

PhD Research Topic

Title

Placemaking to support SDGs with spatial and urban data analytics

Background

The United Nations (UN) Sustainable Development Goals (SDGs) seek to improve global human health and well-being setting out strategies to increase educational opportunities, eradicate poverty and reduce inequality. In addition to these social goods, the 17 SDGs also promote economic growth, environmental protection, and measures to address climate change.

Governments at national, state, and local levels are committed to adopt SDGs in future policies. While progress has been made implementation remains a challenge exacerbated by the COVID-19 pandemic.

Challenge

One of the major challenges is how the SDGs as global targets can be achieved at a local level?

Research questions (in development)

Focusing on SDG 11, the so-called 'city goal', measures of urban resilience, inclusivity, safety, and sustainability will be researched together with role of digital technology and placemaking in city design.

The following themes are intended for investigation

- *Adaptation or development of new platforms/tools to measure and monitor implementation of SDG 11 at the local government level.*
- *The design of people-centric public spaces and spatial connections – 'proximity, density, and mobility' and epidemiological measures to control the spread of infectious diseases such as COVID-19.*
- *Exploration of connections between placemaking, resilient cities, sustainable urban development and the use of digital tools to promote human health and wellbeing.*

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- *Explore 'Before & after' urban intervention scenarios in 3 local case study locations: QVM Precinct, Docklands and Fisherman's Bend.*



Methodology (in development)

