



— THE EASTERN
TRANSPORTATION
COALITION

CONNECTING FOR SOLUTIONS



The Value of WAZE Workshop 2

March 3, 2021

Connecting for Solutions



WAZE Integration at Louisiana DOTD

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LADOTD's Waze Integration

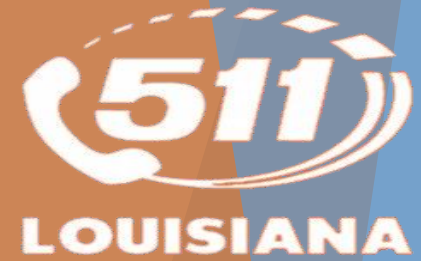
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Will Merritt - IBI Group

WHY LADOTD INTEGRATED WAZE?

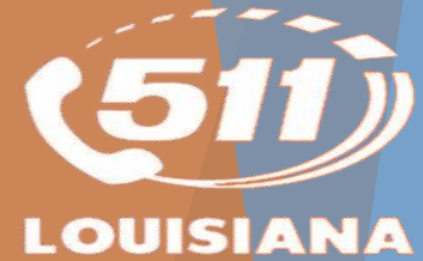
- LaDOTD’s vision is to move Louisiana onward by delivering a safe and innovative transportation system.
- Waze Connected Citizens Program (CCP) provides a view into real-time road activity, which helps drivers make decisions that impact travel.
- DOTD and the City of Baton Rouge announced partnership with Waze CCP on May 2016.
- Number of Louisiana Wazers as of 2016:
 - ❖ New Orleans has more than 53,000 monthly active users who collectively drive more than 15.7 million kilometers (9.76 million miles) with the app each month.
 - ❖ Baton Rouge has more than 35,000 monthly active users who collectively drive more than 11.6 million kilometers (7.2 million miles) with the app each month.



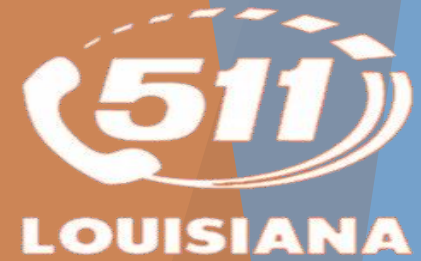
“This level of data sharing between Waze, DOTD and the City-Parish will play an important role for travelers throughout the state as DOTD continues to incorporate the latest technology into our Traffic Management Center,” Sec. Shawn Wilson, Ph.D., said. “I firmly believe in the power of data and information which, when provided to citizens in a real-time manner such as this, will help travelers make more informed travel decisions and have a more enjoyable and safer commute. Through this partnership we are taking the next step in our efforts to provide as much information as possible for the day-to-day commuter, travelers passing through our state and to those in need of real-time information during emergency situations such as flooding, winter storms and evacuations.”

WHY LADOTD INTEGRATED WAZE?

- To provide TMC operators with greater awareness of what is happening on roadways.
- To improved event visibility, Waze is a well subscribed distribution channel for traveler information provided by LADOTD.
- Crowdsourced incident and event data can help agencies quickly identify safety and congestion issues without having to invest in additional sensors.
- Greater community involvement.



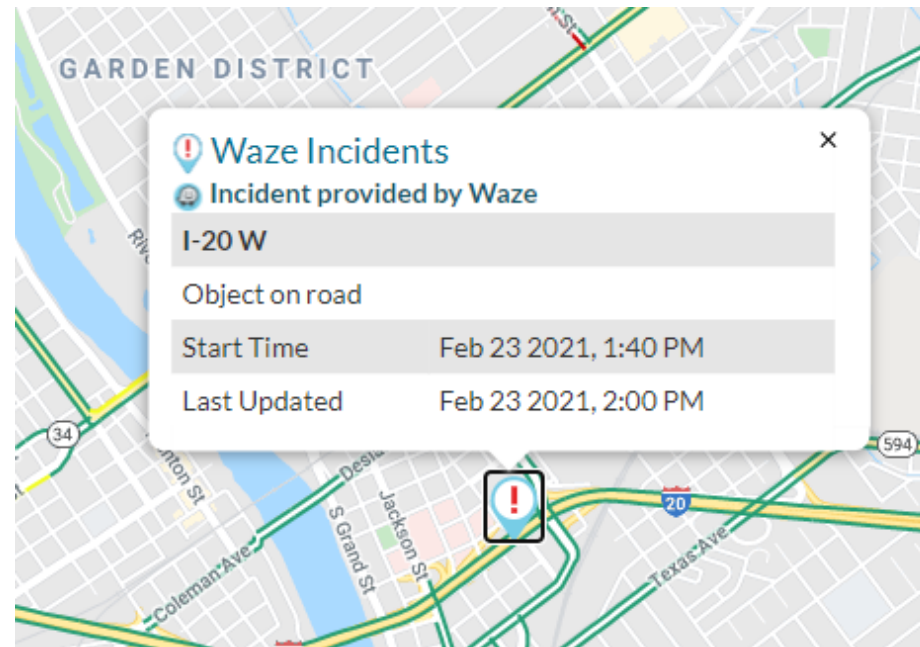
511LA - WAZE INTEGRATION



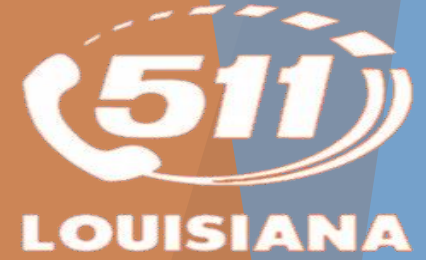
- Two-way data sharing and integration
 - Waze event ingestion started on December 2018
 - Exporting data to Waze was completed on August 2019
- Waze events are ingested through the community partner feed, and displayed alongside traffic cameras, message signs, and other datasets to improve situational awareness.
- Events are either ingested from external systems (ATMS) or entered directly through the 511 web portal.
- Once the events are approved for wider distribution, they are output to a number of channels, including the 511 website itself and the integrated Waze partner feed.

511LA -Waze Event Ingestion

1. Load Waze Partner feed
2. Filter based on reliability and confidence scores
3. Filter based on event type
4. Map Waze types to 511 Types
5. Consolidate nearby events that appear to be duplicates
6. Display on map and text reports



511LA -Waze Event Export

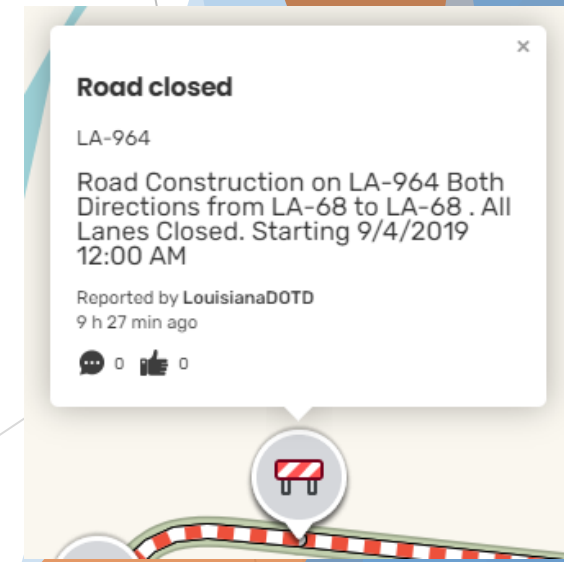


1. Select all events that are suitable for export
2. Map Types from 511 types to Waze
3. Convert time zones
4. Convert geometry into Waze Format
5. Serve Waze API request

511LA -Waze Event Export - Example

```

▼<incident id="LADOTD-8555">
  <creationtime>2019-09-06T20:29:05Z</creationtime>
  <updatetime>2020-11-09T21:34:08Z</updatetime>
  <type>ROAD_CLOSED</type>
  <description>Road Construction on LA-964 Both Directions from LA-68 to LA-68
  . All Lanes Closed. Starting 9/4/2019 12:00 AM </description>
  ▼<location>
    <street>LA-964</street>
    <polyline>30.74713 -91.28274 30.74756 -91.28256 30.74771 -91.2824 30.74777
    -91.28217 30.74773 -91.28163 30.74751 -91.27957 30.74718 -91.2759 30.74708
    -91.27509 30.74654 -91.27243 30.7458 -91.26837 30.74554 -91.26696 30.74531
    -91.26559 30.74499 -91.26396 30.7439 -91.25797 30.74341 -91.25497 30.74284
    -91.25208 30.74249 -91.25 30.74194 -91.24719 30.74168 -91.24577 30.74123
    -91.24304 30.74093 -91.2416 30.74038 -91.23871 30.73988 -91.23579 30.73906
    -91.23182 30.73878 -91.23066 30.73854 -91.22991 30.73828 -91.22918 30.73761
    -91.22767 30.73684 -91.2264 30.73664 -91.22611 </polyline>
    <direction>BOTH_DIRECTIONS</direction>
  </location>
  <starttime>2019-09-04T10:00:00Z</starttime>
</incident>
  
```



511LA -ISSUES AND LIMITATIONS

- Issues and limitations
 - Having to provide polylines for all events.
 - Tuning the reliability, confidence, and grouping parameters.
There is a trade off between reducing noise and making sure no meaningful information is lost.
 - Lack of transparency on feed status, if events are getting flagged as needing correction/attention it would be good to have this communicated somewhere.
 - Partner feed dashboard
 - % of events that need correction with event ids indicated
 - Last Communication



Questions

LADOTD's Waze Integration

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THANK YOU!

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