

NEVADA CENTER FOR ADVANCED MOBILITY

REQUEST FOR INFORMATION

**TECHNOLOGY SOLUTIONS
FOR ENHANCED PEDESTRIAN SAFETY**

Issued: *July 28, 2016*

1. Purpose (Scope & Objectives)

A multitude of approaches to pedestrian safety have been implemented in the Las Vegas Metropolitan area involving education, engineering and enforcement. With advancements in autonomous vehicles and connected infrastructure the objective of this RFI is to go a step further and gather feedback from technology solution providers regarding the best ideas, approaches, technologies and products to address the issue of pedestrian fatalities, critical injuries and near misses.

The Nevada Center for Advanced Mobility (Nevada CAM) provides the contact point bringing together industry, government and academia to develop and deploy policy, standards and technology around advanced mobility including electric, connected, autonomous vehicles and related infrastructure. Nevada CAM is partnering with the Nevada Department of Transportation (NDOT), Regional Transportation Commission of Southern Nevada (RTC) and the University of Nevada, Las Vegas on this critical effort as pedestrian fatalities have increased in recent years. While these and other local and state agencies have worked diligently to develop and deploy multiple education, engineering and enforcement campaigns, Southern Nevada partners are now working to go a step further by investigating technology options to improve pedestrian safety.

Our pedestrian centric view invites solutions that interact with other pedestrians, drivers, vehicles and infrastructure.

2. Background (Overview)

The following data provides details on an aspect of the overall pedestrian safety challenge in Last Vegas but is not intended to limit the scope of potential responses.

- WHO: Southern Nevada Pedestrians:
fatalities - 67% male; 60% over age 45
critical injuries – 73% male; 38% over age 45
- WHERE: 46% of fatal crashes occur on Boulder Highway, Lake Mead, Flamingo, Charleston, Desert Inn, Tropicana and Sahara
- WHAT: All streets above have the following characteristics:
wide streets (at least 7 lanes)
flat, comfortable roadways
Posted speed limit of 45MPH or greater
few places to cross safely (40% of fatalities occurred between 100-500 feet from the crosswalk)
- WHEN: 82% of fatal pedestrian crashes occur when it is dark
83% of fatal pedestrian crashes occur on roadways with speed limits of 45 MPH or higher.
72% of pedestrian fatalities happen on streets with **both** speed limits of 45 MPH or higher and when it is dark.

WHY: Lighting, time of day, human behavior, impairment, distraction, traffic volume, lack of safe crossing locations and visibility.

3. Goals / Points of Interest

Through this RFI, Nevada CAM and its partners are interested in gathering information on innovative solutions that have alignment with the following characteristics:

- Take advantage of existing and future connected infrastructure and new vehicle technologies
- Utilize resources and assets available to Cities, Counties and States (ie. We have little influence over vehicle manufacturing)
- Significant potential to minimize auto-pedestrian collisions
- At or beyond prototype stage of development
- Easily deployable

The challenge of pedestrian safety is complicated and as such joint responses and collaboration between vendors is welcomed.

4. Evaluation Process.

Nevada CAM and its partners intend to evaluate the proposed solutions and invite the most promising and innovative submitters to enter into further negotiation. Criteria will be based on how effectively the technology solution addresses the need, the viability and demand for the technology, knowledge transfer opportunities, commercialization revenue, and potential for jobs created in Nevada.

5. Response Format

Responses to this RFI must not exceed 4 pages in length (not including supplemental materials). Supplemental materials, if necessary, must not exceed an additional 5 pages in length. Respondents are asked to submit their responses in English in the following format.

SECTION 1 - VENDOR INFORMATION

- a. Name of Company
- b. Address and Telephone Number
- c. Vendor Representative, contact number and email address

SECTION 2 - VENDOR OVERVIEW & EXPERIENCE

Briefly describe your company, your products and services, history, and ownership; for example:

- a. Web site address
- b. Main product/services
- c. Main market/customers

- d. Company location(s)
- e. Product deployment sites
- f. Year of first deployment

SECTION 3 - SOLUTION INFORMATION

Narrative describing your solution that enhances pedestrian safety; including:

- List the features and benefits of your proposed solution.
- List the stage of the proposed solution, i.e. in development, R&D required, ready for testing, deployed etc. Please provide references for deployed solutions.
- Brief description of the competition (products, services and other alternatives)
- Applicability to disadvantaged populations (low income families, accessible affordable housing, disabled, elderly etc.)
- If feasible provide a rough order of magnitude (ROM) cost requirements for all solution deployment phases.

SECTION 4 – EXAMPLE PILOT PROJECT

- Define the scope of a pilot project that will demonstrate the technology in Las Vegas Metropolitan area
- List specific resources and access to infrastructure needed
- Cost Estimate (including cost sharing)
- Other potential benefits to your company if selected for a pilot project in Las Vegas

6. Disclaimer

This Request for Information (RFI) is for planning purposes only and is not a Request for Proposals (RFP), Invitation for Bid (IFB) or any obligation on the part of Nevada CAM as to acquire any services. Responses to this RFI are not offers and cannot be accepted by Nevada CAM to form a binding contract. Nevada CAM reserves the right to determine how it should proceed as a result of this notice. Furthermore, those who respond to this RFI should not anticipate feedback with regard to its submission. Nevada CAM will not pay any cost incurred in response to this RFI. Nevada CAM reserves the right to contact any references provided. All costs associated with responding to this RFI will be solely at the responding party's expense. The information provided in this RFI is subject to change and is not binding on Nevada CAM.

7. How to Respond

Please submit any questions and your response to this RFI via email to challenge@nevadacam.org, with the words "**Technology Solutions for Enhanced Pedestrian Safety RFI Response**" in the email subject line. The closing time for responses is 4:00 P.M. PST on Wednesday, September 28, 2016. ***Responses will be accepted any time before the closing date.***

For more information on Nevada CAM, please visit NevadaCAM.org.