

Changed Conditions Ahead

The transport revolution and what it means for Australians

Michele Huey



STUDY FINDINGS

ANALYSIS OF THE HIGH-CHANGE

Looking beyond the national level, we observed some cities were able to capture participants more effectively than others, resulting in higher participation levels. This is likely due to a variety of factors, including the city's ability to engage with its citizens and the quality of its data collection. We will be looking to learn more about these cities in future studies.

The study also found that high-change areas are more likely to be in urban centers, particularly in the inner city. This is likely due to the higher density of these areas and the higher number of participants living there.

KEY FINDINGS FOR POLICYMAKERS AND PLANNERS

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INTRODUCTION

Electric, autonomous and ride-sharing are among the most innovative products entering the transport marketplace, and will fundamentally change the way Australians travel.

This new wave of transport technology promises to revolutionize the way we travel, offering us the opportunity to experience a more efficient, more sustainable and more enjoyable way of getting from A to B.

Our growing population and increasing urban density are putting pressure on our roads and infrastructure. This growing population and increasing urban density are putting pressure on our roads and infrastructure. This growing population and increasing urban density are putting pressure on our roads and infrastructure.

While many of us have a car, we are also seeing a shift towards more sustainable modes of transport, such as public transport, cycling and walking. This shift is driven by a variety of factors, including the need to reduce our carbon footprint and the desire for a more convenient and cost-effective way of getting from A to B.

\$25 BILLION

THE TRANSPORT REVOLUTION AND WHAT IT MEANS FOR AUSTRALIANS

MELBOURNE ROAD USAGE STUDY REPORT OCTOBER 2016

CONCLUSIONS

Looking for the additional revenue and cost savings that can be realized by the road by embracing these technologies, funding for the road infrastructure is a key consideration for governments in high-growth areas.

Two examples of how the introduction of connectivity and changing modes of travel can be realized:

1. **CONNECTIONS** - Looking for the additional revenue and cost savings that can be realized by the road by embracing these technologies, funding for the road infrastructure is a key consideration for governments in high-growth areas.

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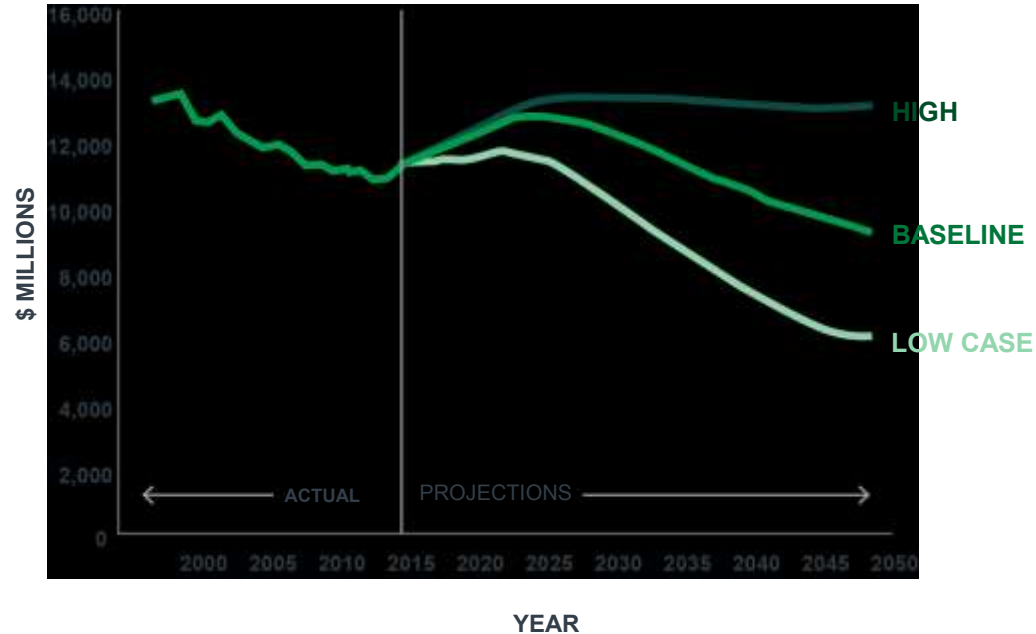
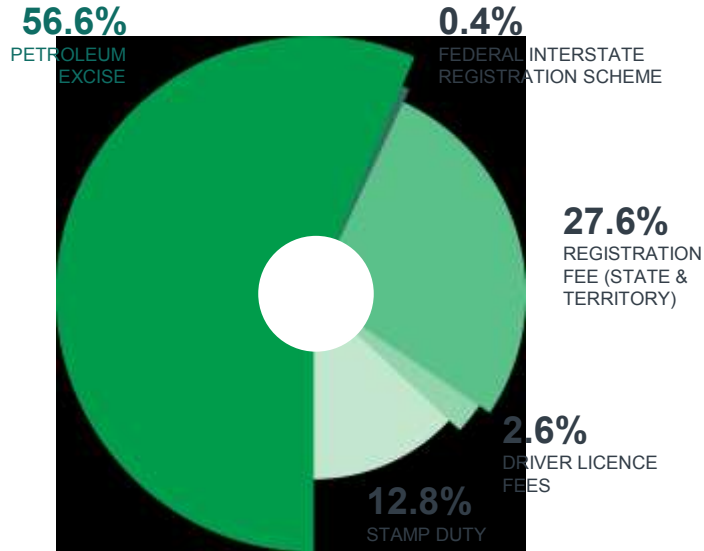
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Case for change

Funding sources under pressure

Fuel excise a major source of road funding...

... projected to decline significantly



Case for change

Increasing congestion

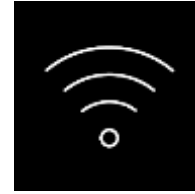




Understand consumer attitudes and preferences towards road charging



Understand behavioural responses to road charging and implementation options



Demonstrate technology is no longer a barrier to implementing a practical user-pays system

1,635

MOTORISTS

1,200,000

TRIPS RECORDED

5,000

SURVEYS



1,000,000,000

DATA POINTS

12,000,000

KILOMETRES RECORDED

4,500

STATEMENTS

Melbourne Greater Capital City



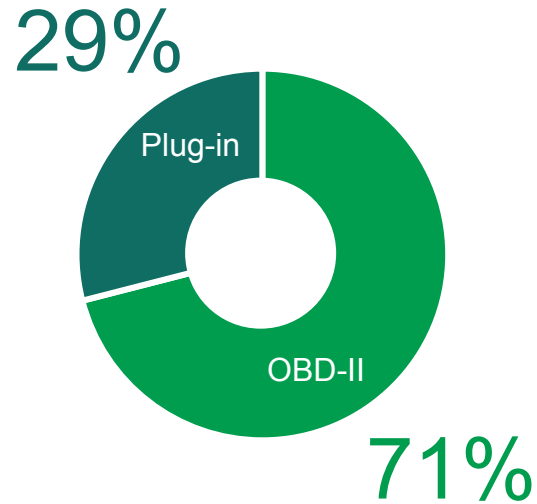
Melbourne Metropolitan Level



Victorian State Level

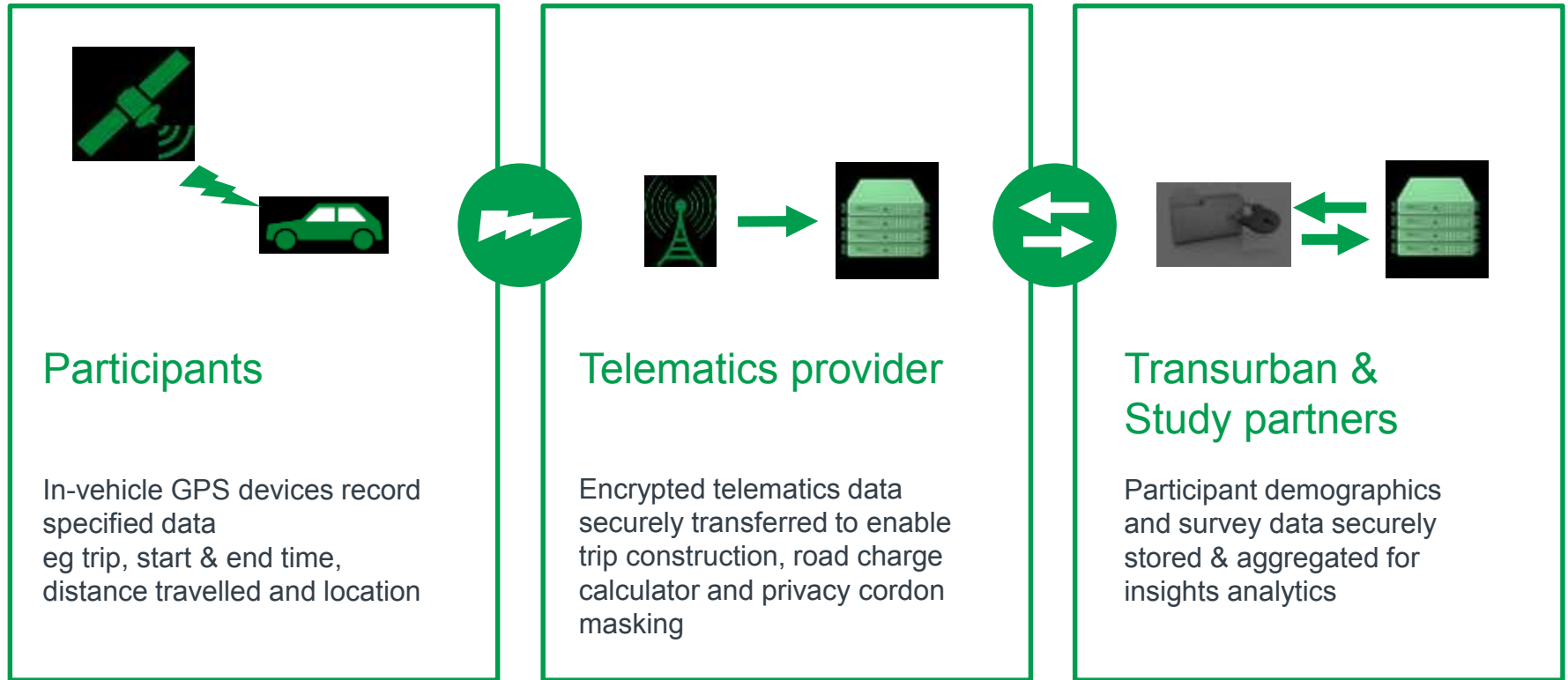


Plug-In GPS Device

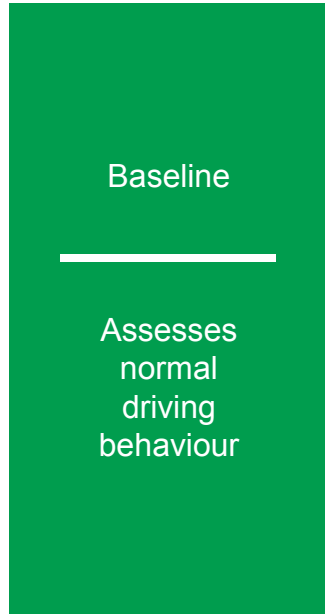


On-Board Diagnostic (OBD) Device

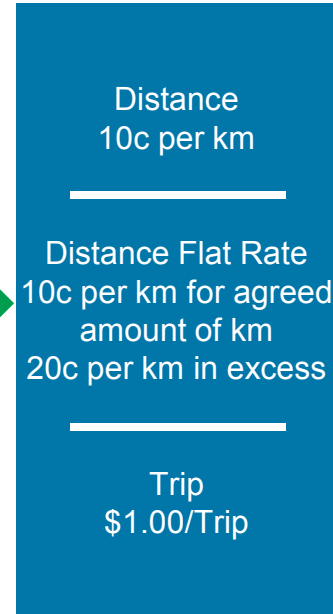




Baseline



Usage

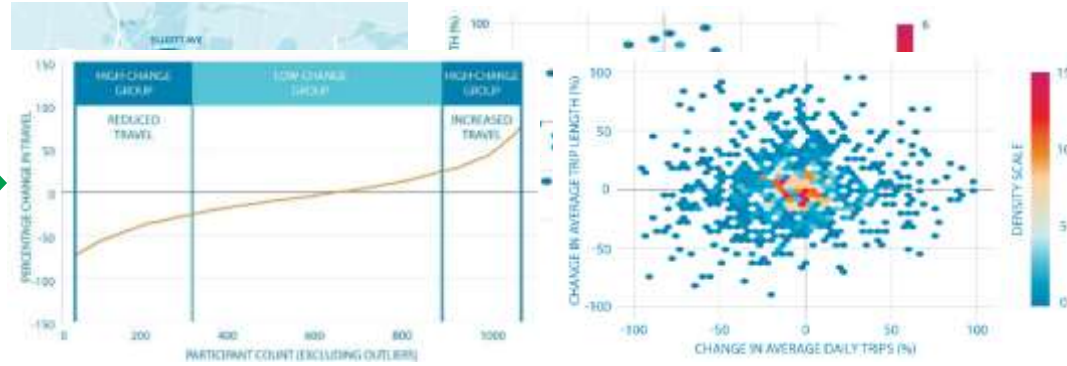


Congestion

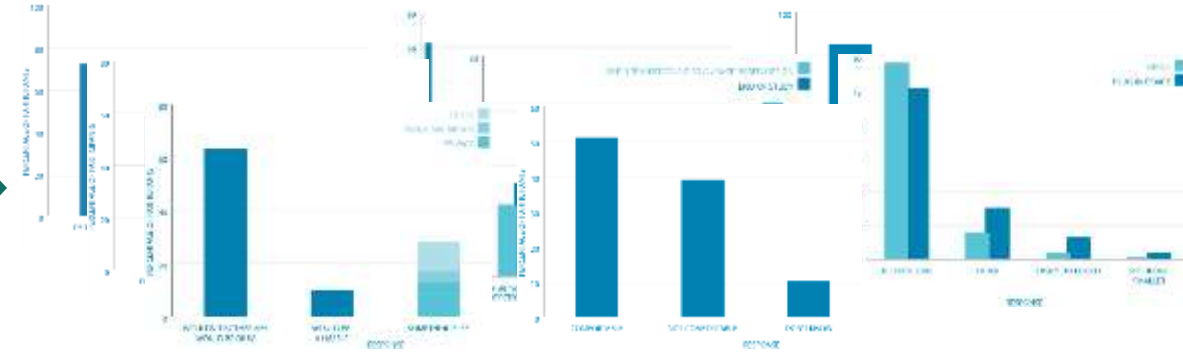
Cordon		
Distance		8c per km
Area movement		\$8 per day
Time of Day		
Distance	Peak	Mon-Fri: 7– 9am and 3–6pm, 15c per km
	Off-Peak	Other times, inc. weekends & public holidays 8c per km

Control Group

Behaviour



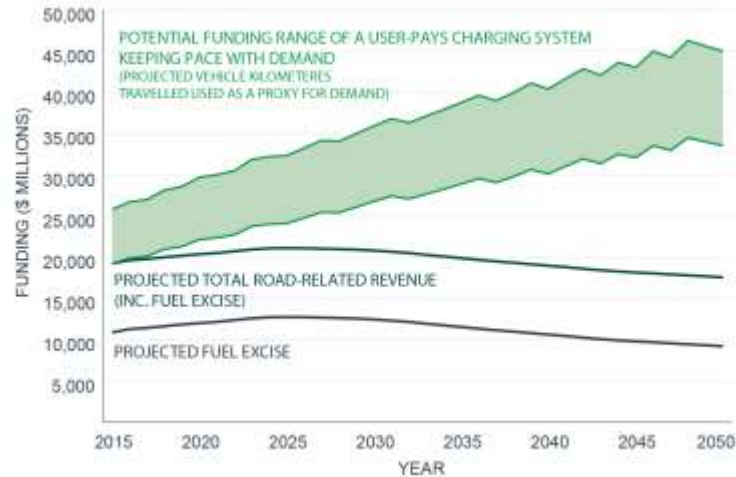
Attitude



Road Usage Study findings

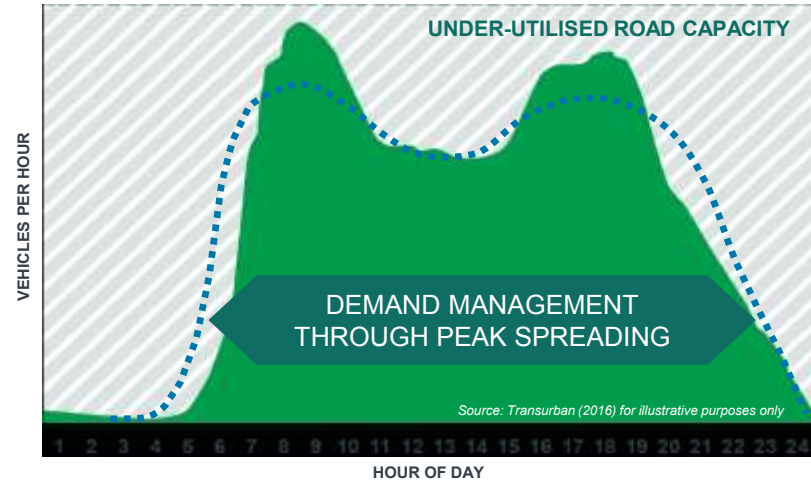
Behavioural response to road user charging

Usage-based charging option



- Participants were open to trying a more direct and transparent way of paying for their road use
- Participants who trialled the usage-based charging options maintained largely consistent travel activities

Congestion-based charging option



Cordon plan

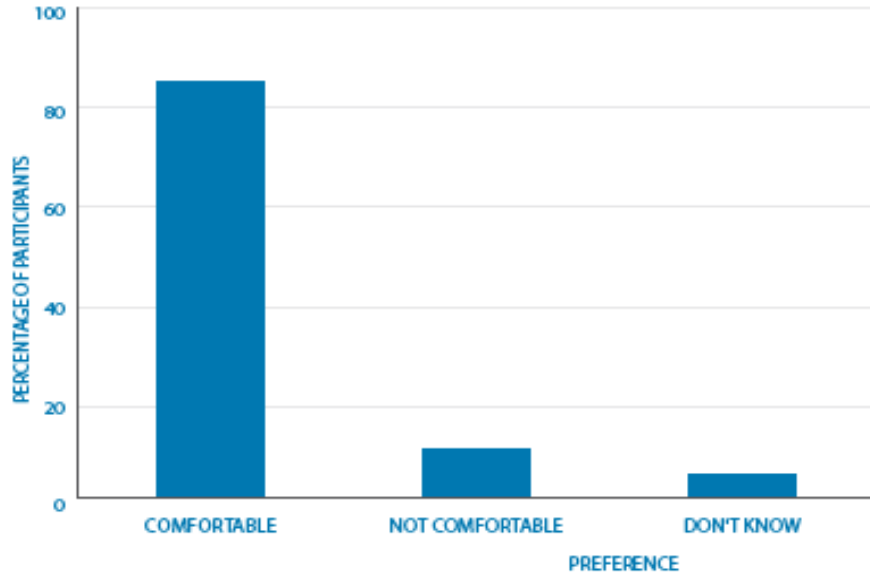


Road Usage Study findings

Participant attitude to different funding options

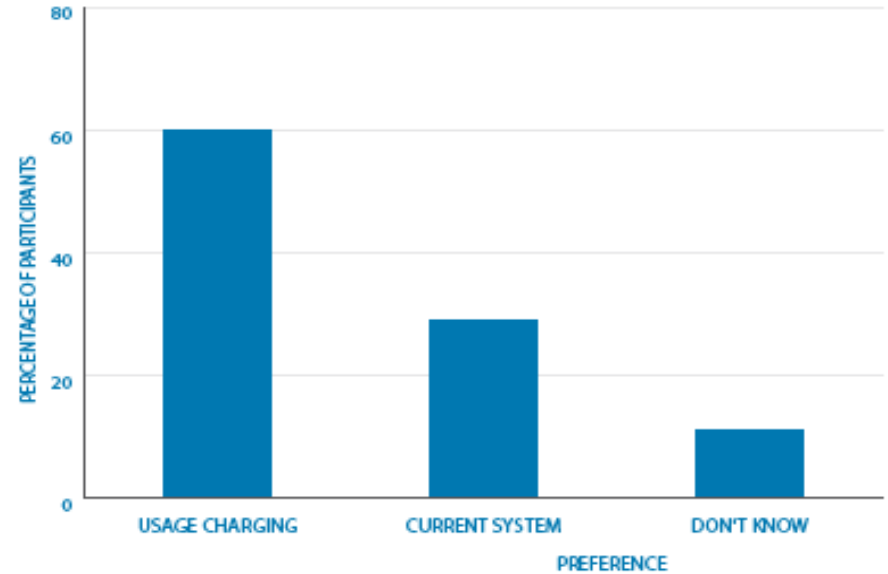
Before:

Participants' comfort with the current system before trialling user pays

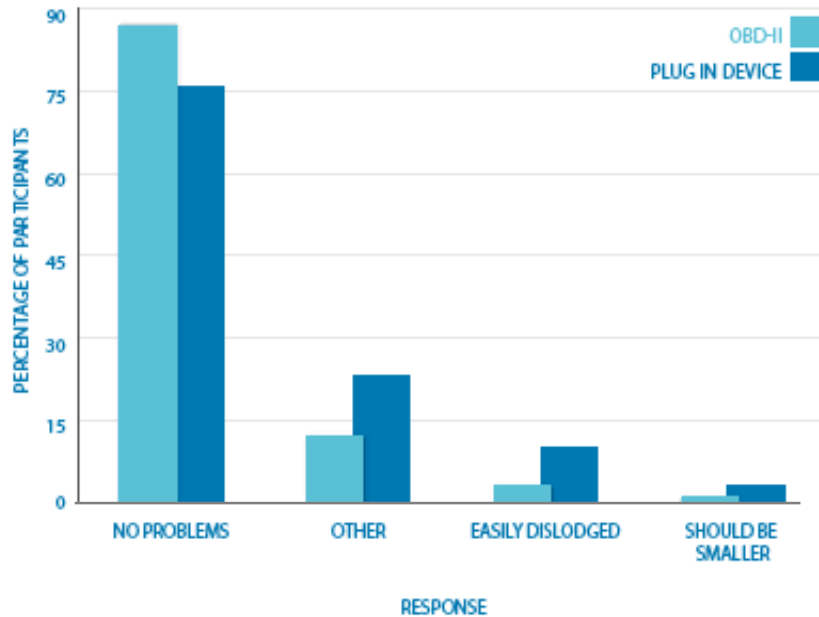


After:

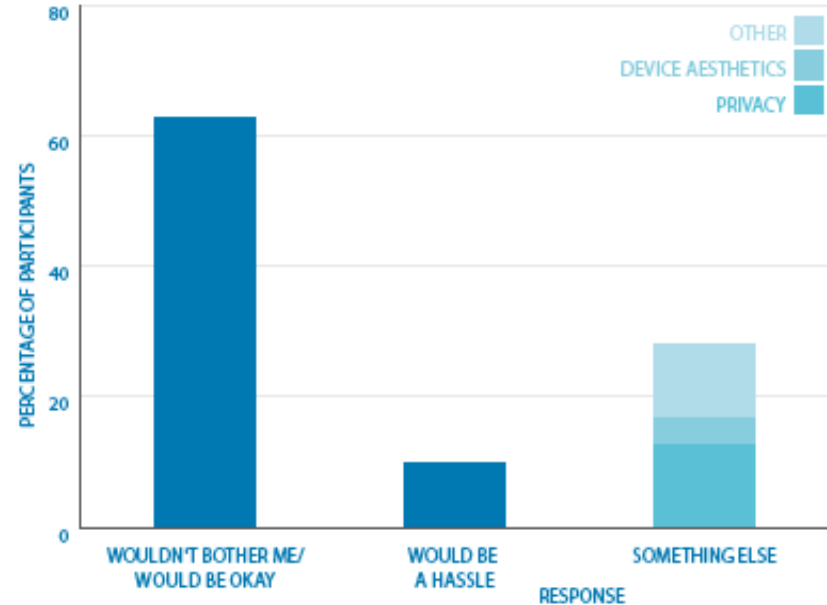
Participants' preference in funding system after trialling user pays



Participants' comfort with the GPS devices used in the study



Participants' thoughts on having the devices in their cars indefinitely

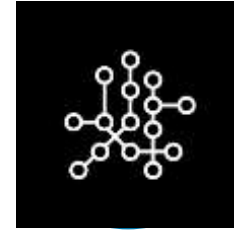




Transparency
& awareness

Choice

Fairness



Technology

Privacy &
information
security

<https://changedconditionsahead.com/>

Transurban

THE SITUATION | THE STUDY | THE RESULTS | MARKET RESEARCH | NEXT STEPS

CHANGED CONDITIONS AHEAD

MELBOURNE ROAD USAGE STUDY: THE TRANSPORT REVOLUTION AND WHAT IT MEANS FOR AUSTRALIANS

1.2 million trips recorded as a part of the study

The study made me more aware of my driving habits, to try and plan my journey a little bit better.
Linda
STUDY PARTICIPANT

Thank You

