



WAZE – FDOT Integration

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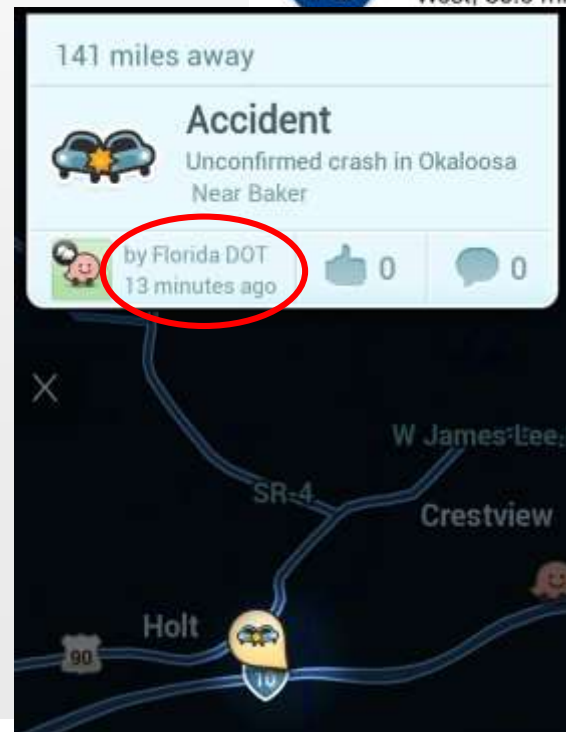
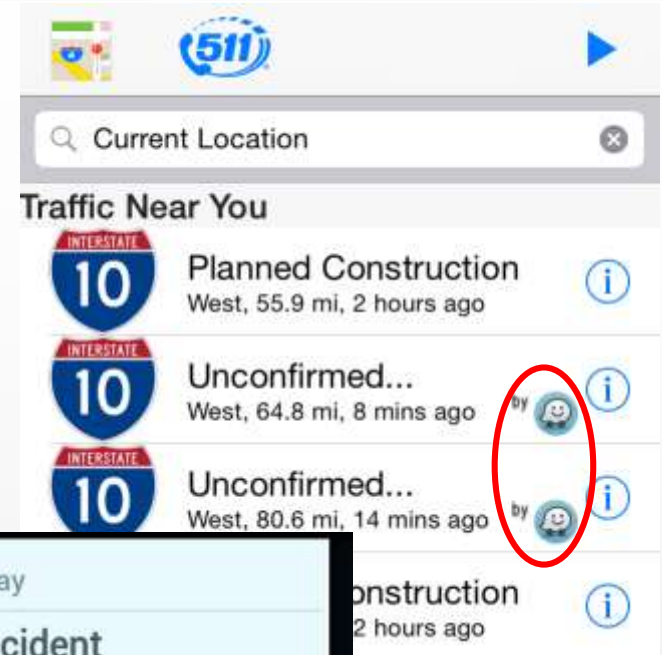


Objectives

- Obtain incident data from Waze on Florida's roadways
 - For Arterial Roads
 - For non-instrumented sections of limited-access highways
- Provide FDOT data to Waze
 - reach more motorists

Agreement

- Data sharing agreement effective 3/28/2014
- Requires attribution by both parties



FDOT to Waze Data Sharing

District Public Information Office

- Provides Planned Road / Lane Closures



Waze

- Receives FDOT Data
- Provides Crowd-Sourced Data

FDOT Regional Transportation Management Centers (TMC)

- TMC receives planned closures
- TMC Operators produce incident data
- Intelligent transportation systems (ITS) detectors produce traffic conditions data

FL511 System's Third Party Data Feed

- Collects data from TMCs statewide
- Packages data as single data feed



SunGuide[®] Software

- FDOT's statewide advanced traffic management system (ATMS) software
 - Integrates ITS devices and TMC operations
- Waze data integrated into SunGuide software
- Two phases:
 - Quick integration (phase 1)
 - Long-term integration (phase 2)

Decisions – Data Filtering

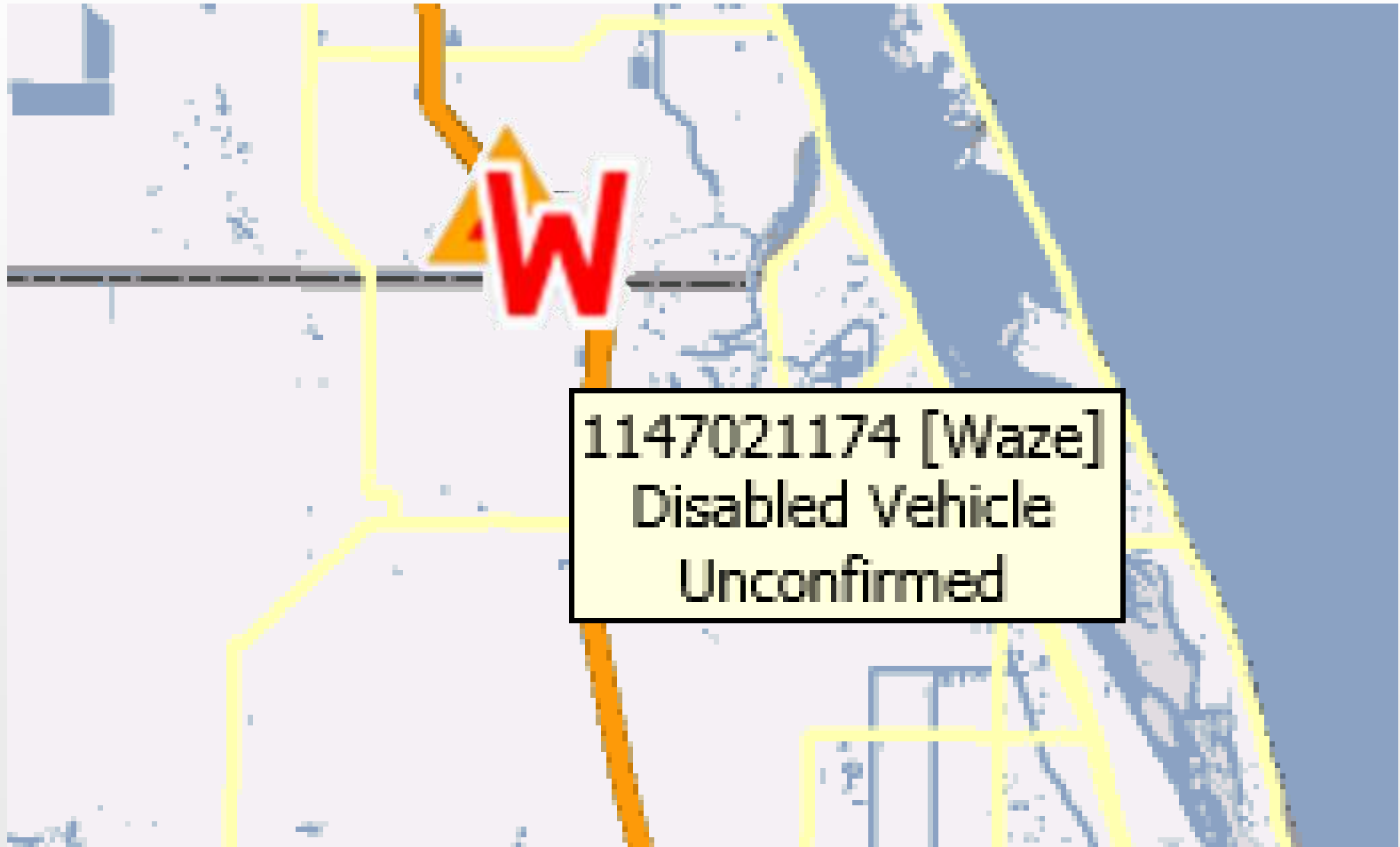
- What do we need to provide?
 - Sending data to operations
 - Some data filtered out
 - Police locations
 - Weather conditions
 - Other / chit-chat
 - Miscellaneous

Decisions – Data Distribution

- Other filtering decisions
 - Decentralized with seven Districts and a Turnpike Enterprise.
 - Districts do not need statewide data
 - Districts monitor the state roadway system



SunGuide Integration – Map Icon

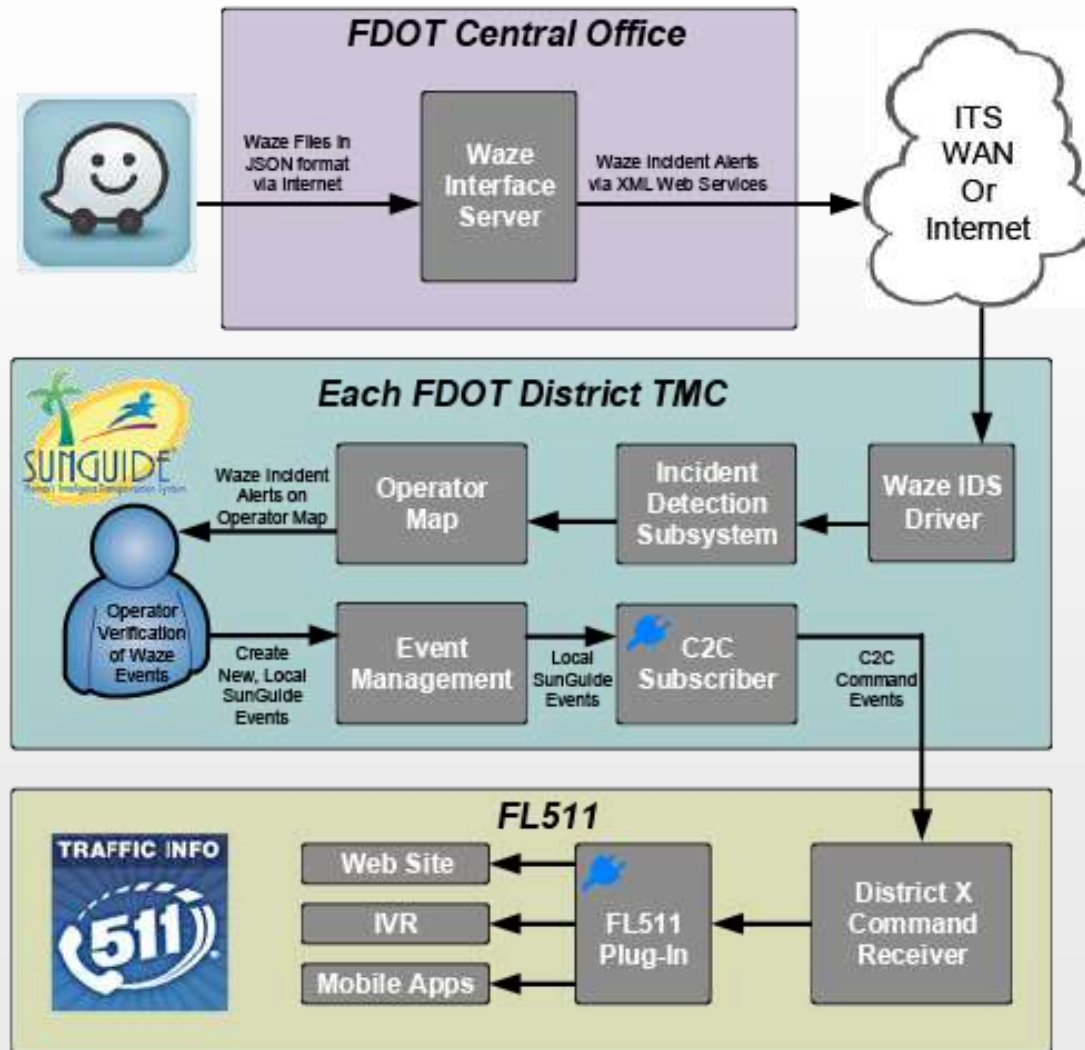


SunGuide Integration

Goals:

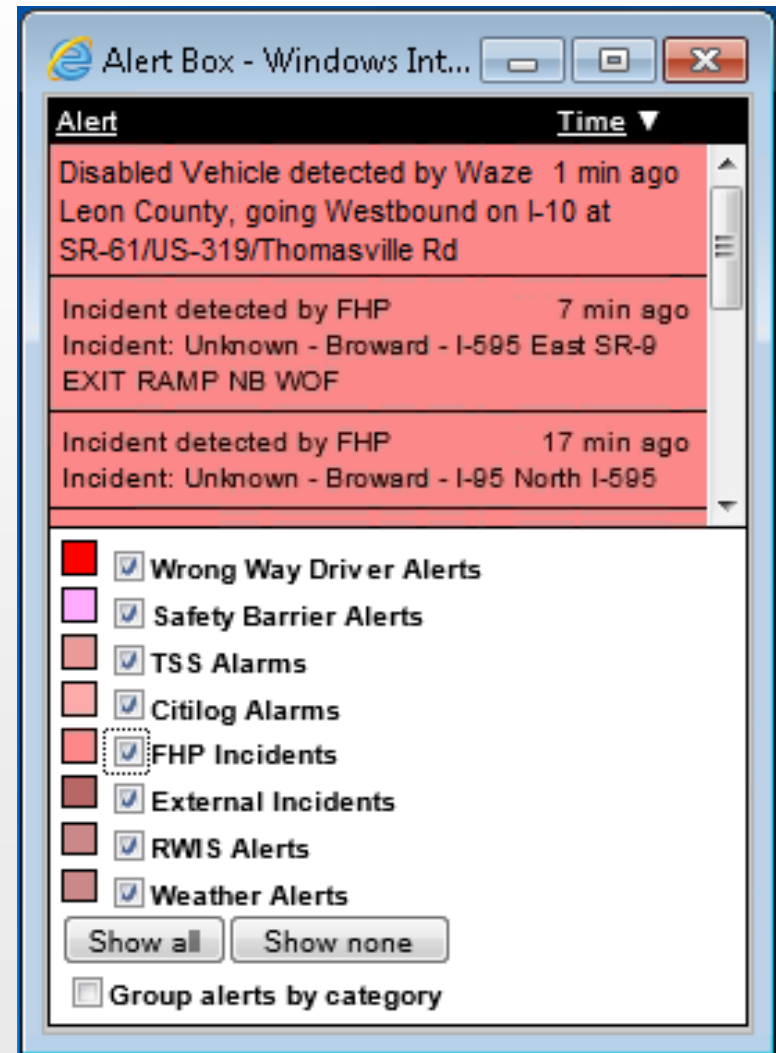
- *Operate efficiently* for operators work with the system
- *Behave consistently* with other incident detection and data sources
- *Automate transfer of information* from Waze to SunGuide alerts/events

SunGuide Integration - Diagram

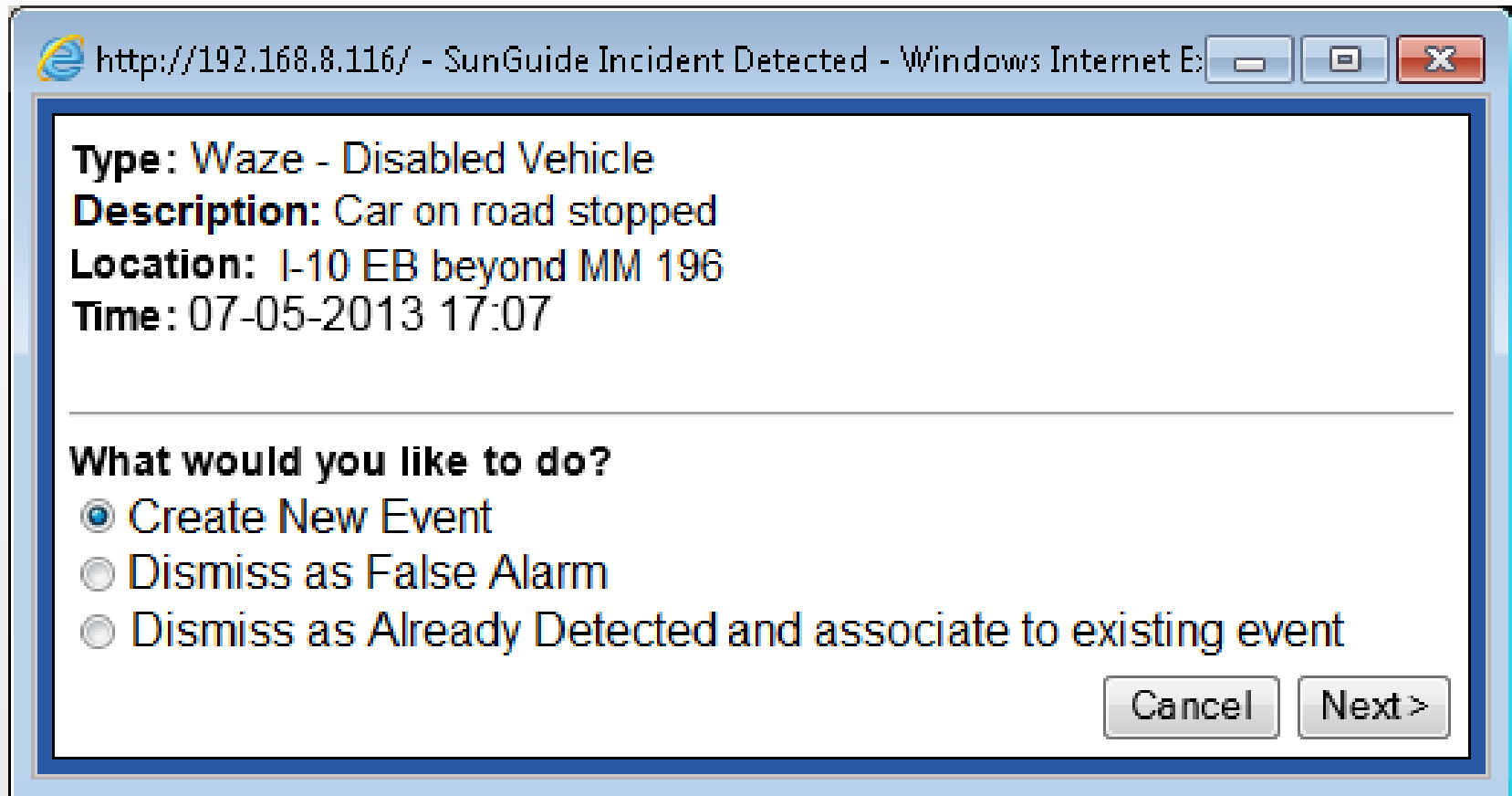


Receiving Alerts – Mockup

- Alerts received within the SunGuide software
- Consistent among all Incident Detection sources
- Operator clicks alert to begin the information transfer to SunGuide and response process



Alert Handling – GUI Screen



http://192.168.8.116/ - SunGuide Incident Detected - Windows Internet E

Type: Waze - Disabled Vehicle
Description: Car on road stopped
Location: I-10 EB beyond MM 196
Time: 07-05-2013 17:07

What would you like to do?

- Create New Event
- Dismiss as False Alarm
- Dismiss as Already Detected and associate to existing event

Cancel Next >

Event Management – GUI Screen

EM Event# 1973 - Windows Internet Explorer

Event # 1973		[-] collapse all	[+] expand all
Administrative Details			
		Release Ownership	Save
Operator:	cpackard		
Date/Time Added:	3/10/2015 17:43		
Status:	Unconfirmed	Terminate Response Plan	
Status Last Updated:	3/23/2015 14:09		
▶ Contacts	There are currently no contacts.		
Impact on Roadways			
			Save

Event Location

County:	Leon County	Distance From Exit (ft):	0				
Road:	I-10		0	0	0	0	0
Direction:	Westbound		1	1	1	1	1
Reference Point:	SR-61 Thomasville Rd.		2	2	2	2	2
Relationship To Exit:	at: SR-61/US-319/Thomasville Rd		3	3	3	3	3
			4	4	4	4	4
			5	5	5	5	5
			6	6	6	6	6
			7	7	7	7	7
			8	8	8	8	8
			9	9	9	9	9
		Mile Marker:	203				
		<input type="checkbox"/> Congestion					

Reporting & Dispatch

Organization:	TERL TMC
Notifying Agency:	Waze
Notifier Contact:	Waze
▶ Vehicle(s) Dispatch	There are currently no dispatched vehicles.
▶ Procedural Error	There are currently no errors.

Event Management – GUI Screen

Event Details		Save
FHP Incident #:	<input type="text"/>	Waze Incident #: <input type="text" value="425416807"/>
Event Type:	<input type="text" value="Disabled Vehicle"/> ▼	<input type="checkbox"/> HAZMAT <input type="checkbox"/> Fire <input type="checkbox"/> Rollover <input type="button" value="Clone event"/>
Nearest CCTV:	<input type="text" value="007_BoschMIC7000"/> ▼ Preset: <input type="text" value="0"/> Timestamp: <input type="text" value="3/23/2015 14:09"/> <input type="checkbox"/> No CCTV	<input type="checkbox"/> Disable VisioPaD detection while event is active

Event History

Date	Category	Details
03/23/2015 14:09:08	STATUS	Unconfirmed
03/23/2015 14:08:50	TMC NOTIFIED	Waze
03/23/2015 14:05:14	LOCATION	Leon County on I-10 Westbound. At SR-61/US-319/Thomasville Rd

Performance Measures

- Events detected by Waze first
- Events detected by TMC or other sources first
- Events not detected by Waze
- False alarms, and confidence level correlation
- Event clearance/closure notification

Dissemination Policies

- Instrumented state roads:
 - Confirm Waze event prior to posting to Florida’s 511 (FL511) system
- Non-instrumented state roads covered by FL511 system:
 - Post Waze event as unconfirmed
- Non-instrumented state roads not covered by FL511 system:
 - Post “floodgate” message for road closures

FDOT Third-Party Data Feed

- Provides statewide real-time data
 - Sent by TMCs to FL511
- Feed updated every one minute
- Data types Include:
 - Floodgates
 - Traffic events
 - Camera images
 - Dynamic message sign messages
 - Traffic speed
 - Travel times



QUESTIONS?

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