

Net Zero Corridors - Integrating transit with urban development

April 2023 - September 2024

This Net Zero Corridors project builds on research and partnerships from previous SBEnc projects (1.84, 1.74 and 1.62), where innovative and integrated solutions to the transit and urban development futures of Australian cities were developed. With these ideas now mainstreaming, opportunities are now appearing where state government agencies, local governments and industry partners are looking to deliver net zero, mid-tier transit corridors and station precincts in an entrepreneurial framework. This project has identified initiatives that need new approaches to governance that can bring private sector investment into their procurement process while setting globally significant outcomes in net zero urban design and integration of affordable housing and smart technology. Planning for the project has commenced, as well as a supporting research framework being developed with three papers already written.

Objectives

The following objectives will be addressed to work towards net zero outcomes:

1. To propose improved models for governance and procurement of Net Zero Corridors integrating transport, development and finance.
2. To set out how the options for these can support the provision of net zero social, connected and affordable housing, connecting movement and place, and enabled by the innovations in mid-tier infrastructure and technology such as trackless trams, micro mobility and associated smart technologies.

Industry Outcomes

The key industry outcomes include:

1. Models for pairing affordable, place-making, net-zero development with mid-tier transit innovation. No model exists for integrating all these factors.
2. Development of entrepreneurial models for Net Zero corridor development and urban regeneration.
3. Frameworks for industry investment in Net Zero projects that blend private and public resources and aims.
4. Certification pathways for deployment of new mid-tier transit technologies. Models for pairing affordable, place-making, net zero development with mid-tier transport innovation. No model exists for integrating all these factors.

Image: Visualisation of potential urban development form in Liverpool LGA on FAST Corridor - Liverpool City Council, Sydney (2020) 'FAST Corridor Design Framework'



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