



C.B.R.A.S.



Citizens Band Radio Advisory System

John Easterling, P.E., PTOE
District Traffic Operations Engineer
Florida's Turnpike Enterprise / FDOT





C.B.R.A.S.



- **History & Background**
- **Major Incidents**
 - **March 13, 2007 at
Mile Post 209
[7 trucks involved]**
 - **Reduced visibility**
 - **Secondary incidents**





Turnpike Safety Mission



Our Safety Mission

To have the safest limited access facility in North America by reducing incidences, eliminating fatalities and reduce duration of incident impact by 2020.

- Target Areas for Improvement
 - Using Technology to Improve Safety for Customer
 - Roadway and Infrastructure Improvements
 - System Operations Efficiencies





TMC's Goal #1



- Preventing Secondary Incidents
 - Unexpected conditions
 - Nighttime – Limited lighting
 - Rural nature
 - High speeds
 - Vertical transitions
 - Weather conditions
 - Fog
 - Heavy Rain





TMC Resources



- Two Traffic Management Centers (Central/South FL)
 - CCTV, DMS, HAR & Vehicle Detection systems
 - 24/7 Operations
 - Full capabilities from either location
 - Co-located TMC staff in FL Highway Patrol Dispatch Center





C.B.R.A.S.



- Broadcasts emergency traffic information on channel 19
- Remotely activated & controlled from our TMCs
- Uses the Turnpike ITS/fiber optic network
- **First & only** permit from FCC
- Positioned in six locations along the Turnpike Mainline
 - Between MP 116 and MP 309





C.B.R.A.S.



- 18' antenna mounted on ITS camera poles
- 60' maximum height



- Power supply
- Off the shelf CB Radio
- Radio controller





C.B.R.A.S.



- Transmission range of 5 to 15 miles
- Localized incident information
- Utilize single or multiple locations
- Text-to-speech software
- Broadcast messages at varying intervals





Example Incident



Web Enabled Remote Broadcast Station



Station ID	CBRAS-4
Location	Mile Post 236.6
Status:	Idle



10/13/2009 10:53:33 PM

This is an emergency advisory from the Florida Department of Transportation. There has been an incident on Florida's Turnpike northbound at milepost 120, beyond Indiantown Road, Jupiter. All lanes are blocked. Motorists are asked to seek an alternate route and expect delays. For comments on this transmission, please call 1-800-749-7453 or visit our website at www.floridasturnpike.com

(Maximum characters: 1000)

You have characters left.

Play Parameters: Continuous Play Play X Times Stop Broadcast

Play X Times Value:

Delay In Seconds between Broadcast:

Delay In Seconds between Broadcast:

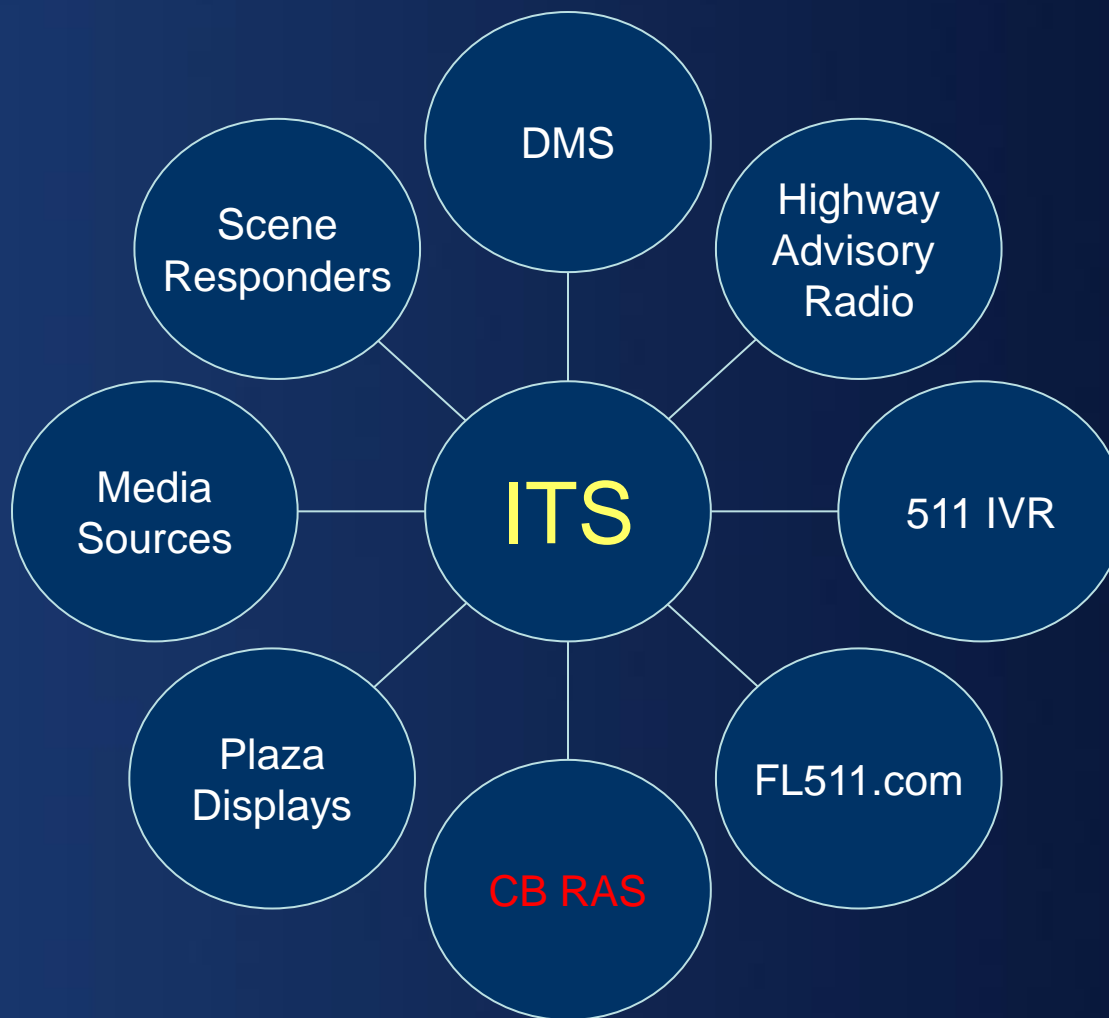


Click to Play





Integrated Traffic Information





Survey Conducted



- Independent Truckers' Association (OOIDA)
 - 97% Have a CB outfitted in truck
 - 72% Use CB at least 50% of the time
 - 99% State they already use CB at times to communicate traffic conditions to others
 - 93% Want to receive alerts on traffic alerts via CB
- Plan to administer another survey in 2011





Pilot Results



- In 2 years since launch (2008 to 2010)
 - 14% reduction in overall crashes
 - 35% reduction in fatalities
 - Casual observations
 - Difficulty in tracking secondary crashes

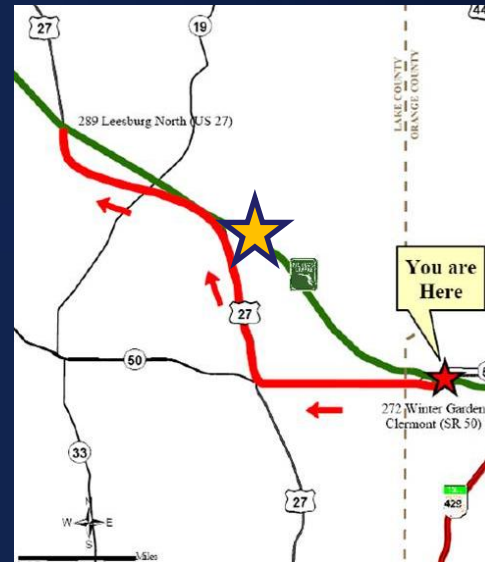




Pilot Results



- Other critical event support
 - One-way Evacuation Plans
 - Southbound truck traffic terminus
 - Service Plaza impacts
 - Milepost 282/CR 561 Bridge Emergency





Strategic Plan Goals



- Reduce # of Fatalities & Severity of Crashes
- Reduce the Duration of Incident impact
- Improve Accuracy, Timeliness and Availability of Traffic Information Sources to all customers
- Stretch Goal - Zero Fatalities





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Questions?

John Easterling, P.E., PTOE
District Traffic Operations Engineer
(954) 934-1620
John.easterling@dot.state.fl.us

