



**Data Driven Approaches to Crime  
and Traffic Safety**

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(DDACTS)

2009 Lifesavers National Conference  
Crime and Traffic Safety Workshop

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National Highway Traffic Safety Administration  
First Response Solutions



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Goal:

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- Reduce the incidence of crime, crashes and traffic violations in a community by:
  - Reducing Social Harm
  - Increasing the Quality of Life



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**DDACTS**

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**Data Driven Approaches to Crime and Traffic Safety is an operational model that uses the integration of location-based crime and traffic data to determine the most effective and efficient methods for deploying law enforcement and other resources.**



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### What is DDACTS?

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- Local ownership
- Uses local data
- Data-driven policing
- Uses non-traditional partners
- Reduces crime and crashes
- Coordinated effort between the National Highway Traffic Safety Administration (NHTSA) and Bureau of Justice Assistance (BJA)
- Provide training and technical assistance



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### Why DDACTS?

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- Increasing demands and limited resources for law enforcement
- Law enforcement executives must prioritize competing demands for services
- Conflict between available resources and priorities is detrimental to traffic law enforcement and to crime prevention
- Crime and crashes often occur in close proximity
- Many crimes involve the use of a vehicle
- Traffic stops can yield criminal identification and arrests and impact crashes simultaneously



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### DDACTS Analyzing the Problem

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- Local data is used
- Local ownership of the data
- Traffic analysis is combined with crime analysis
- Resources deployed based on resulting analysis



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### Guiding Principles

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- **Data Collection**

- Review Current Data Collection and Analysis Systems
- Finalize Selection of Mapping Software
- Create a Data Collection Plan and Identify Data Sources



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### Guiding Principles

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- **Data Analysis**

- Develop a Clear Process for Data Analysis
- Develop Reporting Procedures

- **Partners and Stakeholder Participation**

- Identify and Make Initial Contact with Potential Partners and Stakeholders
- Develop a Plan for Partner and Stakeholder Participation



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### Guiding Principles

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- **Strategic Operations**

- Identify Countermeasures
- Develop an Operational Plan
- Implement Plan

- **Information Sharing and Outreach**

- Review Partner and Stakeholder Plan To Identify Tactics for Information Sharing and Outreach
- Develop a Communications Plan for Working with the Media



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## Guiding Principles

- **Monitor, Evaluate, and Adjust**
  - Use Data and Other Information to Make Adjustments to DDACTS Field Operations
  - Document and Report Changes
- **Outcomes are locally defined**



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## Demonstration Sites



Oakland Police Department



Vermont State Police



Rochester Police Department



Metro Nashville Police Department



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## Demonstration Sites



Washoe County Sheriff's Office



Baltimore County Police Department



Lafourche Parish Sheriff's Office



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### Using a Crash/Crime Analysis Model

- Drilling down to local data
- Crash and crime analysis allows for a deeper understanding of a problem
- Provides efficiency in resource deployment
- A tool to address fiscal constraints
- Provides an unbiased basis for making strategic and tactical decisions



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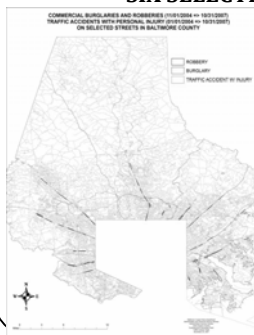
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### Baltimore County Police SIX SELECTED DDACTS Sites



- BALTIMORE NATIONAL PIKE
- LIBERTY ROAD
- REISTERSTOWN ROAD
- YORK ROAD
- BELAIR ROAD
- EASTERN BOULEVARD



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### Baltimore County Police Department DDACTS ENFORCEMENT ACTIVITY FROM MARCH 2008 TO DECEMBER 31, 2008

- 51,625 patrol hours
- 1,169 arrests
- 20,945 citations issued
- 31,010 warnings



DDACT

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**Baltimore County Police Department  
Crash/Crime Summary  
March to December 2008**

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Robberies	Burglaries	Crashes
		
- 13%	+ 2.4%	- 6.0%

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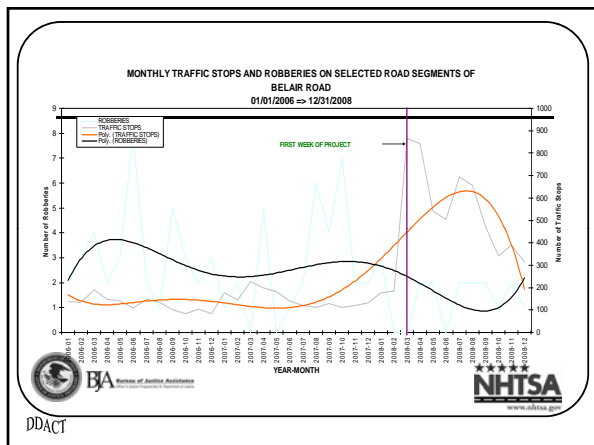
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**St. Albans, VT  
Problem ID**



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- Significant increases in drug, vandalism and property crime began in 2005
- DDACTS focused on:
  - High Crash Locations
  - Drug activity
  - Property crimes associated with illicit drug activity and use throughout the city.

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### St. Albans Results

October to December 2008 compared to same time frame in 2007

- Assaults down 15%
- Burglary down 1%
- Vandalism down 20%
- Thefts from motor vehicles down 17%
- Larcenies down 3%
- Drug and narcotic violations down 36%
- Crashes down 18%
- DUI arrests up:
  - 156 arrests in 2007
  - 201 arrests in 2008


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### St. Albans Results

October to December 2008 compared to same time frame in 2007

Assaults	Burglary	Vandalism	Theft from Vehicle	Larceny	Crashes	Drug Violations
↓	↓	↓	↓	↓	↓	↓
15%	1%	20%	17%	3%	18%	36%


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### St. Albans

#### Test and Evaluation of License Plate Readers

- Single Pilot Deployment – November 8, 2008
- 2,672 plates read by two license plate readers
- Results showed 1 out of every 27 vehicles possibly being driven by a suspended driver


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**Rochester, NY**

**DDACTS Project Goals**

- Use "Hot Spots" evaluation techniques
- Identify specific crime and accident problems within the "hotspot" areas through:
  - Data Analysis
  - Intelligence Gathering
- Deter Gun Carrying Behavior in Vehicles in focus areas
- Deter Traffic Crashes in focus areas

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**DDACTS**

"If you're not keeping score,  
it's just practice."

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**DDACTS**

- **Locally Controlled**
- **Flexible, adaptable to any size agency**
- **Federal role is one of assistance and support**

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# Questions?

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