

# Waze & Performance Measures Webinar

Kapsch/NCTCOG Wednesday, January 24<sup>th</sup>, 2018 9:30 AM









#### **Agenda**

1.	Team Introduction (9:30-9:45)
2.	Objectives of the workshop (9:45-9:50)
3.	IEN Simplified Event Entry Quick Demo Recap (9:50-10:20)
4.	511DFW Website Re-Design (10:20-11:15)
5.	Enhancements – Deployment Schedule (11:15-11:30)
	Lunch Break (11:30-12:45)
6.	Waze Bi-Directional Integration (12:45-2:00)
7.	Performance Measures Enhancements (2:00-3:45)
8.	Closing (3:45-4:00)

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#### **Team Introduction**







- Natalie Bettger
- Eric Quintana
- Marian Thompson
- Ranjith Dhanekula
- Juan Moreno
- Sudhakar Nallamothu
- Ahmad Sadegh
- Joe Zingalli

#### **Objectives of the Webinar**







- Quickly demonstrate the IEN Simplified Event Entry Enhancements
- Present 511DFW Website Re-Design Progress
- Discuss Waze Event Integration and Filtering Criteria
- Overview of Performance Measures
- Performance Measures Enhancements Demonstration
- Encourage the receipt of feedback from participants on all topics





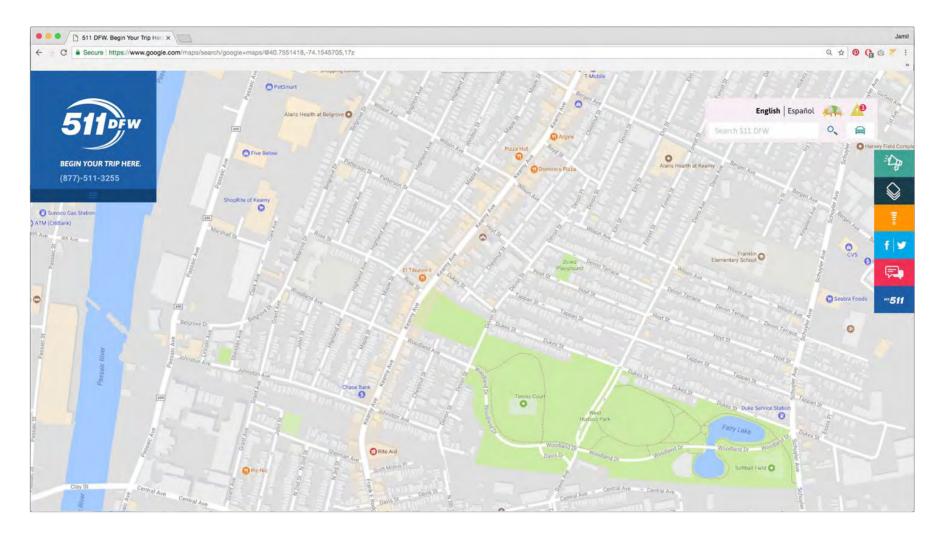


#### **IEN Simplified Event Entry Quick Demo Recap**





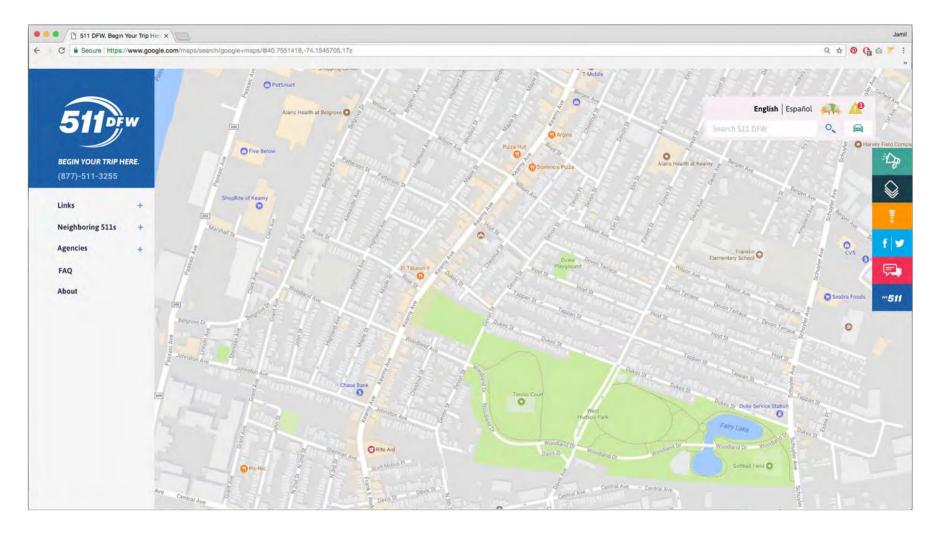








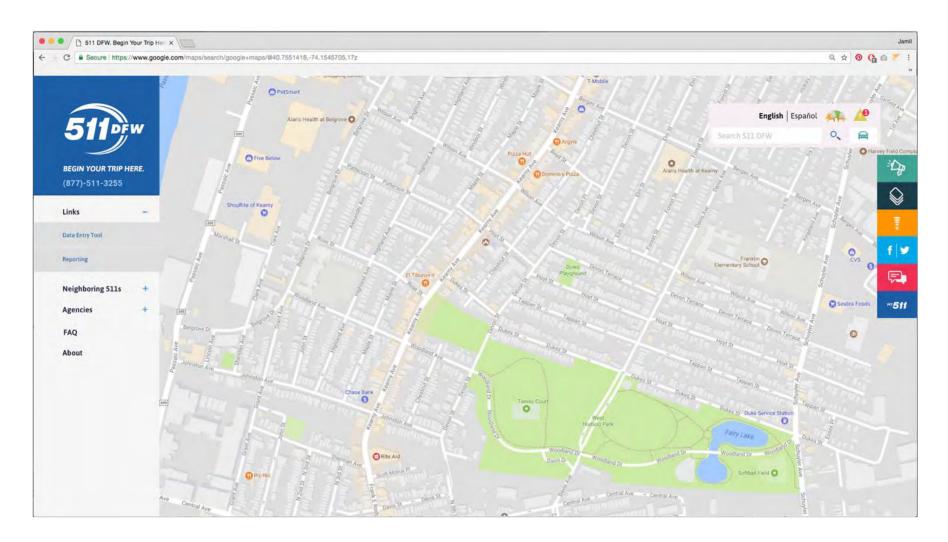








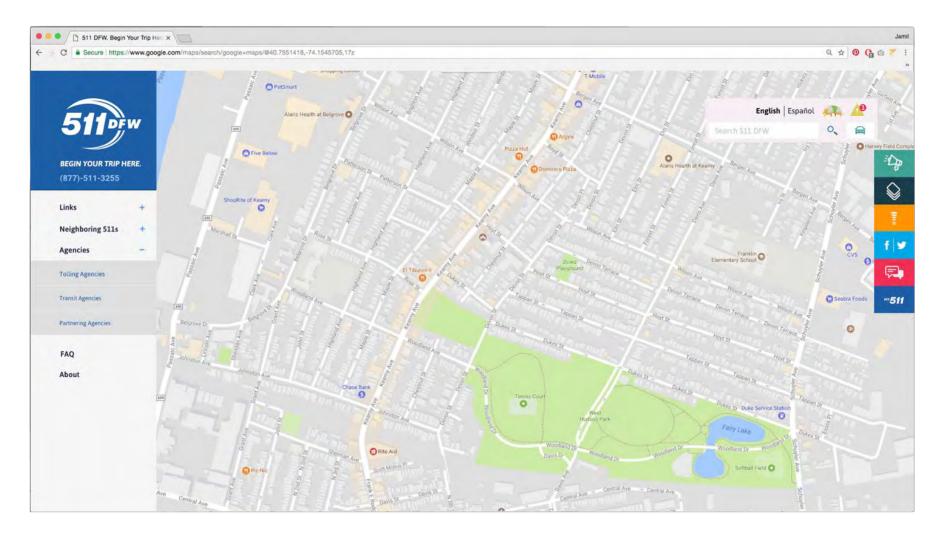








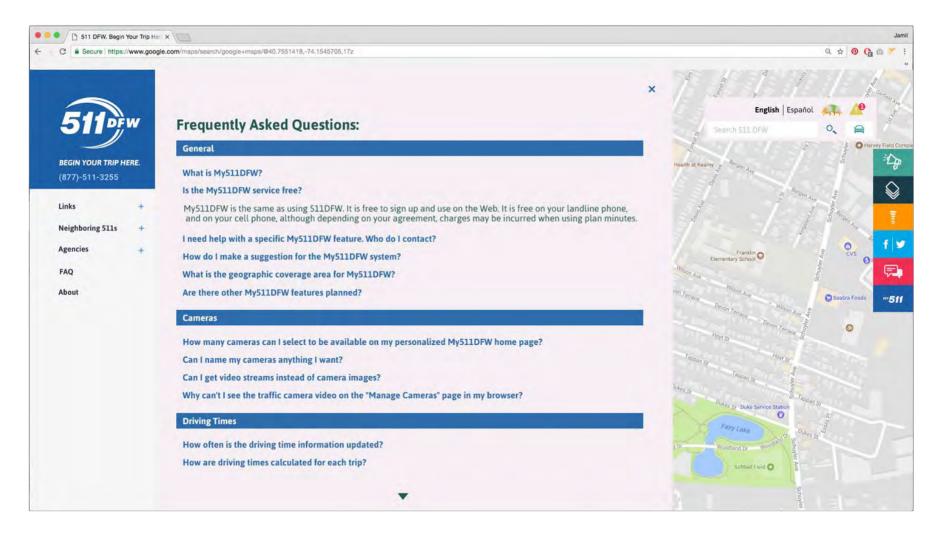








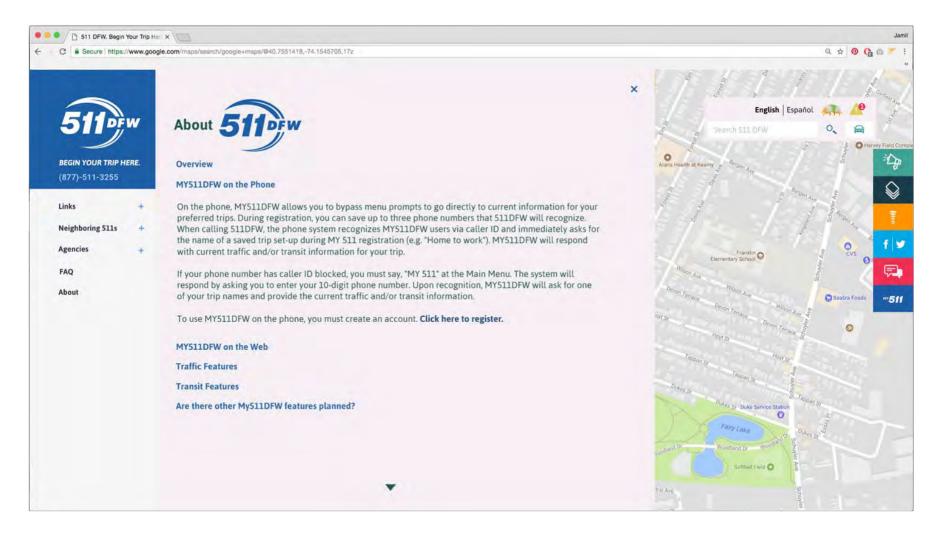








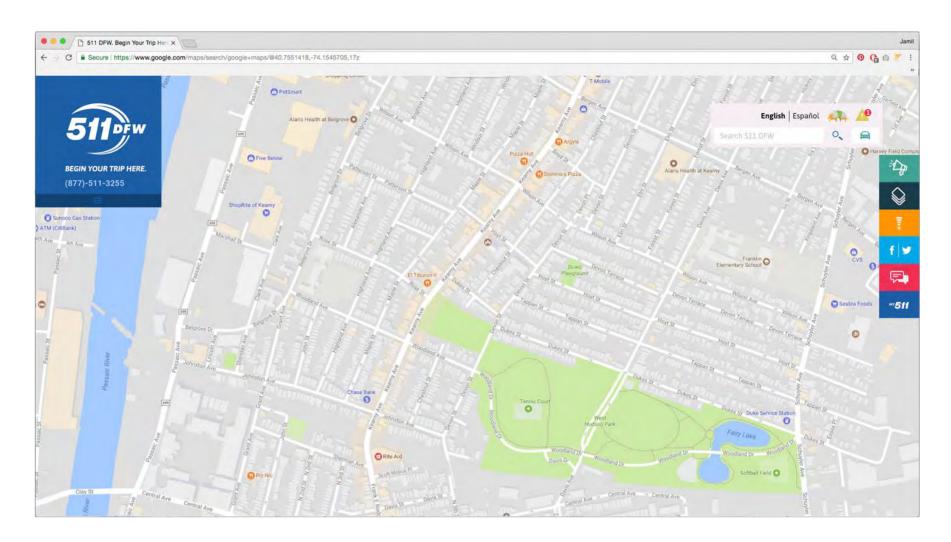








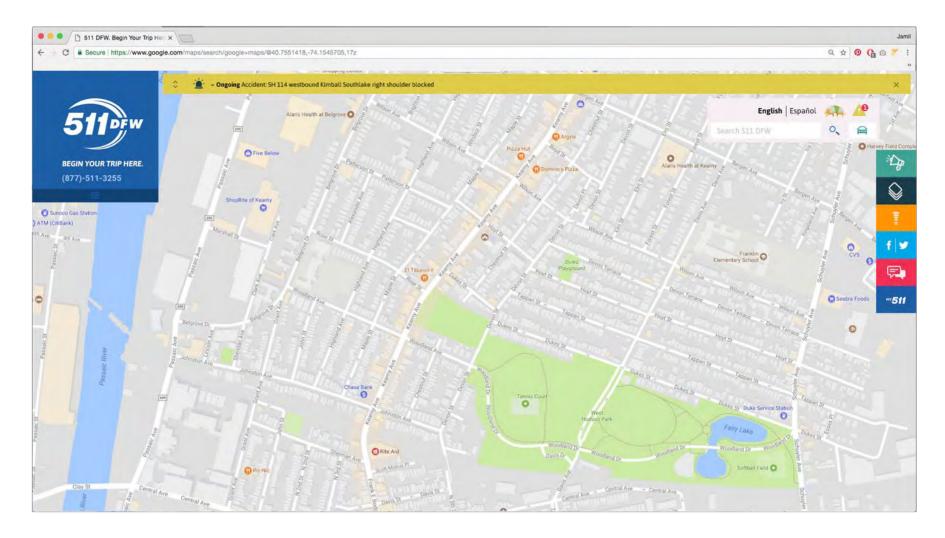








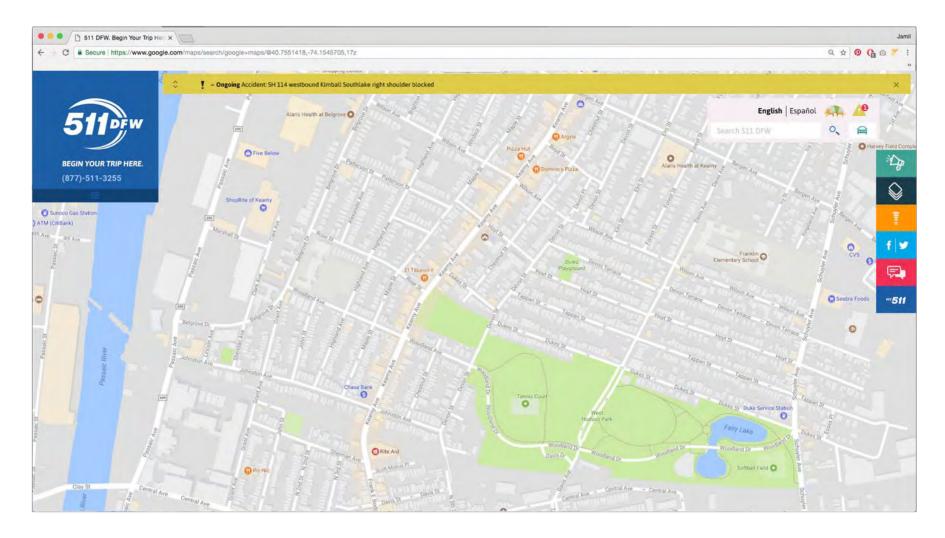








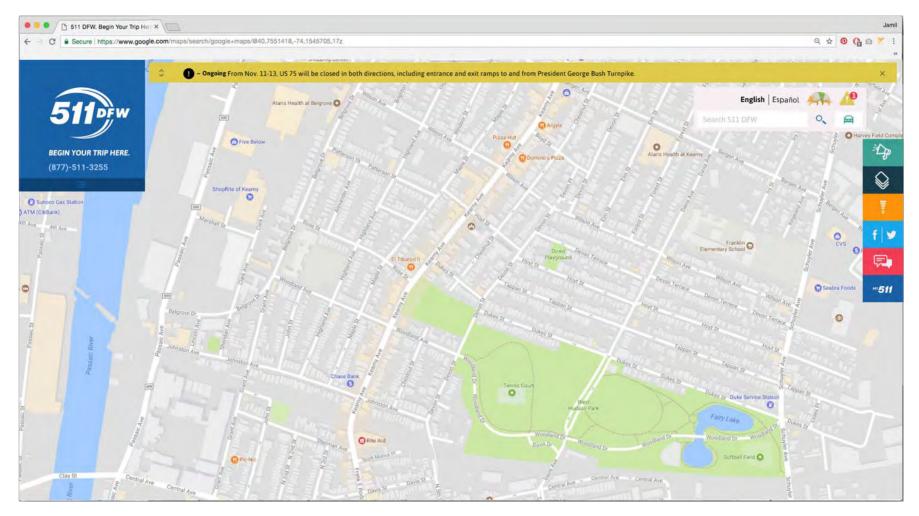








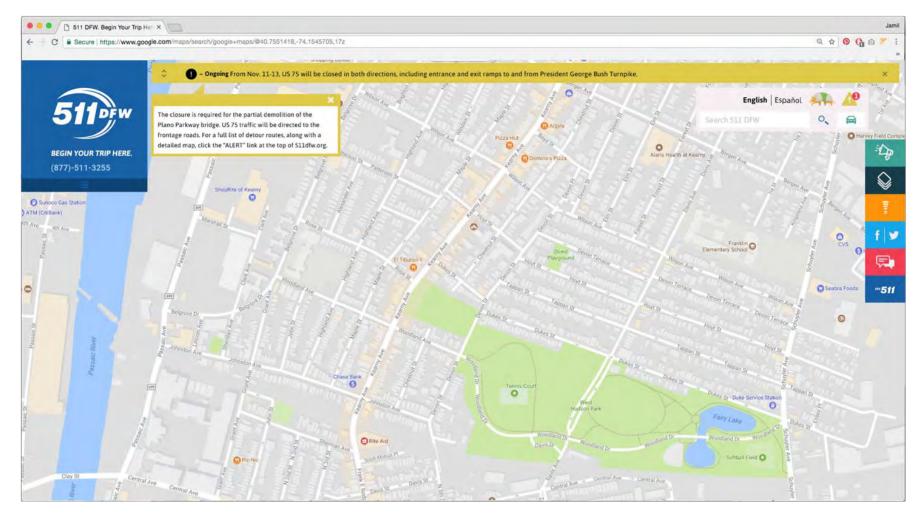








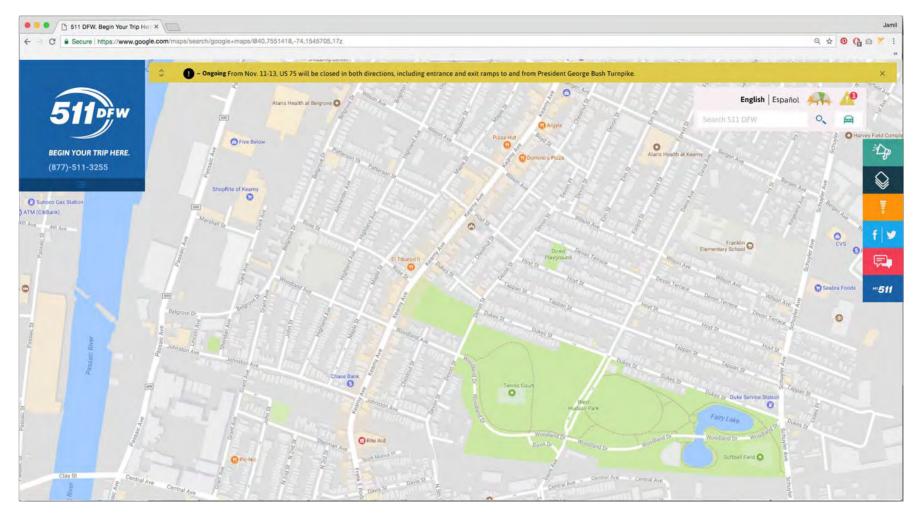








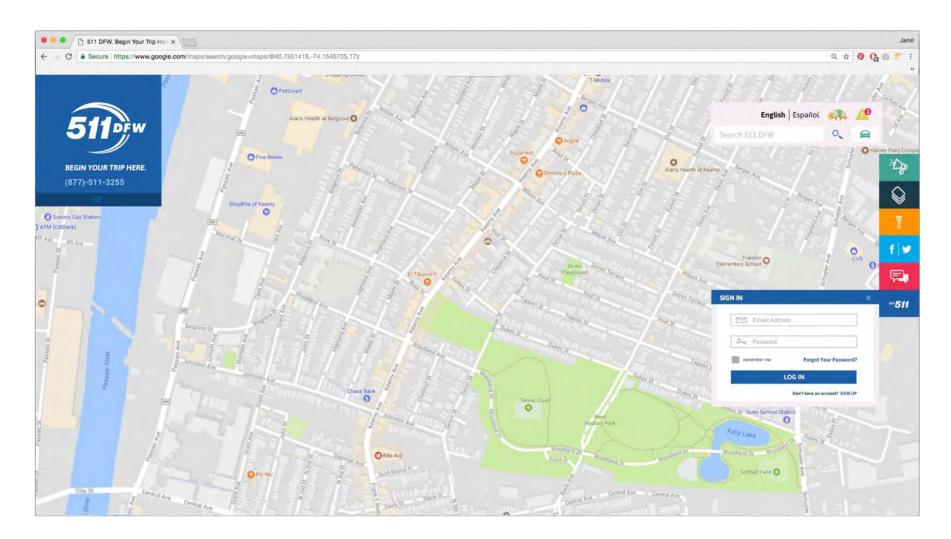








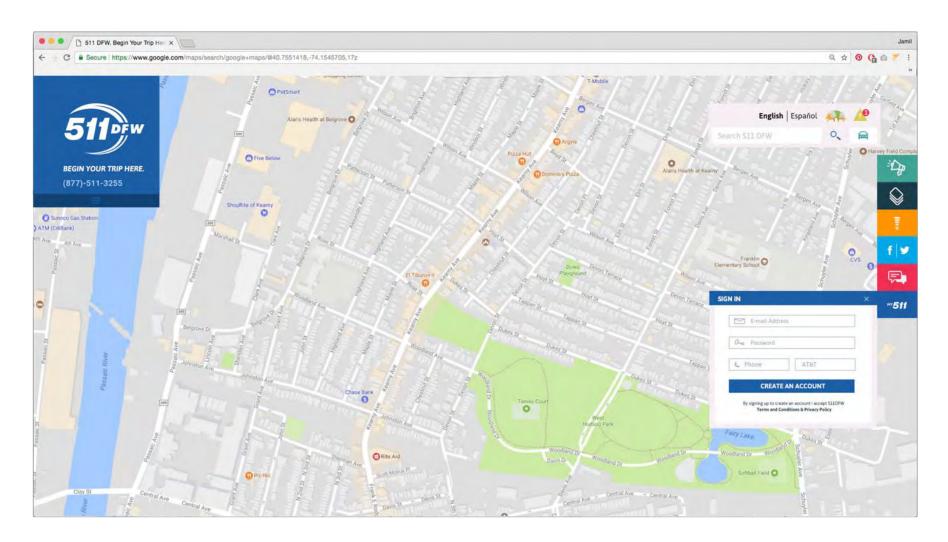








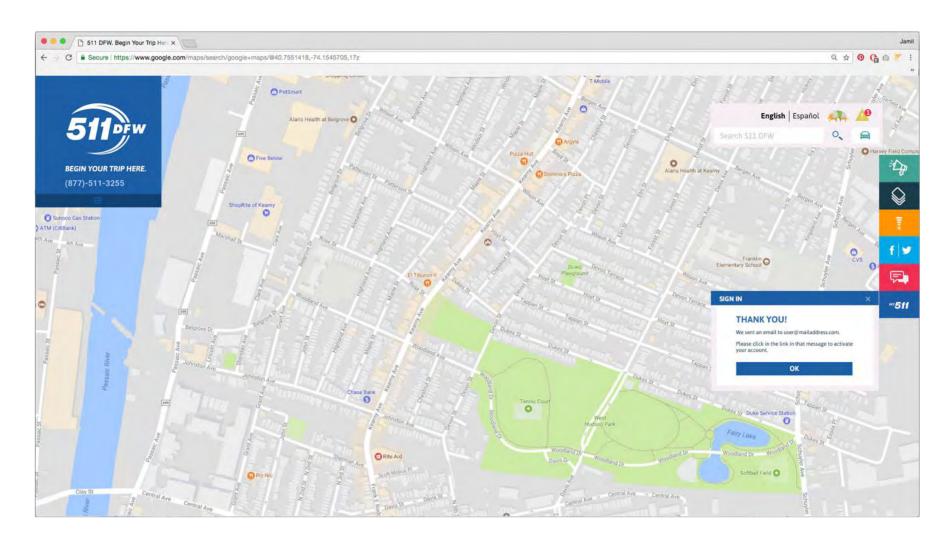








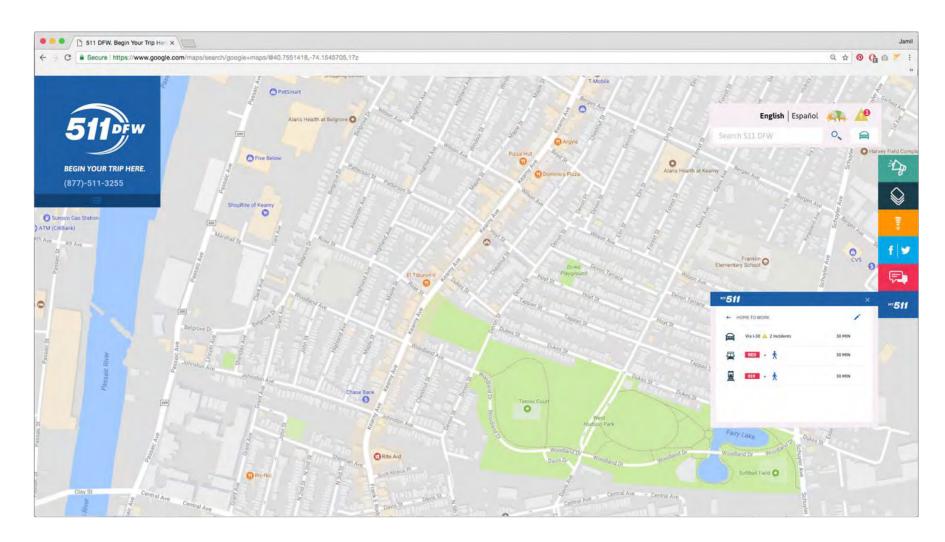








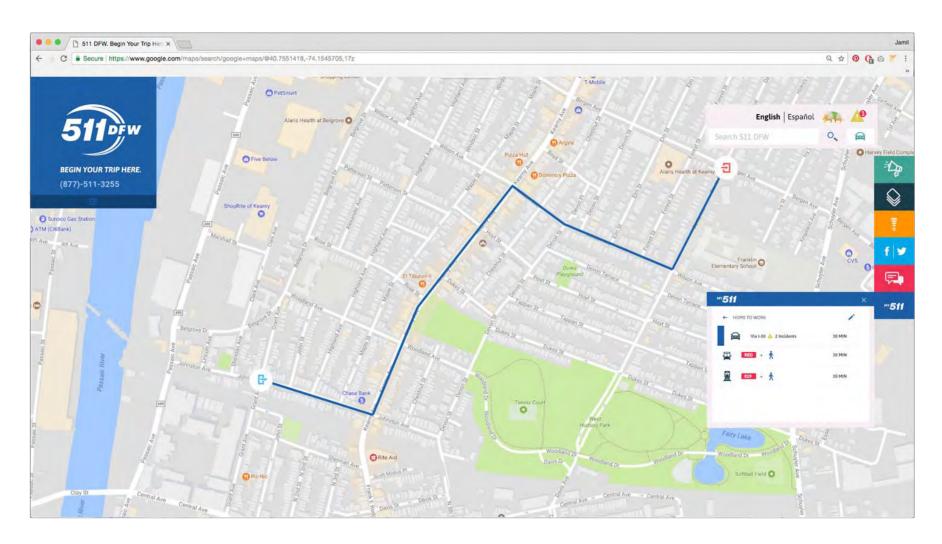








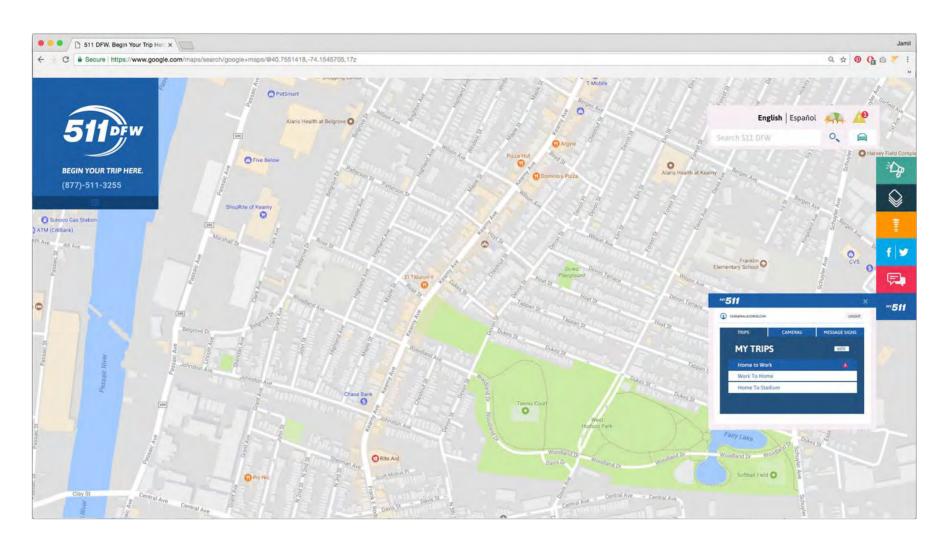








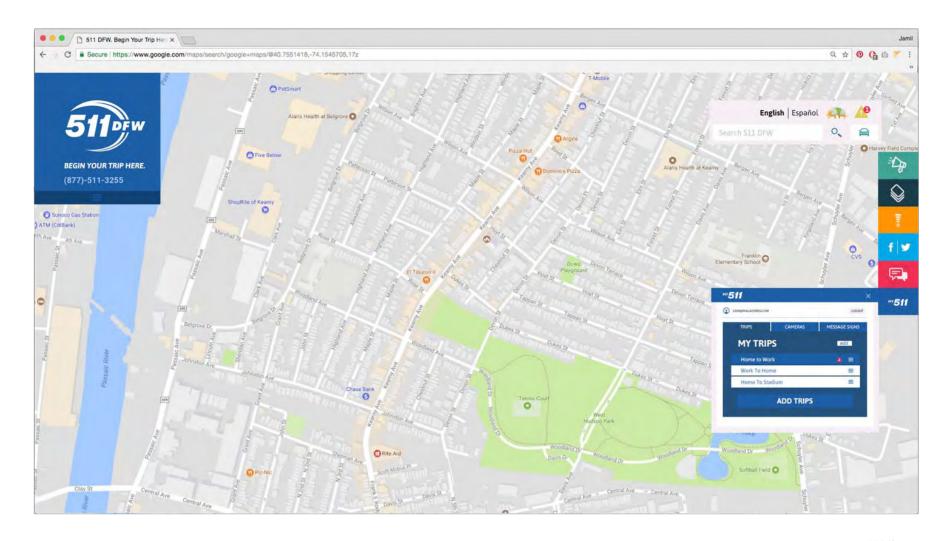








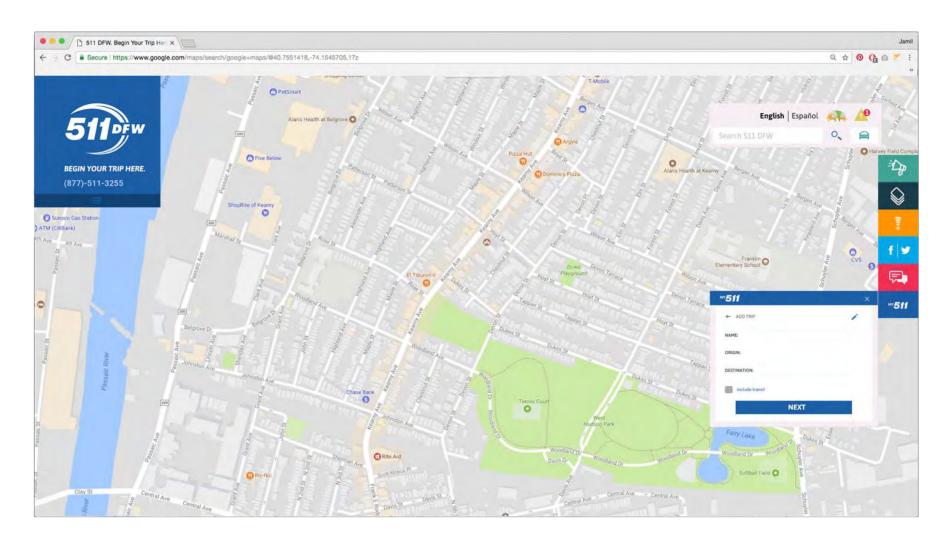








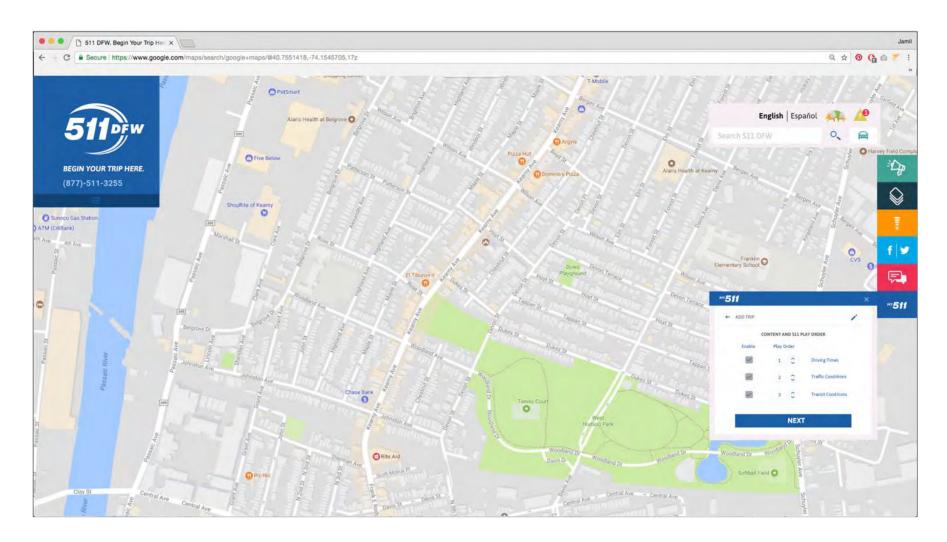








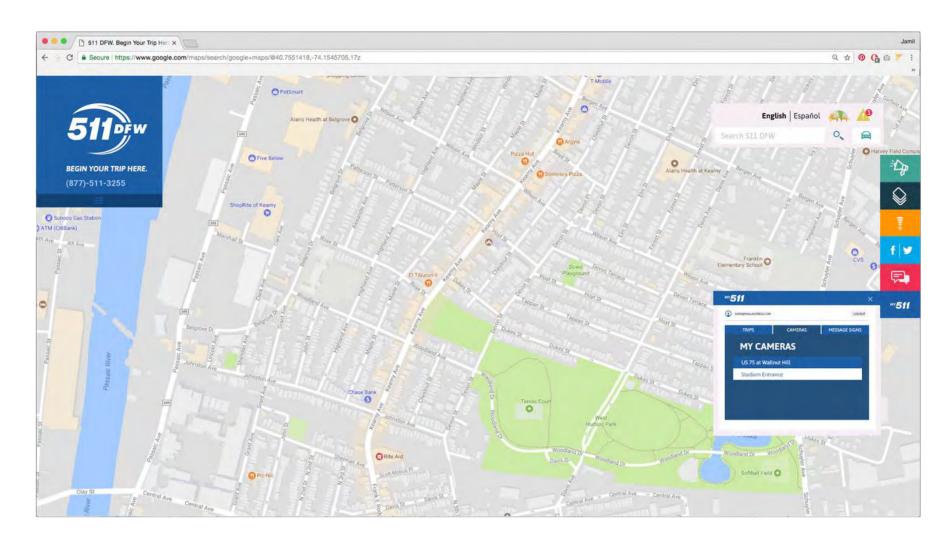








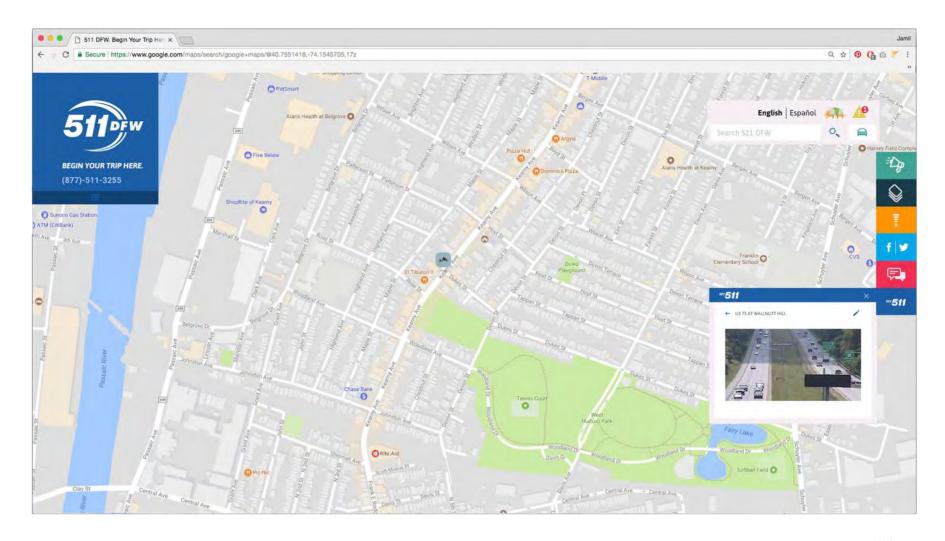








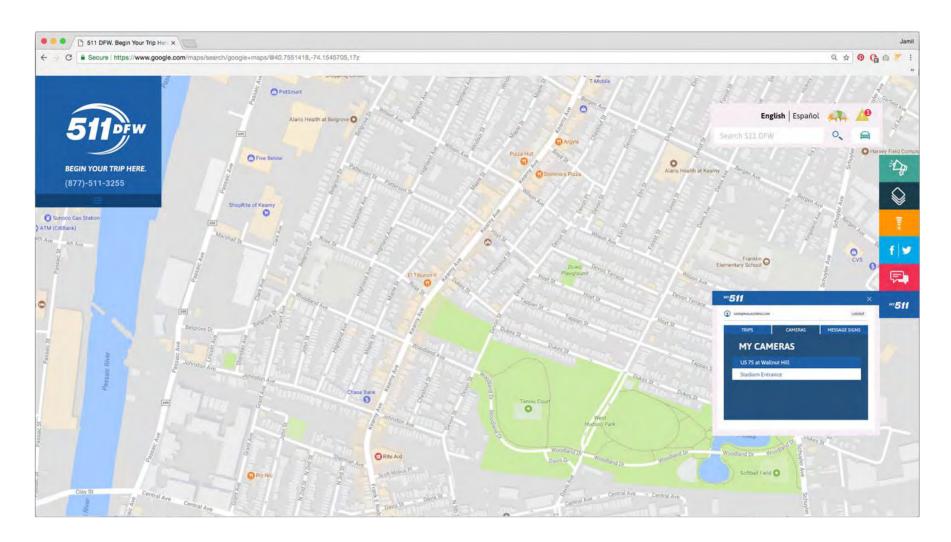








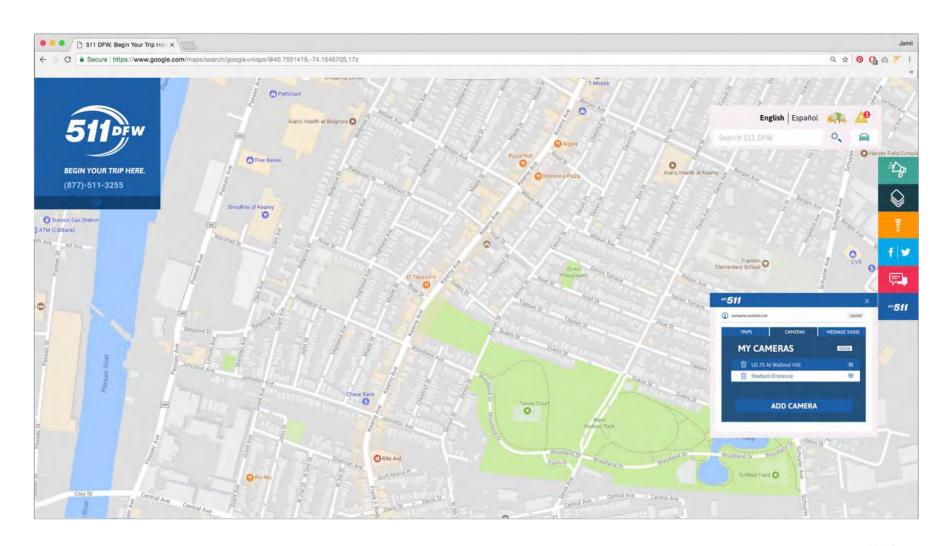








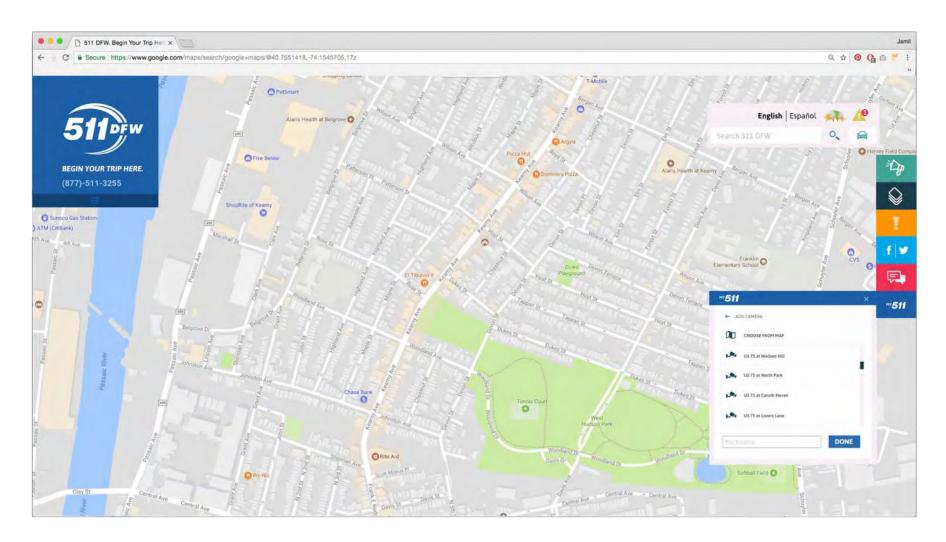








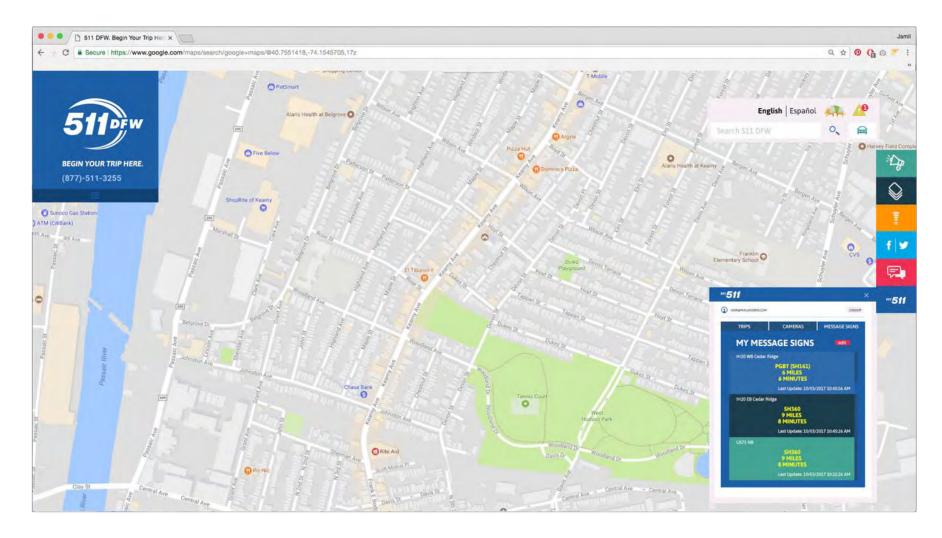








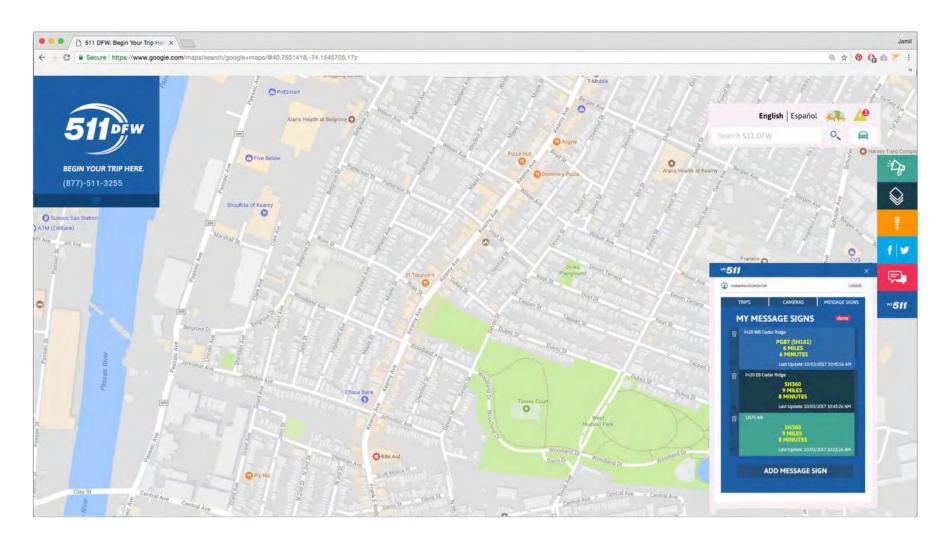








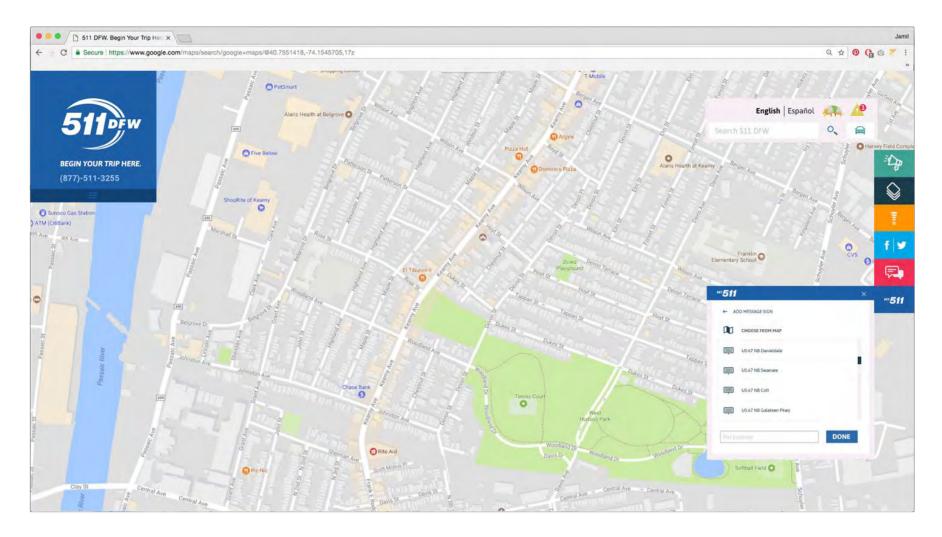








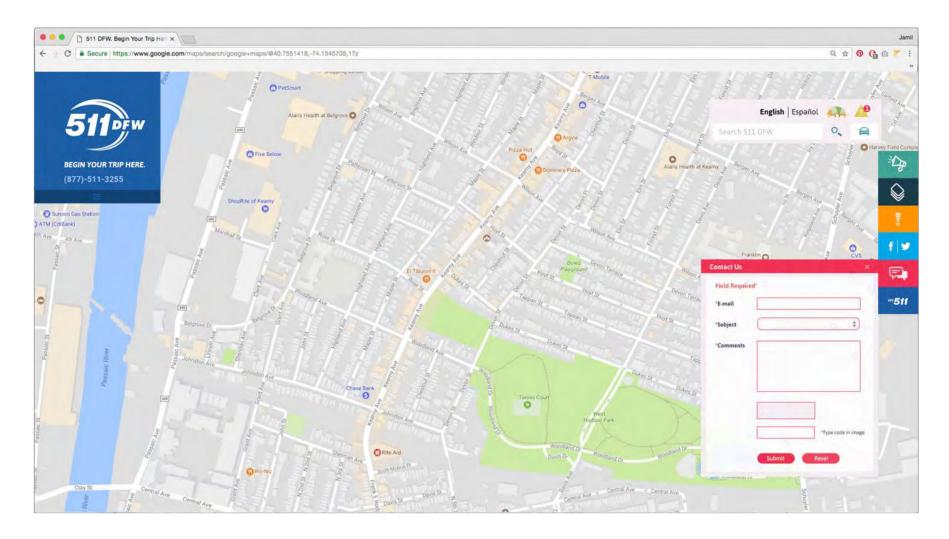








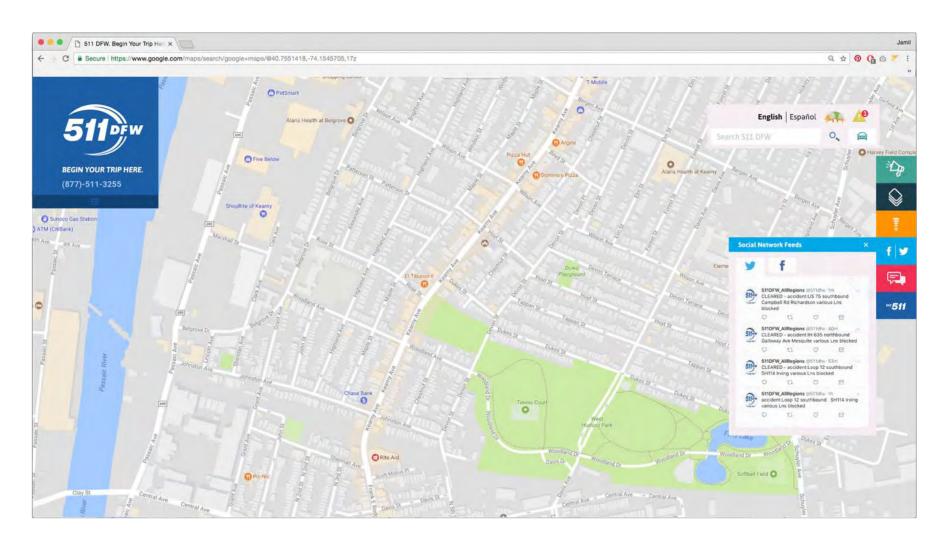








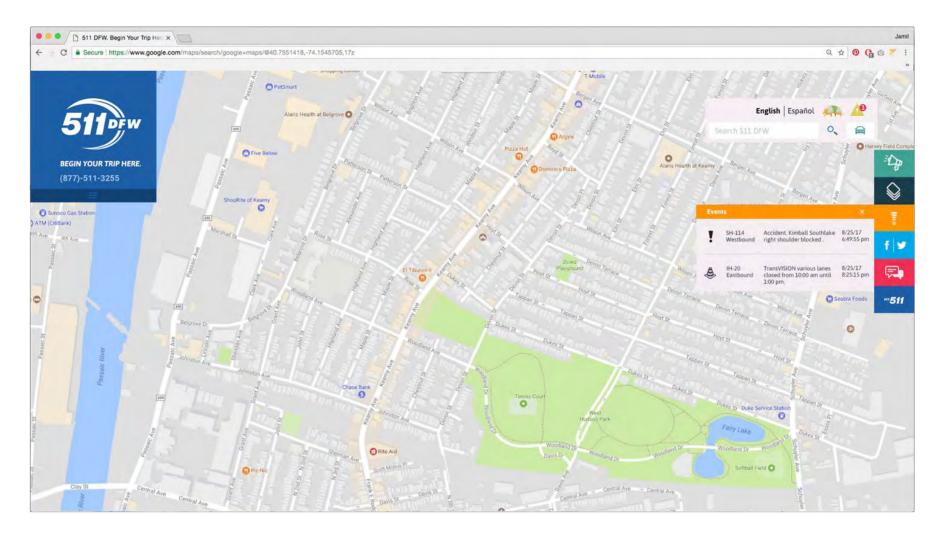








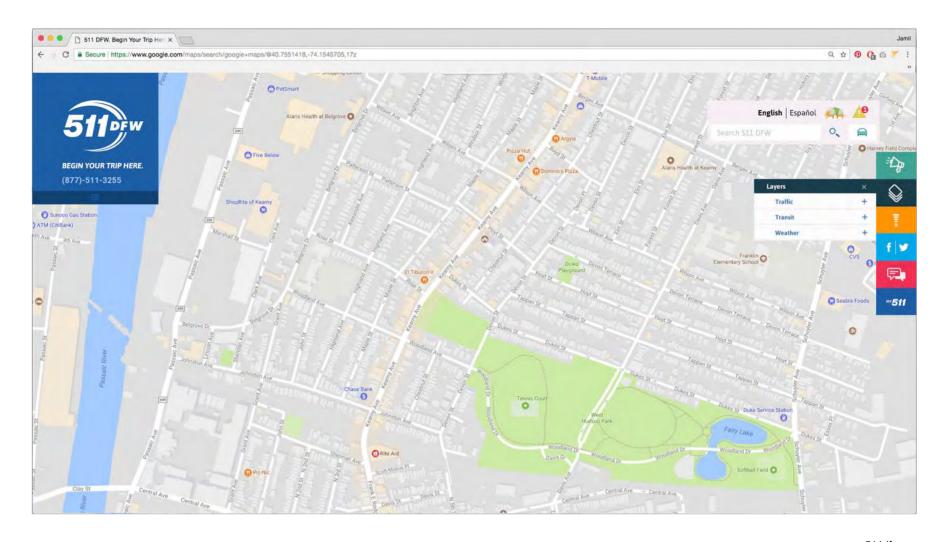








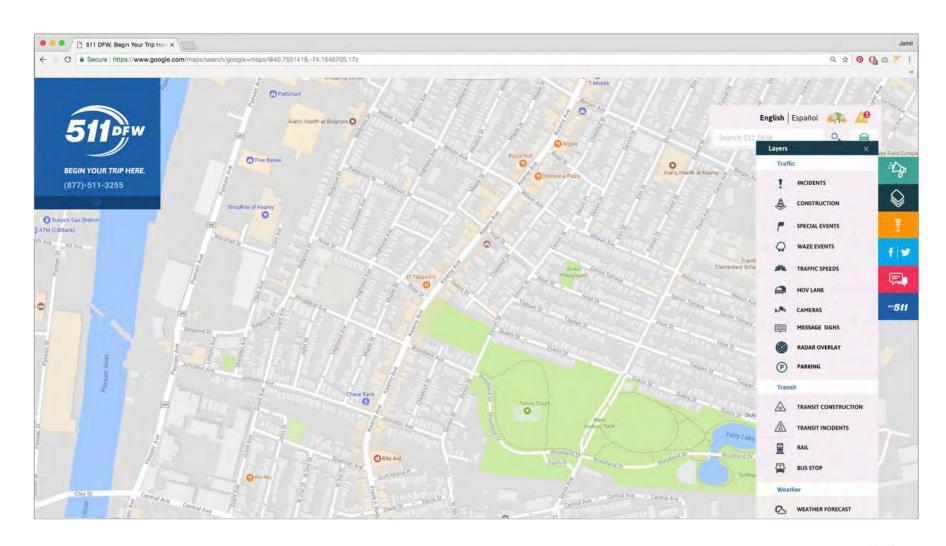








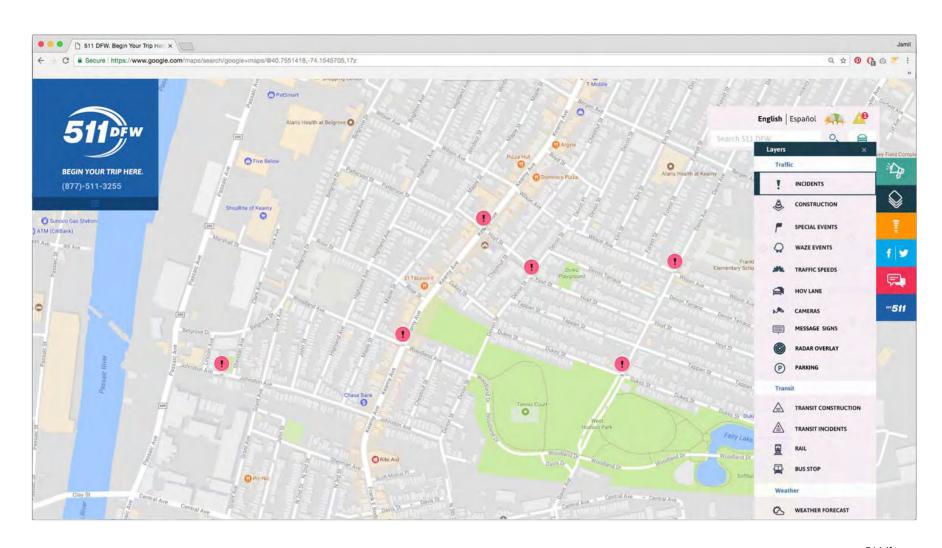








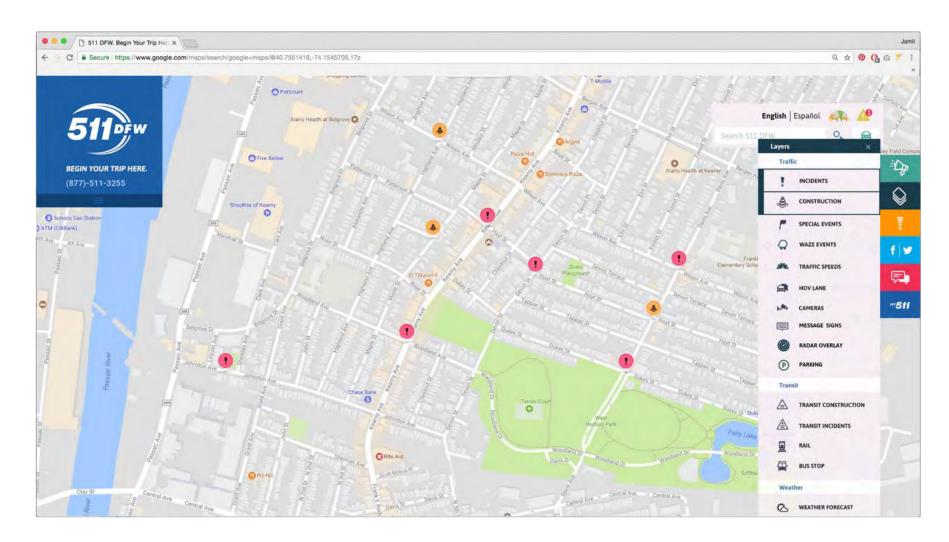








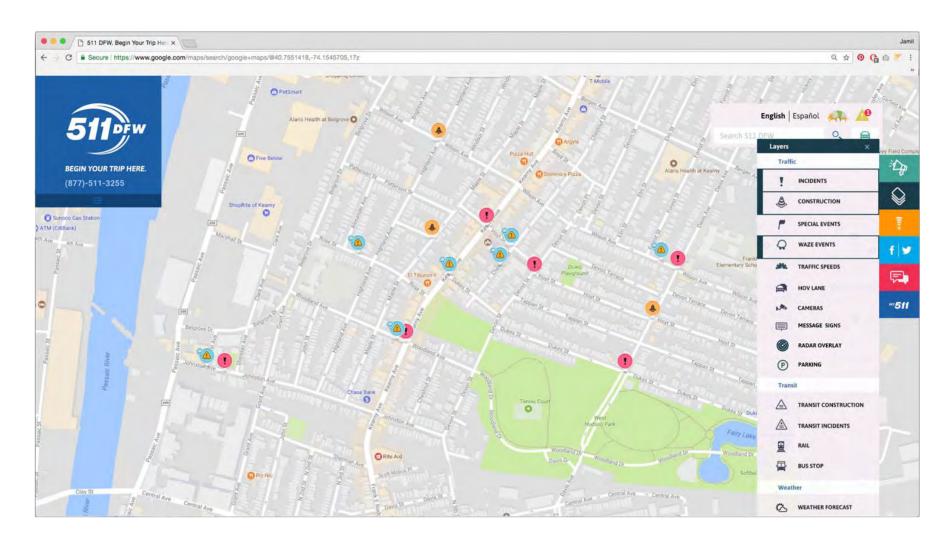








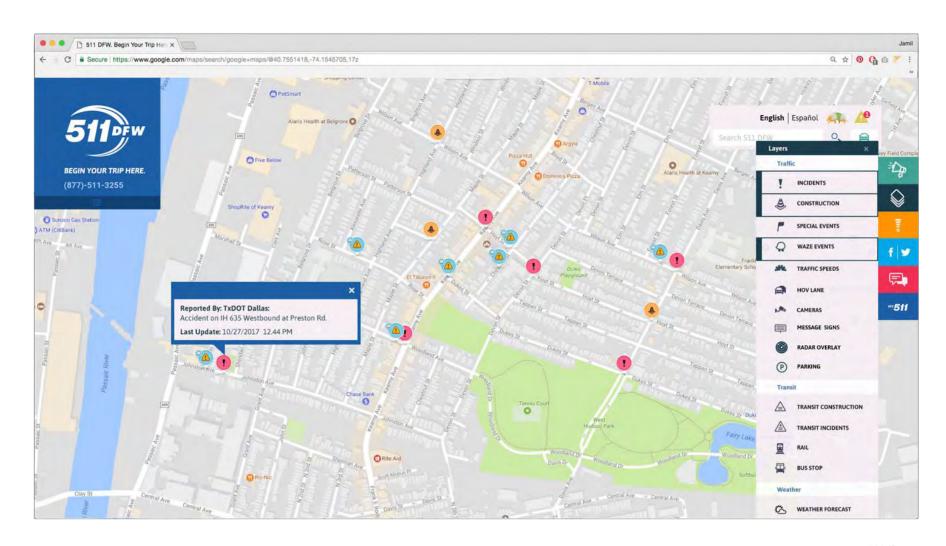








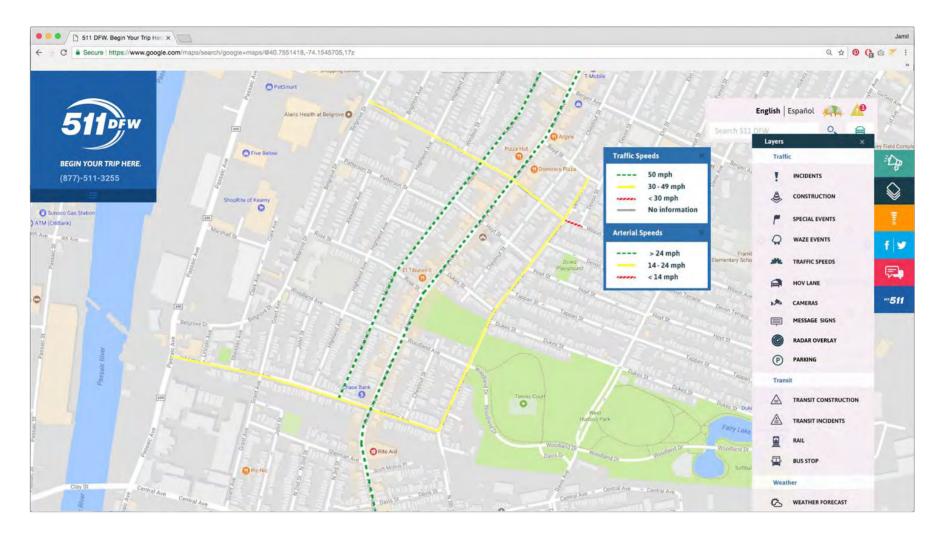








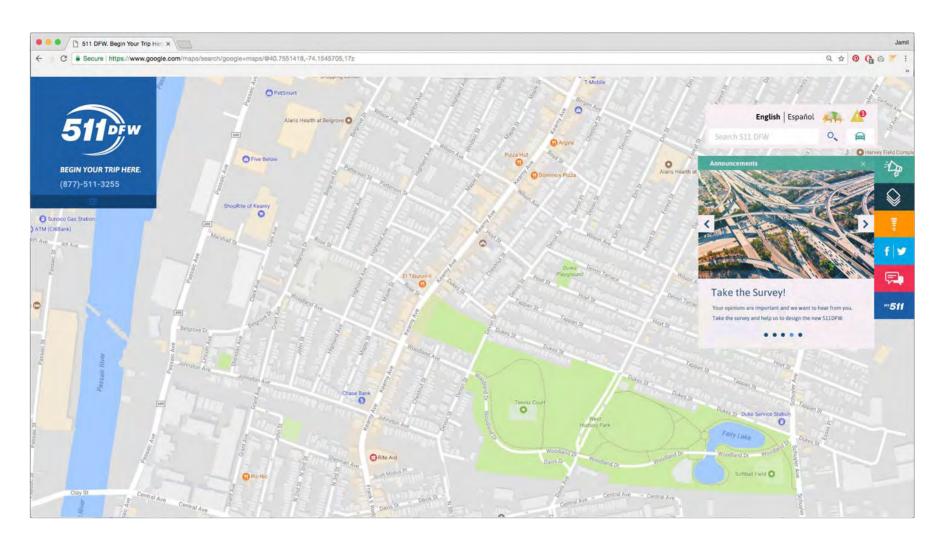








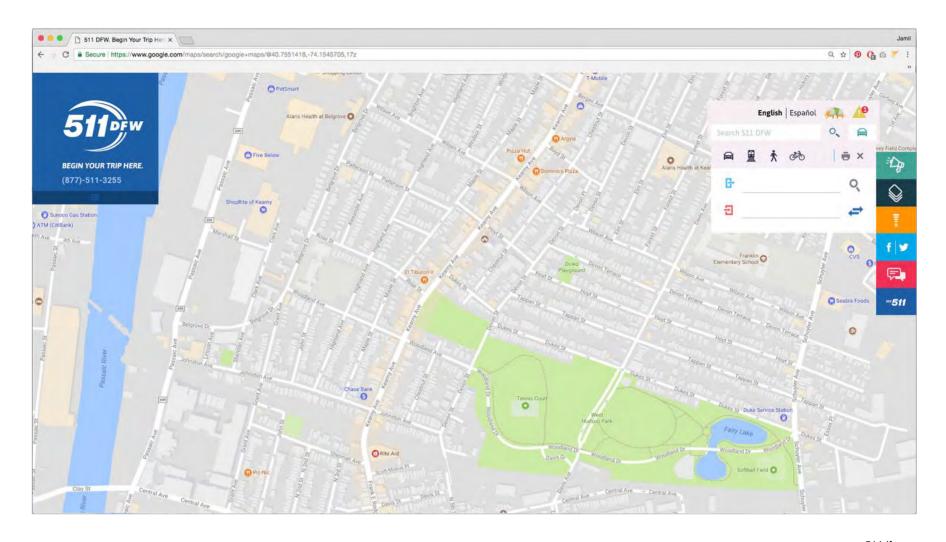








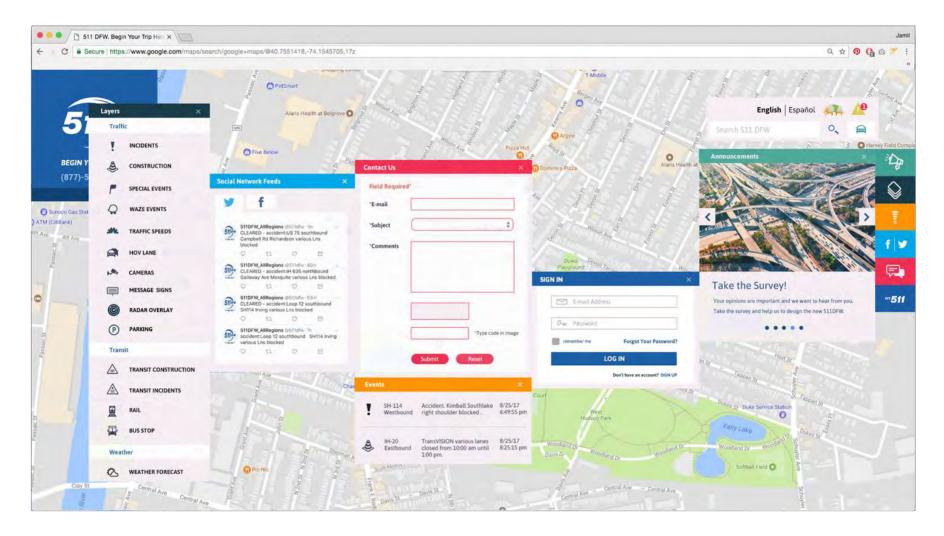








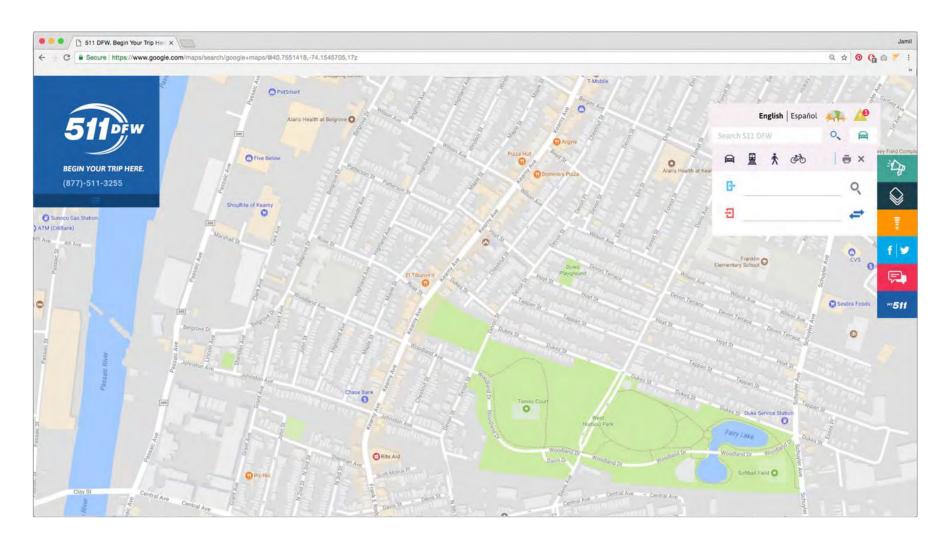












### **511DFW Enhancements**







#### Deployment Schedule

- IEN Simplified Entry upgrade in production week of Dec 15<sup>th</sup>, 2017
- Waze Data Interface to provide Event data to Waze week of January 5<sup>th</sup>, 2018
- Integrate Waze data into 511DFW in production in June 2018
- Performance Measures updated in production in June 2018
- 511DFW Re-Designed Bilingual Website in production in July 2018
- Bilingual 511DFW IVR in production in July 2018







#### **Lunch Break**

(1 Hour and 15 Minutes)







- Bi-Directional Data Integration:
  - -Waze > 511DFW (Waze Subscriber)
  - -511DFW > Waze (Waze Publisher)
- Waze provides 3 types of events (all currently integrated into the 511DFW system):
  - -Alerts
  - -Jams
  - Irregularities







#### Proposed Filtering Criteria - Purpose

Purpose Behind Filtering Certain Waze Events

- Waze can provide:
  - Events on road types that are not useful for public consumption
  - Events that have low confidence and/or low reliability
  - Events with certain subtypes that do not affect traffic
  - Duplicated event data that should be filtered
- Filters can be customized by modifying a translation file without changing any code





#### Proposed Filtering Criteria (I)

- Road Types
  - Alerts and jams associated with certain road types are consumed (Ex. Streets, Freeways, Ramps, etc.)
  - Alerts and jams associated with certain road types are filtered out (Ex. Trails, Ferry Crossing, Stairway, Railroads, etc.)
- Confidence and Reliability
  - Waze alerts and jams with confidence and/or reliability value less than
    5 are filtered out
- Types and Subtypes
  - -Waze alerts and jams with certain combination of alert types and sub types are consumed (Ex. Major accident, heavy traffic jam, etc.)
  - -Waze alerts and jams with certain combination of alert types and sub types are filtered out (Ex. Jam light traffic, hazard on shoulder, etc...) 5111dfw.





### Proposed Filtering Criteria (II)

- Blocking Alerts
  - Jams related to road closures are filtered out to reduce duplicated events
  - Alerts are already created for road closures
- Duplicate Alerts
  - Waze feed can contain duplicate alerts with identical published date, type, subtype, street and city







#### Presenting Waze Data to the Public (I)

- Public Website and Mobile Application Map Integration:
  - Provide Waze event data as a separate map layer
  - Separate Waze event data into Alerts, Jams, and Irregularities sublayers
- IEN Integration:
  - Provide Waze event data as a separate map layer
  - Separate Waze event data into Alerts, Jams, and Irregularities sublayers
  - -Waze events read only and cannot be managed by IEN Operators







#### Presenting Waze Data to the Public (II)

- IVR Integration:
  - -Waze event data to be provided to phone system ONLY if event data can be mapped to a 511DFW location
    - Events need proper facility, direction, and intersection translation to 511DFW network
    - Without proper mapping translation, Waze events cannot be made available on the phone







#### **Waze Integration Demonstration**

(Utilizing prototype showcase website)

http://ppweb.511dfw.org:8081

#### **Web Services Demonstration**

(Accessing Your Data)

http://4.31.137.92/DFW511/PublicWebServices/DFW511\_WebServices.asmx







#### **Performance Measures Enhancements**

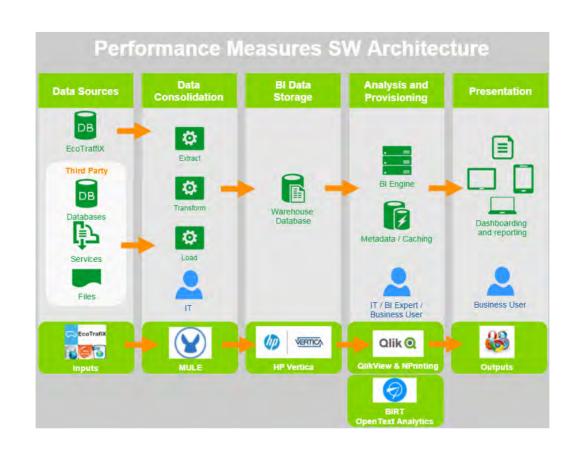
#### **Performance Measures**







#### **Architecture**









#### **Performance Measures Demonstration**







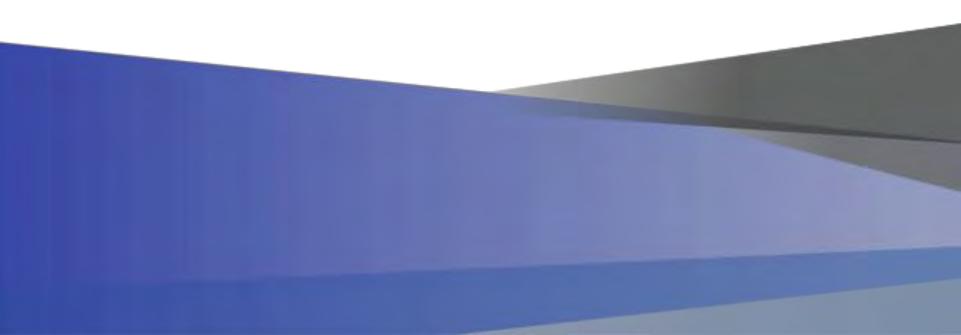
#### **Comments and Questions**







### Closing



#### **Contact Information**







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# Thank you! NCTCOG/Kapsch