ACN/AACN Research Plan Pilot Project

ACTIVE
Contract Opportunity
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693JJ920R000041
Related Notice
Department/Ind. Agency
TRANSPORTATION, DEPARTMENT OF
Sub-tier
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
Office
693JJ9 NHTSA OFFICE OF ACQUISTION

General Information

- Contract Opportunity Type: Presolicitation (Original)
- All Dates/Times are: (UTC-04:00) EASTERN STANDARD TIME, NEW YORK, USA
- Original Published Date: Mar 23, 2020 10:34 am EDT
- Original Response Date: Apr 16, 2020
- Inactive Policy: 15 days after response date
- Original Inactive Date: May 01, 2020
- Initiative:
 - o None

Classification

- Original Set Aside:
- **Product Service Code:** R408 SUPPORT- PROFESSIONAL: PROGRAM MANAGEMENT/SUPPORT
- NAICS Code: 541611 Administrative Management and General Management Consulting Services
- Place of Performance:

DC 20590

USA

Description

The National Highway Traffic Safety Administration (NHTSA) is an agency within the U.S. Department of Transportation (DOT) whose primary mission is to save lives, prevent injuries and reduce economic costs due to road traffic crashes, through education, research, safety standards, and enforcement activity. This is accomplished by setting and enforcing safety performance standards for motor vehicles and motor vehicle equipment as well as fuel economy standards, investigating safety defects in motor vehicles, conducting research on driver behavior and traffic safety, and providing grants to State and local governments to enable them to conduct effective local highway safety programs.

The National Highway Traffic Safety Administration (NHTSA) has recognized the impact of emergency care on motor vehicle crash (MVC) morbidity and mortality. The mission of NHTSA's Office of Emergency Medical Services (OEMS) is to reduce death and disability by providing leadership and coordination to the Emergency Medical Services (EMS) community in assessing, planning, developing, and promoting comprehensive, evidence-based EMS and 911 systems. The work of OEMS directly impacts NHTSA's mission, as it supports and promotes access to emergency care for MVC victims.

The mission of the National 911 Program, which is housed within NHTSA's Office of EMS, is to provide Federal leadership and coordination in supporting and promoting optimal 911 services. Emergency medical services relies on a properly functioning communication system that enables providers to efficiently and expeditiously provide medical services to crash victims.

An automatic crash notification (ACN) system is an emerging safety technology designed to notify emergency responders that an MVC has occurred and provide location data with crash notification. In most cases, when the ACN sensor detects either that an air bag has deployed or there's been a dramatic and sudden car deceleration, the system automatically transmits location data with crash notification so emergency responders can easily locate and reach the scene of the crash. Current systems are either embedded in vehicle or Blue-tooth-enabled using user's linked cell phone while driving. ACN systems have the potential to reduce death and disability 1) more efficiently dispatching appropriate EMS resources (e.g., basic vs. advanced life support, helicopter) to the MVC scene and 2) more effectively allowing for transport decisions to be made to route victims to appropriate medical care. More lives can be saved, and the severity of injuries reduced if a crash victim receives appropriate medical care as soon as possible. ACN is especially beneficial to MVC victims in rural areas, where there are typically fewer or no witnesses or bystanders to call emergency responders. Advanced Automatic Collision Notification (AACN) is the successor to Automatic Collision Notification (ACN). By using a collection of sensors, vehicle telemetry systems with AACN capabilities transmit crash data/analyzed crash data if a vehicle is involved in a moderate or severe crash. Depending on the type of system, the data include information about crash severity, the direction of impact, air bag deployment, multiple impacts, and rollovers. This

information can be relayed to 911 telecommunicator and dispatchers, helping them to quickly determine the appropriate combination of emergency personnel, equipment, needed at the MVC and enables responders to decide where to take victims for the appropriate level of medical and trauma care

The Objective of this contract is to procure the services of a company, college/university, or research and/or public safety organizations, to produce a document containing the requirements necessary to develop and execute a plan for a pilot project/proof of concept that measures the potential benefits of Advanced Automatic Collision Notification (AACN)/Automatic Crash Notification (ACN) systems in the field, using current technologies. This document would necessarily include information on suggested strategies for working with all of the entities that would be involved in such a pilot, which include AACN/ACN technology providers, 911 agencies and EMS agencies. The document will identify and describe the following:

- The current status of technologies enabling the transmission, receipt, processing, sharing, and storage of AACN/ACN data among all participating entities, and any technological issues that must be addressed;
- The current status of the three (3) required entities (AACN/ACN technology providers, 911 agencies and EMS agencies) as organizations and entities, and the governance, administrative and technological issues that must be addressed;
- The resources, budget, and partner agencies/organizations needed;
- Optimal resource utilization strategies;
- Scientific research requirements and metrics that identify differences in response, treatment, or associated indicators of crash injury management with and without the utilization of AACN/ACN data;
- Strategies for addressing all identified challenges and cost issues; and
- Strategies for utilization of the completed document to facilitate the execution of a plan to conduct an AACN/ACN research pilot/study.

Attachments/Links

Download All Attachments/Links				
Attachments				
Document	File Size	Access	Updated Date	
Presolicitation 693JJ920R000041 .pdf (opens in new window)	110 KB	Public	Mar 23, 2020	

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