



# Preliminary Evaluation of the National Learner Initiative Keys2Drive

Never Stand Still

Science

Transport and Road Safety (TARS) Research, School of Aviation

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# Background – Keys2Drive

- Federally funded AAA initiative to provide free driving lesson to all learner drivers if accompanied by primary supervisory driver
- Commenced pilot trial in Tasmania in 2008, subsequently rolled out to all Australian states and territories
- Aims to enhance supervised driving experience undertaken by learners to improve their safety in high-risk first six months of provisional driving
- Lesson involves educational discussion followed by supervised drive with accredited professional driving instructor
- Supported by interactive website for bookings and additional information for learners, supervisors and driving instructors



# Background – Pilot Study

- Original funding ends 2013
- AAA commissioned preliminary process evaluation and outcome assessment for funding renewal
  - Limited time available
- Aims
  - To determine if lessons delivered in keeping with protocol (process)
  - To determine potential impact on enhanced learner driving experience and increased safety during first six months of P licence (outcome)

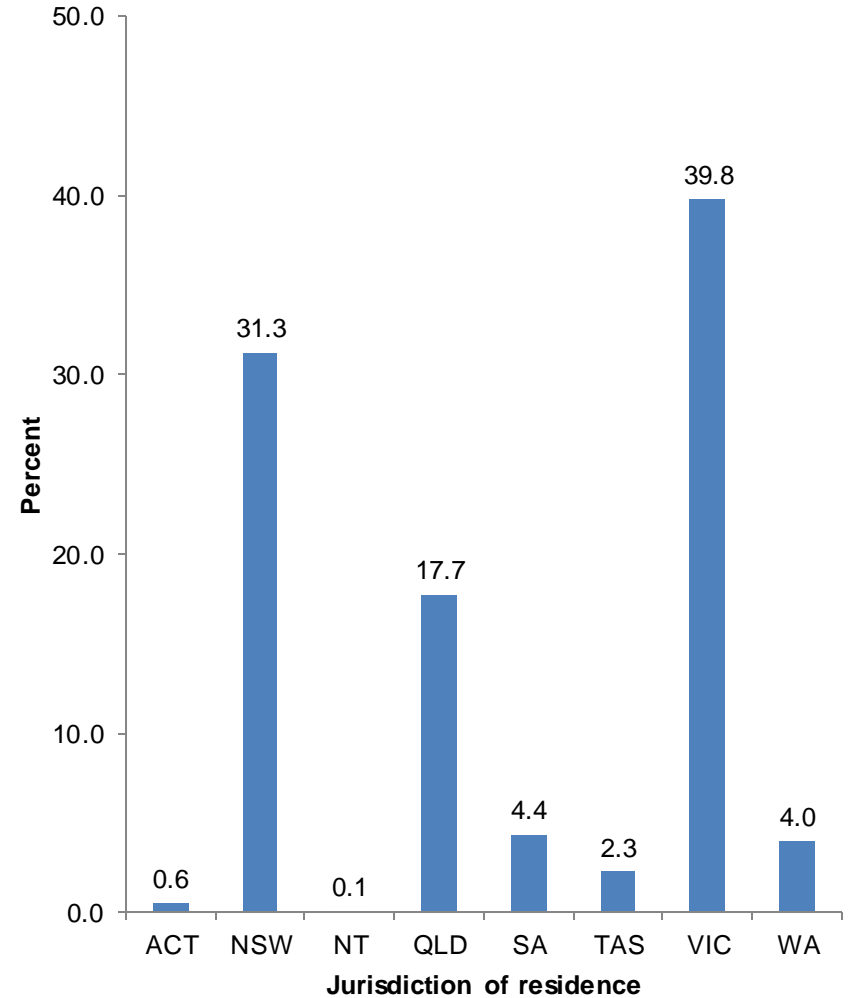
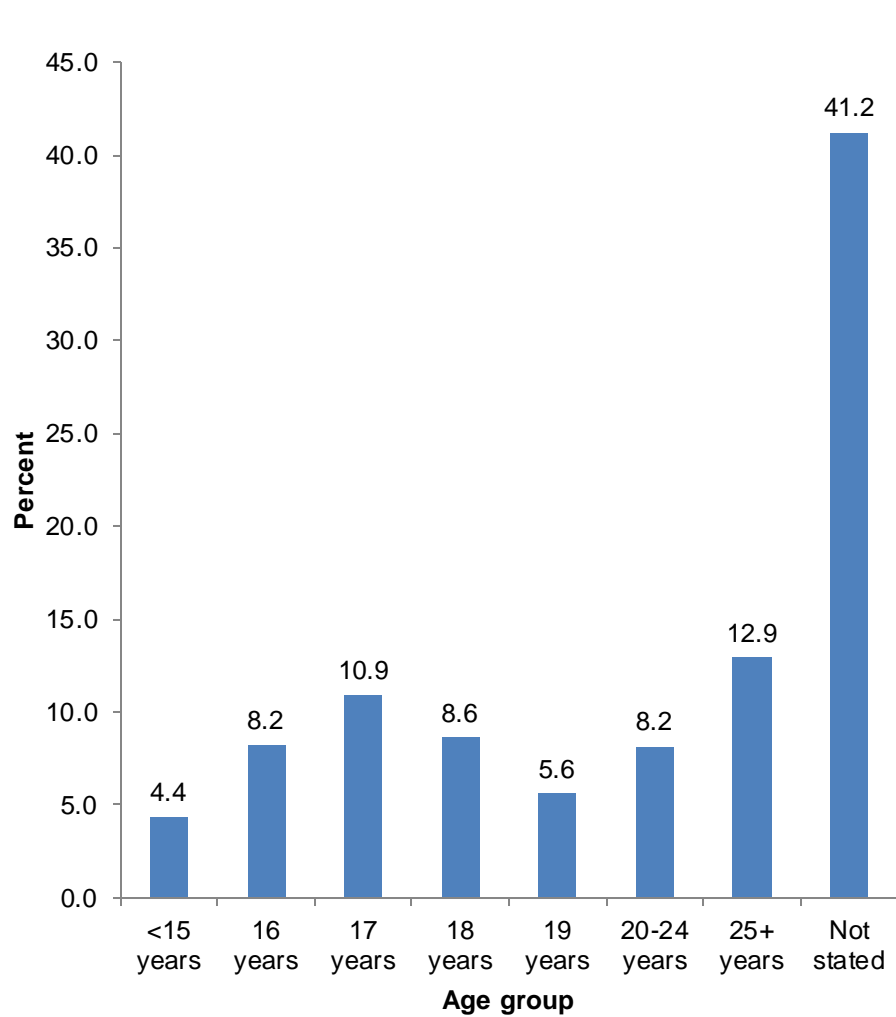


# Methods

- Process evaluation
  - AAA surveys completed in weeks immediately following participation
  - 9,011 learner drivers (7.2% of 125,477 registered)
  - 1,245 supervisors (12.3% of 10,092 registered)
- Outcome assessment
  - On-line survey conducted December 2012 to January 2013 via email invitations to NSW and QLD registered learners
  - 3,301 former learner drivers (42.3% of 7,664/36,616 emails opened)
  - 914 former supervisors (11.9% of 7,664/36,616 emails opened)
  - No control group
  - Responses compared to recent surveys of learner and early provisional driver samples in other Australian studies
    - The DRIVE Study, The George Institute prospective cohort study of 20,000+ new P drivers in NSW
    - Scott-Parker PhD studies, CARRS-Q, cross-sectional studies of ~1,000 Learners and ~400 P drivers in QLD
  - Chance to win iPad mini

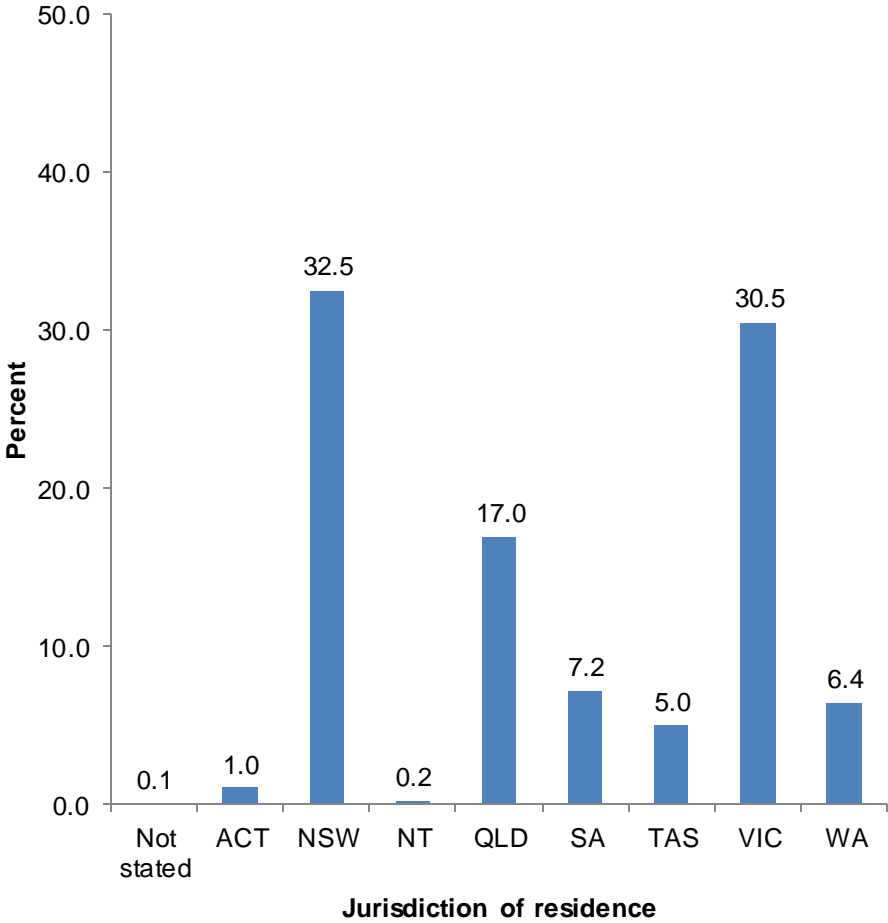
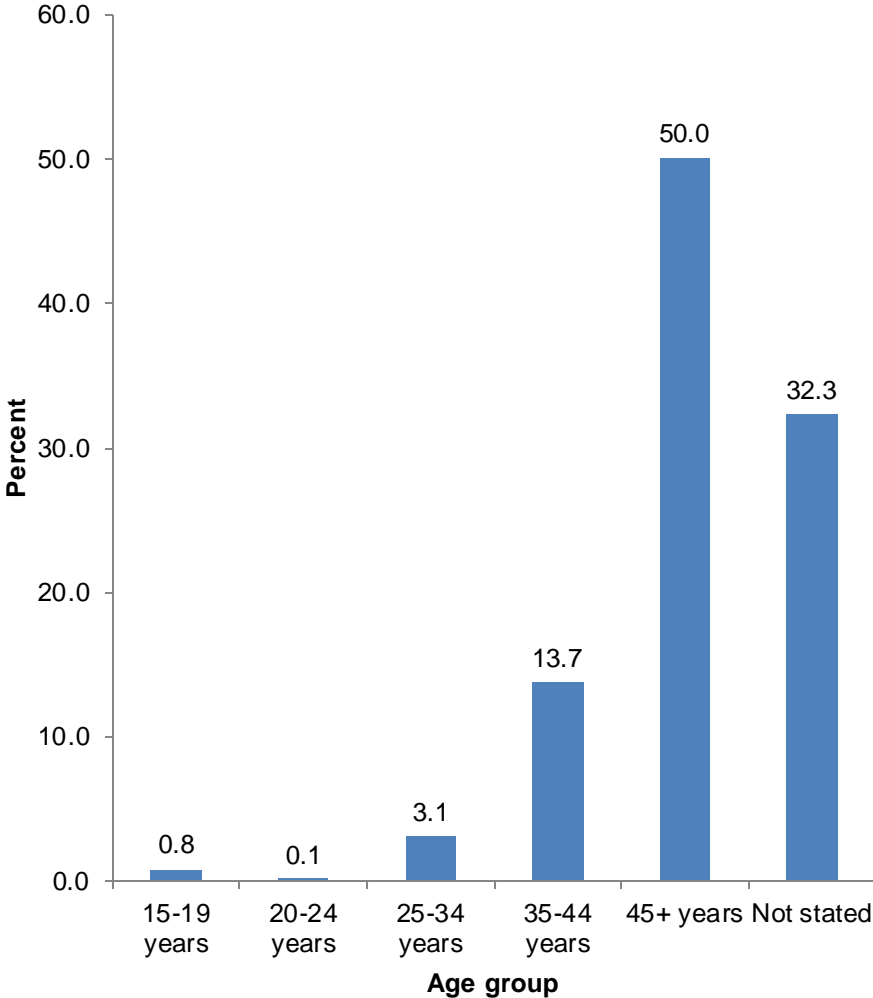
# Results – Process Evaluation (1)

Learners: 24% M, 32% F (44% missing)



# Results – Process Evaluation (2)

**Supervisors: 22% M, 45% F (33% missing)**



## Results – Process Evaluation (3)

Item	Learners	Supervisors
Process to register for lesson on-line 'very easy to follow'	73.9	57.8
Could easily access a free lesson in their area	96.2	94.9
Could access a free lesson within a reasonable time	97.5	96.8
Booking service with driving instructor 'very professional' or 'quite professional'	92.2	93.0
Driving instructor arrived on time	93.9	92.5
Driving instructors 'very well presented' or 'quite well presented'	91.9	95.0
Vehicles 'very clean and good condition' or 'quite clean and good condition'	95.1	91.8
Driving instructors as 'very friendly' or 'quite friendly'	96.6	96.0
Driving instructor explained K2D road map and problems young drivers face 'very well' or 'quite well'	93.1	92.8
Driving instructor encouraged use of road map as a memory prompt and guide 'very well' or 'quite well'	90.0	89.4

# Results – Process Evaluation (4)

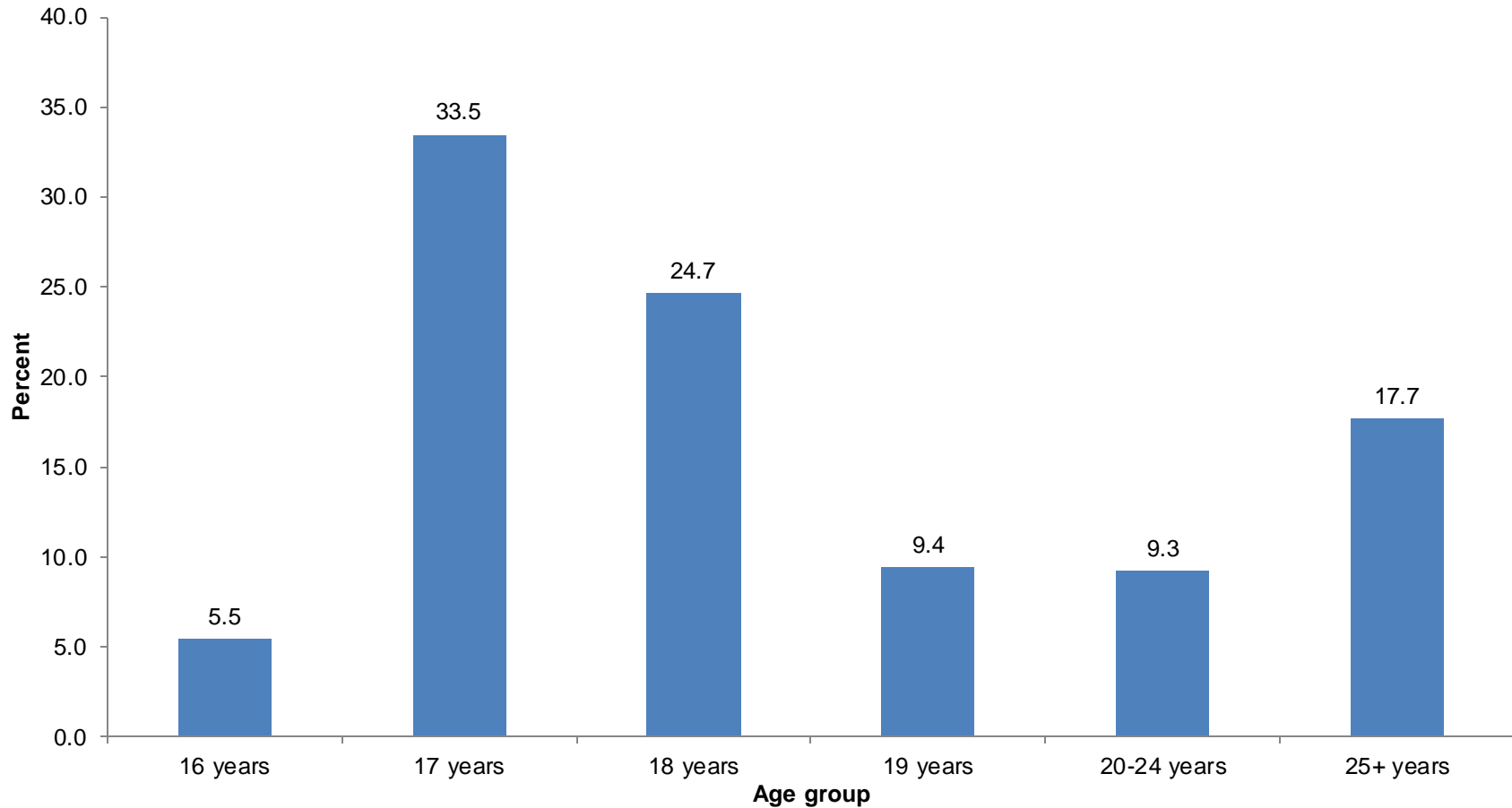
Item	After K2D M (SD)	Before K2D M (SD)	Mean difference	Wilcox rank test
How much did you know about the risks beginning drivers face immediately they get their P's?	4.4 (0.7)	2.8 (1.1)	1.6	p<.0001
How was your understanding of how long, wide, and deep learning experience on L's can help you be much safer on P's?	4.3 (0.7)	2.6 (1.1)	1.7	p<.0001
How was your commitment to get long, wide, and deep learning experience on L's?	4.5 (0.7)	3.2 (1.2)	1.4	p<.0001
How was your commitment to achieve 6 months on P's with zero harm as a good foundation for lifelong safe driving?	4.7 (0.6)	3.7 (1.3)	1.0	p<.0001
How was your knowledge of what you can do to get more information and support?	4.2 (0.8)	2.5 (1.1)	1.7	p<.0001



# Results – Outcome Assessment (1)

Learners: M 44%, F 56%

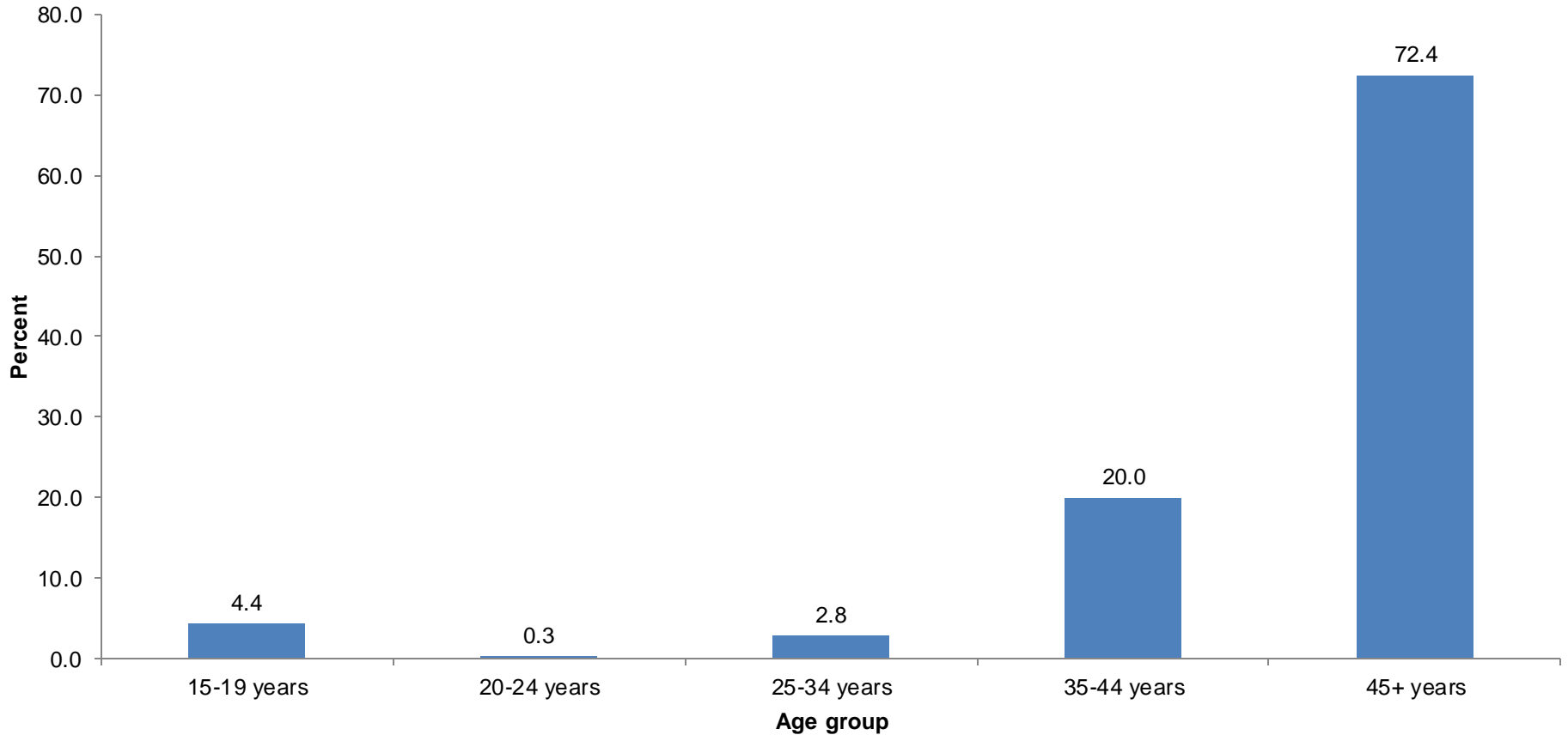
NSW 55%, QLD 33%, interstate 1%, unknown 11%



# Results – Outcome Assessment (2)

Supervisors: M 25%, F 75%

NSW 57%, QLD 34%, interstate <1%, unknown 9%



## Results – Outcome Assessment (3)

Item	Value	K2D	QLD	NSW
Months on Ls	<6 6-11 12-17 18-23 24+	4.4 5.1 53.8 9.5 11.6	M = 16.7 (SD = 5.7)	38.3 35.8 25.9
Learned to drive	Beginning Ls Throughout Ls End Ls	12.0 63.1 12.8	10.9 34.6 54.5	
Main supervisor	Parent Instructor	66.7 11.0	88.4 4.5	
Logbook experience	Hours M (SD)	126.0 (35.7)	109.6 (25.4)	
Professional instructor experience	Hours M (SD)	12.3 (17.4)	9.7 (11.1)	
Offence on Ls	Yes	1.5	2.6	
Crash on Ls	Yes (One crash) (Two crashes) (Three crashes)	1.4 (61.3) (12.9) (3.2)	2.5 (88.2) (11.8) (0.0)	2.7
Ps on first attempt	Yes	56.0	68.5	65.0

## Results – Outcome Assessment (4)

Item	Value	K2D	QLD	NSW
Bend road rules on Ps	Unlikely	86.6	64.8	
	Unsure	0.0	19.3	
	Likely	13.4	15.9	
Drove listening to music	Very often/often	52.9		42.3
Drove 2+ passengers night/day	Very often/often	29.2/11.3		47.6
Drove 70kmh in 60 zone	Very often/often	3.6		21.2
Drove fast for thrill	Very often/often	1.9		7.2
Follow close to slow driver	Very often/often	1.4		5.3
Drive while texting	Very often/often	1.1		2.8
Sped up when being passed	Very often/often	1.0		3.9
Drove while on mobile	Very often/often	1.0		2.6
Took risks to make fun	Very often/often	0.9		3.7
Honked/flushed lights in anger	Very often/often	0.9		3.4
Burnouts/donuts/skids for fun	Very often/often	0.5		3.3
Raced/drag raced for fun	Very often/often	0.4		3.0
Drive without seat belt	Very often/often	0.3		0.4

## Results – Outcome Assessment (5)

Item	Value	K2D	QLD	NSW
Drove after alcohol on Ps	Never	75.4	87.8*	93.4**
	Once or twice	0.8		
	Three+ times	0.1		
Drove after marijuana on Ps	Never	75.4*	97.4***	96.8**
	Once or twice	0.8		
	Three+ times	0.3		
Offence on Ps	Yes	2.4	11.8	32.5
Crash on Ps	Yes	4.5	9.6	9.9
	(One crash)	(81.6)		
	(Two crashes)	(9.7)		
	(Three crashes)	(1.0)		

\* Drove when thought you may have been over the legal alcohol limit

\*\* Past 4 weeks only

\*\*\* Drove after taking an illicit drug such as marijuana or ecstasy



# Limitations

- Unknown distribution of AAA surveys but very low response rate
- Less than half of former learners opening email completed on-line survey
- Unknown how many supervisors available or invited to respond to on-line surveys yet response rate low
- Missing data in demographics to compare to non-responders
- Unknown if K2D participants more safety-oriented and further if more safety-oriented participants completed survey
  - However, self-report found to be accurate and reliable in this field
  - Some poor behaviours still reported as high and comparison samples also subject to same biases
- Generalisability unknown



# Conclusions

- High concurrence between learners and supervisors
- Very high rates of satisfaction with K2D program, processes and instructors
- Significant improvements in understanding of key learning concepts targeted by K2D immediately following participation
- Based on comparison to other Australian surveys, K2D learners:
  - + had better structured and extended Learner period
  - + were less likely to undertake several risky driving behaviours on Ps
  - + had fewer crashes and offences on Ps
    - - of those who crashes, more had multiple crashes
  - - were less likely to get Ps on first attempt
  - - were more likely to drive listening to music
  - - were more likely to drive after alcohol, marijuana (one-quarter)
- Results seem promising but controlled prospective study needed



# Acknowledgements

- Australian Automobile Association
- Department of Infrastructure and Transport
- National Health and Medical Research Council (salary support)
- CARRS-Q

## On-line report

- Keys2drive website 'News' tab
- AAA website search for keys2drive



The screenshot shows the Keys2Drive website interface. At the top, there is a blue header with the 'KEYS 2 DRIVE' logo (a key, the number 2, and a steering wheel) and navigation links for 'LIKE US', 'SUBSCRIBE', 'Email', and 'SIGN IN'. Below the header is a navigation bar with links for 'GAMES', 'GET YOUR FREE LESSON', 'FIND AN INSTRUCTOR', 'Search Site', and 'SEARCH'. The main content area features a breadcrumb trail: 'Home > News > keys2drive TARS Report'. The article title is 'keys2drive Evaluation of the Impact of keys2drive on Provisional Driver Safety', with a link to the 'Full Report'. A social media widget shows '7 people like this. Sign Up to see what your friends like.' To the left of the article is a photo of three young women and a blue box with the text 'Coalition commits to refund'. To the right is a promotional banner for 'REGISTER NOW FOR YOUR FREE LESSON' featuring a young man and woman.