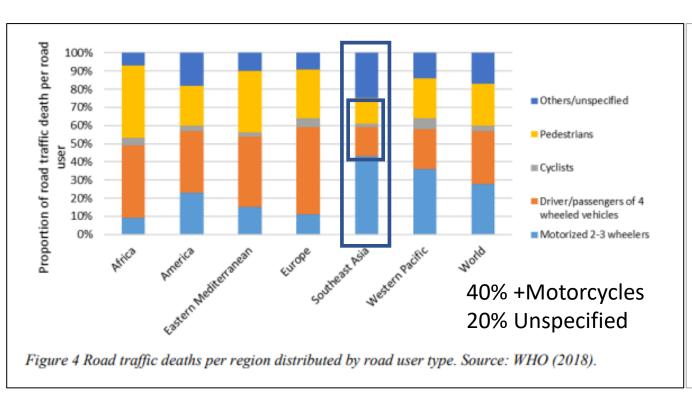
Safe Infrastructure for PTWs – Knowledge Gaps

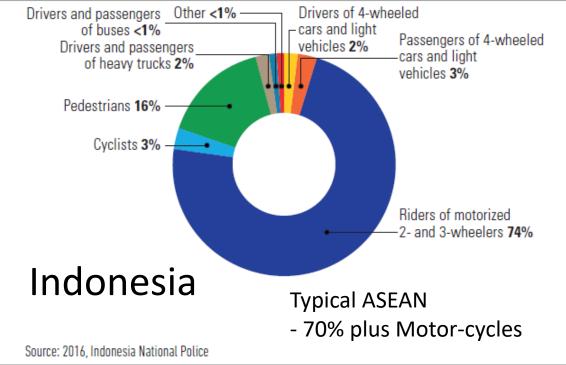






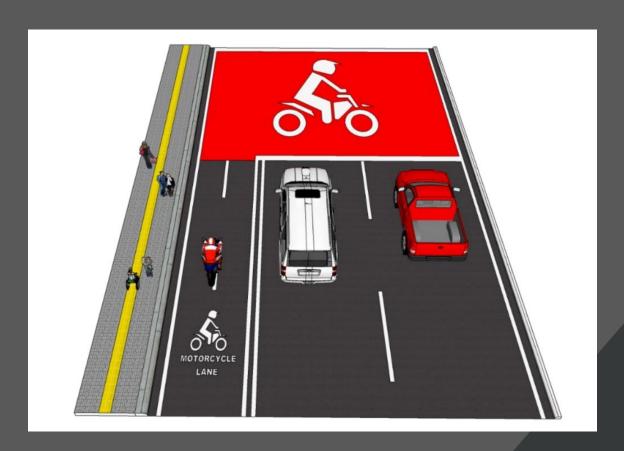
Crash Statistics







Infrastructure Measures



- Pavement Quality and Consistency
- Road-Side Barrier Designs
- Shoulder Widening/Upgrades
- Median Islands
- Motorcycle lanes (MCLs)
 - Exclusive (EMCLs)
 - Inclusive (non-exclusive)
- Intersection Facilities
 - Advanced Stop Lines (Bike Boxes)
 - Median Islands
 - Motorcycle standup Lanes
- Speed Management Devices
 - Raised platforms/humps



Narrow Lanes & No Shoulders











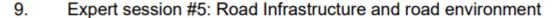
Median Treatments





Motorcycle Lanes - Exclusive

Exclusive motorcycle lanes have been implemented in several countries in Southeast Asia with mostly good results. However, there are problems with this solution that need to be managed, such as access points and delineation to the other lanes. An example from Latin America was raised where an exclusive motorcycle lane was implemented with bad results. A reason for this might have been inaccurate design, and the need for detailed design guidelines were stressed. More generally, it is not enough to propose the safety measure in itself, specific guidelines must also be developed for a successful implementation in other areas.



This session was moderated by Mr Greg Smith, IRAP and Dr Pierre Van Elslande, University Gustave











Inclusive (non-exclusive) Motorcycle Lanes

Often just a painted line between motorcycles and traffic (or flush separator)











Changing Behaviours

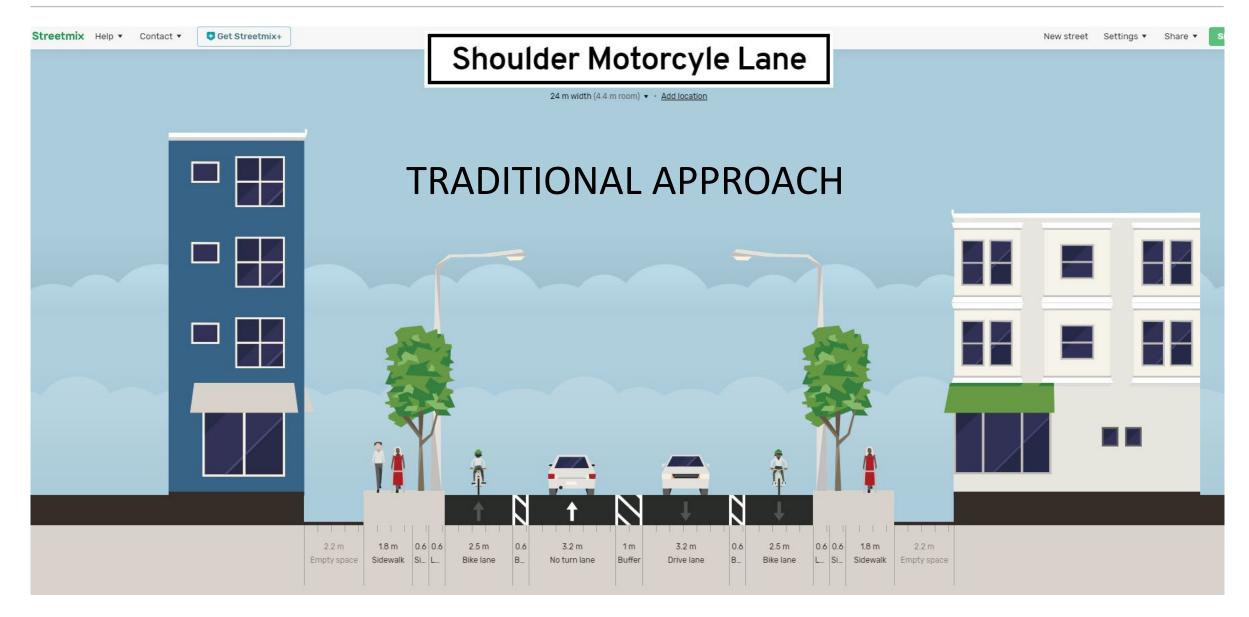
Lower powered stay near kerb-side (like bicycles) while higher powered near centreline





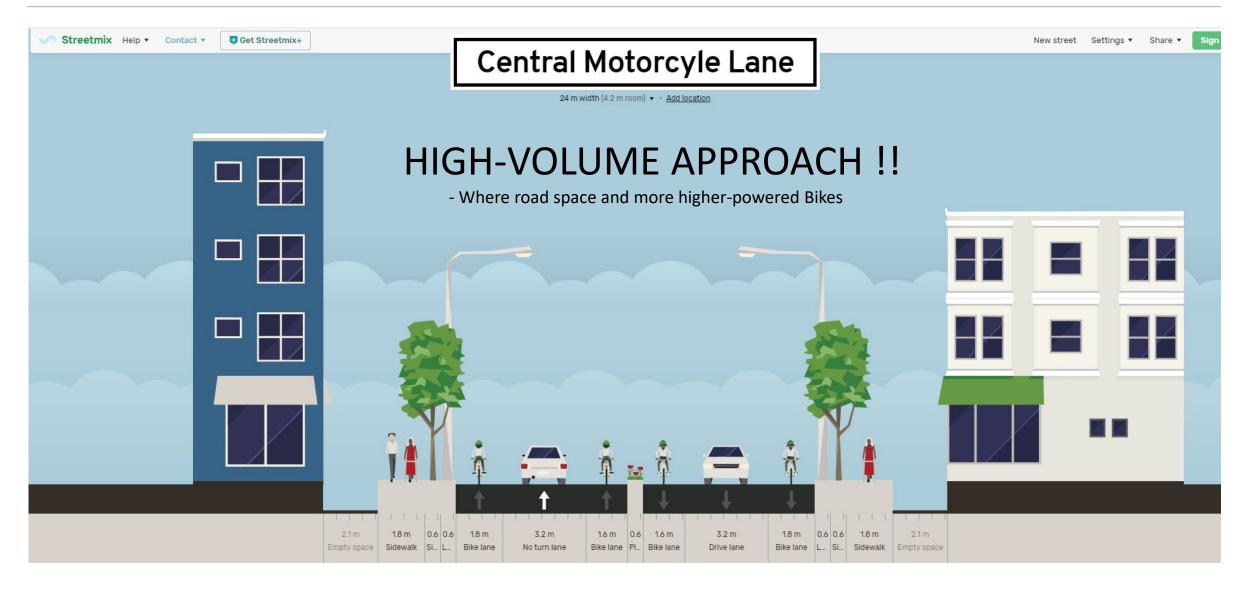






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Major Intersections

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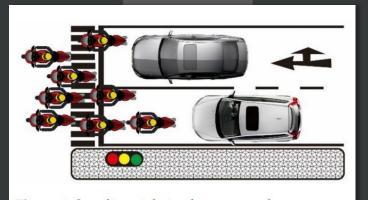


Figure 6. Stop line violation by motorcycles.

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Major Intersections Bike Boxes (or ASL)

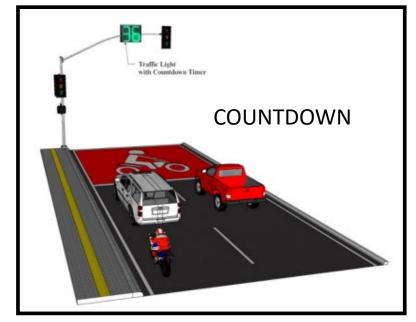












(c)



Speed Management for PTWs

Managing
Kinetic Energy

Successfully managing kinetic energy is a crucial part of a safe system, thereby making speed a very important aspect. Several attendees discussed traffic calming measures and the experiences seemed to be that traditional measures, such as speed bumps, do not necessarily work well for PTWs and can even be dangerous. Roundabouts were also given as an example of a measure that successfully could manage kinetic energy and speed compared to traditional crossings. However, different views came up in the discussion as to whether roundabouts are safe for motorcyclists or not. The general perception seemed to be that the design of the roundabouts and good friction is very important, and with the right design, roundabouts could be safe also for motorcyclists. Narrow lanes were also put forward as an example of a successful measure to reduce speeds.



9. Expert session #5: Road Infrastructure and road environment

This session was moderated by Mr Greg Smith, IRAP and Dr Pierre Van Elslande, University Gustave

Speed Bumps? Roundabouts? Narrowing?



Speed Management Devices







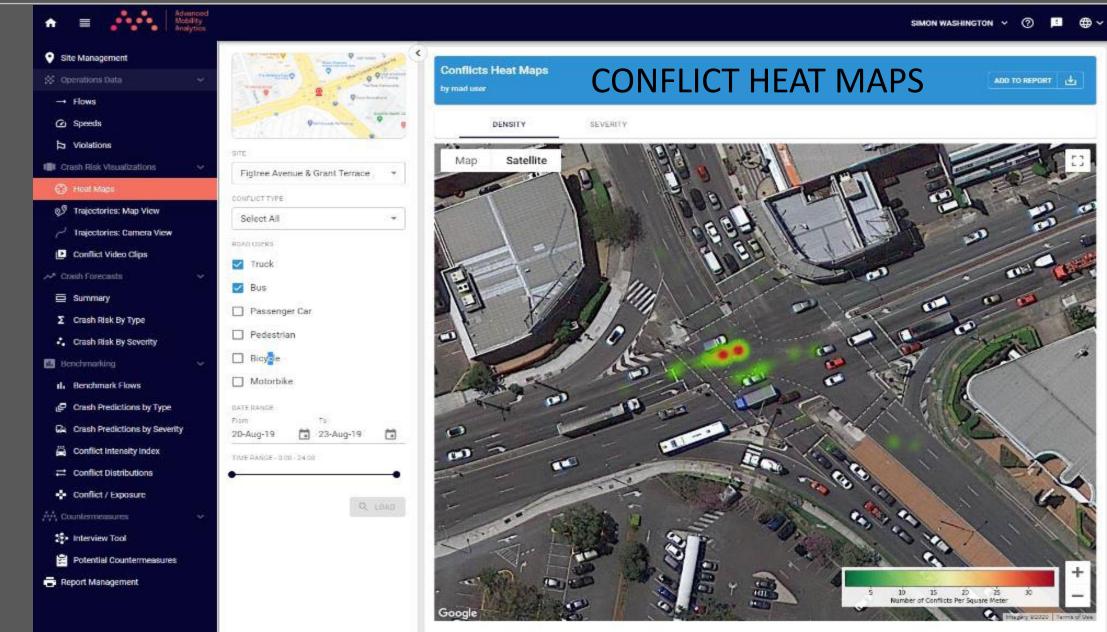






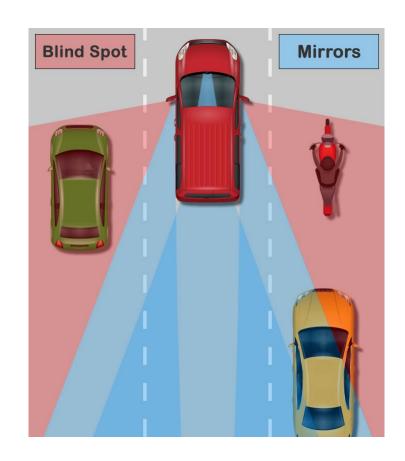








Traffic Conflicts in Vehicle Blind-Spots







End/Questions



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