

Entity Name: South Dakota State Government

Event Number: 8430

Event ID: 23RFPD2022-08

Event Name: Traffic Operations Center Feasibility Study

Requested By: Scott Nelson

Created By: Scott Nelson

Due By Date: 03/24/2023 05:00 PM Central Time

Q&A Cutoff Date: 02/06/2023 9:05 AM Central Time

Invitation Type: Invitation Only

Assigned Commodities: 918-94 Traffic Consulting; 925-93 Traffic and Transportation Engineering; 968-89 Traffic Studies and Analysis Services

Allow Supplier Terms and Conditions: No

Public Responses: No

Display Awardee: Display

Posting Board Status: Expired

Event Status: Event Under Review

Section #: Name:

1 Section 1 - RFP Event

Do not submit response through ESM Sourcing as this section is for informational purposes only. Please download this RFP document and follow submittal instructions to respond.

Problem Description: The South Dakota Department of Transportation (SDDOT) is one of the few state transportation agencies that does not yet operate a full-time traffic operations center (TOC). Staff of the department's central, region, and area offices coordinate activities during extended single-shift working hours, but not on a 24x7 basis. They operate intelligent transportation system (ITS) devices—primarily dynamic message signs, surveillance cameras, environmental sensor stations, and mobile data collectors on snowplows—using separate, vendor-supplied software packages. Field maintenance and engineering personnel supply information about winter road conditions, work zones, incidents, and other events to the South Dakota 511 Traveler Information System. During the Sturgis Motorcycle Rally, SDDOT operates a temporary traffic operations center using mostly manual processes from its Sturgis Maintenance Shop.

This approach has worked in the past because of the rural state's low traffic and modest ITS deployments, but increasing traffic, more extensive ITS deployment (including variable speed limits), and greater expectations from personal and commercial road users elevate the need for a dedicated traffic operations center. A dedicated center could not only integrate communication, monitoring, and control of SDDOT's ITS assets, but also enable more coordinated human communication and response by SDDOT and other state and local agencies during routine and emergency operations.

Research is needed to evaluate needs and opportunities related to establishing a traffic operations center in South Dakota and identify the essential functions a center would provide, and identify feasible design concepts suitable for South Dakota's environment. In consideration of SDDOT's limited size and funding, the research should evaluate the resources needed to support the identified concepts and develop plans to help SDDOT transition from its current capability.

Potential Implementation: If this research is successful, SDDOT will be positioned to decide whether and how to establish formal traffic operations functions in the state. Recommendations from the research may concern capital investments, staffing and training, and definition of institutional roles. These recommendations would be fundamental to improving service and safety for the public.

SDDOT Involvement: Stakeholders outside the SDDOT will be needed to provide information on surrounding state's traffic operations centers, to participate in the workshops, and to identify functional requirements for a TOC in SD. Stakeholders include staff from the cities of Sioux Falls and Rapid City, the South Dakota Highway Patrol, and neighboring state DOTs. SDDOT staff from various offices will be needed to provide information and to review the research submittals.

Proposal Deadline: Proposals are due to the SDDOT by 5:00 pm CDT on Friday, March 24, 2023. This deadline is firm. Extensions will not be granted.

Proposals must be submitted as an e-mail attachment in Portable Document Format (PDF) not exceeding 14MB. The email must be addressed to andy.vandel@state.sd.us and jacob.huber@state.sd.us. Proposers should send the e-mail using "Delivery Receipt" and "Read Receipt" options to verify successful delivery.

Proposal Guidelines: Proposals must fulfill the requirements listed in the document entitled RESEARCH PROPOSAL PREPARATION, SUBMISSION, AND EVALUATION and dated October 28, 2022.

Proposal Evaluation: Proposals will be evaluated by a technical panel knowledgeable in the problem area. Selection will be made in consideration of criteria listed in RESEARCH PROPOSAL PREPARATION, SUBMISSION, AND EVALUATION.

Proposers will be notified of the results of the selection no later than May 31, 2023.

Project Management: Andy Vandel is responsible for the management of this project and can be reached at andy.vandel@state.sd.us to answer inquiries.

Terms and Conditions

ESM Sourcing Terms

None

General Terms and Conditions

None

Event Specific Terms and Conditions

Please see attached RFP document.