



# ITS ALASKA 2024 ANNUAL MEETING

SEPTEMBER 17<sup>TH</sup>, 2024

Technical Program



DOT Mini RWIS Site, Alaska Highway @ MP 1285 - M. Lilly



DOT program manager Ryan Marlow demonstrates the agency's robotic dog in Anchorage, Alaska, on 26 March 2024. - Copyright Marc Lester/Anchorage Daily News via AP

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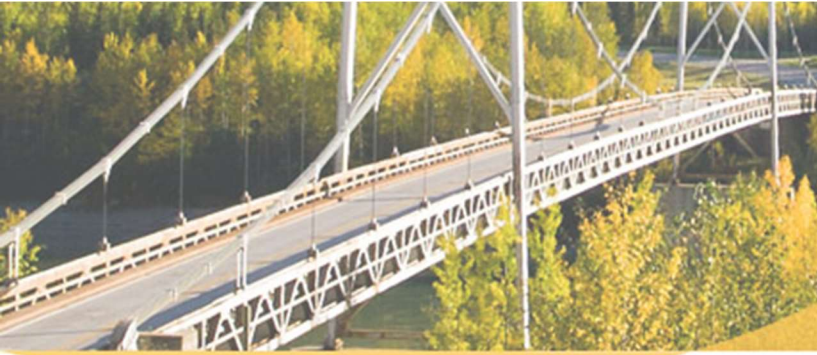


## ITS Alaska Annual Meeting Technical Program – Sept. 17, 2024

Alaska DOT&PF Central Region HQ, Main Conference Room  
4111 Aviation Ave., Anchorage, Alaska

Zoom Meeting ID: 880 6358 7821; Passcode: 874867; Meeting URL: <http://tiny.cc/ITSAAlaska>

Session #	Presentation / Topic
9:30 – 10:15  <b>Session #1:</b> ITS Alaska Business Meeting	<b>1.1:</b> ITS Alaska Annual Business Meeting <i>(Everyone is welcome to attend)</i> <b>1.2:</b> Opportunity for everyone to introduce themselves and their company <b>1.3:</b> A Short History of ITS Alaska and Its Role in Alaska Transportation. <i>Michael R. Lilly, GW Scientific</i>
10:15 – 11:45  <b>Session #2:</b> Alaska Initiatives  <b>Moderator:</b> Connor Dunham	<b>2.1:</b> <b>Alaska 511 App and News Features.</b> This presentation will explore the latest updates to the Alaska 511 app, including the new bus alerting feature for Fairbanks when using drive mode, and the new freight mode, which provides real-time information on seasonal weight restrictions and audible alerts for bridges. <i>Isvan Gomez, Alaska DOT &amp;PF</i> <b>2.2:</b> <b>Driving Data Forward: Alaska DOT’s Traffic Data Journey.</b> DOT’s limited history and encounters with traffic-related 3rd party aggregated and crowdsourced data, such as HERE’s data for TTR and TTTR reliability. <i>Benjamin Glenn, Alaska DOT &amp;PF</i> <b>2.3:</b> <b>Applications of Starlink Satellite Communications for Alaskan Remote Road Weather Information Systems.</b> This presentation covers current efforts to implement Starlink solutions that can reduce power requirements and be more cost-effective for transportation and many other end-users. <i>Michael Lilly, GW Scientific, George Mueller, GW Scientific, Gordon Scott, Alaska DOT&amp;PF, Mike Burton, Campbell Scientific, Colter Holliday, Kachemak Electric Co.</i> <b>2.4:</b> <b>TSMO Strategic Plan - Next steps for Alaska DOT&amp;PF.</b> An overview of the new TSMO Strategic Plan, and next steps for implementation. <i>Christina Demattio, Alaska DOT&amp;PF</i> <b>2.5:</b> <b>Data Modernization and Innovation Plans for Alaska DOT&amp;PF.</b> An update on the activities and vision of the Data Modernization and Innovation group. <i>Christine Langley, Alaska DOT&amp; PF</i>



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11:45 - 1:15	<b>Lunch</b> - <i>Lunch will be on your own and is not included</i>
1:15 - 2:15  <b>Session #3: Research Efforts</b>  <b>Moderator: Les Jacobson</b>	<b>3.1: Use of LiDAR and Thermal Images for Bridge Deck Inspection.</b> The presentation covers the details of the data collection and training of the neural networks and highlights the study's key findings. <i>Ammad Khan, Abir M. Hadi, Kwanghee Won, Mostafa Tazarv, SDSU</i>  <b>3.2: Intelligent Transportation System for Freight and Fuel Truck Movement.</b> Presentation on efforts to plan and prepare infrastructure for ADS-equipped vehicles. <i>Ray Wood, Nima Golghamat Raad, Sharan Srinivas, University of Missouri</i>  <b>3.3: Ongoing Research at UAA:</b> Presentation on ITS-related research initiatives at UAA. <i>Vinod Vasudevan, UAA</i>
2:15 - 2:30	<b>Break</b>
2:30 - 3:30  <b>Session #4: Consultant Updates</b>  <b>Moderator: Aaron Jongenelen</b>	<b>4.1: Traffic Data Collection – Video-Based AI Counting and Classification Systems.</b> <i>This presentation will illustrate the enhancements and capabilities of AI Counting and Classification available today and provide some case studies of how these systems are operating in different locations throughout North America. Roy Czinku, QuarterHill</i>  <b>4.2: Connected Work Zones.</b> This presentation will highlight work being conducted by the Connected Vehicle Pooled Fund Study (CV PFS), which has documented the approach tested by Arizona DOT to broadcast work zone alert messages to drivers via cellular communications using edge computing services. <i>Jeremy Schroeder, Athey Creek Consultants</i>  <b>4.3: Improving the Value of Transportation Road Weather Information Systems (RWIS) Stations and Networks by Supporting Multiple Data Standards.</b> This presentation will cover cost-effective approaches for weather data using several examples implemented in Alaska. <i>Michael Lilly, GW Scientific, Ron Paetzold, GW Scientific, Isvan Gomez, Alaska DOT&amp;PF Timothy Glassett, Alaska DOT&amp;PF Gordon Scott, Alaska DOT&amp;PF</i>



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<b>3:30 – 4:00</b>  <b>Session #5: Roundtable on Other Updates</b>  <b>Moderator: Jeremy Schroeder</b>	<b>5.1: Public Sector Updates</b> – An opportunity for attendees to hear updates from the Alaska public sector agencies regarding current and upcoming ITS projects. <ul style="list-style-type: none"><li>- AKDOT&amp;PF</li><li>- Municipality of Anchorage</li><li>- Others</li></ul> <b>5.2: Brief Vendor Updates on New and Ongoing Activities</b>