## **Dissertation Topic Suggestions 2020-2021- Duncan Smith**

**SIMETRI Projects**  
SIMETRI is a research project analysing the Greater Bay Area (Pearl River Delta) megacity region in China-  
https://jpi-urbaneurope.eu/project/simetri/   
Scope is spatial analysis of economy/housing/transport in the Greater Bay Area megacity region. I am particularly interested in projects analysing housing market changes and public transport accessibility changes in the Greater Bay Area, using common spatial analysis methods (network analysis, regression etc). The data situation in the GBA is incomplete, so the project likely requires combining a mix of different data sources.

**London Active Travel Themed Dissertation- Low Traffic Neighbourhoods / New Cycle Infrastructure**  
Lots of recent changes in these areas, with mixed success. Possible angles include network analysis to try and understand cycle lane usage; analysis of where Low Traffic Neighbourhoods have been introduced and where impacts of future LTNs could be greatest.

**London Air Quality Trends**  
Appear to be both positive and negative trends emerging from lockdown restrictions and new travel behaviours. 2021 will see more people return to work, and proposed extension of Ultra Low Emissions Zone. Dissertation would analyse archive data from AQICN network; and any additional data available from London Atmospheric Emissions Inventory to try and unpack complex changes in air quality as behaviour change and policy changes co-evolve.