

DeIDOT's Crowdsourced Data Pothole Reporting Program

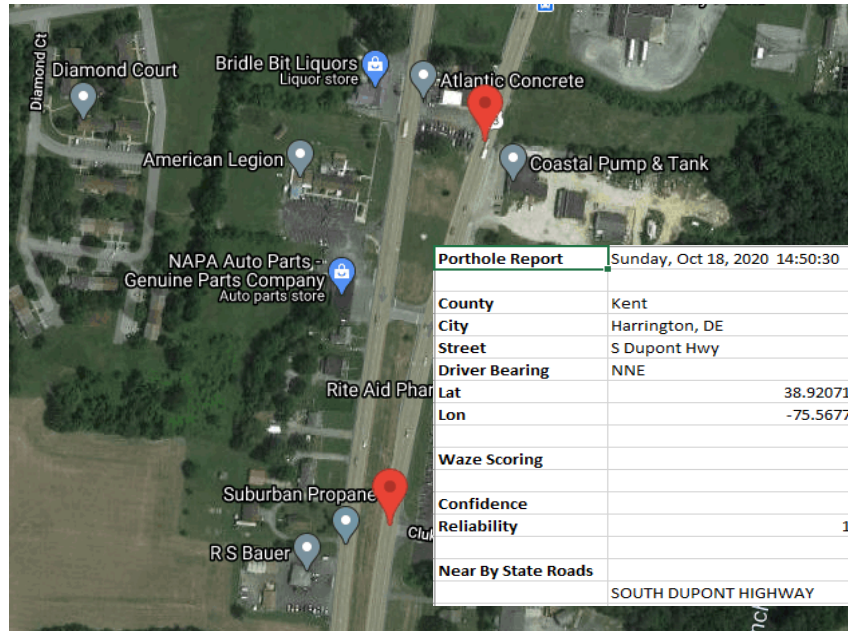


OVERVIEW OF INNOVATION

Using crowdsourced data (Waze) to locate and report pothole locations along state-maintained roadways

Process:

- DeIDOT has developed an interface that uses crowdsourced (Waze) data, including confidence and reliability scores, and filters the data to only report potholes on state-maintained roadways. Data is vetted so that multiple reports of one pothole are combined into a single incidence and the system can assign and create the report locations which are emailed to the specific responsible maintenance yard.
- The pothole reports are generated weekly (though they can be reported at any defined frequency) and sent to each maintenance yard/district. The spreadsheet report includes scores, longitude and latitude and clickable google maps that include exact locations.
- The process accounts for the Waze Confidence and Reliability Scores, which incorporate how other users react to the initial report ("thumbs up" or "not there") and the experience level of the user. Both range on a scale of 0 to 10 with the higher score reflecting higher confidence and reliability of the Waze user.



Source: Sample Pothole Report and Map

BENEFITS

- Direct use of crowdsourced roadway user reported information.
- Precise location information via a clickable google map
- Easy delegation of the pothole to the proper maintenance district and yard.
- Reduced maintenance response time.

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Example Report: (Central District)

[https://urldefense.com/v3/https://tmc.deldot.gov/waze/potholes/Central-Area6-20201023-Total-Potholes\(2\).xlsx;!!B5cixuoO7ltTeg!WCU8jb5KdriBV62vAMgGZQVrU7R4z8c-zfcFXNydhP2rM5FK0SdNRx8GPYOheF9UBkfo\\$](https://urldefense.com/v3/https://tmc.deldot.gov/waze/potholes/Central-Area6-20201023-Total-Potholes(2).xlsx;!!B5cixuoO7ltTeg!WCU8jb5KdriBV62vAMgGZQVrU7R4z8c-zfcFXNydhP2rM5FK0SdNRx8GPYOheF9UBkfo$)

DeIDOT Transportation Management Center
Public Data Feeds (Partner Program)
<https://tmc.deldot.gov/tmcx/app/partner/home/intro/welcome/welcome.html>

TMC Waze Data Pothole Effort

Don Weber Don.Weber@delaware.gov

Rod Mullnack (technical questions)
Rodney.Mullnack@delaware.gov

Keywords:

- Crowdsourced data, Pothole reporting, Innovative use of data feeds