



**Asia-Pacific
Economic Cooperation**

2023/TPTWG/IIEG/TM1/004

Agenda Item: 4.2

Improving Accessibility and Inclusivity in the Use of New and Emerging Transport Technologies - Insights and Experiences from Australia

Purpose: Information
Submitted by: Australia



**Thematic Session on Improving
Accessibility and Inclusivity in the Use
of New and Emerging Transport
Technologies
16 March 2023**



Asia-Pacific
Economic Cooperation

Session 3 – Insights and experiences from member economies - Australia

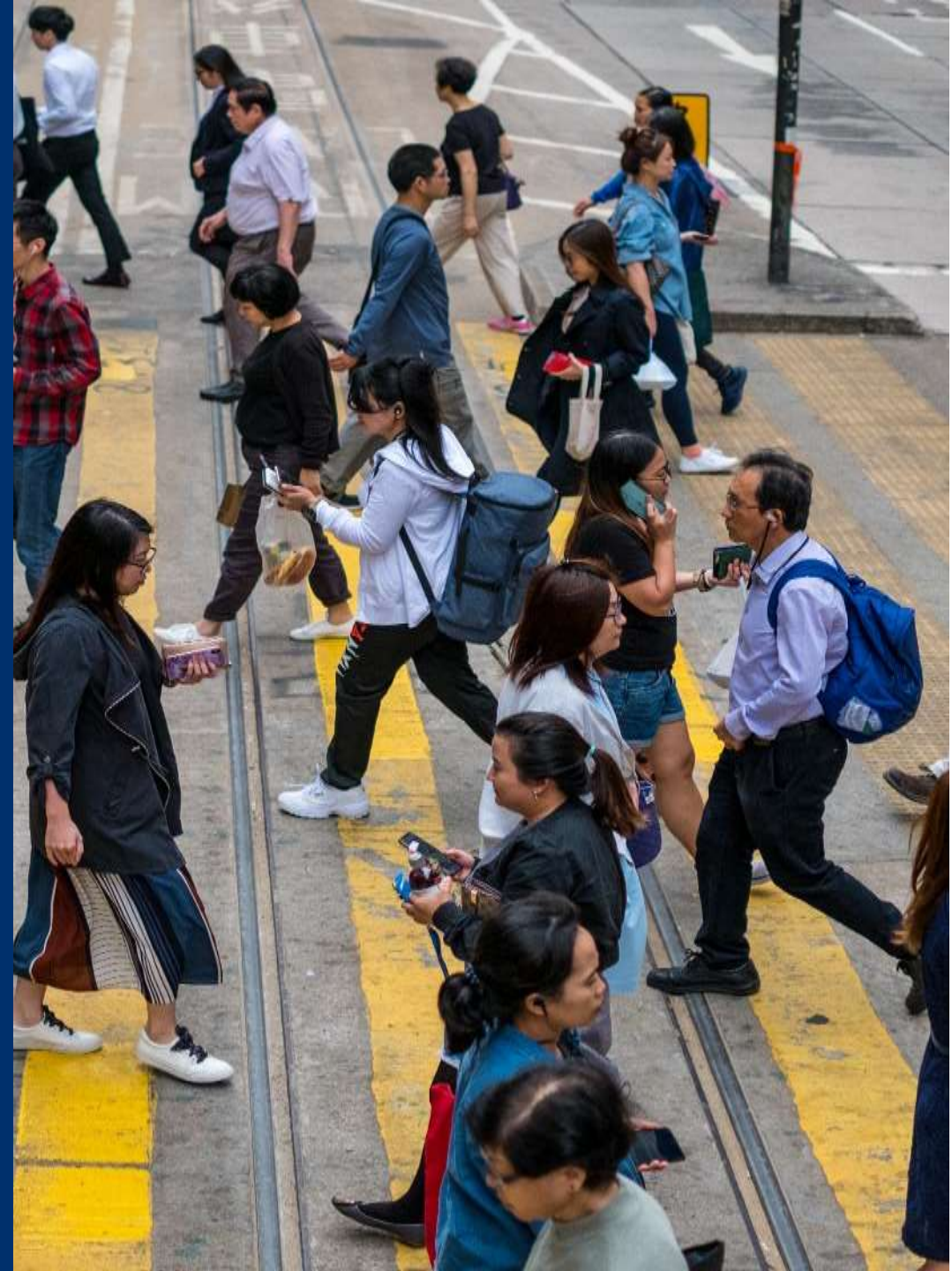
Mr. Darren Atkinson
IIEG Chair, Australia

4.1, Intermodal & Intelligent Transport System Experts' Group Virtual Thematic Session

Date: Thursday 16 March 2023

Advancing Free Trade
for Asia-Pacific Prosperity

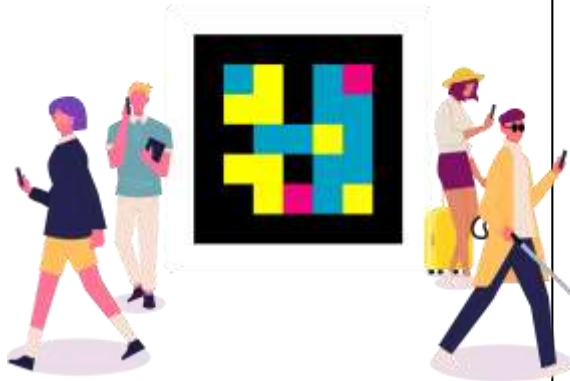
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Insights and experience - Australia

NaviLens Technology trial

Scan colourful machine-readable codes on phone to access real-time information, wayfinding and audible experiences for people with visual impairment.



Briometrix Australia

Provides travel path conditions to public transport and key destinations. Maps show accessible pathways and potentially match routes to a person's physical abilities.



SAGE Automation See Me app

A solution improving the public transport experience for people who are blind and vision impaired.



Frictionless Ticketing for Public Transport

Research exploring new and emerging technologies that could be implemented to introduce frictionless ticketing, particularly for people with disability.



Insights and experience - Australia

Automated mobility for elderly and people with disability

This research project explores whether the high bandwidth offered by 5G could improve the performance of CAV shuttles and make them accessible to the elderly and people with disability by improving the support they provide to these cohorts of travellers.



Universal Design Autonomous Vehicle People Mover Research



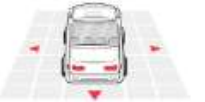

Understand the potential cost-benefit of having an AV universal designed vehicle for individuals, the community and the potential benefits to government's role in service provision.

Insights and experience - Australia

2022 Review of the Disability Standards for Accessible Public Transport (DSAPT)

- The Review aims to consider to the efficiency and effectiveness of the Transport Standards.
- As part of the Stage 2 Reform of the DSAPT a three part report sets to address recommendation going forward.
- A focus on Connected and Automated vehicles in the report highlights areas that require guidelines and standards: vehicle design, monitoring and direct assistance, human machine interface, and operations.

CAV standard gaps across the whole journey (example)

	Pre-journey planning	Journey start and end	PT stop /station	PT Service	Interchange	Disruption to business-as-usual	Supporting infrastructure: wayfinding	Return journey planning
 Vehicle design & route planning				Predictable and accessible			Examples see appendix for full list	
 Effective monitoring and assistance			Safety and anticipation	Safety and assistance	Accessible pathway to connection	Communication and assistance		
 Programmable operations to enhance accessibility			No gap distance from platform	Safe acceleration/ deceleration	Exact position of vehicle	Safe behaviour in emergencies		
 Accessible Human Machine Interaction	Priority seat available?	Start and end accessible? Ramp?	Vehicle location	Hailing, paying, destination setting, halting	Find/book Connection	Emergency communications	Wayfinding	Emergency coms

Next Steps

- Concept Note “Improving Accessibility and Inclusivity in the Use of New and Emerging Transport Technologies”
- Member economies to express co-sponsoring interest.

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