

## **Towards Simulation Tools for Innovative Street Designs**

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The UN predicts 66% of the world's population will live in cities by 2050. Shared spaces offer one effective solution to enhance safety, economic vitality and mobility for people living in cities. In this talk, a new tool for innovative urban design approaches minimising the segregation of pedestrians and vehicles, e.g., shared spaces will be presented. Findings from analysing and comparing two shared space schemes will be presented to demonstrate the benefits of cost-effectively evaluating shared space schemes prior to implementation. Urban designers, traffic engineers, and local authorities can use the developed simulation tool to predict traffic conditions and avoid costly reversals of shared space schemes. This tool can also give us insight into how road users may react to and behave along autonomous vehicles.