**KRIHS Exchange Day 1 – KRIHS HQ, 08.06.2023**

**Ask Yohan and Youngmin for copy of the Exchange Seminar .pdf file, and for all photos taken across the week.**

***Session 1 – Analysis of Urban Spatial Structure [Jae Soen]***

Dani Arribas-Bel: Urban Grammar and Data-Driven Understanding of Form & Function.

Carmen Cabrera-Arnau: Inferring Urban Polycentricity from the Variability in Human Mobility Patterns.

Youngmin Lee: Analysis of Centres/Subcentres using Micro Geospatial Data in Andong Province, Korea.

* Getting subcentres within centres?
* Classifying these subcentres/centres based on the POIs within them?
* Grid cells of 1km x 1km - impact on exact boundaries of these agglomerations.
* Interactive mapping tools: how do KRIHS engage with this? Specialist teams?

Cillian Berragan: Mapping Cognitive Place Connectivity using Reddit.

* Biases of Reddit vs Twitter? Much written on who is/isn’t using Reddit?
* 500,000 unique users: are these UK based?
* Geotagging of tweets make it a lot easier to identify experiences that do not directly mention a place, but are shaped by it.
* Are high values of distance decay related in any way to areas where there are poorer geoparsing of Reddit comments?

***Session 2 - Analysis of Digital Footprint Data [Yohan Chang]***

Francisco Rowe: Too Old? Updating Survey Transport Mode Estimates using Mobile Phone Data.

Jae Soen Son: Towards Carbon-Neutral Smart Cities: A Carbon Spatial Mapping Approach

* It is not enough to strive to reduce GHG emissions, we have to think about where and how we can do that, targeting policies etc.

Gyoungjoo Lee: Using Relative Risk Index to Assess Vulnerability of local markets to COVID-19

* Validation of findings: can we verify against sales or footfall?
* How are you defining the local market? This will vary depending on the area of study, type of store etc. Are you controlling for the size of the local market in your vulnerability assessment?

Bogang Jeon: The Economic Resilience of a City

* Spatial scale?
* Amenity space: Hidalgo et al. (2020), paper on spatial clustering of shops to define regions.
* Relatedness is very interesting, what we found in the UK is that a high prevalence of well-known brands/anchors was key to resilience of these shop clusters.
* Research centre for small businesses
* The shapes of the clusters are strange, have you thought about integrating building footprints into these to ensure they capture full extent of areas – if not you might find that your relatedness measures are skewed?

Danial Owen: Sensing the City: Clustering Pedestrian Behaviour Changes in Melbourne, Post-First and Second Lockdown.