

EXPRESSIONS OF INTEREST

LITERATURE REVIEW OF FATIGUED DRIVING RESEARCH & ASSESSMENT OF POLICY LANDSCAPE

CONTEXT:

Every month 100 Australians die on our roads, and every day the same number are hospitalised for road crash-related injuries. Every year road trauma costs the national economy almost \$30 billion and brings tragedy into the lives of thousands of Australians. Road safety is a national crisis that demands real leadership, collaboration and solutions.

In September 2019, Australia's motoring clubs, as represented by the Australian Automobile Association (AAA), launched the AAA Road Safety Research Program (the Program) in response to this national crisis. The Program will make significant investments in research to identify solutions that focus on addressing key road safety issues. The Program supports research and translation activities that deliver tangible benefits for road users and the wider community and have a strong potential to prevent road fatalities and injuries on Australian roads.

In its inaugural year, the Program is investing in research into matters relating to **fatigued driving**.

EXPRESSIONS OF INTEREST INVITED:

To support the Program, the AAA is commissioning a foundational piece of work to scope the fatigued-driving literature and policy landscape/s that will include:

1. a thematic review of the international literature (accessing academic and high-quality grey literature) relevant to fatigued driving (covering the period 2000 to 2020);
2. the identification, comparison and assessment of the efficacy of any fatigued driving legislative / regulatory / policy frameworks that currently operate either in Australian jurisdictions or comparable overseas countries (for heavy and light vehicles);
3. the identification of recent fatigued driving countermeasures in Australia (covering the period 2010 to 2020) and an assessment of any evaluations of such measures;
4. a list /summary table of key researchers / research organisations in Australia and comparable overseas countries that are working in the area of fatigued driving and their affiliations and areas of expertise.

The work is to be finalised by **5pm, Monday 28 September 2020**. The AAA is inviting expressions of interest from researchers with extensive experience in this field. Expressions of interest are to be received by the AAA at the email address: research@aaa.asn.au. Expressions of interest **must** be received by **9am (AEDT) 6 April 2020**.

Expressions of interest must include:

- details of the research team member/s, their areas of expertise and role/s in the review;
- approach to the work (including methodologies);
- timeframes, milestones and costs;
- quality assurance processes; and

- details of at least two referees, including one from industry, who may be contacted by the AAA before commissioning the work to verify the expertise of the lead researcher/s and their ability to deliver high-quality work on time and on budget.

Broadly, the AAA seeks to understand what is known about the extent of fatigued driving, what legal and policy frameworks are effective, what factors contribute to fatigued driving, what countermeasures are effective in preventing fatigued driving (and why), and how can fatigued driving best be prevented?

The scope of work should specifically cover, but should not be limited to, the following concepts:

Part 1: Literature Review

- Estimates from the international body of research about the number of fatigue-related crashes in Australia and internationally, including how to identify fatigue crash ‘hot spots’, and the barriers to identifying fatigue-related crashes.
- Assessment from the international body of literature about whether there are at-risk groups for fatigued driving (e.g., young drivers, shift workers) and why?
- Assessment from the international body of literature of the effectiveness of interventions (including but not limited to technology-based interventions, behavioural-based interventions, and infrastructure-based interventions) to manage fatigued driving.
- Assessment from the international body of literature of the effectiveness of fatigue management policy and arrangements for different workforces.
- Assessment from the international body of literature of the effectiveness of fatigued driving advertising campaigns (noting that not all advertising is based on evidence / research).
- Assessment from the international body of literature of whether drivers recognise they are driving while fatigued, as well as if and why they continue to drive when they know they are fatigued and what strategies they employed to mitigate fatigue.
- Does the international body of literature identify any learnings from fatigue management in the heavy vehicle industry or other industries that could be relevant for light vehicle fleets?
- Identification of any gaps in perspectives that are not covered in the international body of literature.

Part 2: Snapshot of current legislative / regulatory and policy frameworks

- The identification and comparison of any fatigued driving legislative / regulatory / policy frameworks that currently operate in Australian jurisdictions and comparable overseas countries (for heavy and light vehicles) including:
 - if, how and to what extent they have been evaluated; and
 - from those evaluations (if any), their efficacy.

Part 3: Snapshot of recent fatigued-driving countermeasures

- The identification and comparison of recent countermeasures implemented in Australia and comparable overseas countries including:
 - if, how and to what extent they have been evaluated; and
 - from those evaluations (if any), their efficacy.

PARAMETERS:

Inclusions:

Part 1:

Academic literature and high-quality grey literature are both within scope. In the final report, the search strategy used is to be specified and must include search terms used and databases accessed.

Parts 2 and 3:

Stakeholder engagement including but not limited to state and territory road authorities, the AAA and its member clubs, industry associations as well as safety and regulatory bodies are within scope.

Output:

A detailed report is to be supplied. The target audience is the AAA and its member clubs. Citations in the report should be in American Psychological Association (APA) 6th or 7th. Endnote is to be used. The relevant Endnote library generated is to be shared with the AAA.

Contracting:

The contract will be between the AAA and the preferred supplier.

Ownership of intellectual property:

Intellectual property created in this project will be jointly owned by the contracting parties. Each party will grant to the other party a non-exclusive, irrevocable, non-transferable, royalty-free perpetual licence to use and publish the intellectual property. The AAA does not anticipate publishing the material in a peer-reviewed journal or similar, but strongly encourages the preferred supplier to do so in collaboration with the AAA.

Acknowledgements:

The preferred supplier must ensure that AAA funding and support of the review is properly acknowledged anytime during or after completion of the project, where materials or outputs are produced from the project. Likewise, the AAA will appropriately acknowledge the preferred supplier as the author of the work.

Information Session:

The AAA is hosting an information session for interested parties in the week of 23 March 2020 (details will be published on the AAA's website). The information session will focus on working with the AAA, the AAA's expectations, contracting, reporting requirements, and will provide an opportunity for interested parties to clarify any aspect of this expression of interest.

CONTACT:

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