Domestic Scan Proposal Form

AASHTO is now soliciting proposals for the **US Domestic Scan Program** (NCHRP Panel 20-68A).

Selected scan topics will be investigated by one of three ways: (type 1) site visits to three to six locations for approximately a two week period or less, by webinar; (type 2) peer exchange; or (type 3) conducted by a group of eight to 12 transportation professionals with expertise in the selected topic area. Proposed topics should meet the following criteria:

* Address an important and timely need for information by transportation agencies;
* Are of interest to a broad national spectrum of people and agencies;
* Are complex and also “hands-on,” meaning they lend themselves particularly well to exploration through on-site visits; and
* Are sufficiently focused that the tour participants are able to investigate and understand key issues in the limited time available on the tour.

Before submitting your proposal it is highly recommended that you read **What Makes a Good Scan Topic Proposal** [**http://www.domesticscan.org/what-makes-a-good-scan-topic-proposal**](http://www.domesticscan.org/what-makes-a-good-scan-topic-proposal)

This form is designed to collect the full length of your proposal. Sections requiring essays have unlimited space for you to use. Contact information has some limited text. ***Click on the highlighted boxes to advance to the area where you need to complete information.***

# Proposals should be returned no later than date list on NCHRP website.

**IMPORTANT NOTE on How to save your document**: ***LastNameFirst Initial, underscore\_Organization Acronym \_CY2021 Saved Document Name Example: NgetheP\_AASHTO\_CY2021***

***If you have more than one, add a number after first initial: NgetheP1\_AASHTO\_CY2021***

# Domestic Scan Proposal Contact Information

**Name**  Said Ismail  **Address** 1120 N Street, Sacramento

**Title**  Deputy Division Chief, System Management  **E-mail**  said.ismail@dot.ca.gov

**Agency/Member Department**

Caltrans

**AASHTOCommittee**

Transportation System Operations

**Telephone number** (916) 708-5214

**Date of submission**

 11/4/2021

[ ] Please **check** this box if your proposal has been endorsed or is being requested through an AASHTO Committee. List the AASHTO Committee(s) that endorsed this proposal: Click or tap here to enter text.

# Title of Proposed Scan:Cybersecurity from CV to TMC and Beyond

**Problem Statement** (What topic is to be examined? What drives the need for the scan? Why now?)

As Caltrans prepares to implement new cybersecurity measures and upgrade existing cybersecurity measures, we would like to learn from the experiences of other agencies and departments about their experiences deploying cybersecurity on their transportation networks. We would like to benefit from hearing about their lessons learned and best practices established.

**Scan Scope** (What specific subject areas are to be examined? Which cities and states might be visited? Which agencies/organizations (including specific departments or types of staff if applicable)?

This Scan will cover the areas of cybersecurity as is related to its implementation in transportation networks including how the work is distributed in other departments/agencies, role IT departments play in implementation in other districts/agencies, what tools other departments/agencies use for cybersecurity, and best practices and lessons learned when deploying cybersecurity measures. Specifically, we would like to discuss the management of the ITS network in various organizations ond the staffing levels organizations utilize to maintain and operate their cybersecurity effort. In addition, we wish to understand the various methods employed for cybersecurity, including physical deterrents. We would like to learn how organizatiosn manage and secure communication between districts or regions as well as the impact deploying CAV has had on their cybersecurity efforts.

**Anticipated Scan Results** (What key information is to be gained? What information is to be shared after the scan? Who would the audience be for this information?)

The anticipated results would include best practice and lessons learned from other DOTs and agencies regarding cybersecurity for transportation networks, including Connected Vehicles and Intelligent Transportation Systems. After the scan is completed, we expect to have a picture of how other organizations address their cybersecurity needs as well as the impact of the deployment of CAV technology had on the organization’s cybersecurity efforts. The audience for this information would be any organization that is preparing to deploy CAV technology in their ITS network as well as any organization that is interested in advancing their cybersecurity.

**Benefits Expected** (Including potential impacts on current technology or procedures) Expect to gain insight and benefit from the experience of other departments and agencies as we deploy new cybersecurity measures and upgrade existing ones.