

# Prototyping cities' future design pathways in the Anthropocene

**Abstract**— In this new epoch of Anthropocene, urban designers are confronted in multivariate climate impacts and urbanism pressures to reverse design-induced acceleration for a spiral towards one more mass extinction due to rapid urbanisation. As mega-regions are getting increasingly connected, urbanists are mindful to engage in a planetary systemic design operational pathways in response to achieving sustainable development goals and a continued design creation for disruptive innovations. This speech seeks to showcase how operational analytical experimental urban design prototypes that may potentially illustrate some anthropocene design pathways for future Earth. In order to ascertain sustainable pathways in the epoch of human-caused global change, urban design operations take into accounts an integrated experimentation framework based on design

synergy in discovery-based architecture and nature-based built-environmental concepts. By employing life-conducive biomimicry design-led research, it is increasing the scope and observed a better focused for creation of design prototypes important for anti-disciplinary planners/designers to function in this rapid urbanization and sustaining the need for disruptive design and technology based urban economic conditions. Analyses gained is suggested, in this new epoch, ability to prototyping nature's bio-intelligibility and not physicality and materiality alone may enable an important alternative disruptive urban design pathway in ways architecture help shaped our sustainable built-environment.

**Keywords**—*Anthropocene, urban design, biomimicry, disruptive sustainable design, prototypes*

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\*READ LAB is a pre start-up concept-proofing and design-led research studio/LAB for bringing responsible and game-changing designs. Based in Taiwan, READ LAB has earned several world awards and specialised invention patents known by cross-disciplinary fields in leverage game-changing prototypes and advanced architectural designs. This invited speech aims to share knowledge in times of critical earth operations and help charter our pathways forward to the future.