



# Adventures in Crowdsourcing Webinar Series: Identifying and Managing the Back of Queues

Wednesday, April 8, 2020 FHWA Every Day Counts Round 5 (EDC-5) Crowdsourcing for Operations Innovaiton

#### Today's Agenda



#### Welcome and Introductions

Paul Jodoin, EDC-5 Crowdsourcing for Operations Innovation Co-Lead, FHWA Office of Operations

#### **Back of Queue Detection**

Ed Cox, P.E., Indiana Department of Transportation (DOT)



Lee Han, Ph.D., University of Tennessee Yuandong Liu, University of Tennessee

### A Responder's Guide to Identifying the Incident Queue

Brian Purvis, P.E., Georgia DOT and AECOM



#### Be Ready: Later we will have a Poll Question....

#### What topics would you like in the future?

#### **Previous Webinar Topics:**

- Traffic Signal Applications
- Engaging Navigation Providers
- Incident Management Tools that leverage Crowdsourced Data
- Data Management and Governance
- Good Practices in Vendor Engagement

#### Next Webinar May 2020:

Using Social Media to Detect Incidents and Inform Travelers



#### FHWA EDC-5 Crowdsourcing Innovation Goal

To increase the number of agencies that use crowdsourcing to better operate the transportation system through new, cost-effective, and proactive operational strategies and applications.

## Crowdsourcing for Operations Crowdsourced data allows agencies to more effectively operate the transportation system.

Source: FHWA

30+ States are pursuing Crowdsourcing for Operations.



### Why Crowdsourcing?

## When integrated with an agency's existing efforts, crowdsourcing helps agencies:

- Expand geographic coverage and resolution.
- Reduce information time lags for improved realtime situational awareness.
- Reduce dependence on and cost associated with roadside sensors and systems.
- Overcome jurisdictional stovepipes.
- Implement proactive operations strategies.

Crowdsourcing is a proven lower-cost solution to improving safety and operations.



#### **Operations Application Area Highlights**

- Most common applications of Crowdsourced data are for traveler information and incident management.
- Agencies are now expanding its use across application areas such as maintenance, road weather and work zone management.





#### **Initiative Resources**

#### Webinar series: Adventures in Crowdsourcing

- Traffic Signal Management and Planning.
- Engaging Navigation Providers
- Incident Management Tools using Crowdsourced Data

#### Workshops (see downloadable workshop flier)

- Information on applications and readiness activities.
- Available to State and regional agencies and customizable.

#### Peer exchanges (virtual for the time being)

- Making the Most of Real-Time Vehicle Probe Data.
- Making the Most of Free Crowdsourced Data.

#### On-site technical assistance

 To help bridge technical, policy, or process gaps in State or local implementation of crowdsourced data.



#### **EDC-5 Deployment Funding Opportunities & News**

## State Transportation Innovation Councils (STIC) Incentive Program

- ✓ Up to \$100K per STIC per year to standardize an innovation
- ✓ <a href="https://www.fhwa.dot.gov/innovation/stic/">https://www.fhwa.dot.gov/innovation/stic/</a>

#### Accelerated Innovation Deployment (AID) Demonstration Program

- ✓ Up to \$1 million available per year to deploy an innovation not routinely used
- ✓ <a href="https://www.fhwa.dot.gov/innovation/grants/">https://www.fhwa.dot.gov/innovation/grants/</a>



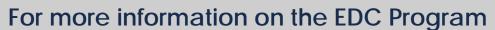
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#### Adventures in Crowdsourcing

## Using Social Media to Detect Incidents and Inform Travelers

May 2020