Keeping vulnerable road users safe during construction projects

Construction Truck and Community Safety Project

Rachel Carlisle, Road Safety Victoria, April 2023







- Overview
- > HIRA film
- > Transurban truck standards case study

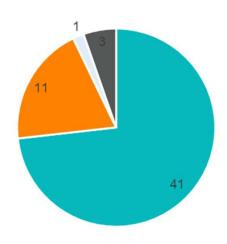
Questions



What's the problem?

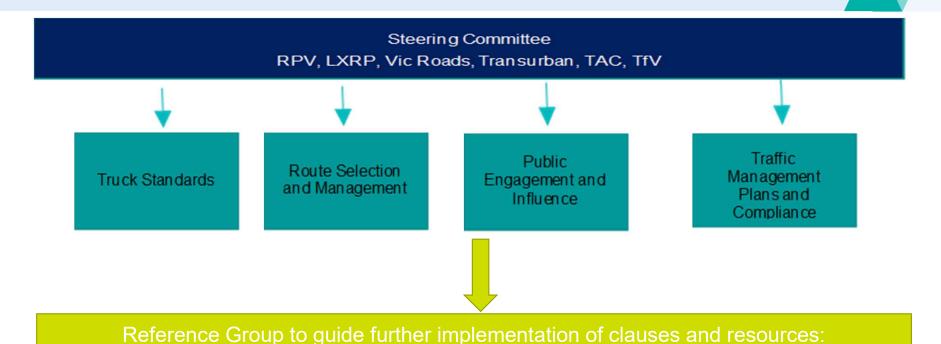
- Construction trucks represent the oldest trucks in the truck fleet
- They are often owner operated trucks so they are old models with one owner who subcontracts to larger haulage contractors.
- Truck/Vulnerable Road User interactions create catastrophic events in which VRU are hyper vulnerable.
- Construction trucks are involved in 67% of truck/pedestrian crashes and 74% of truck/bicycle rider crashes.
- Geographic location construction sites are often co-located where active transport usage is high.

Truck and Bicycle Crashes by Truck Body Type 2014 - 2019



- HEAVY VEHICLE (RIGID) > 4.5 TONNES PRIME MOVER SINGLE TRAILER
- PRIME MOVER B-DOUBLE
- PRIME MOVER ONLY

Background



DTP, Transurban, TAC, Bicycle Network, MAV

- Multi-stakeholder input into forums and working groups
- > Related to Construction Logistics and Community Safety (CLOCS), a Transport for London project, and helped to inspire the CLOCS-A national Australian project.

 Construction Truck and Community Safety - MAV webinar 5th April 2023

Clause induced safety improvements

Major Construction Projects (Metro Rail, LXRA, Transurban, Roads Clauses
developed with
supporting
guidance embedded into
contract
documentation

Step change in practise to improve safety for Vulnerable Road Users

Truck Standards

> Current clauses embedded in: Metro Rail, NELA, Transurban projects and others

> Additional Victorian project undertaken to determine three tier truck standards for

CLOCS-A project





Temporary Traffic Management



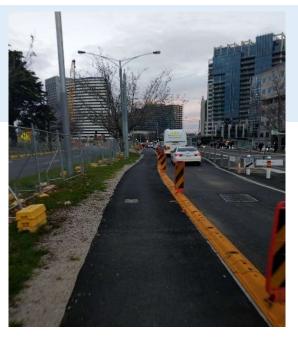


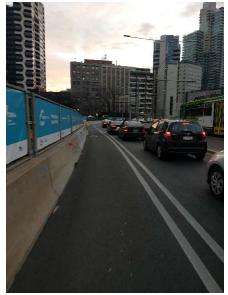


Construction Truck and Community Safety - MAV

Supportive measures





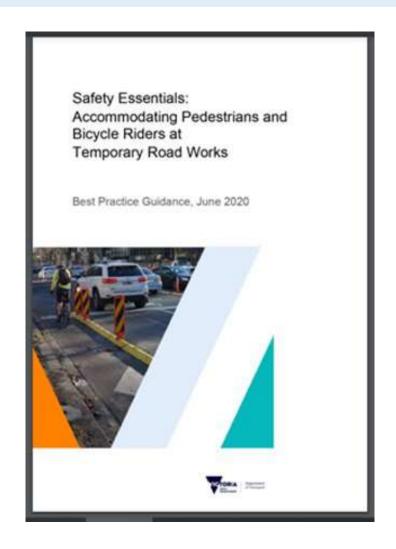








Temporary Traffic Management Resources





Positioning of signs

Signs for drivers must not block the way for pedestrians and bicycle riders



FIGURE 19: TEMPORARY SIGNAGE
OBSTRUCTING CYCLE LANE FORCING BIKES
INTO VEHICLE LANE



FIGURE 20: TEMPORARY SIGN LEAVING INADEQUATE WIDTH ON SHARED PATH FOR PEDESTRIANS AND CYCLISTS



FIGURE 8: OBSTRUCTED ROUTE AND UNEVEN SURFACE - DIVERSION PATHS SHOULD BE SMOOTH AND CLEAR OF OBSTRUCTIONS



FIGURE 9: NO CLEAR ROUTE EXCEPT IN ROAD -ENSURE CLEAR, LEGIBLE ROUTES FOR PEDESTRIANS IF THE FOOTPATH IS CLOSED



FIGURE 22: TEMPORARY SIGNAGE CORRECTLY PLACED SO NOT OBSTRUCTING CYCLE LANE



FIGURE 23: PROVIDE TEMPORARY RAMPS FOR MOBILITY IMPAIRED AND WHEELCHAIR USERS

Route Selection Tool



A Decision Support Tool for Major Construction Project Traffic Planning

Process



Tools for the workshop:

- Aerial imagery
- Background photos
- Background information





Invite representatives from:

- Road Authority
- Local Council
- Developer
- Other relevant stakeholders
- Independent facilitator

Construction client and/or contractor to identify potential construction vehicle routes

Organise/conduct a HIRA Workshop assuming trucks are travelling along the routes in existing conditions

Once a route is identified as preferred consider the risks identified in the first work shop and use a **safe** systems approach to plan potential mitigation measures

Conduct a second workshop and re-score the selected route considering the proposed mitigation measures

Workshop tips:







HIRA is not the single decision making tool

Keep a record of the HIRA workshop results and comments documente This demonstrates that the various chains of responsibility have consic vulnerable road users

Communications and engagement

- Metro Rail Swapping Seats and ABC public communications



- Social media public communications
- Web page resource collection







Current work





Research - Improving Drawbar Safety

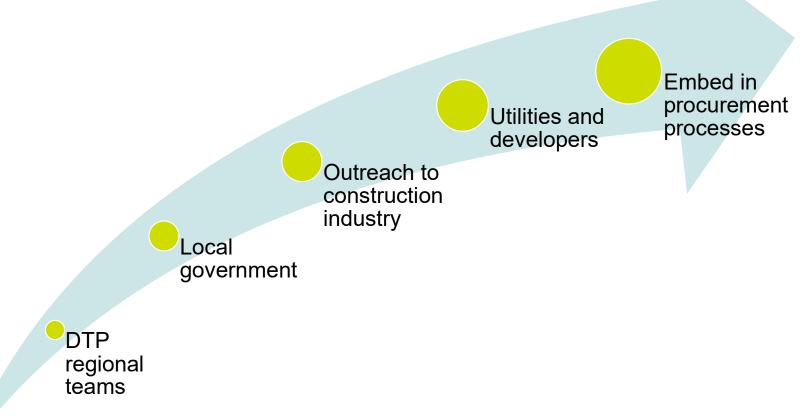


Communications

- Public Education outreach
- Industry outreach
 - HIRA tool instructional video
 - Truck driver toolbox talks (with NRSPP):
 - Blind spots
 - Pedestrians
 - Bicycle riders
 - Case study development (with CLOCS-A)



Future engagement



Questions?

Contact details:

Victoria

Construction truck and community safety
https://www.vicroads.vic.gov.au/safety-and-road-rules/road-safety-programs/construction-trucks-and-community-safety

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National

CLOCS-A

https://clocs-a.org.au/

National Road Safety Partnership Program https://www.nrspp.org.au/resources/toolboxtalks/



