Adventures in Crowdsourcing: Incident Management Tools

EDC5 Webinar Series

HAAS Alert/Makeway Pilots

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Why these technologies and What are they?

- Distracted Drivers and crashes with our field crews.
- Alert the driving public of our field crews through crowdsourcing applications (increase awareness, slow down or move over, etc.).
- Equipment installed in our fleet and use of GPS and cloud based solutions.
- When fleet lights are activated a notification gets added to the Waze app. Takes about 30 seconds.
What is the DOT doing and How are we using the technology?

- Central Office Coordination.
- Pilot in the Kansas City District/KDOT – HAAS Alert.
- Pilot in the St. Louis District – Makeway.
- Installing equipment in our fleet.
- Monthly update calls.
HAAS Alert Pilot in Detail

- MoDOT Emergency Response and KDOT/KHP Motorist Assist will have 31 devices.
  - MoDOT ER – Will have 11 devices in Kansas City.
  - KC Scout – Will have 1 device on it’s maintenance truck.
  - KDOT/KHP – Will have 19 devices across the state in Kansas City, Wichita, Topeka and Salina.
HAAS Alert Pilot in Detail

60 Day Trial Period (April 2019-June 2019)
- MoDOT Emergency Response - 1 truck
  - Alerted 9,706 drivers
  - 968 Incidents
- Kansas Highway Patrol (they administer the Motorist Assist Program for KDOT) – 1 truck
  - Alerted 3,605 drivers
  - 560 Incidents

1 Year Trial Period (June 2019-April 2020)
- From July to August KC Scout tested the sending of alerts from HAAS Alert to Waze were:
  - Responding Alert (when the lights are activated)
    - Average of 26 seconds
  - On scene Alert (when arrived with lights activated)
    - Average of 13 seconds
  - Cleared (when the alert is no longer on Waze)
    - Average of 12 seconds
HAAS Alert Pilot in Detail

- Monthly Reports for fleet activity.
- On Demand Reports:
  - Excel spreadsheet with GPS coordinates and speed for a specific vehicle.
  - Number of incidents a specific vehicle responded to
    - Will show when the lights were on or off
    - Sends data every 2 seconds when lights are off
    - Sends data every 5 seconds when lights are on
Makeway Pilot in Detail

18 Emergency Response (ER) vehicles in the St. Louis area with additional devices slated to be tested on department maintenance vehicles.

March 2019-October 2019
• 3 Emergency Response trucks.

October 2019-March 2020
• By the end of October 2019 all 18 of the St. Louis District’s Emergency Response trucks (and potentially 4 other maintenance vehicles) will have the device installed.
Makeway Pilot in Detail

• Conducting moving operations tests to ensure that the alerts posted to WAZE are relocating/moving on the WAZE map in real time to follow moving MoDOT vehicles.
Car Stopped On Road

Emergency vehicle stopped, make way!

Reported by MakeWay2019
11 min ago
Next Steps

• Continue pilots.
  • With possible expansions.
  • Enhancements.
• Evaluate benefits and accuracy.
• Research other technologies.
• Potential statewide deployment.
THANK YOU

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