UDIA Urban Development Institute of Australia **New South Wales**

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Research Platform

RESEARCH BRIEFING SERIES

URBAN ICON MAGAZINE

CITY LIFE LABS

MEMBERS' KNOWLEDGE HUB

CITY LIFE LABS
CURRENT PROJECTS

City Life Labs is a collaborative research program focussed on harnessing digital technology and cutting-edge applied research techniques to help create more Liveable, Affordable and Connected cities. The program was launched in 2015 with three Round One projects. One of these was completed, with the other moving into Stage Two. Two more projects were selected through the Round Two competition in 2018.

OUR CURRENT PROJECTS

URBAN PINBOARD   **Research Partners:** Cox Architecture; AAM Group

The Urban Pinboard is a web based app featuring a multi-layered 3D digital mapping interface designed for the development sector to display development concepts while facilitating broad-based, transparent, low-barrier to entry, community and stakeholder engagement.

URBAN AI   **Research Partners:** UNSW; City Futures Research Centre; Lendlease

Investigation harnessing machine learning to predict and schematically model the built form implications that the recently confirmed North-South railway line will have across the Western Parkland City. The project will quantify the economic dividend the critical new transport infrastructure will have in terms of turbo-charging the delivery of new homes and jobs – and in doing so help knit together a network of economically vibrant, liveable and affordable centres.

ARKICITY   **Research Partners:** SMART Infrastructure Facility @ UOW

arkicity will provide a digital space where citizens share local knowledge and ideas on how to improve spaces around their city. Differing from traditional community meetings, the application will allow everyone to engage in the transformation of their cities, merging bottom-up and top-down approaches. arkicity derives originally from another app initiative called CoCityApp, developed by arki_tools. It incorporates similar core values and innovative approach to citizen involvement in city planning.

SYDNEY ANALYTICS   **Research Partner:** Geografia

A project using Deep Learning and spatial modelling to build a liveability platform that will comprise real-time tracking of various aspects of the urban environment – including urban heat, land use change and behavioural responses of people to local conditions. The modelling will integrate into the Urban Pinboard allowing users to explore spatial data outputs and comment on living and working in different parts of Sydney.

Research Partners
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