TARGETED ENFORCEMENT

Causes of Fatal/Injury Crashes

- DUI
- Hazardous Moving Violations
- Distracted Driving
- Seat Belts
TARGETED ENFORCEMENT – IMPAIRED DRIVING

DUI Arrests

- 2010: 3,374
- 2011: 4,691
- 2012: 5,882
- 2013: 6,472
- 2014: 8,420
- 2015: 7,807
- 2016: 7,980
Five of the last six years have been the safest on record since 1963.

Tennessee Traffic Fatalities

<table>
<thead>
<tr>
<th>Year</th>
<th>Fatalities</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>1,032</td>
</tr>
<tr>
<td>2011</td>
<td>937</td>
</tr>
<tr>
<td>2012</td>
<td>1,014</td>
</tr>
<tr>
<td>2013</td>
<td>995</td>
</tr>
<tr>
<td>2014</td>
<td>963</td>
</tr>
<tr>
<td>2015</td>
<td>962</td>
</tr>
<tr>
<td>2016</td>
<td>1,041</td>
</tr>
</tbody>
</table>

↑ DUI ARRESTS + ↑ SEATBELT CITATIONS = ↓ FATALITIES
Proactive Policing vs. Reactive Policing

- Reactive policing: responding to calls for service and deploying resources as needed, upon request

- Proactive policing: utilizing data to deploy resources in order to prevent the actual call for service
TITAN PREDICTIVE ANALYTICS
PROGRAM GOALS & OBJECTIVES

Tennessee Integrated Traffic Analysis Network

- The THP is using a data driven approach to enforcement, with renewed emphasis on alcohol and substance related DUI arrests.
- Legislation in place that requires all law enforcement agencies in Tennessee to electronically report crashes to TITAN.
- The THP offers free training and technical support to enable them to utilize the web based crash depository for data driven enforcement and to maximize utilization of resources.
TITAN PREDICTIVE ANALYTICS
PROGRAM GOALS & OBJECTIVES

- Optimize resources and manpower allocation by THP and our local law enforcement partners

- Generates Law Enforcement visibility in the right locations at the right times in order to maximize impact on traffic safety
CRASH model combines historical data such as (fatal crashes and DUI arrests) with current data (weather forecast, special events identified by internet resources and district captains) to generate “heat map” that identifies areas of high likelihood for crashes.
TITAN PREDICTIVE ANALYTICS
“HEAT MAP”
CHANGING THE CULTURE: PROACTIVE VS REACTIVE POLICING

Reactive Policing...

1. Injury/Fatal Crash Occurs
2. THP called for service
3. THP respond and work crash
CHANGING THE CULTURE: PROACTIVE VS REACTIVE POLICING

Proactive Policing...

Injury/Fatal Crash Occurs

THP called for service

THP respond and work crash
Supervisors must incorporate into:

- 30-Day Enforcement Plans
- specialized campaigns
- routine unobligated traffic patrol assignments
THP’s New Traffic Incident Management System (TIMS) Training Facility
GOAL OF TIMS: **SAFETY**

Average annual number of responders struck and killed nationally while working in or near moving traffic:

- **Fire/Rescue and EMS:** 6 to 8/year
- **Law Enforcement:** 10 to 12/year
- **Tow/Recovery:** 50/year
- **Highway Worker:** 100/year + 20,000 injured
TIMS TRAINING STATS FROM FHWA (AS OF 5/15/17)

✓ 9,501 responders trained in Tennessee
  (7th in the nation)

✓ 31.3% of responders trained in our state
  (17th nationally)

✓ 509 instructors trained in Train-the-Trainer Sessions
  (3rd in the nation)

✓ 294 responders taking the Web Based TIM Training
  (13th nationally)

✓ 10,304 total responders, instructors and web based trained
  (7th in the nation)
USES OF TIMS TRAINING SITE

- Simulate Actual Traffic Movement.
- Train lawn enforcement personnel basic & advanced crash investigation such as Haz Mat spills, motorist assists, and secondary crashes.
- Provide an area to be used to conduct various types of vehicle stops enabling emergency personnel to experience the differences in day and night-time lighting conditions.
USES OF TIMS TRAINING SITE

- Provide training specific to TIMS by providing an opportunity for emergency personnel to engage in decision making skills involved with all types of traffic management, such as positioning of emergency response vehicles at crash scenes and the safe and efficient removal of disabled vehicles.

- Provide an area to stage construction zone scenarios.
Since its completion, THP TIMS training site has been visited by State Public Safety and Transportation officials from across the US and Puerto Rico.

Several TIMS responder courses have been held and attended by responders from all disciplines across Tennessee.

THP has used the track to train new cadets in various scenarios, teaching troopers traffic crash reconstruction, and for mock crashes during the crash symposium.
PROTECTING THE QUEUE

➢ The following is collected at every crash scene, regardless if a secondary crash has or has not occurred.
In 2015, Tennessee added additional data fields to its crash report form to collect information about secondary crashes and incident management, one of the first states to collect this data on crash reports.
DISTRACTED DRIVING SPECIAL ENFORCEMENT
“OPERATION SWEEP”
DISTRACTED DRIVING SPECIAL ENFORCEMENT
“OPERATION SWEEP”

Spotter Looking for Signs of Distraction....
✓ Nodding or Looking Down
✓ Weaving within Travel Lane
✓ Varying Speed

Troopers staged every mile
DISTRACTED DRIVING

- Tennessee “texting while driving law”:
  - Difficult to enforce
  - Even harder to prove

- Creative enforcement initiatives that focus on the actions of the driver as well as the vehicle are necessary to enforce “distracted driving”.
DISTRACTED DRIVING... WHAT IS IT?

- A broader application than texting while driving alone:
  - Using a cell phone or “smartphone”
  - Eating and drinking
  - Grooming and applying make-up
  - Reading, checking maps
  - Using a navigation system
  - Watching a video
  - Adjusting a radio, CD player, or MP3 player
(b) Notwithstanding any speed limit or zone in effect at the time, or right-of-way rules that may be applicable, every driver of a vehicle shall exercise due care by operating the vehicle at a safe speed, by maintaining a safe lookout, by keeping the vehicle under proper control and by devoting full time and attention to operating the vehicle, under the existing circumstances as necessary in order to be able to see and to avoid endangering life, limb or property and to see and avoid colliding with any other vehicle or person, or any road sign, guard rail or any fixed object either legally using or legally parked or legally placed, upon any roadway, within or beside the roadway right-of-way including, but not limited to, any adjacent sidewalk, bicycle lane, shoulder or berm.
Operation Roundabout focused enforcement efforts on "quality vs quantity" and still averaged 1.5 citations per hour worked (for the day as a whole) considering the total number of man-hours used from start to finish.

Of the 150 citations issued during the 7-hours actually dedicated to traffic enforcement, the detail averaged over 21 citations per hour, collectively.
SPECIAL ENFORCEMENT CAMPAIGN
“OPERATION ROUNDABOUT”
SPECIAL ENFORCEMENT CAMPAIGN
“OPERATION ROUNDABOUT”

- 104 combined restraint citations and 20 Texting and “Distracted Driving” citations issued.
- 10 additional hazardous moving citations of various kinds issued.
- The enforcement effort’s numbers were not inflated with miscellaneous non-moving citations not part of the operational goals; and of those non-moving violations, they only accounted for 11% of the total citations issued.
- Result was 89% of the citations issued were relevant towards accomplishing the operation’s.
SPECIAL ENFORCEMENT CAMPAIGN
“OPERATION ROUNDABOUT”

- In addition to those directly affected by receiving a citation, thousands of motorists observed the law enforcement presence on our interstate system.

- Two different local media outlets ran a story on the special enforcement campaign, educating citizens of Nashville on the dangers of distracted driving and highlighting law enforcement efforts to reduce this behavior.

<table>
<thead>
<tr>
<th>Type of Enforcement</th>
<th>“Distracted Driving” Due Care Violations</th>
<th>Other Hazardous Moving Violations</th>
<th>Seatbelt</th>
<th>CRD</th>
<th>Texting</th>
<th>All Other Nonmoving Violations</th>
<th>TOTAL For Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTALS</td>
<td>8</td>
<td>10</td>
<td>99</td>
<td>5</td>
<td>12</td>
<td>16</td>
<td>150</td>
</tr>
</tbody>
</table>
DISTRACTED DRIVING

Tennessee Distracted Driving Crashes

Year

2012 2013 2014 2015 2016 2017

Crashes

20,214 19,159 21,058 22,975 24,754 9,326
2016 IACP National Law Enforcement Challenge Awards

- 1st Place – State Police/Highway Patrol 501-1,500 Sworn
- Special Category – Traffic Incident Management
- Special Category – Technology (Predictive Analytics)
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