

# HILLSBOROUGH COUNTY TRAFFIC CRASH DATA MANAGEMENT SYSTEM

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October 9, 2006

## Outline

- History of Crash Data Collection at HCSO
- Grant Funding Obtained through FDOT
- Traffic Analyst position established
- Milestones and Accomplishments
- Who is involved?
- What will the CDMS do? Tools and Functions
- How do we use the CDMS today?

## Crash Data Collection

- Crash Report
- Data Entry into Traffic Accident Reporting System (TARS)
- TARS written in late 1980's
- TARS captures all fields of crash report excluding narrative
- TARS database is antiquated
- TARS does not have any data analysis tools

## TARS Database in Mapper

### Tars Code Tables

Accident Info: Where, When, etc.

Vehicle/Persons- Who, Vehicle, etc.

Accident Detail – Contributing Causes, Harmful events,  
Weather, etc

Citation Information

CAD – Calls for Service

Where and When Only

HCSO Obtains Crash Data Analysis Grant

- Three year grant awarded by Florida Department of Transportation effective December 10, 2003
- Traffic Analyst starts in Community Relations Section February 6, 2004
- Hillsborough County Sheriff's Office and Hillsborough County Public Works holds press conference February 13, 2004

## Milestones and Accomplishments

- February 19, 2004: First monthly meeting with Traffic Analyst at the Sheriff's Traffic Operations Plan (STOP) committee meeting and first monthly traffic crash report, continuing monthly thereafter at each STOP meeting
- Top 20 Traffic Crash Corridors are identified during February 2004
- Deployment of HCSO Traffic Units for Selective Enforcement Initiatives takes a paradigm shift after February 2004 monthly report is distributed
- Traffic Enforcement Initiatives begin in February 2004 targeting the identified crash corridors and continues
- Set up a database for tracking and mapping purposes to identify the last drinking location of DUI offenders for the Responsible Vendor Program

## Who's Involved?

- Hillsborough County Sheriff's Office
- Hillsborough County Public Works
- Florida Department of Transportation -D7
- Florida Highway Patrol
- Tindale-Oliver and Associates, Inc.
- City of Tampa

## Using GIS Technology to Improve Analysis

- **Streamline Accessibility to Traffic Crash Data**
  - Less time consuming and cumbersome to analyze data
  - All data fields and related information in manageable GIS database
- **More Focused Crash Analysis**
  - Red Light Running Crashes
  - Speeding Related Crashes
  - DUI Crashes
  - Aggressive Driving Enforcement
  - Unrestrained drivers
- **Identification of Crash Corridors for Focused Enforcement Initiatives**

# Getting the Data to GIS Crash Geodatabase Symbology Layers TOA Crash Data Tools

## What do we do at HCSO?

- Monthly Traffic Crash Report for STOP
  - Frequency analysis (time and day)
  - Spatial analysis (Layer summary by area)
  - Comparative analysis of crash corridors
  - Enforcement Activity analysis
- Monthly Traffic Fatality Summary
- Tracking and monitoring of responsible vendor database
- Requested crash data analysis for enforcement initiatives
- Crash analysis studies for command staff
- Assist public safety and traffic engineering agencies

Monthly STOP Report  
Traffic Fatality Summary  
for Command Staff  
Assisting Other Agencies

## Questions and Discussion HILLSBOROUGH COUNTY TRAFFIC CRASH DATA MANAGEMENT SYSTEM

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