

Waze Integration (City Services in the Age of Crowdsourcing)

Presented by Doug Gideon



Doug Gideon

- 19 years as a programmer and Database Administrator
- 5 years at the City of Fort Worth
- 2 years working with Waze in the Connected Citizens program

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- What is Waze?
 - A free community-based traffic and navigation app
- What does it do?
 - Uses crowdsourced data to find optimal routes and reduce traffic congestion
 - Allows users to report hazards
 - Collects GPS information from users



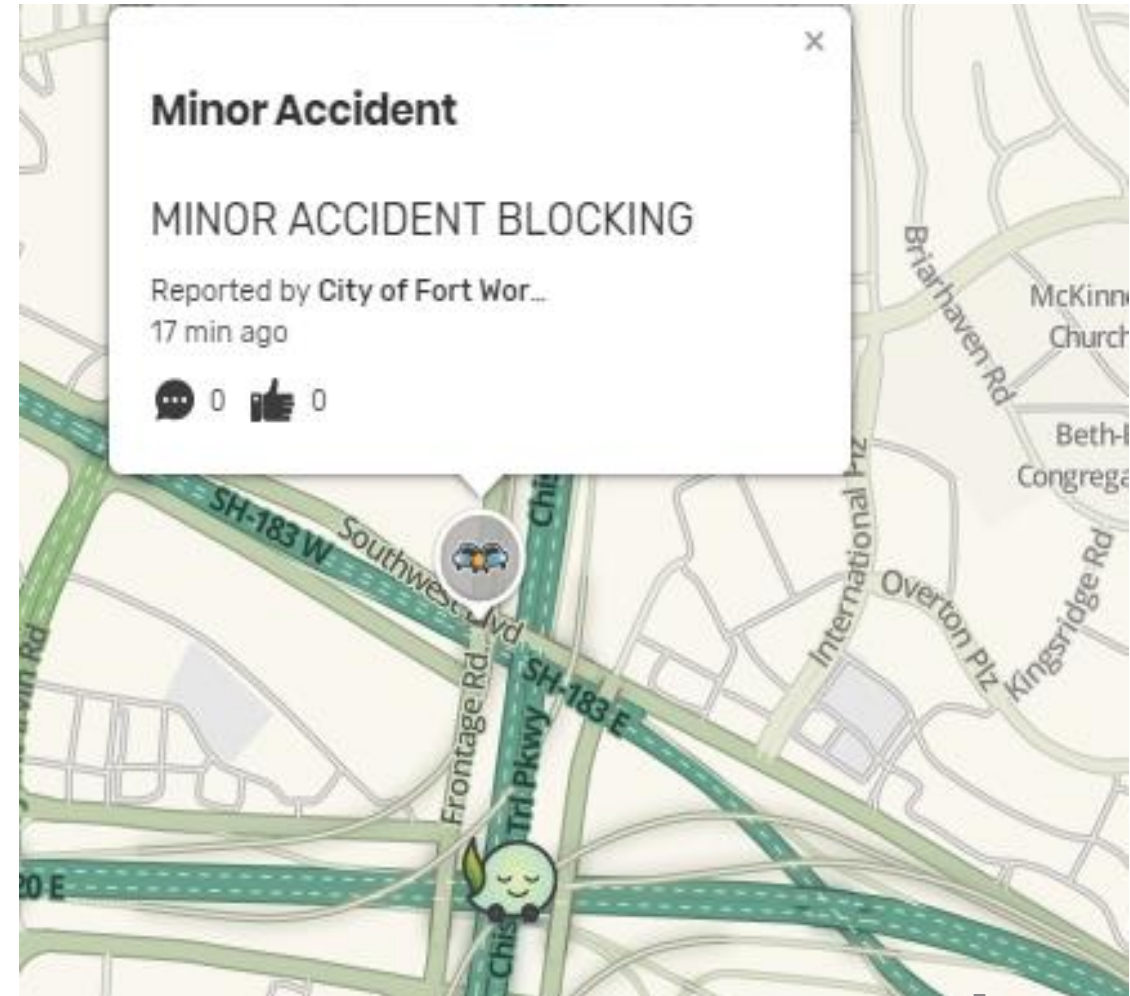
Connected Citizens Program

- Two-way data exchange between government entities and Waze
- Real-time reporting of:
 - Road closures
 - Accident reporting
 - Major traffic events
 - Traffic jams



Sending Data to Waze

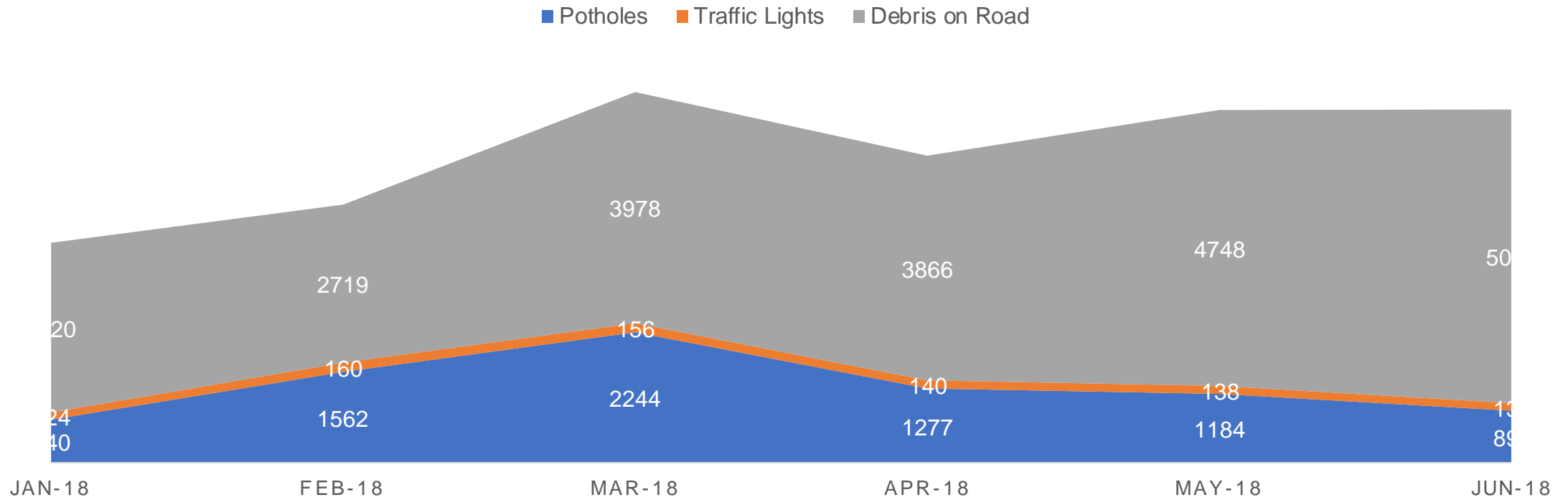
- Intervals up to once per minute
- XML, JSON, KMS formats
- Traffic accidents
- Road closures, construction
- Road closures, special event
- Crisis / natural disasters
- Extreme weather events



Retrieving Data from Waze

- Intervals up to once per minute
- XML, JSON formats
- Traffic jams (speed, location, length of slowdown)
- Road hazards (potholes, objects on road, missing or inoperable signs and signals, construction)
- Weather hazards (flooding, ice)
- Each incident has a confidence and reliability score

What information is available?

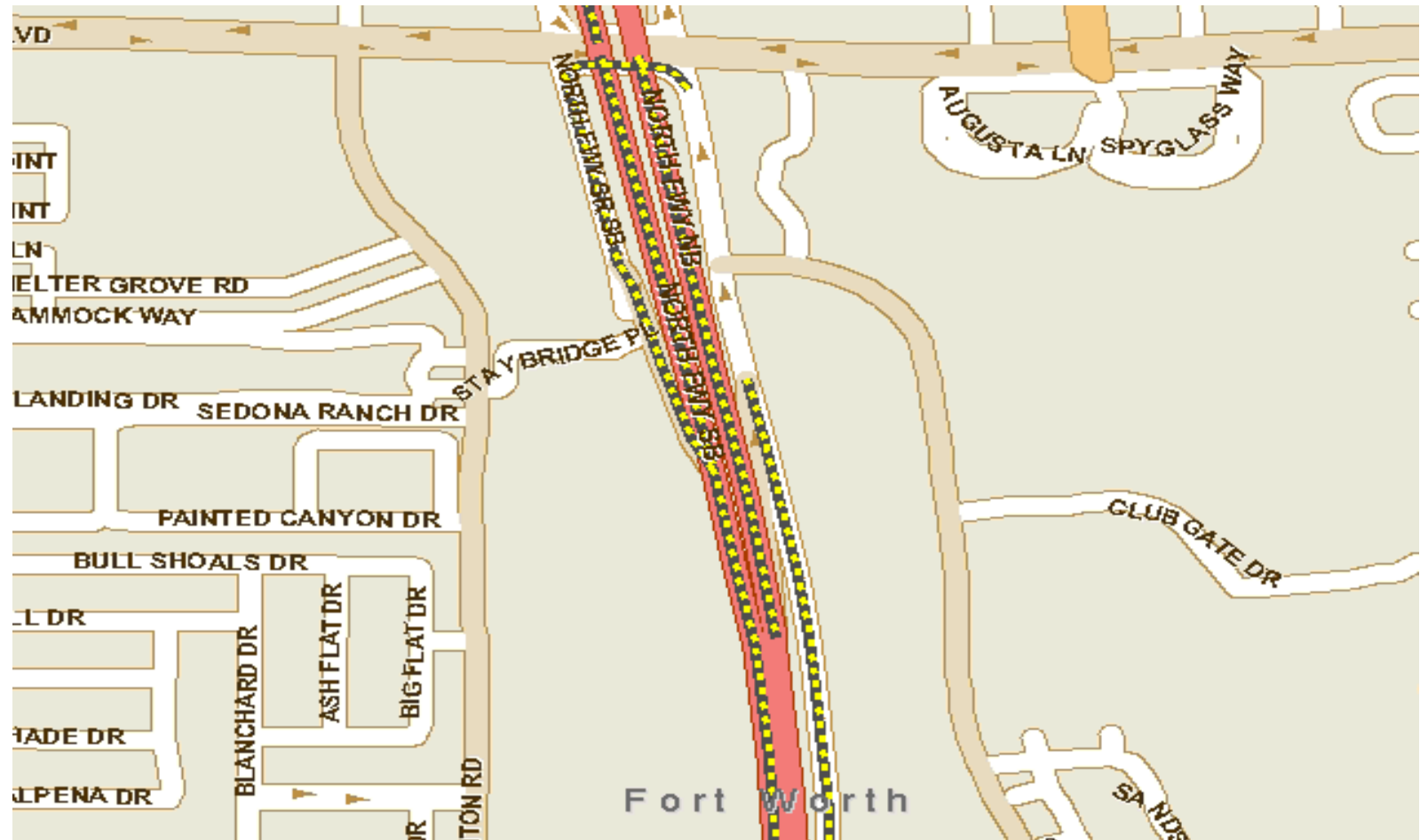


Current Projects

Integration with Fire/Police Dispatch

Improves:

- Unit selection
- Routing
- Response times



Accident Feed to Waze

- Accidents entered into the CAD system are exported to Waze at 5 minute intervals
- Allows Waze to alert users and reroute traffic to reduce travel delays.



What's Next?

- Send Waze reports to our CRM system to generate work tickets (Potholes, debris, abandoned vehicles, roadkill, traffic signal issues)
- Send high water reports from Waze to our Stormwater department
- Analyze traffic jam data to improve traffic congestion
- Export road closure information to Waze

Resources:

- Waze CCP:
 - <https://www.waze.com/ccp>
- Waze Case Studies:
 - <https://is.gd/Avwvla>
- Wazeopedia:
 - <https://wazeopedia.waze.com/>
- Open Data Portal:
 - <http://opendata.fortworthtexas.gov>

Thank you

