

Children Friendly Road Infrastructures

Ir Julian TH KWONG Chairman, Community for Road Safety

Making Road Transport Safer for Children Third United Nation's Global Road Safety Week Centre for Health Protection, 9th May 2015

TOPICS

Pedestrian Crossings and Railings

- Lower Speed Limit Zones
- Cycle Track Safety

Visibility at Pedestrian Crossings

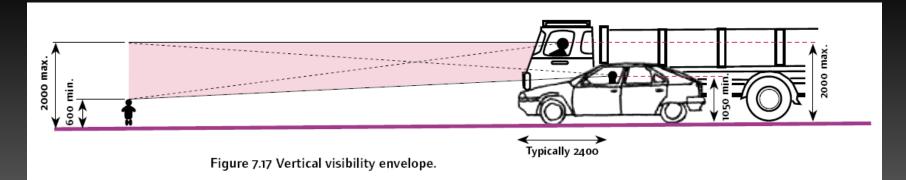
 Drivers should be able to observe the intention of pedestrians, both on the crossing and over the waiting area of the footpath



- In reality, to obtain the required visibility (50-70m) for 50km/h approach speed, 35 to 63m length of railings have to be of high visibility type
- At present, many high visibility railings are only a few metres in length or simply not provided

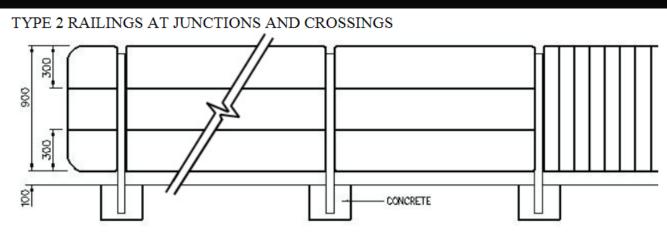


- Average height of 6 year old child in Hong Kong: 1176mm (So et. Al, BMC Public Health. 2008; 8: 320)
- Standard height of pedestrian railing : 1000mm



Manual for Streets 2007

- The design manual contains relevant advice but this is often not followed or understood.
- 3.9.2.13 At crossing points, road junctions or similar locations, it will be necessary to use the detail shown in "Type 2 Railings at Junctions and Crossings" of Diagram 3.9.2.2 in order that the visibility of motorists is not impaired. For similar reason, roadside advertisements, banners and any other objects that will obstruct the visibility of motorists should be prohibited from hanging on the traffic upstream side of the crossing points or road junctions for a length of about 30m.



NOTES: 1. LENGTH OF TYPE 2 RAILINGS AT JUNCTIONS AND CROSSINGS SHOULD BE DETERMINED TO SUIT SITE CONDITIONS AND PROVISION CRITERIA IN PARAGRAPH 3.9.2.13.

Transport Planning and Design Manual, Hong Kong







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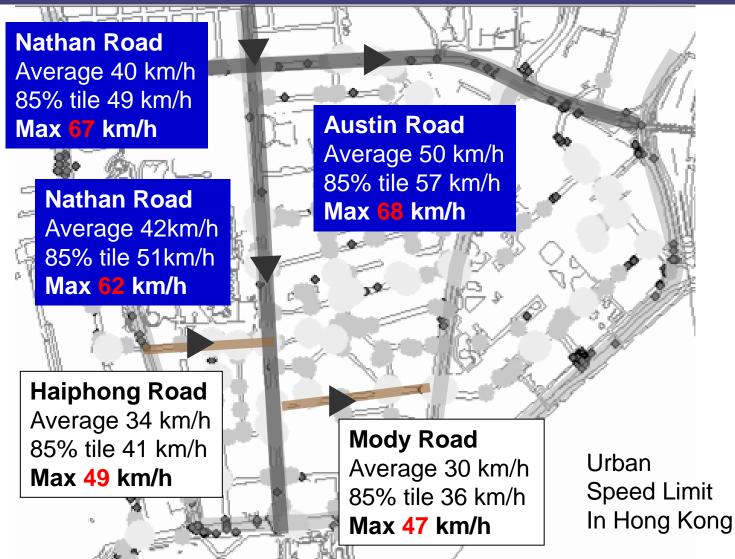
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Pedestrian Crossings and Traffic Speeds

- It would be unrealistic, to assume that pedestrians will always follow rules and be confined to designated crossings on our urban streets
- Crashes are bound to happen with current urban traffic speeds

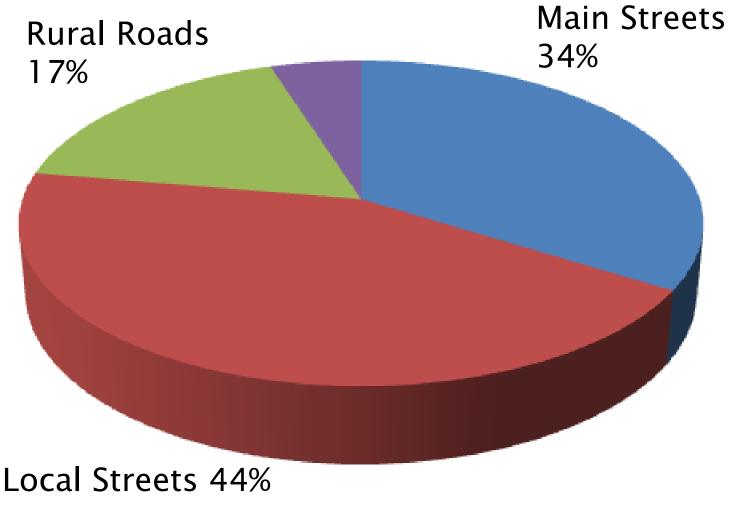


Favourable Average Speeds but Unfavourable Spread



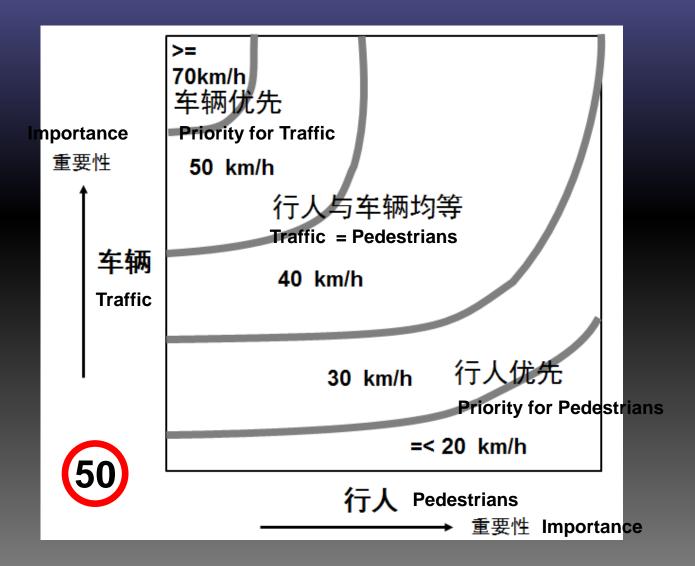
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Children Pedestrians and Street Types

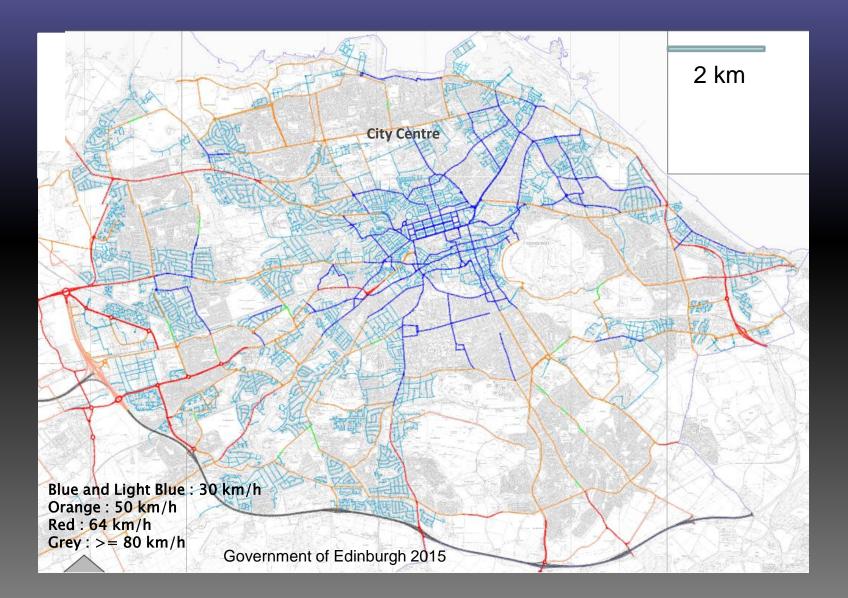


based on 124 child pedestrian KSI in 2013, TRADS data, Transport Department

Lower Speed Limits



30km/h Speed Limit in Edinburgh



Self-explaining Streets







30km/h Zones



One-way Streets



Multi-lane One-way Local Distributors



Two-way Streets



Public/Private Housing Estates/Institutions





40km/h Zones



Wide Single Carriageway District/Local Distributors



Multi-lane Single Carriageway Primary/District Distributors

Multi-lane Dual Carriageway Primary/District Distributors



Multi-lane One-way Primary/District Distributors







Dual carriageway with extensive segregation



Dual Carriageway with footbridges or subways

Single Carriageway with good visibility



Sub-urban Roads with few pedestrians







Shared Surface (woonerf, home zones)



Shopping Streets



Entertainment/Tourist Areas



Open Markets



Village Centres



Developing a System for Hong Kong

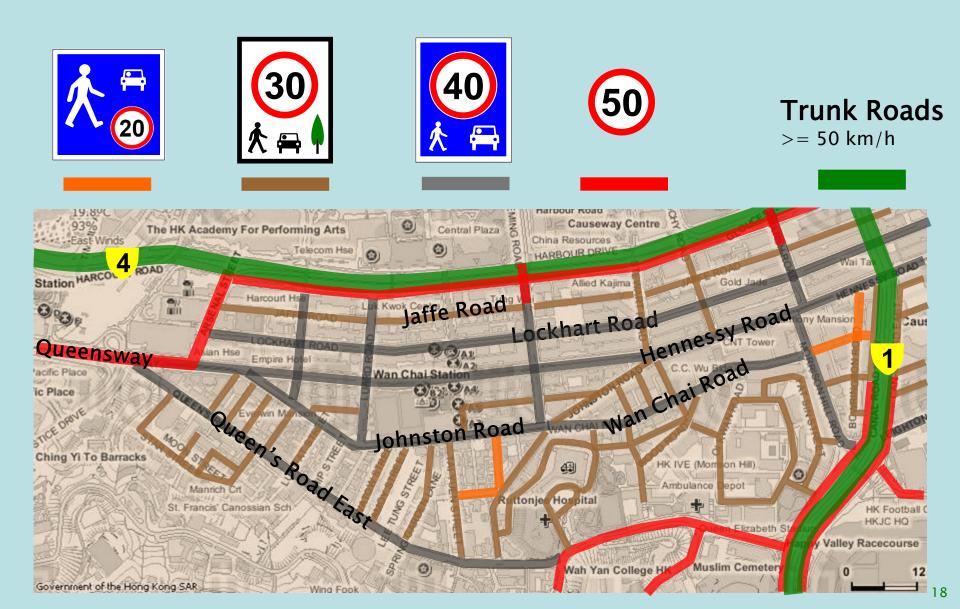




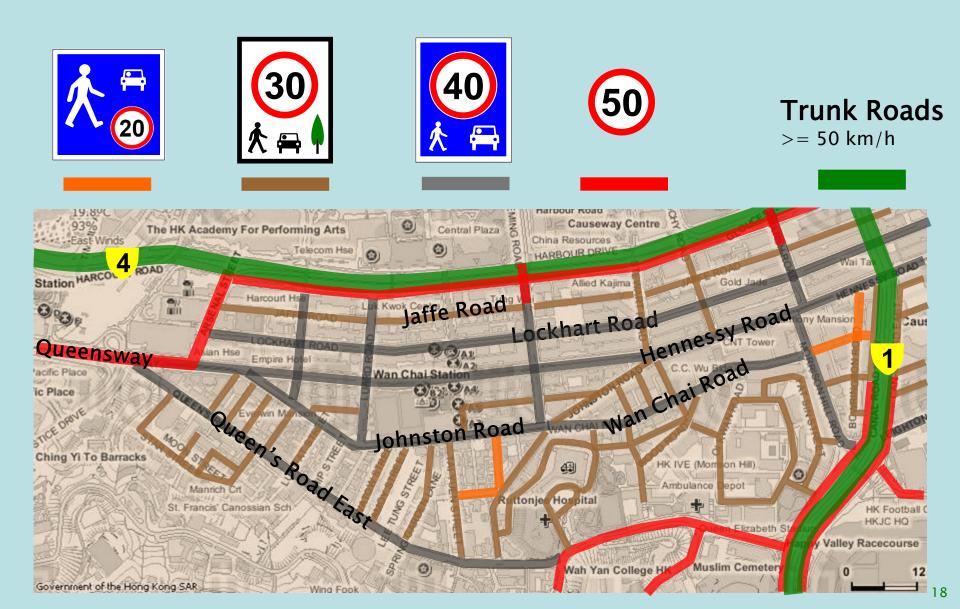




Wan Chai



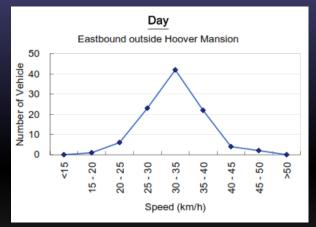
Wan Chai



A Low Speed Zone Pilot Area Proposal for Residents



- "30" Speed Limit Roundel Markings over Colour Dressing
- Speed Table and Associated Signing



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Safety on Cycle Tracks

- 12% of cycle track casualties classified as serious (0-18, 2013)
- Forgiving design elements
- Cycle Track Junctions and Crossings
- Missing Links and On-street Cycling
- Lower speed limits on Urban Streets

Examples of "Unforgiving" Situations on Cycle Track











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