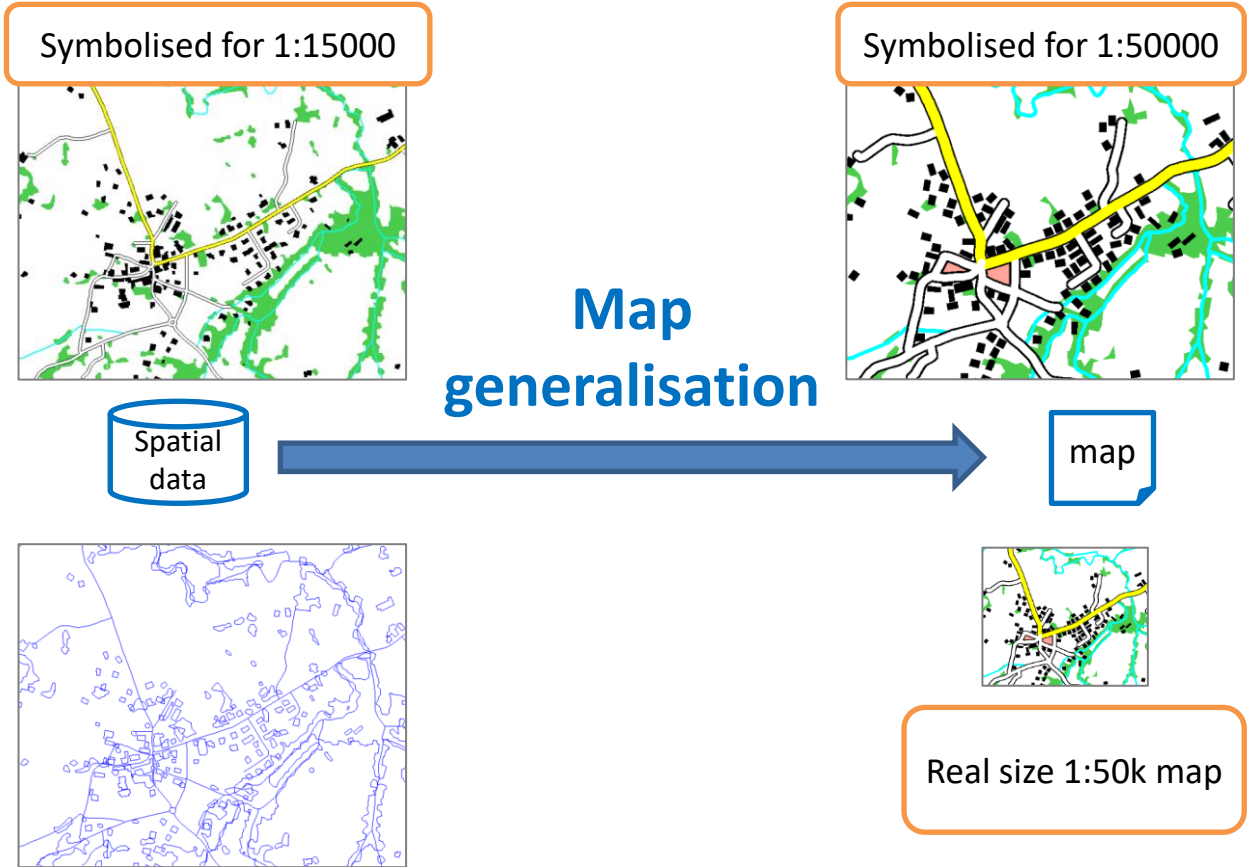
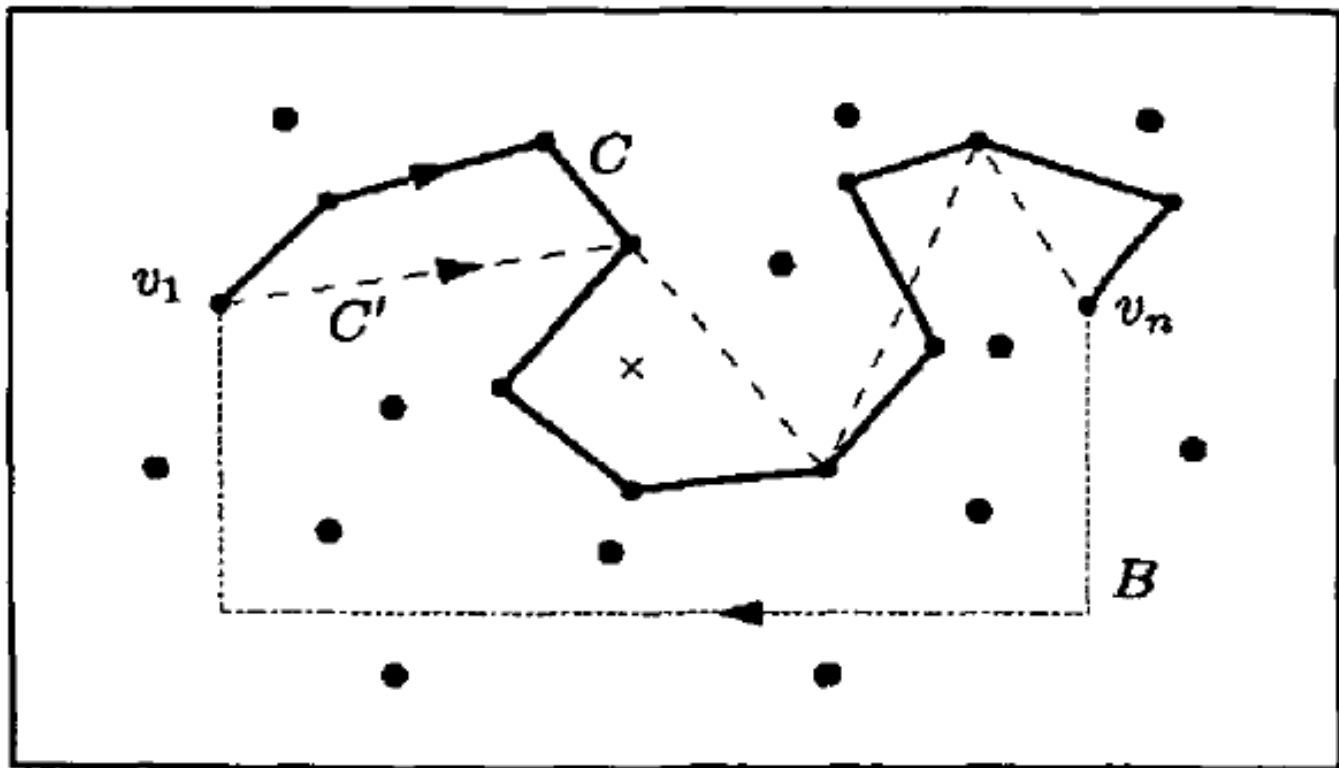


Is Map Generalisation a Computational Cartography Problem?

Guillaume Touya, IGN, Univ Gustave Eiffel

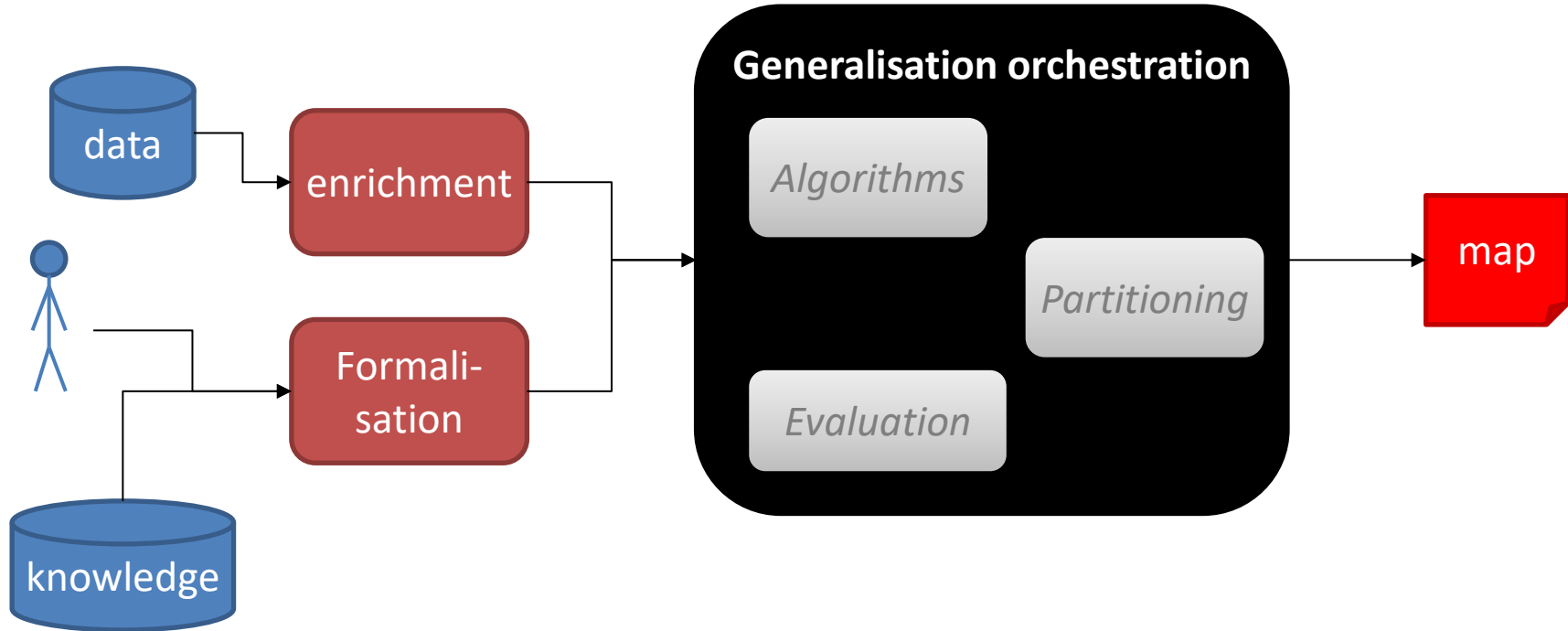




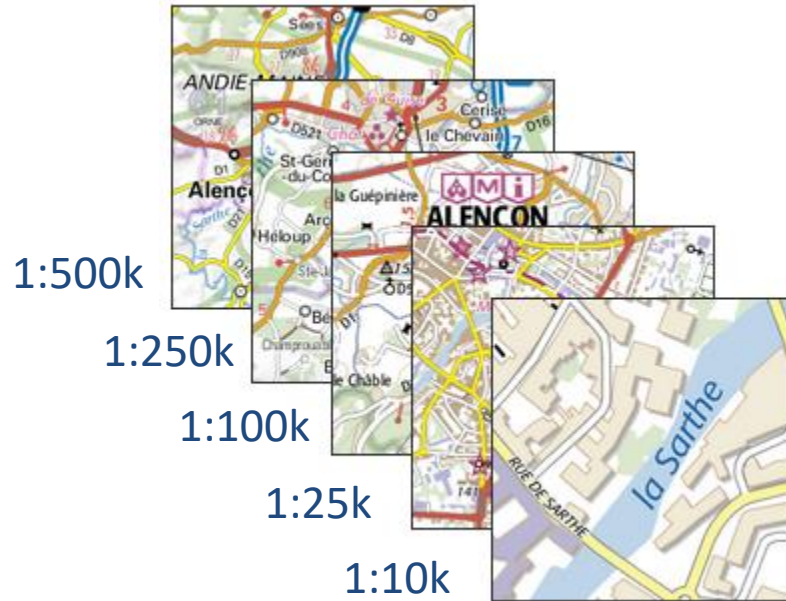


[de Berg et al. 1998]

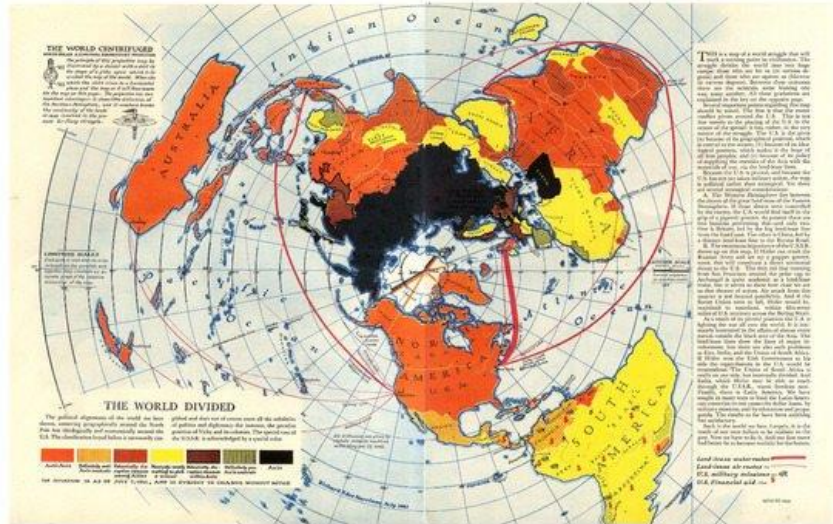
Automated map generalisation



Multi-scale zoomable maps

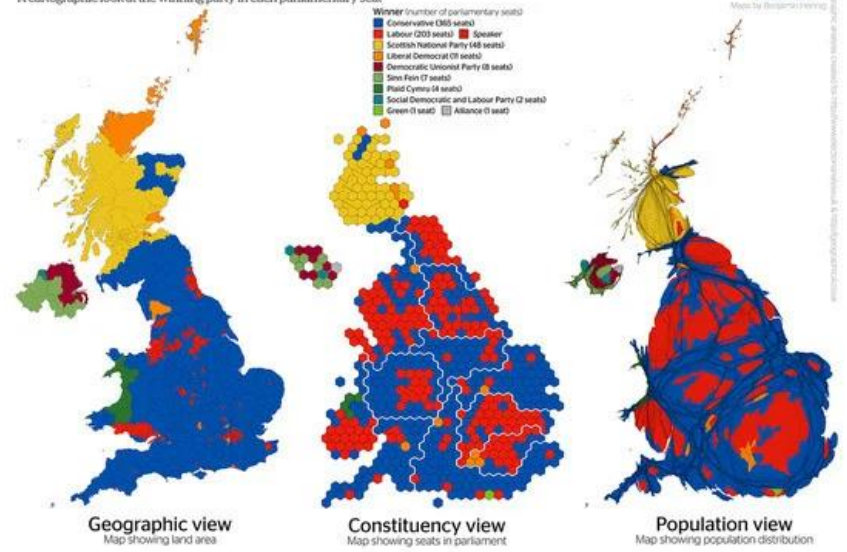


Thematic maps

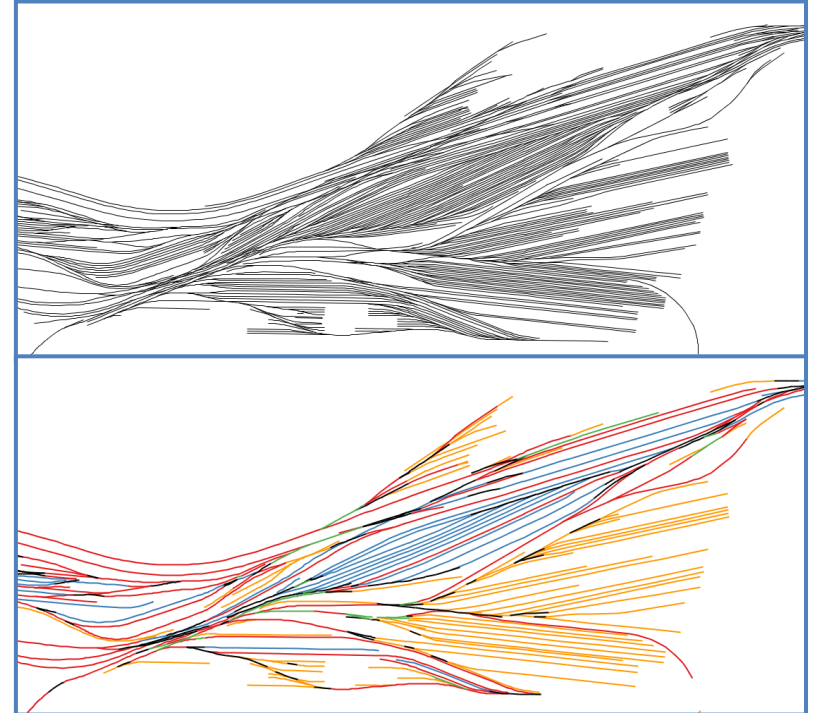
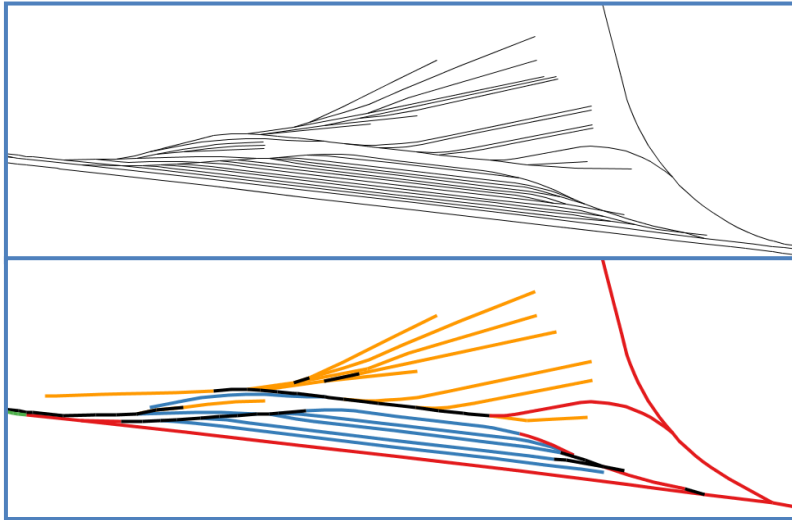


Mapping the 2019 General Election

A cartographic look at the winning party in each parliamentary seat



Data Enrichment



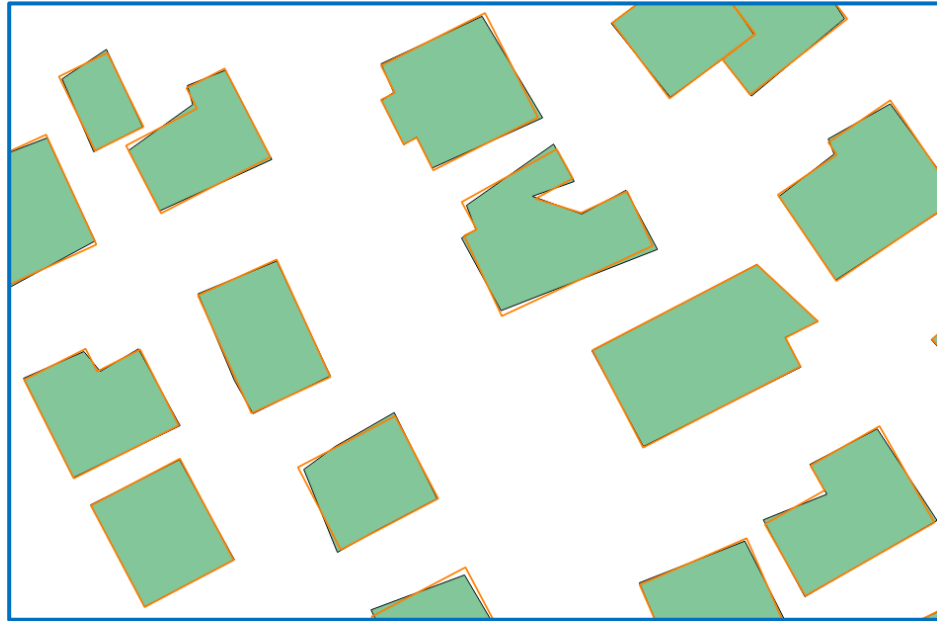
Generalisation algorithms



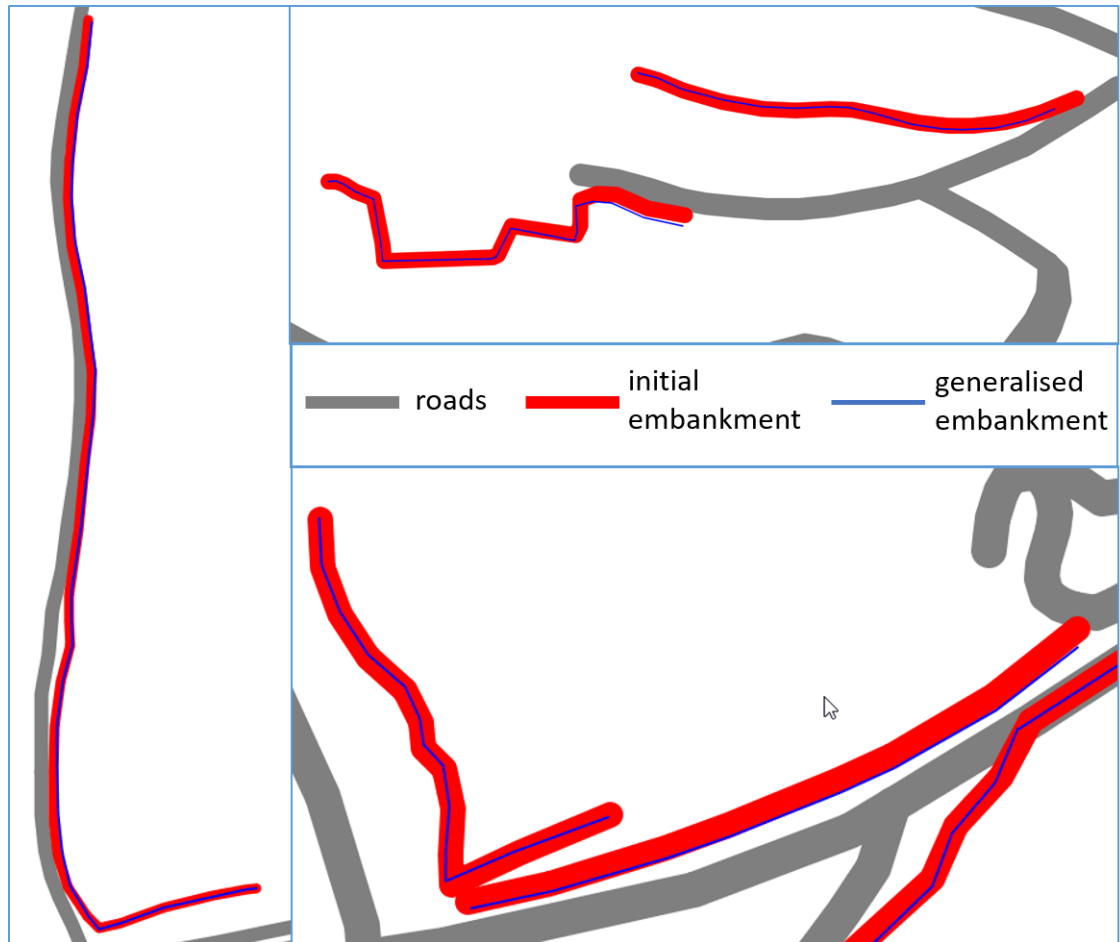
Generalisation algorithms



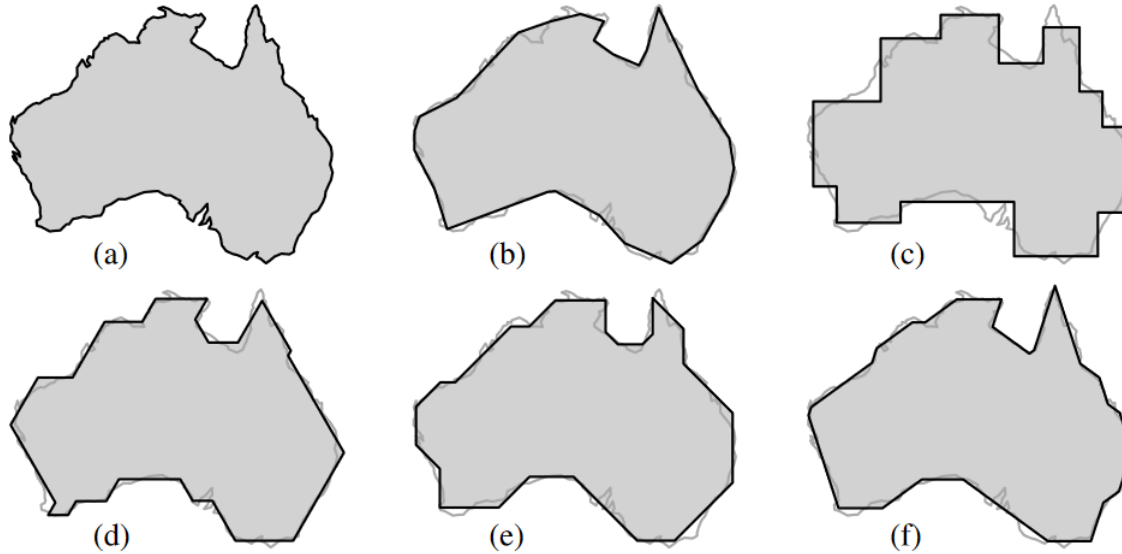
Generalisation algorithms



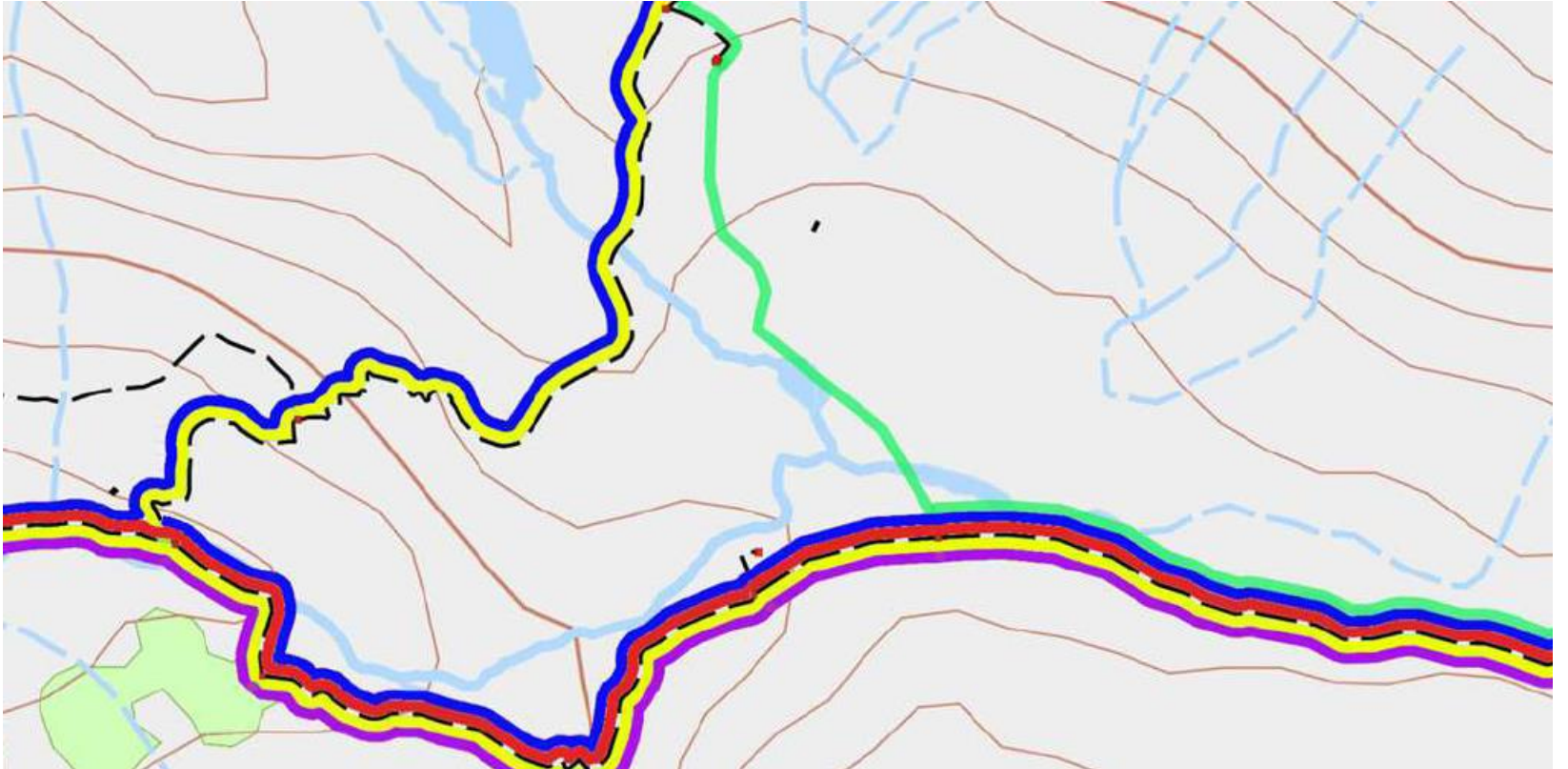
Generalisation algorithms

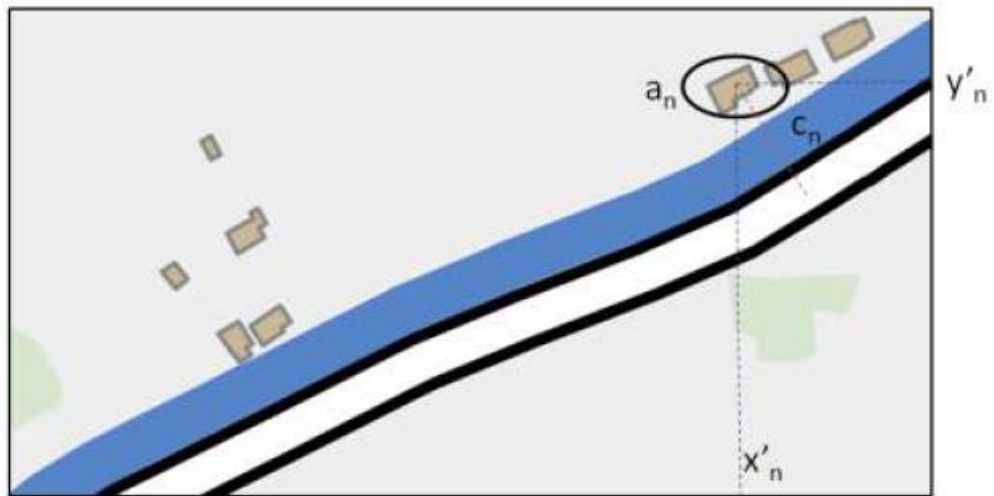
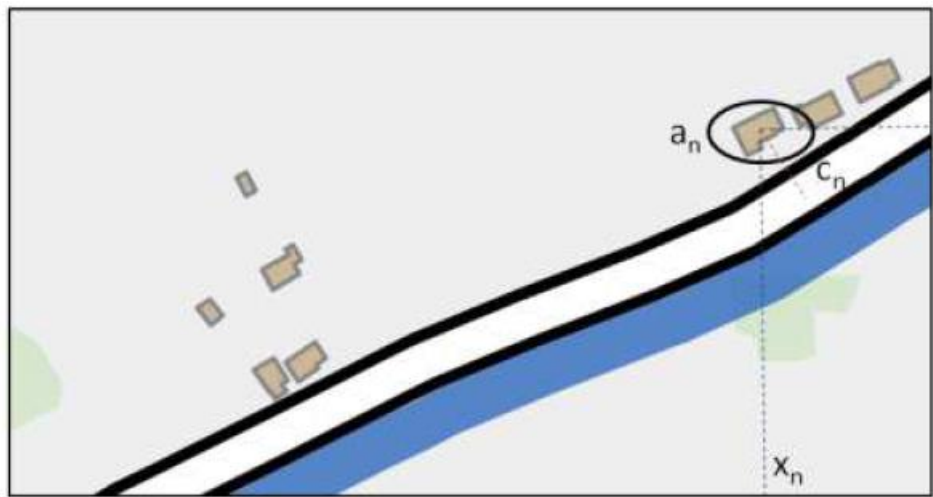


Schematisation vs generalisation

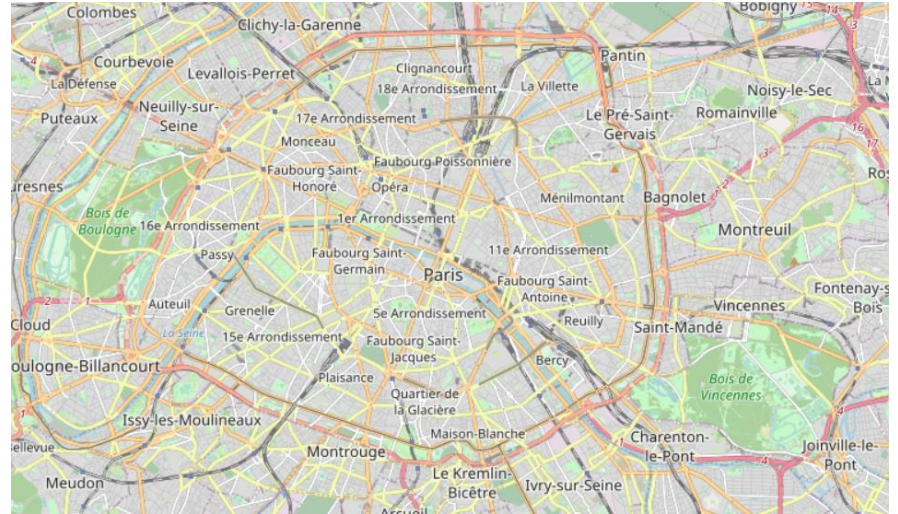
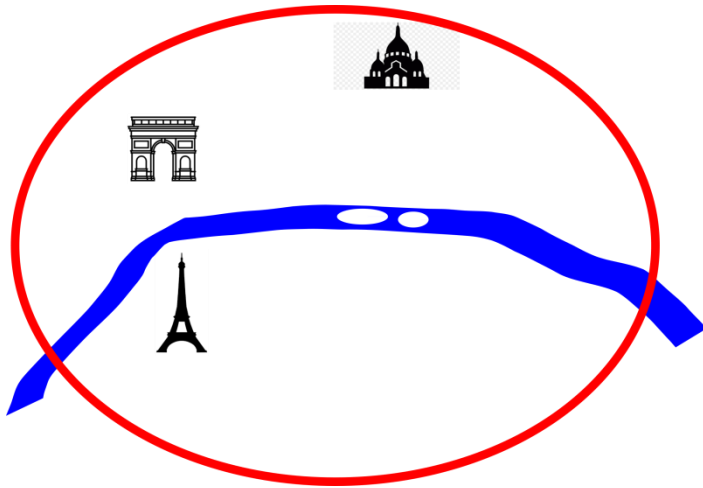


Topography/Schematization Mix

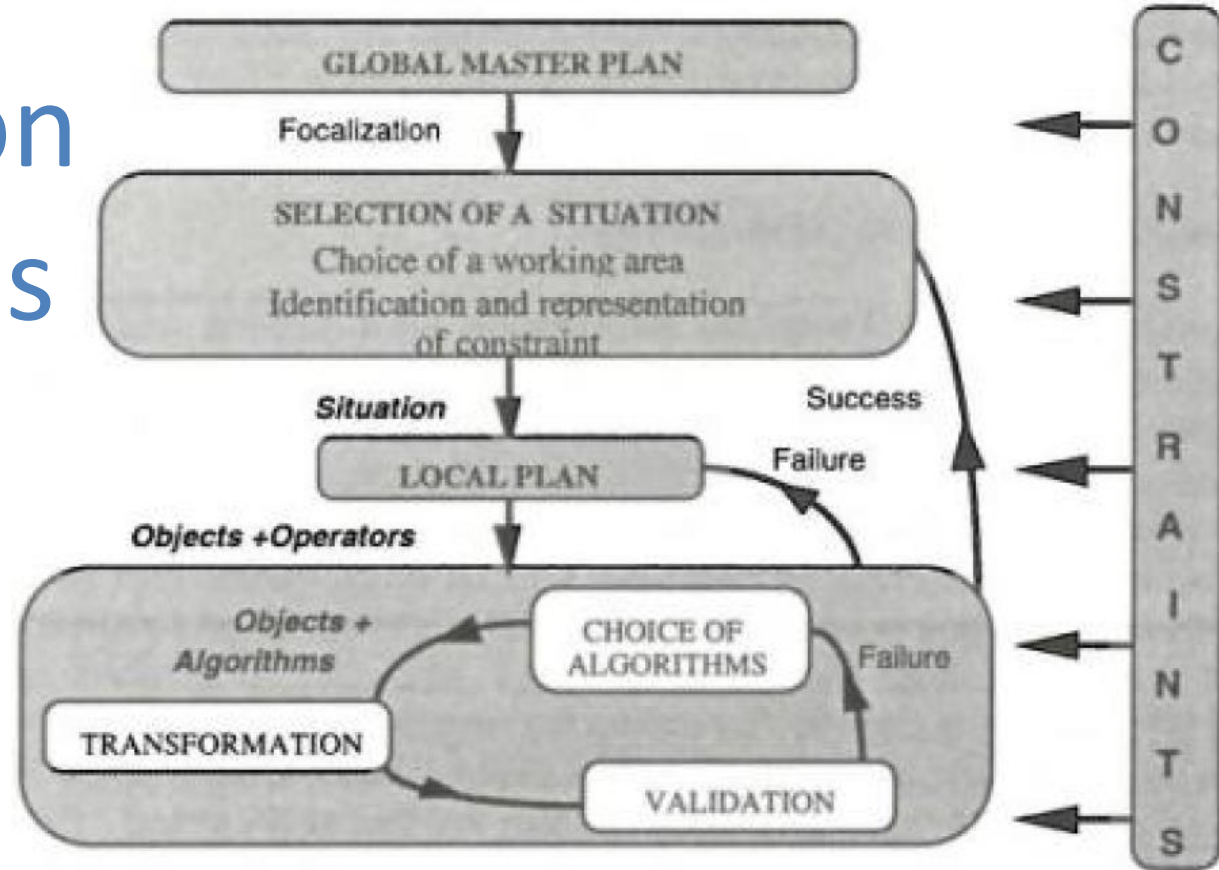




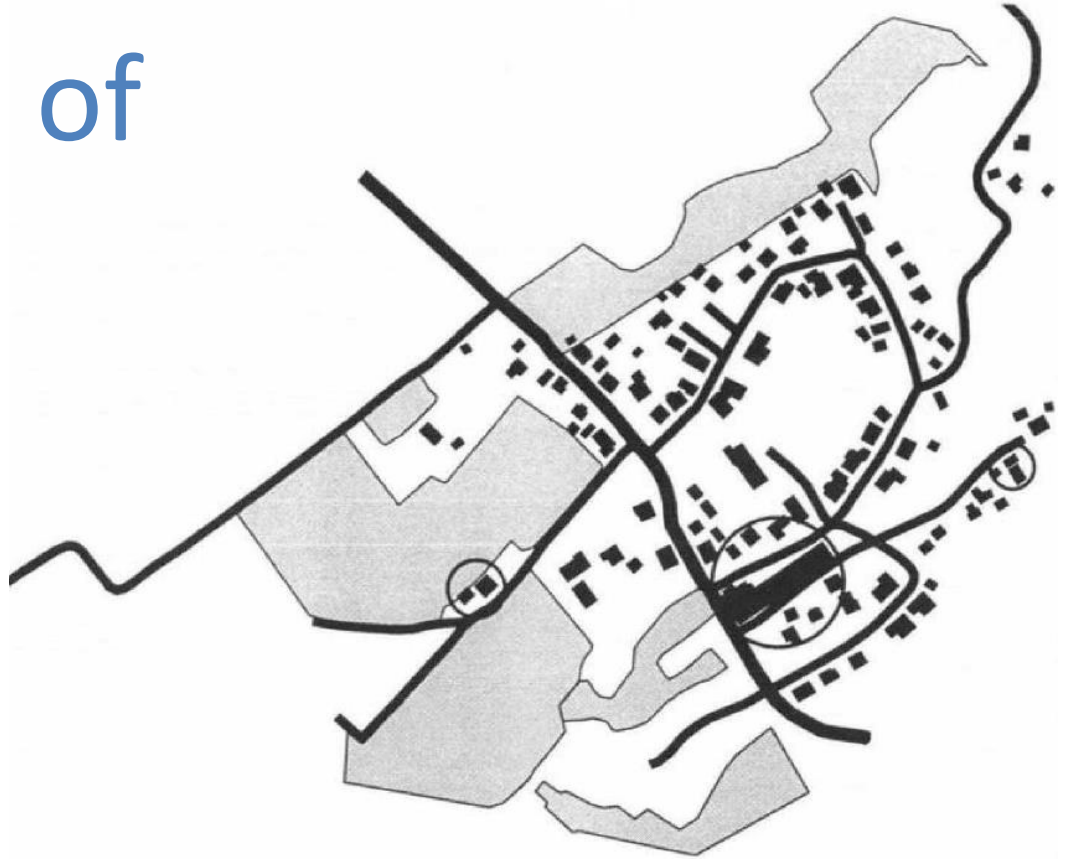
Naive cartography



Orchestration of algorithms

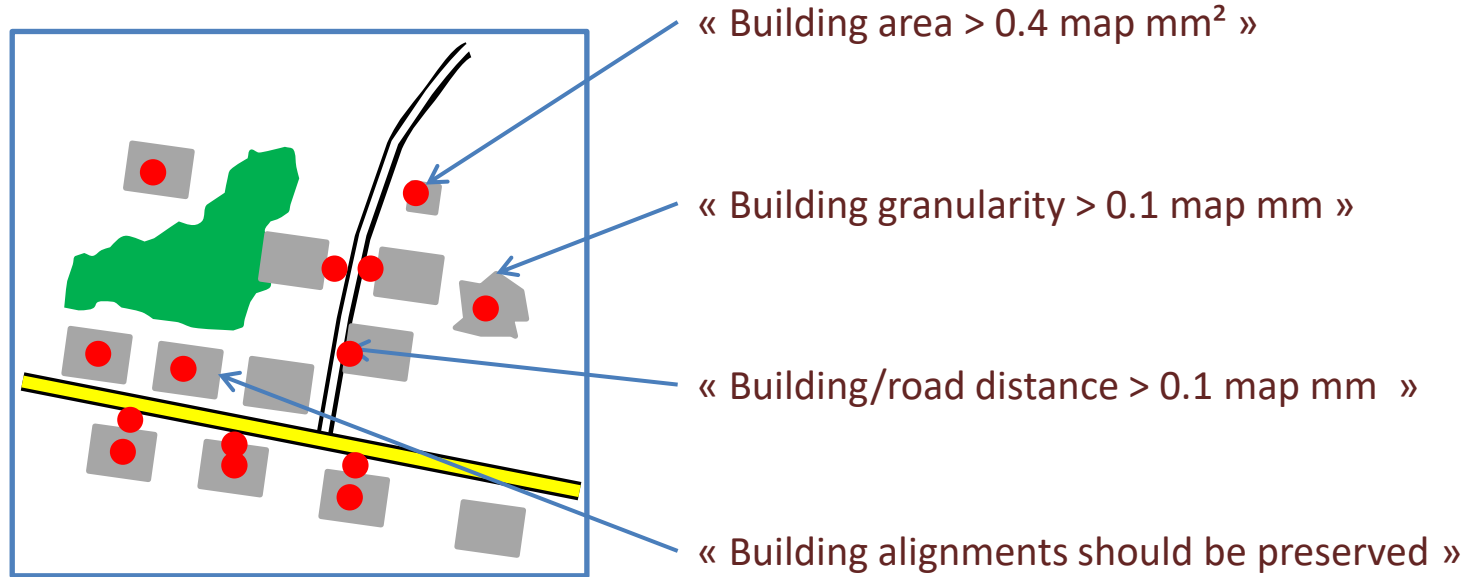


Orchestration of algorithms

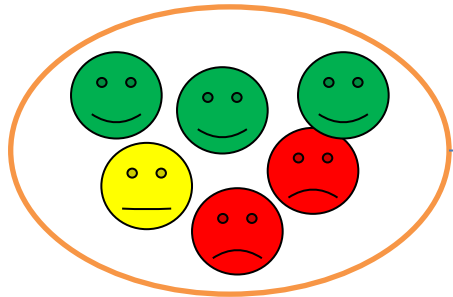
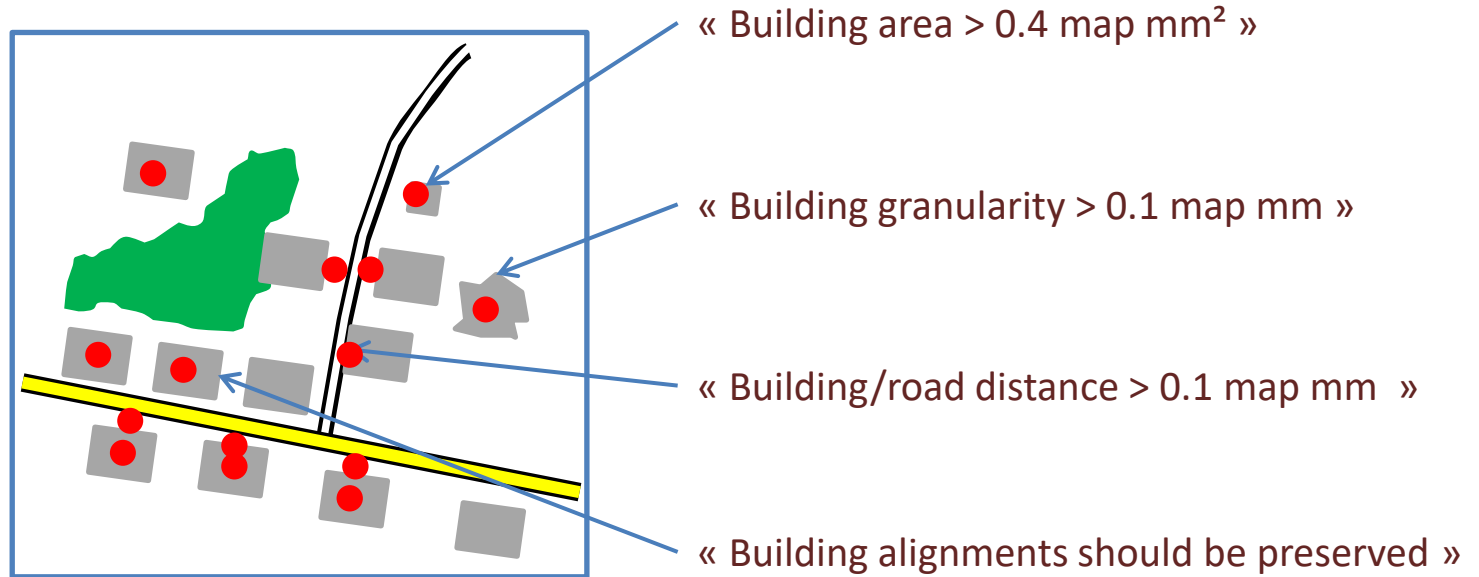


[Harrie 1999]

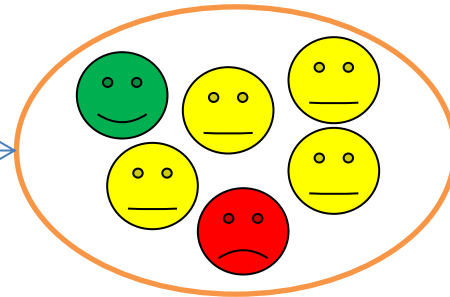
Generalisation evaluation



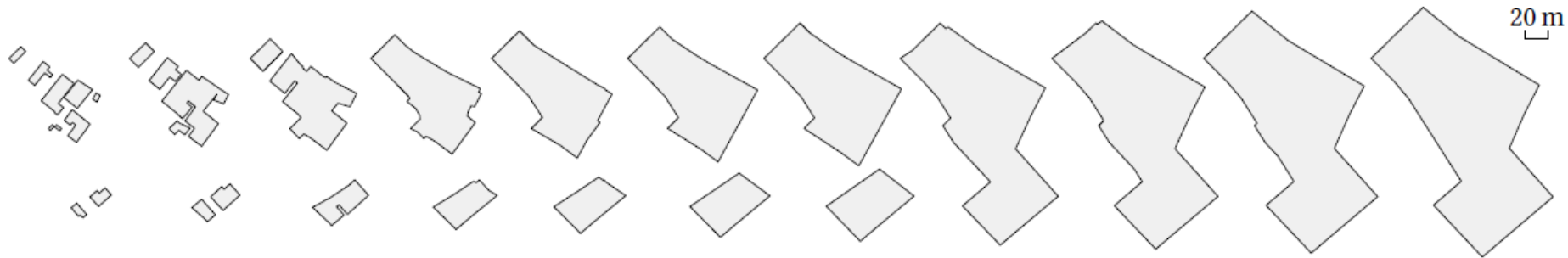
Generalisation evaluation



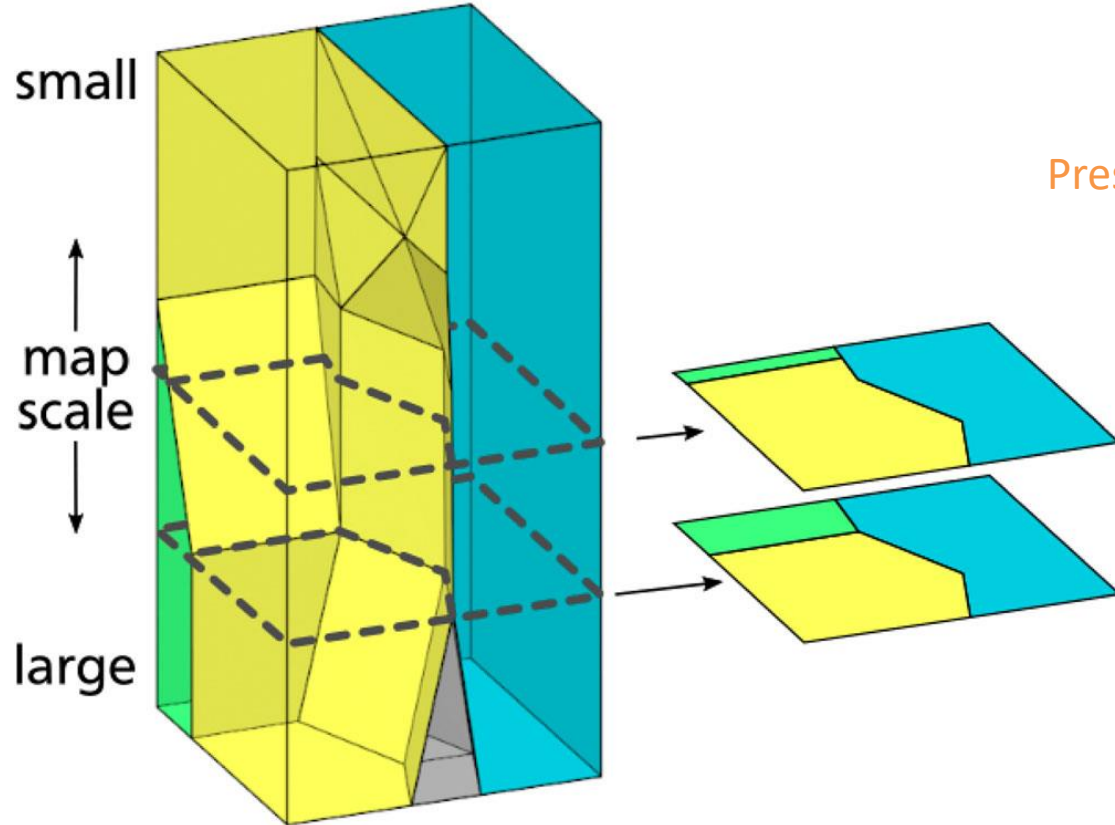
Better?



Continuous generalisation



Continuous generalisation



Presentation by Martijn Meijers

Multi-scale interactions



(a)

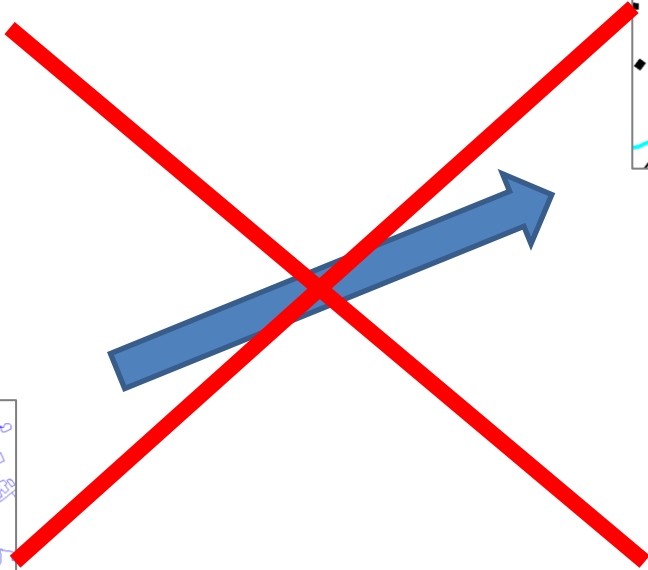


(b)

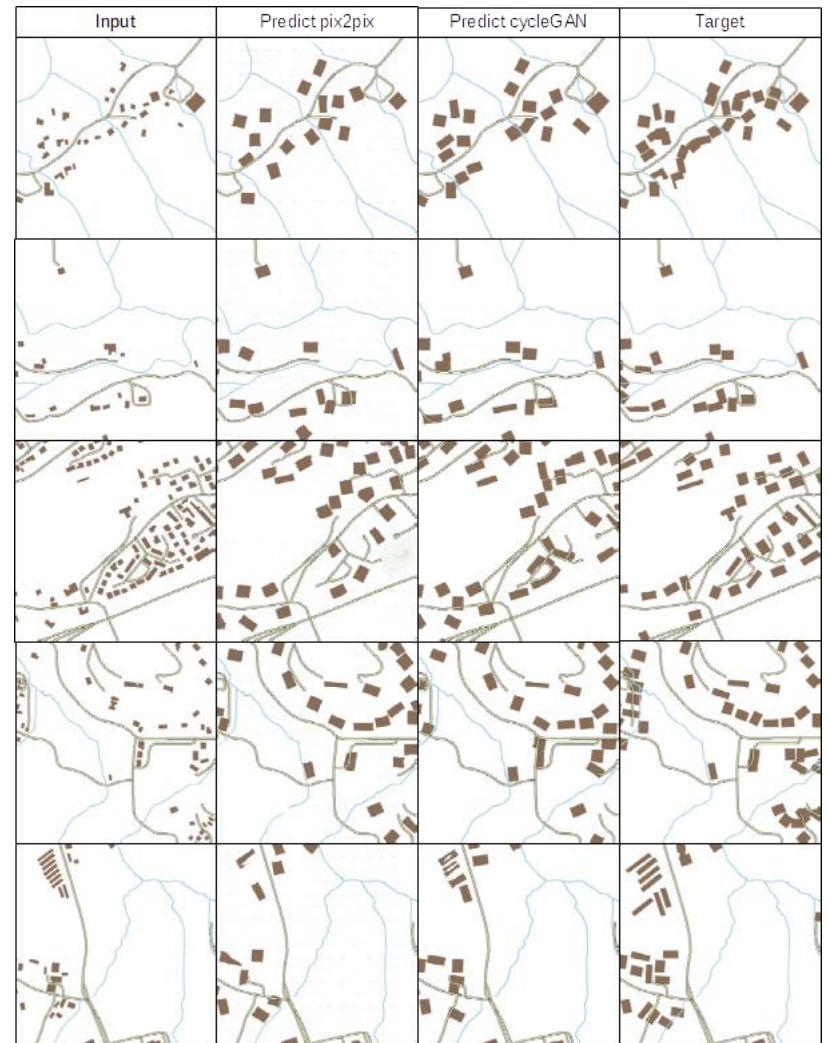


(c)

So, is map generalisation a
computational cartography
problem?



Computational cartography vs deep learning



[Courtial et al. 2021]

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Any question?