



I-95 Corridor Coalition

Beyond Boundaries

Webinar Follow-Up:

Emerging Technologies in Transportation Management

January 30, 2020

Thank you for your participation in the I-95 Corridor Coalition sponsored webinar. Artificial Intelligence and a National ICM Strategy were the two topics discussed under the umbrella - "Emerging Technologies in Transportation Management," on January 30, 2020.

Many thanks to our speakers for their presentations on these exciting topics:

- Gene Donaldson, Delaware Department of Transportation's TMC Operations Manager
- Nick Compin, PhD, Caltrans Statewide Connected Corridor, TSMO and System Performance Measures Lead; and,
- Joe Butler, University of California Berkeley's Connected Corridors Program Engineering Manager.

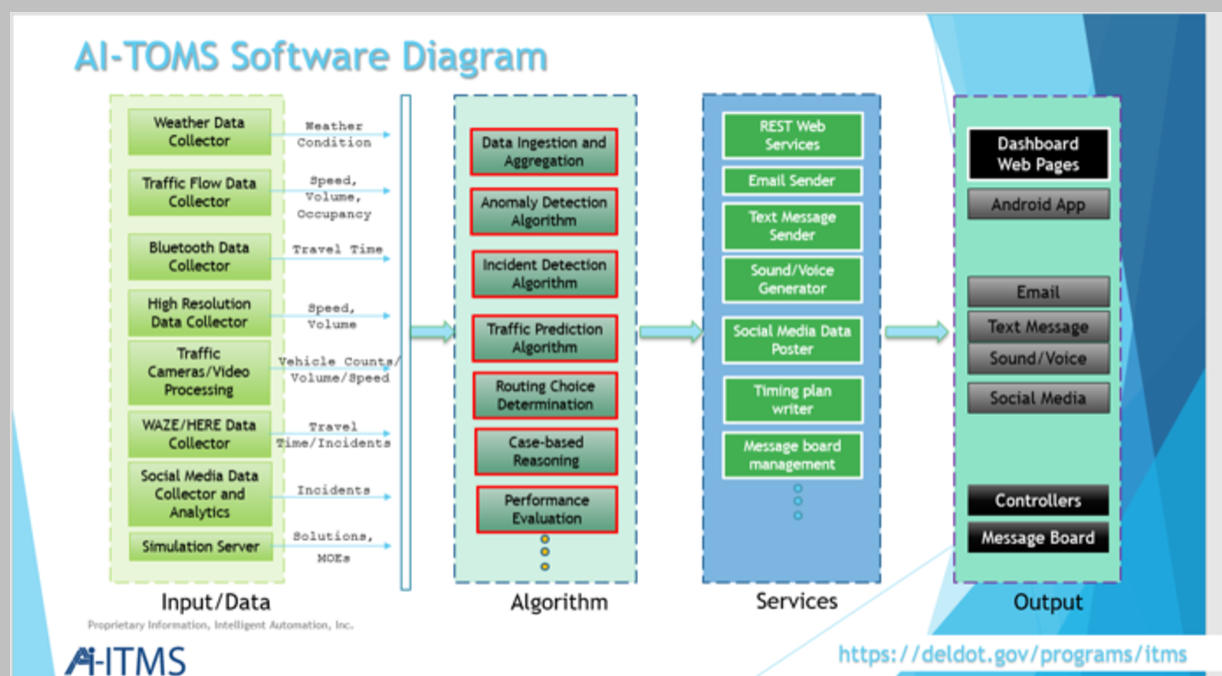
Please visit the [TSMO page](#) on the I-95 Corridor Coalition website or click on the links below for more information about the meeting.

- [Presentation with Audio](#)
- [Slides Only](#)
- [Question & Answer Summary](#)

Presentation 1: The Use of Artificial Intelligence in Transportation Management Centers

Gene Donaldson, Delaware DOT

- Gene Donaldson opened his talk by describing DelDOT's ITMS strategic plan update (2017) and stating that it will now incorporate artificial intelligence (AI) and machine learning (ML).
- He explained that DelDOT was awarded an Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD) grant by FHWA and began work on these efforts in October 2019.
- Gene described how AI can enhance DelDOT's ITMS objectives and that over a 3-year period, DelDOT is planning deployment in 3 project areas.
- With the ATCMTD grant, DelDOT is currently working towards meeting its expected outcomes of being a truly predictive, self-monitoring transportation management system, incorporating automated operation, reducing incident detection time, using CAV data leveraging to improve traffic management, and collecting long-term knowledge for smarter transportation operations.
- The graphic below represents the input data and its processing with AI and ML-based algorithms to provide a set of enhanced services to the traveling public.



Presentation 2: Breaking Ground: Toward a National ICM Strategy (Showcasing: I-210 Connected Corridors) in California

Nick Compin, PhD, Caltrans

Joe Butler, UC Berkeley

- Jointly, Nick Compin and Joe Butler presented Caltrans work towards a National ICM Strategy through its I-210 Connected Corridors pilot.
- ICM is currently under development in Anaheim (Triangle ICM), Sacramento (US50 ICM), San Diego (I-805 south corridor TSMO Plan), and Los Angeles (Metro Regional ITS/ICM Plan.)
- The overarching goal of implementing a statewide ICM program is to more efficiently use the existing transportation network.
- Benefits of a single statewide system include replicability for uniform use; scalability to be flexible in order to meet unique needs of districts; affordability for stakeholders; and maintainability for the single statewide maintainer, Caltrans IT.
- UC Berkeley's collaboration with Caltrans will provide engineering documents, workforce skill training, consulting, and cloud-based services - including reference implementation architecture, ensuring data quality and replicability; and a scalable intelligent data hub with a DSS (Decision Support System.)
- The goal is to pilot this implementation on California's I-210 in April 2021, spread it throughout the state, then the nation.
- Anticipated benefits include queue reductions and performance improvements (including air quality); improved planning and coordination; changes in roadway operations improving throughput and safety; and fund sharing for larger impact.
- The graphic below displays how nationwide ICM deployment can assist with effectively utilizing the nation's existing transportation networks.



Some takeaways from the session:

- Berkeley document library: <https://connected-corridors.berkeley.edu/>
- FHWA 10 Attributes of a Successful ICM Site: https://www.its.dot.gov/factsheets/pdf/ICM_10Attributes.pdf
- For more information on Open Source and Pooled opportunities, contact Dr. Nick Compin at 916.653.4574 or Nicholas.compinn@dot.ca.gov

This webinar was brought to you by the I-95 Corridor Coalition.

Questions or Concerns:

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