

Design Portfolio



AI IN HEALTH: URBAN INTERVENTION

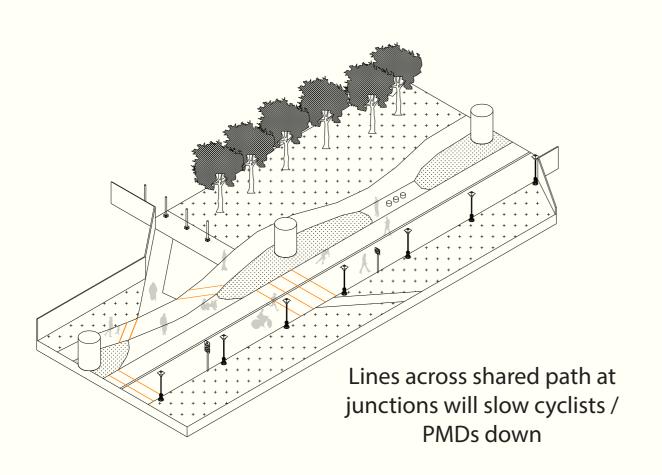
LKYCIC Ageing Urbanism

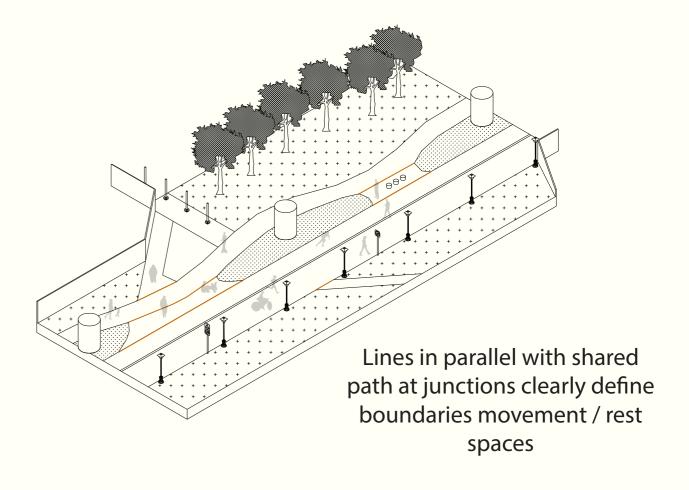
Prototyping Phase Dec 2020 - July 2022

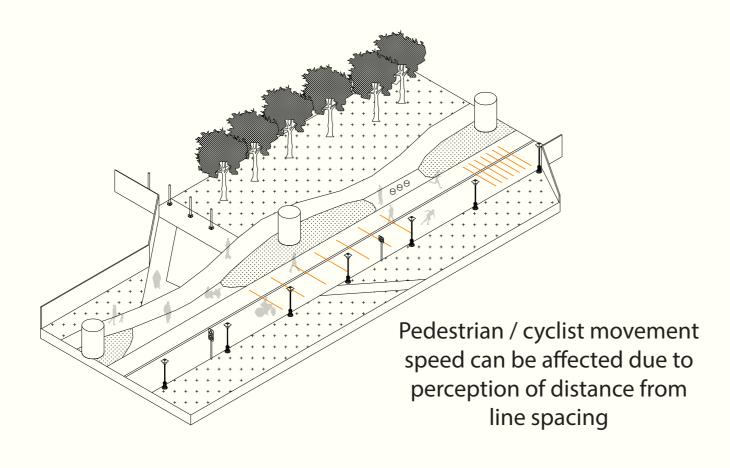


This prototyping phase aims to fulfill the following purpose and objectives:

- i) To design prototypes considering implementable urban design and planning recommendations to improve walkable environment in Tampines
- ii) To fabricate, make, and install smallscale design prototypes at Tampines-Simei MRT viaduct park connector network.
- iii) To assess design prototypes with reference to their design ideas/objectives, usefulness, and feasibility of scaling up.

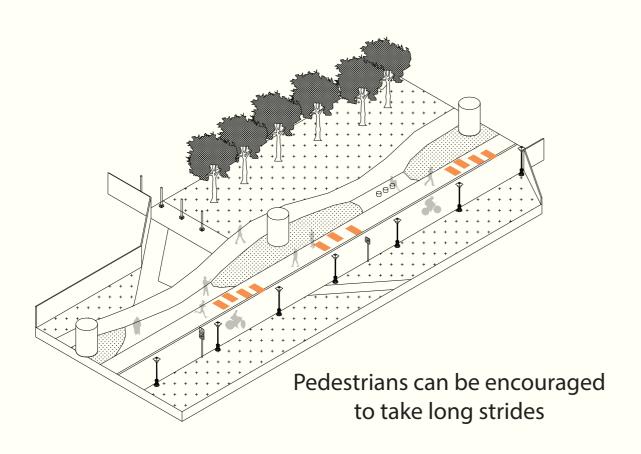


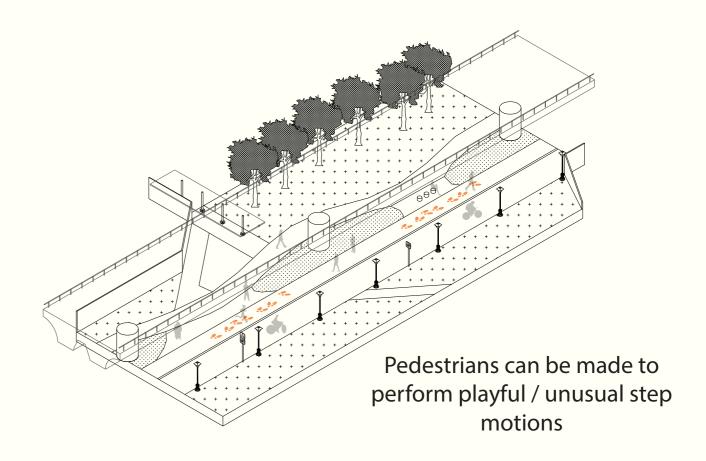


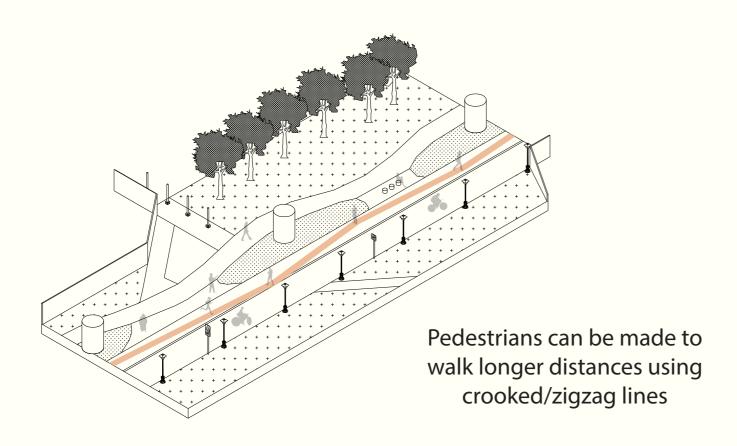


DESIGN OPTION 1

Bright coloured lines across shared walkways can affect pedestrian / cyclist movement behaviour

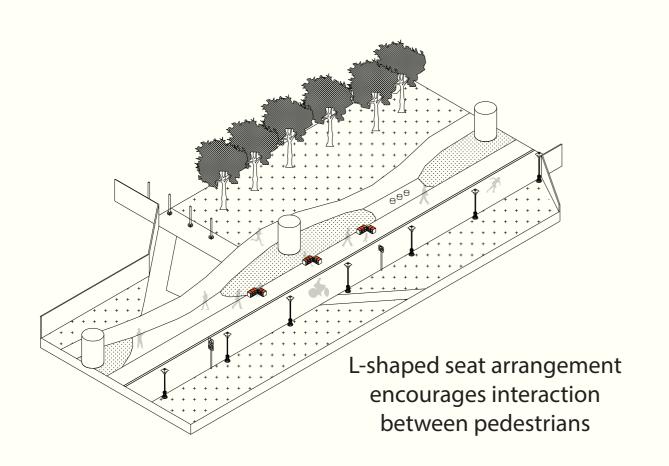


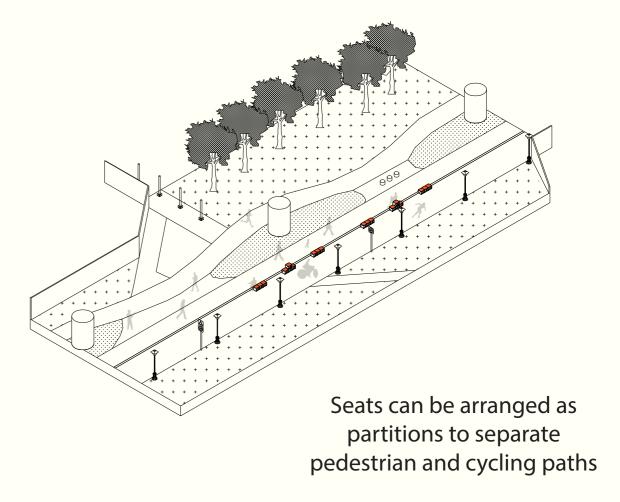


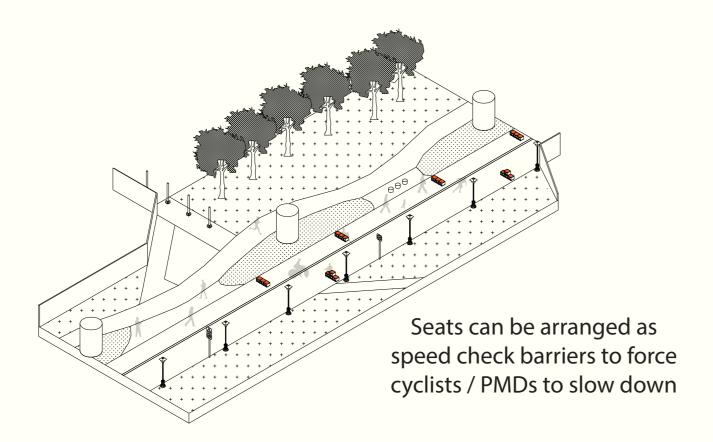


DESIGN OPTION 2

Attractions can nudge pedestrian walking behaviour



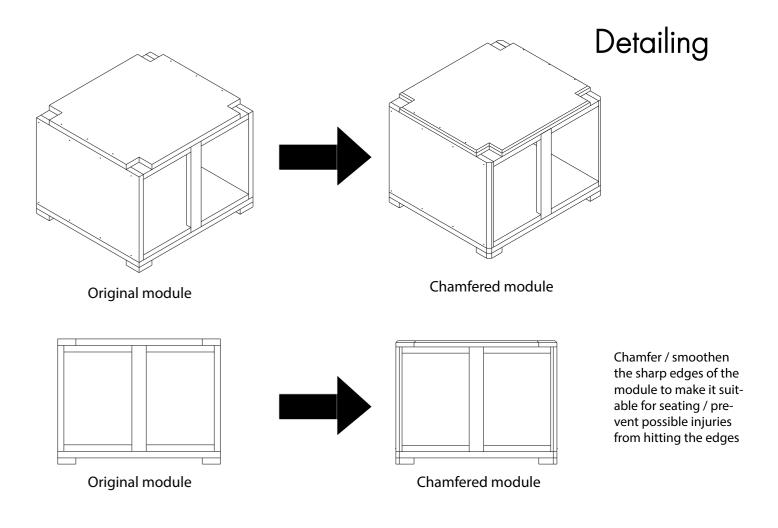


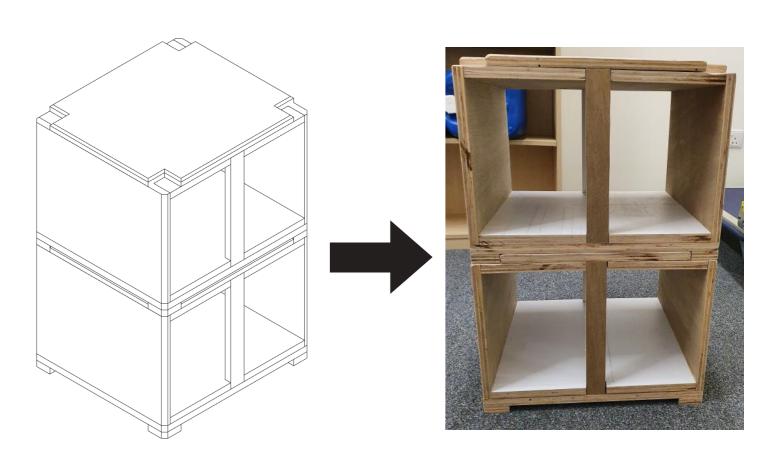


DESIGN OPTION 3

Position and type of seat can influence pedestrian / cyclist movement and resting behaviour

Prototype bench module All pieces are made from 18mm plywood board (except for 1" nails) x 2 449mm x 400mm cross shaped 18mm plywood board 415mm x 400mm H-shaped 18mm 449mm x 400mm 18mm plywood plywood board board ⊥ x 32 ⇔ x 4 x 2 50mm x 50mm 18mm piece 291mm x 40mm 18mm plywood 400mm x 291mm 18mm plywood board





Miscellaneous

Tampines-Simei MRT corridor viaduct

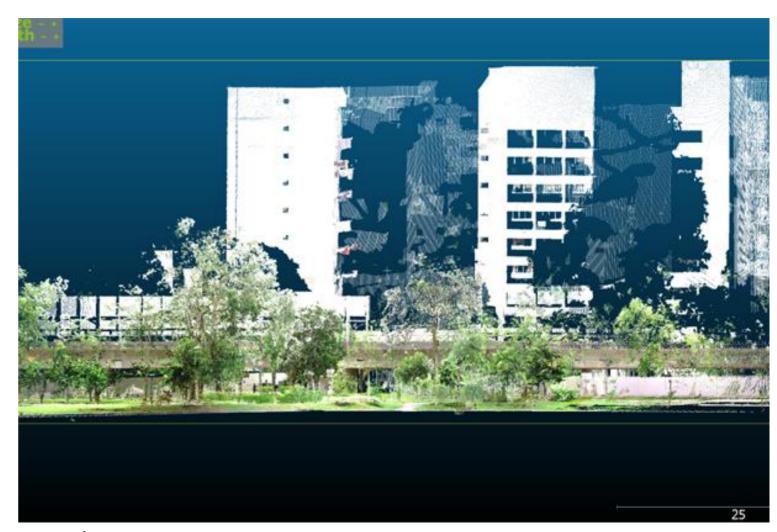
3D point cloud scans

3D Scanner: FARO Focus 3D

Point cloud editors: Autodesk Recap, CloudCompare



Street View



Long Elevation



Short Elevation

Miscellaneous

Lian Shan Shuang Lin Monastery

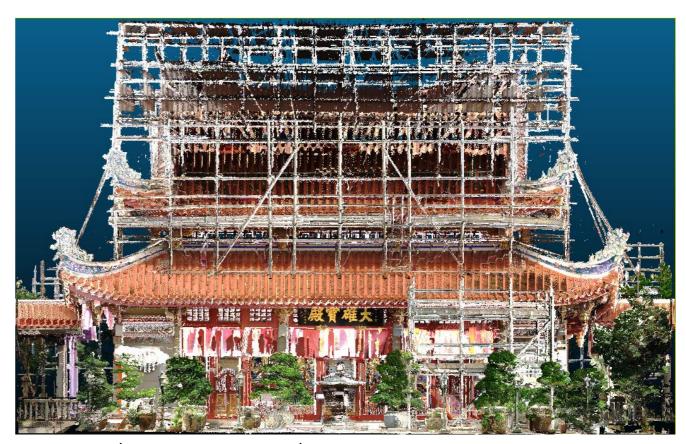
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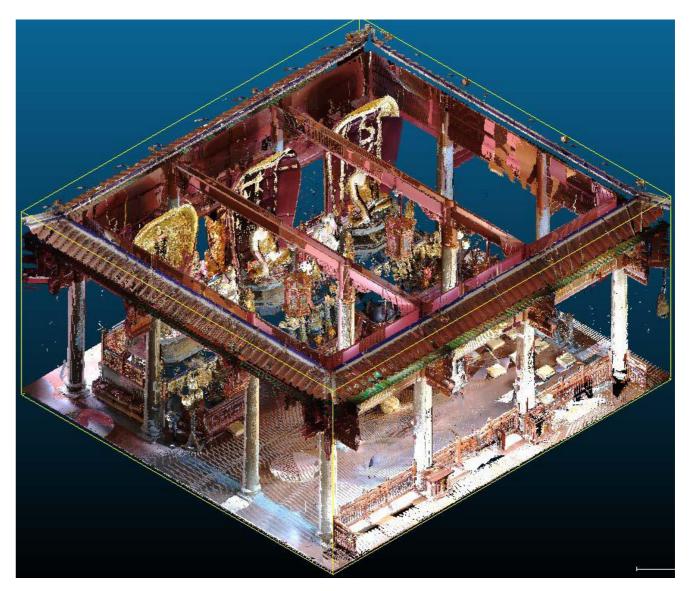
Point cloud editors: Autodesk Recap, CloudCompare



Isometric view (Da Xiong Bao Dian)



Front View (Da Xiong Bao Dian)



Isometric view (Da Xiong Bao Dian interior)