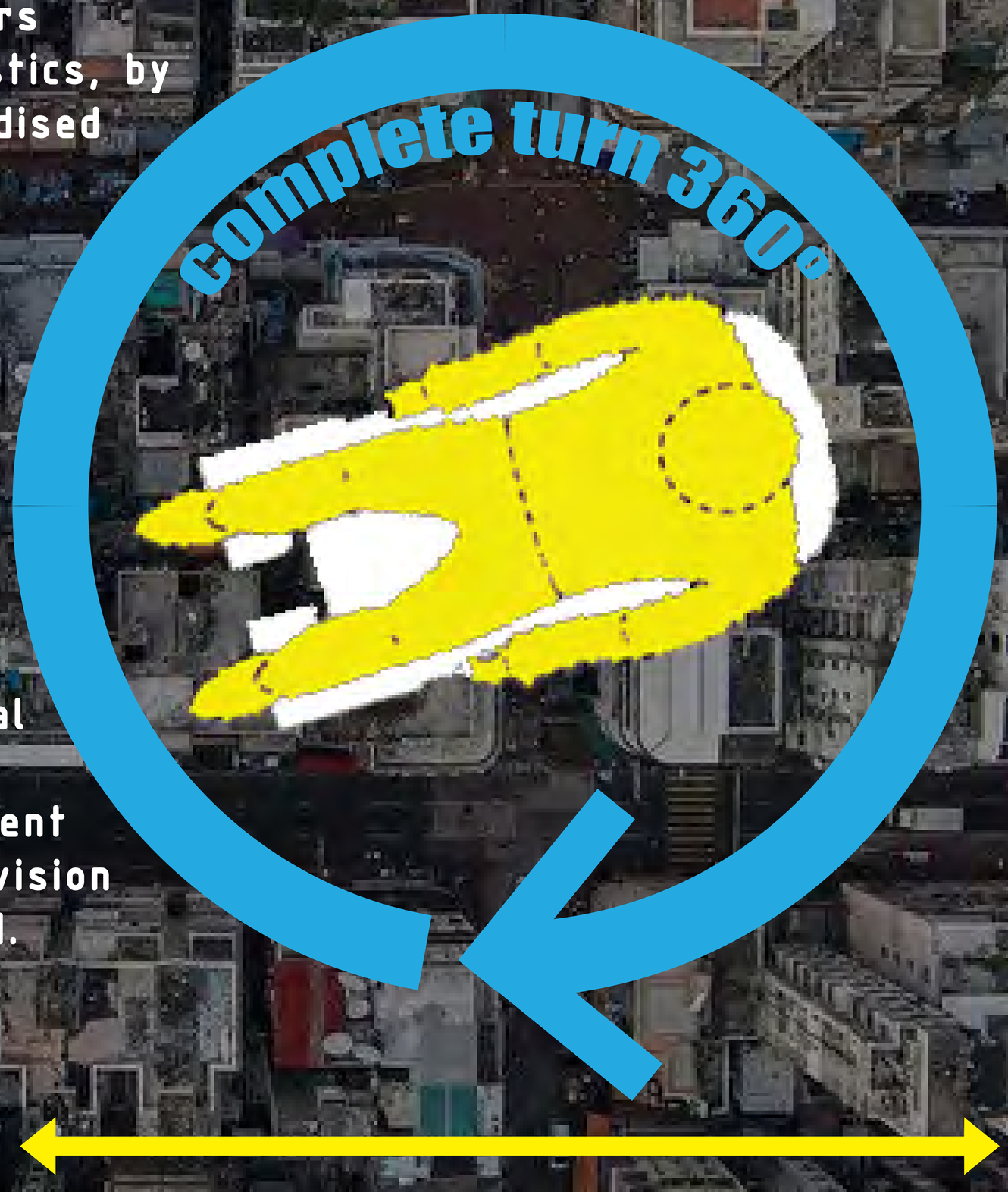
Manoeurving Space for Power Wheelchair Users in Hong Kong

Purpose of Study

- To examine the manoeurving requirement of power wheelchairs commonly used in the local community
- To assess whether the current Hong Kong standards are still adequate to ensure accessibility.
- To contribute towards an international consensus in design standard, by providing an Asian perspective of a different anthropometric and cultural background.

Methodology

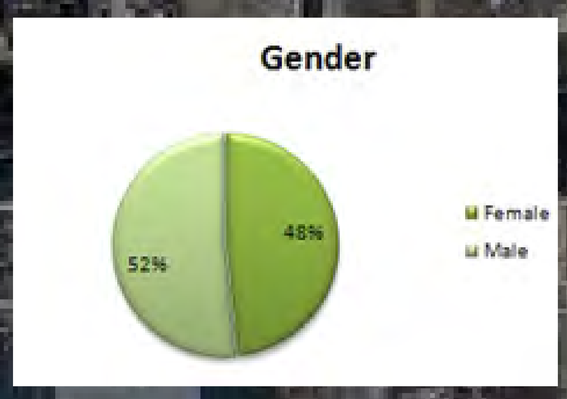
- Evidence based approach of analysing the powerwheelchairs mobility characteristics, by performing standardised manoeuver in form of a continuous smooth turn within bounded space.
- Results were presented in percentile and compared with the current design standards in Hong Kong. Likely spatial restriction as imposedby the current minimum design provision was then quantified.

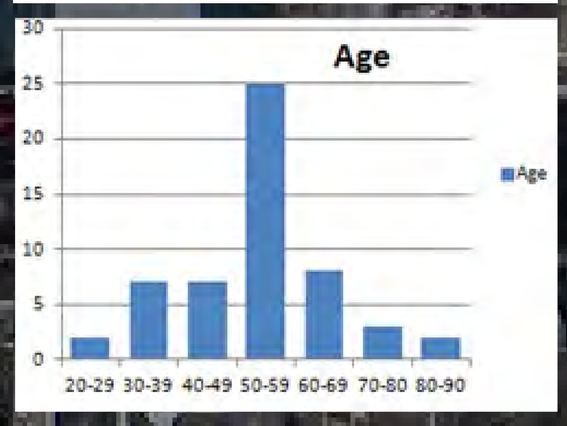


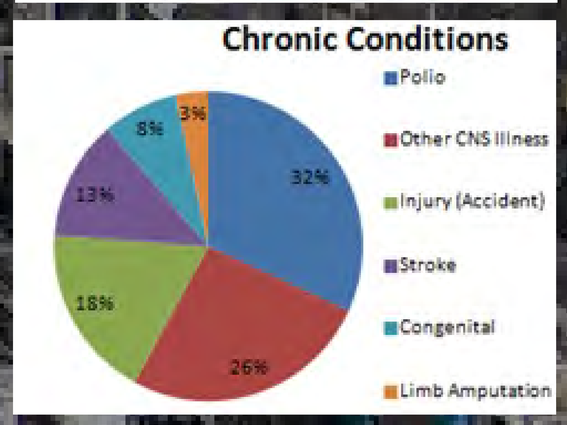
1500mm x 1500mm
1700mm x 1700mm
1800mm x 1800mm
2000mm x 2000mm

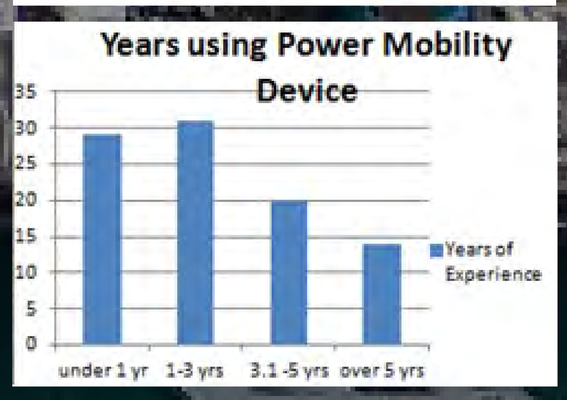
Results

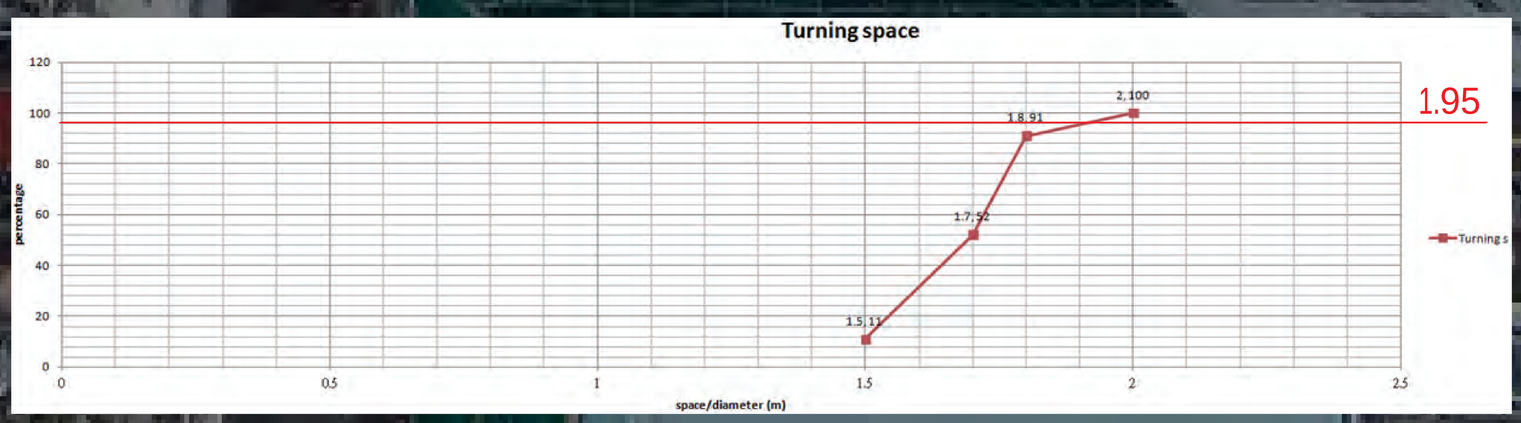
- Power wheelchairs need greater turning space than the current design standard in Hong Kong.
- The required space for 360 degree manoeuvring significantly exceeded the minimum space provision.
- The findings followed closely to recent international researches that present design standards are inadequate for the contemporary wheeled mobility users.











Research Project
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