



## Request for Proposal (“RFP”)

**Topic:** ADAS and Automation Safety Considerations Beyond the Original Purchaser

**Posting Date:** September 20, 2023

**Sponsoring Organization:** AAA Foundation for Traffic Safety (“AAAFTS”)

**Deadline to Submit Proposal:** Wednesday, November 1, 2023, 5:00 PM EDT

### **Background and Purpose**

AAAFTS is seeking a research organization (“Consultant”) to examine safety considerations for advanced driver assistance systems (ADAS) and partial vehicle automation technologies that may be particularly relevant when considering vehicle users beyond the original purchaser of the vehicle.

Advanced technology and vehicle automation are becoming more and more prevalent in vehicles, offering drivers new and enhanced safety and accessibility features. However, past research has raised concerns over driver understanding and appropriate use of these technologies.

Much of the research on ADAS and partial vehicle automation has focused on drivers who are initially exposed to the technology through an experimental protocol or on vehicle owners who bought their vehicles new. However, there could be safety concerns specific to drivers who do not acquire their vehicle new from an OEM dealer. These technologies are rapidly entering the used car market, which is potentially important, as nearly three quarters of all vehicle sales are of used vehicles. Equally important, roughly 40% of drivers in fatal crashes are driving a vehicle they do not own, a statistic that underscores the importance of considering other drivers of vehicles besides original purchasers and registered owners.

### **Objectives**

The objectives of this project are to:

- Identify and synthesize existing literature regarding ADAS and vehicle automation that is specific or directly applicable to (a) the used car market and/or to (b) drivers other than the owner/purchaser (e.g., drivers of borrowed or rented vehicles). This is not intended as an exhaustive synthesis of the entire body of knowledge concerning road vehicle automation.
- Distill key issues, barriers, and safety considerations that are germane to

used/borrowed/rented vehicle scenarios. This might consider issues including but not limited to education/training about the technology, driver understanding of differences in the function and limitations of potentially dated technology versus current-generation systems, as well as safety-relevant aspects of maintenance such as sensor calibration and software updates.

- Conduct scoping research to establish the extent to which drivers of secondhand vehicles or rented/borrowed vehicles differ from the original owner/purchaser in terms of safety outcomes and/or other key constructs or issues identified in the previous objective.
- If results pursuant to the above objectives warrant, identify and prioritize recommended actions to be taken by other traffic safety stakeholders to mitigate any safety concerns identified.

### **Method**

The AAA Foundation envisions that the objectives of this research could be met through multiple methods utilizing a variety of research tools, including but not limited to literature review and synthesis, analysis of crash data, surveys, or qualitative research. The AAA Foundation envisions that a project of the intended scale would likely take approximately 12–18 months to complete.

### **Uses**

It is AAAFTS' express intention to (i) obtain a non-exclusive, royalty-free license in perpetuity to the output and contents of the Research Project, and (ii) be the first party to publish findings from the Research Project on its website and other media channels. After AAAFTS' initial release, Consultant may publish, use or disseminate the materials obtained or derived from the Research Project in coordination with AAAFTS. Consultant agrees to acknowledge AAAFTS as the sponsor in any publications. AAAFTS agrees to list the Consultant and individual researchers as authors.

### **Proposal Format & Requirements**

Your proposal must meet the following formatting requirements:

- Use standard letter-sized page (8.5 x 11 inch), with at least one-inch margins on all sides.
- All text should be single-spaced.
- Body text should use font no smaller than 12-point; footnotes and text inside of tables should use font no smaller than 10-point.
- The body of the proposal must not exceed five (5) pages (excluding title page, CVs, appendices, and budget material).
- Please submit the proposal as a PDF.

Proposals shall include the following elements. Failure to follow these instructions may result in disqualification:

## 1. Title Page

- Title of the proposal.
- Names and affiliations of all investigators.
- Address, telephone number, and email of the primary investigator and/or the individual to whom correspondence regarding the proposal is to be addressed.
- An abstract, not exceeding 300 words.

## 2. Main Body

The body of the proposal shall be no longer than five (5) pages (not including title page, CVs, appendices, or any budget information) and should contain the sections listed below.

- Objectives
- Approach: Proposals should provide detailed description of the proposed project tasks and methods, the expected results and output, and potential limitations. When applicable, proposals must describe how subjects or respondents will be identified and recruited.
- Timeline and Supporting Environment: Describe the project timeline, where the activities will take place, and what facilities and resources will be used (if applicable). Present all timelines in terms of project month. Note that actual dates will be determined at the contract agreement stage. Timeline should include significant milestones, final report and other anticipated products or project outputs.

## 3. Project Budget

Please state the total budget request (including indirect costs as applicable) at the end of the proposal body. Please include a detailed budget including indirect costs as an Appendix. Proposals may provide multiple options for study designs that differ in scale and budget.

For awarded contracts, invoices should be based on actual expenses linked to project deliverables. Progress reports will be required. All travel requests should be documented and justified. Conference travel may or may not be justifiable depending on the purpose and scope of work.

AAAFTS is a charitable entity and is not committed to matching the indirect cost rates of the U.S. government or other entities. However, universities and organizations can request a limited amount of indirect costs. Current maximum allowable rates are:

- 0% rate for government agencies, other private foundations, and for-profit organizations;
- Up to a 20% rate for U.S. universities, U.S. colleges; and
- Up to a 25% rate for non-governmental organizations (NGOs).

Rates and limitations apply to both the primary applicant and any subcontractors. Each respective organization may receive indirect costs up to the rate applicable to their

organization. A contractor with an actual indirect cost rate lower than the maximum rate provided above should not increase the funding request to the maximum allowed.

#### 4. CVs or Resumes for Key Project Staff

##### Other Suggestions

The body of the proposal should be self-contained; it should be able to be understood by a reviewer without any supporting appendices.

Proposal reviewers are knowledgeable about scientific methods, data analysis, and most major traffic safety topics. As such, technical details related to the tasks and method should be prioritized over background information.

##### Evaluation Criteria

Proposals are assessed based on three criteria: (1) *innovation*, (2) *approach*, and (3) *team experience and supporting research environment*:

*Criterion 1: Innovation (weight: 20%):*

Does the applicant propose novel theoretical concepts, methods, instrumentation, or interventions? Is the proposed work expected to have impact on progress in the relevant fields and/or enhance programmatic initiatives?

*Criterion 2: Approach (weight: 60%):*

Does the application clearly respond to the RFP objectives? Are the overall strategy, methodology, and analyses well-reasoned, technically sound, and appropriate to accomplish the project objective(s)?

*Criterion 3: Team Experience and Supporting Environment (weight: 20%):*

Are the Principal Investigators and proposed personnel well-suited to the project, in terms of skills and experience? Are the institutional support, equipment, and other physical resources available to project personnel adequate for the project proposed?

Project budget requests will be assessed in relation to the scope of the work proposed.

##### Proposal Submission

**Deadline: Wednesday, November 1, 2023, 5:00 PM EDT.**

**No proposals will be accepted after this time.**

Submit your proposal electronically to [RFP@aaafoundation.org](mailto:RFP@aaafoundation.org).

When sending your proposal to the AAA Foundation, please give your electronic files names that can help identify them.

### **Questions**

An FAQ document is available at this [link](#), which includes common questions from previous years.

If you have other questions, please email them to [RFP@aaafoundation.org](mailto:RFP@aaafoundation.org). AAAFTS will accept questions until 5:00 PM EDT, October 2, 2023. Answers to these questions will be posted on the AAAFTS website no later than 5:00 PM EDT, October 4, 2023.

### **Terms and Conditions**

The selection of a Consultant is conditioned upon and not considered final until a Research Agreement is executed by both AAAFTS and the Consultant.

### **About the Sponsor**

Established in 1947 by The American Automobile Association, Inc., the AAA Foundation for Traffic Safety is an independent, publicly funded 501(c)(3) charitable research and education organization dedicated to saving lives by preventing traffic crashes and reducing injuries. AAAFTS' mission is to prevent traffic deaths and injuries by conducting research into their causes and by educating the public about strategies to prevent crashes and reduce injuries when they occur. Additional information about the AAA Foundation for Traffic Safety can be found at [www.aaafoundation.org](http://www.aaafoundation.org).