A theoretically-based cross-cultural comparison of public acceptance of, and intentions to use, automated vehicles

- Over 1,706 drivers from Australia, France, and Sweden completed an online survey.
- Survey explored individuals' a priori acceptability of, and intentions to use, private and shared Level 4 high automation vehicles (AVs) when they become publicly available.
- Initial findings indicate differences in respondents' intentions to use AVs across Australia, France and Sweden.
- Some similarities in predictors of intentions to use private and shared AVs were found, however differences existed in the critical beliefs which significantly influence intentions to use AVs and which may provide insights into key foci for public education messaging regarding private and shared AVs.
- Journal publications and conference presentations will be disseminated.

**iMOVE C-ITS PILOT FIELD OPERATIONAL TEST AND EVALUATION**

- The first phase of testing conducted in Brisbane was to provide insight into the capability of a specific in-vehicle ITS to produce accurate and timely Cooperative Awareness Messages (CAMs).
- CAM data recorded consistent speed changes and significant points of change in acceleration, which accorded with real time movements.
- These findings will inform the installation and use of V-ITS-S in the Ipswich Connected Vehicle Trial from late 2019.

**Mitigating signal colour-misconceptions from prescription lenses worn by train drivers**
• Observations were made at a red light signal next to a rail track near Townsville.
• Observations of the red signal were carried out at different times of day, with a range of filters of various colours, and with refractive blur.
• It was found that the red signal could be misperceived as yellow at distances between 400 and 900 meters to the signal, with refractive blur between .7 and 1.2.
• We will now study this phenomenon comprehensively in a laboratory setting with a larger sample of participants.

CYCLE AWARE: DRIVING WITH BIKES

• Bicycle-motor vehicle (BMV) crashes involving novice (under 25 years) and experienced drivers in VIC, QLD & SA were compared.
• Young drivers were involved in three crash situations relatively more frequently than experienced drivers: 1) after 6pm, 2) negotiating with a cyclist leaving a footpath (QLD) and 3) turning right across the path of another unit travelling straight ahead (VIC).
• Investigators recommended the introduction of high quality content concerning cyclist vulnerability, variation (e.g. age and experience) and the effects of road conditions on cyclist behaviour and safety be included in all Australian States’ and Territory’s learner driver systems.
• Following analysis of driver licensing materials in NT, SA, QLD, NSW & VIC and focus group feedback, the Cycle Aware Module will be available for use in early 2019.

CARRS-Q INforms QLD Curriculum

Health is a subject currently offered to year 11 and 12 students in more than 140 Queensland schools. The 2019 Health Senior Syllabus published by the Queensland Curriculum & Assessment Authority (QCAA) now includes Road Safety as an elective topic within Unit 3: Community as a resource for healthy living.

During November, the Australian Council for Health, Physical Education & Recreation (ACHPER) and QUT jointly hosted professional development for Senior Health teachers to support this syllabus unit. CARRS-Q delivered a session at the Senior Health Masterclass event to help teachers identify key priorities for their curriculum development and considerations for student implementation of community action research projects.

CARRS-Q receives a Prince Michael International Road Safety Award

Our postgraduate education program was awarded in recognition of its outstanding contribution to improving road safety by educating future road safety professionals.
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1st Quartile Publications 2018

Understanding the psychological precursors of young drivers' willingness to speed and text while driving

Applying a random parameters Negative Binomial Lindley model to examine multi-vehicle crashes along rural mountainous highways in Malaysia

Factors influencing noncompliance with bicycle passing distance laws

Psychosocial factors associated with intended use of automated vehicles: A simulated driving study

Young drivers and their cars: Safe and sound or the perfect storm?

Driving behaviour while self-regulating mobile phone interactions: A human-machine system approach

Selecting anti-speeding messages for roadside application

A critical review of proactive detection of driver stress levels based on multimodal measurements

Validation of a driving simulator study on driver behaviour at passive rail level crossings

Smart and green ACC: Energy and safety optimization strategies for EVs

Overloading among crash-involved vehicles in China: Identification of factors associated with overloading and crash severity

Do people with intersecting identities report more high-risk alcohol use and lifetime substance use?

Using Facebook for health promotion in “hard-to-reach” truck drivers: Qualitative analysis

Comparison of self-report and objective measures of driving behaviour and road safety: A systematic review

Drivers who don’t comply with a minimum passing distance rule when passing bicycle riders

Higher order cycling skills among 11 to 13-year-old cyclists and relationships with cycling experience, risky behaviour, crashes and self-assessed skill
Do Australian drivers give female cyclists more room when passing?

Perception of road hazards in a Tanzanian Secondary School before and after a traffic psychology intervention

Should I text or call here? A situation-based analysis of drivers’ perceived likelihood of engaging in mobile phone multitasking

Is it safe to cross? Identification of trains and their approach speed at level crossings

Contextual factors explaining risk-taking intentions at Australian level crossings

The road user, the pedestrian, and me: Investigating the interactions, errors and escalating risks of users of fully protected level crossings

A mixed-methods study of driver education informed by the Goals for Driver Education: Do young drivers and educators agree on what was taught?

"you can’t be deterred by stuff you don’t know about": Identifying factors that influence graduated driver licensing rule compliance

Crash severity along rural mountainous highways in Malaysia: An application of a combined decision tree and logistic regression model

Prevalence of alcohol among nonfatally injured road accident casualties in two level III trauma centers in northern Ghana

Young females’ attention towards road safety images: An ERP study of the revised reinforcement sensitivity theory

The sex disparity in risky driving: A survey of Colombian young drivers

Women judging: Is a young male drunk driver perceived as more negligent than a young female drunk driver?

Getting away with texting: Behavioural adaptation of drivers engaging in visual-manual tasks while driving

Cycling related content in the driver licensing process

Deterrence of drug driving: The impact of the ACT drug driving legislation and detection techniques

A qualitative examination of drivers’ responses to partially automated vehicles

A mixed effects negative binomial analysis of road mortality determinants in Sub-Saharan African countries

Research on prediction methods for motor vehicle driver training demand based on an S-curve

Peer passenger intentions to speak up to a risky driver: A theoretically-guided investigation of the effects of a high school road safety education program
The influence of social factors and personality constructs on drink driving among young licenced drivers