



CMPD's Predictive Crime Analytics Implementation

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Deputy Chief
Charlotte-Mecklenburg Police Department



CHARLOTTE-MECKLENBURG POLICE DEPARTMENT

Agency Background Information

- Estimated Population: 777,827
- Land Area: 438 square miles
- 1725 Sworn Officers
- 500 Non-sworn personnel



CHARLOTTE-MECKLENBURG POLICE DEPARTMENT

Primary Project Goals

- Provide customized role-based delivery of crime data and predictive analytics to Officers and Command Staff
- Support resource deployment through the use of real-time information
- Achieve better visualization of crime patterns and trends



CHARLOTTE-MECKLENBURG POLICE DEPARTMENT

Project Timeline

- **June 2009** - RFP issued
- **November 2009** - Contract awarded to IBI for Law Enforcement Analytics (LEA) Solution
- **January 2010** - Project began
- **May 2010** - Operational Data Store (ODS) live
- **September 2010** - Operational Dashboards live
- **October 2010** - Predictive Dashboard live

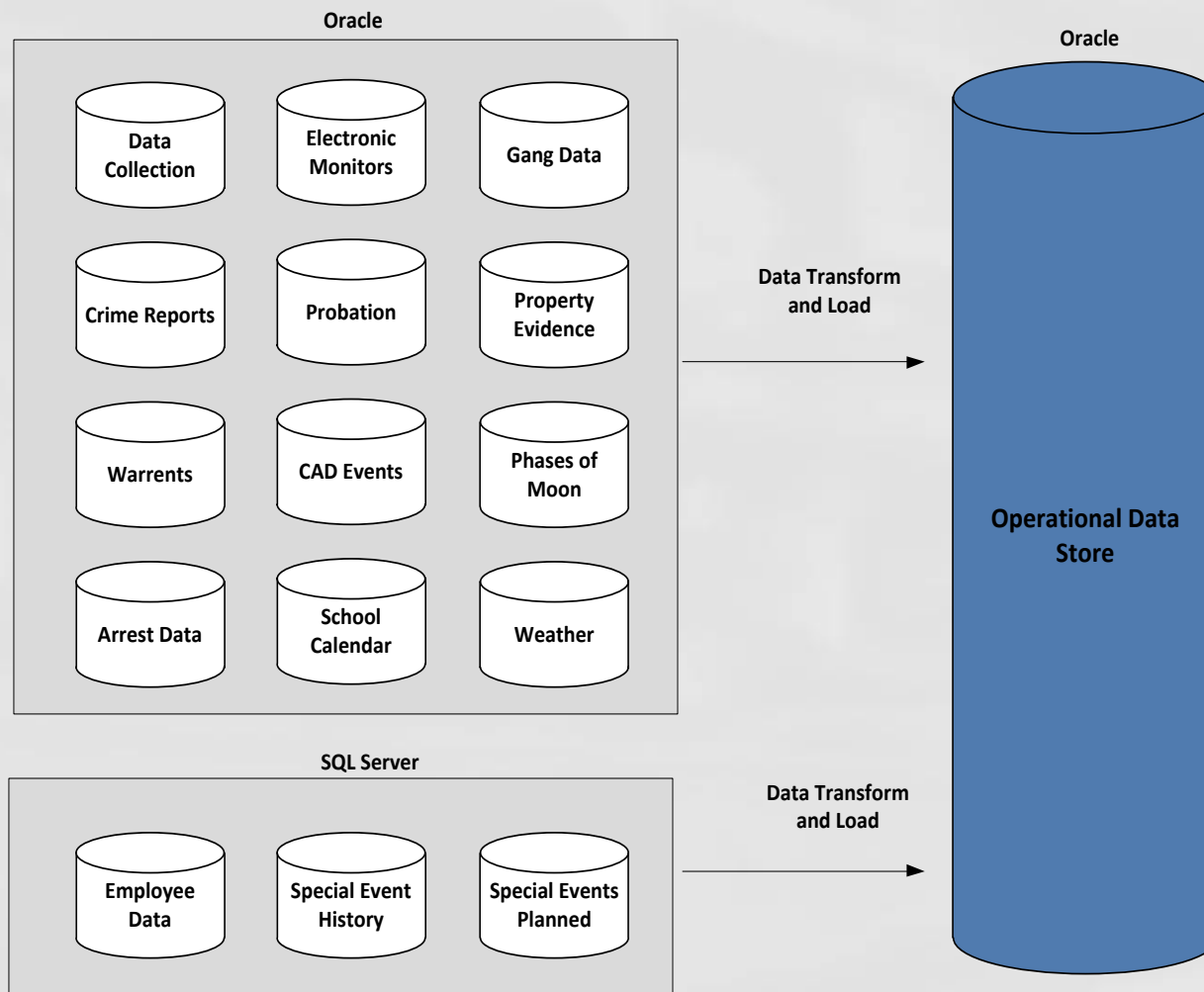


CHARLOTTE-MECKLENBURG POLICE DEPARTMENT

Operational Data Store and Reporting Packages

- **Operational Data Store (ODS)** - Consolidates over a dozen major data sources to support real-time information delivery
- **Command Level Reports** - Fourteen report packages automated and electronically distributed to Captains & Commanders to support Monday morning briefings and weekly CompStat sessions
- **Electronic Monitoring Reports** - Crime scene correlation reports delivered daily to Detectives

Operational Data Store





Command Level Report

% CHANGE AND RANK PART ONE CRIMES

Through week ending 10/17/2010

Curr Qtr: 10/1/2010 - 10/17/2010

Prev Qtr: 10/1/2009 - 10/17/2009

Curr Yr: 1/1/2010 - 10/17/2010

Prev Yr: 1/1/2009 - 10/17/2009

Blue = Top 5 beats and Top 1 division with highest decreases
Yellow = Top 5 beats and Top 1 division with highest increases

		QUARTER-TO-DATE						YEAR-TO-DATE					
		Division	Beat	Beat % Change	Beat Rank (1 to 39)	Division % Change	Division Rank (1 to 13)	Patrol North/ Patrol South Rank	Beat % Change	Beat Rank (1 to 39)	Division % Change	Division Rank (1 to 13)	Patrol North/ Patrol South Rank
Issues	Issues	Northeast Service Area	Eastway	0611	-21.8%	5	-16.4%	3	-2.6%	35	-10.8%	9	4
				0612	15.2%	26			-6.9%	32			
				North Tryon	0613	-35.0%			1	-19.9%			
		0711	-20.6%		7	-7.3%	31						
		0712	-20.0%		8	-11.8%	23						
		University City	0713	-18.8%	9	8.7%	9	-13.2%	19	-3.2%	13	6	
			1411	-3.2%	18			1.0%	37				
			1412	16.9%	27			-21.7%	7				
			1413	12.9%	24			19.3%	39				
Northwest Service Area	North	1111	-9.4%	15	4.2%	6	4	-13.4%	18	-14.0%	6	3	
		1112	28.6%	31				-17.8%	10				
		1113	1.7%	21				-10.7%	26				
	Metro	0211	-15.2%	11	-20.5%	1	1	-10.8%	25	-17.2%	2	1	
		0212	-18.2%	10				-13.0%	21				
		0213	-25.0%	2				-24.4%	1				
	Freedom	2711	31.4%	33	11.5%	10	6	-13.5%	16	-15.0%	5	2	
		2712	-10.5%	14				-22.7%	5				
2713		23.4%	30	-7.3%				30					
Southeast Service Area	Hickory Grove	1211	58.1%	37	39.6%	13	7	-21.5%	8	-8.2%	12	7	
		1212	-2.6%	19				0.5%	36				
		1213	90.5%	38				-3.9%	34				
	Independence	1711	48.5%	36	5.9%	8	4	-23.4%	3	-16.7%	3	2	
		1712	-21.1%	6				-11.1%	24				
		1713	10.7%	23				-16.6%	13				
	Providence	1611	-9.3%	16	0.7%	5	2	-16.8%	11	-10.5%	11	6	
		1612	6.3%	22				-13.4%	17				
		1613	14.3%	25				1.1%	38				
	South	2211	118.8%	39	4.4%	7	3	-12.9%	22	-17.3%	1	1	
2212		-24.5%	3	-23.6%				2					
2213		-11.5%	13	-13.1%				20					
Southwest Service Area	Central	0111	21.1%	28	12.0%	11	5	-18.4%	9	-15.2%	4	3	
		0112	0.0%	20				-14.3%	15				
		0113	22.2%	29				-10.3%	27				
	Westover	2611	29.5%	32	-4.3%	4	1	-5.3%	33	-13.7%	7	4	
		2612	-23.7%	4				-14.5%	14				
		2613	-13.5%	12				-22.9%	4				
	Steele Creek	2111	-7.7%	17	18.7%	12	6	-16.7%	12	-11.3%	8	5	
		2112	39.5%	35				-8.1%	29				
2113		38.3%	34	-9.3%				28					



CHARLOTTE-MECKLENBURG POLICE DEPARTMENT

Electronic Monitoring Reports

EM Hits by Beat for Response
Area Commanders



Electronic Monitoring Potential Hits

20101018 to 20101019

BEAT : 0213

COMPLAINT#:		20101018-1620-04									
INCIDENT TYPE:		Auto Theft			DATE TIME FROM:			10/18/2010 1620		BEAT: 0213	
ADDRESS:		2601 WILKINSON BV			DATE TIME TO:			10/18/2010 1620			
INVESTIGATOR:					CLEARANCE STATUS:			Open			
		DATE HIT			MINIMUM		MAXIMUM		CLOSEST		
OFFENDER NAME		PID	CALCULATED	ORG	PINGS	DATE TIME	DATE TIME	DATE TIME	DISTANCE	FURTHEST	DISTANCE
Maxwell, Jasmine		320906	10/20/2010	CMPD	1	10/18/2010 1623	10/18/2010 1623	10/18/2010 1623	198	198	

COMPLAINT#:	20101019-1817-00				
INCIDENT TYPE:	Residential Burglary	DATE TIME FROM:	10/19/2010 1630	BEAT:	0213
ADDRESS:	1301 EEFINGHAM RD	DATE TIME TO:	10/19/2010 1817		
INVESTIGATOR:					
OFFENDER NAME					
Bruce, Robert	Electronic Monitoring Potential Hits				

Electronic Monitoring Potential Hits

20101018 to 20101019

INCIDENT TYPE : Auto Theft

COMPLAINT#:		20101018-0941-03								
INCIDENT TYPE:		Auto Theft			DATE TIME FROM:		10/17/2010 2300		BEAT: 1113	
ADDRESS:		3101 FINCHER BV			DATE TIME TO:		10/18/2010 0700			
INVESTIGATOR:		Cherry Jr, J.M.(000768)			CLEARANCE STATUS:		Open			
		DATE HIT			MINIMUM		MAXIMUM		CLOSEST	
OFFENDER NAME		PID	CALCULATED	ORG	PINGS	DATE TIME	DATE TIME	DATE TIME	DISTANCE	FURTHEST DISTANCE
Smith, Alphonso		228816	10/20/2010	CMPD	229	10/17/2010 2240	10/18/2010 0719	10/18/2010 0231	19	495

COMPLAINT#:		20101018-1620-04									
INCIDENT TYPE:		Auto Theft			DATE TIME FROM:		10/18/2010 1620		BEAT: 0213		
ADDRESS:		2601 WILKINSON BV			DATE TIME TO:		10/18/2010 1620				
INVESTIGATOR:		CLEARANCE STATUS: Open									
		DATE HIT			MINIMUM		MAXIMUM		CLOSEST		
OFFENDER NAME		PID	CALCULATED	ORG	PINGS	DATE TIME	DATE TIME	DATE TIME	DISTANCE	FURTHEST DISTANCE	
Maxwell, Jasmine		320906	10/20/2010	CMPD	1	10/18/2010 1623	10/18/2010 1623	10/18/2010 1623	198	198	

EM Hits by
Crime Type for
Detectives





CHARLOTTE-MECKLENBURG POLICE DEPARTMENT

Operational Dashboards

- **Virtual Roll Call Dashboard** - Allows Patrol Officers to share information through BLOGS and APB's
- **Subjects of Interest Dashboard** - Highlights priority offenders and warrants for Patrol Officers
- **Current Crime Events Dashboard** - Allows Officers to monitor calls for service and crime activity in real-time
- **CompStat Dashboard** - Allows Supervisors to monitor Beat Goals and visualize Officer Initiated Activities in relation to Part 1 crimes



Welcome, Crystal Cody



CMPD PREDICTIVE CRIME ANALYTICS

CMPD Portal

Virtual Roll Call | Subjects of Interest | Current Crime Events | Crime Analysis | CMPD Live

Filter

Division Independence Division ☐ Set Default Filter Refresh ☐ Refresh Every 30 Minutes[New BLOG Entry](#)Independence Division News Briefs
>=10/18

Subject

[\(!\) RA1 - ZONE CHECK 6300 E. INDEPENDENCE BOULEVARD](#)[RA2 - ZONE CHECK 7806 HUMMINGBIRD LANE](#)[RA1 - ZONE CHECK 7200 MONROE ROAD](#)[RA2 - ZONE CHECK REF. LFA'S](#)[RA2 - B&E'S SARDIS FOREST AREA](#)[RA1 - ZONE CHECK 7316 WALLACE ROAD](#)[RA1 - ZONE CHECK 5040 CORONADO DR](#)[RA3 - LFA LOCATIONS](#)[RA2 - LFA LOCATIONS](#)[RA1 - LFA LOCATIONS](#)[RA3 - ZONE CHECK 7330 BRIARDALE DRIVE](#)[RA2 - ZONE CHECK 512 WRYE FOREST COURT](#)[RA1 - B&E BOLO ASHLEY PLACE APARTMENTS](#)

List of Stolen Vehicles for 10/16 to 10/18

Make	Model	Color	Year	Tag/State	Beat	Complaint #
CHEVROLET	CAPRICE CLASSIC	BLUE	1990	U22350 / SC	1211	20101018-1126-06
DODGE	INTREPID	SILVER	2004	YWR2968 / NC		20101018-1126-05
SUZUKI	DR200SET	BLACK	2009	3Y7951 / NC	1113	20101018-1014-01
KAWASAKI	BRUTE FORCE	GREEN, DARK	2006			20101018-0941-03
YAMAHA	WARRIOR 350	BLUE, DARK				20101018-0941-03
MITSUBISHI	ECLIPSE	WHITE	2001	ZVE7287 / NC	2713	20101018-0814-06
HONDA	CIVIC	WHITE	1996	TREVP / VA	1713	20101018-0636-01
FORD	F250	BLUE	2004	ZXD8571 / NC	0211	20101017-1801-02
FORD	EXPLORER	WHITE	2002	YTH2853 / NC	2112	20101017-1518-01

All Points Bulletin

Independence Division

New APB

Type	Offense	Complaint No	Contact	Detail
(!) PERSON	HOMICIDE	20100812-1157-02	Whitworth, James	MURDER OCCURRED IN THE METRO DIVISION AT 1215 EFFINGHAM ROAD ON 08/12/2010MURDER WARRANTS OUTSTANDING ON SUSPECT:THOMAS LEE DAVISB/M DOB 3/10/1969 5'6" 200 LBSTRANSIENTCont
(!) PERSON	ARMED ROBBERY	20100912-2033-02	Sloop, Michael	Armed Robbery / Kidnapping Subject hid in the back of the victims car at the Harris Teeter on Central. the car was later found a few blocks away.
PERSON	ARMED ROBBERY	20101015-1950-00	Whetzel, Ryan	In reference to the armed robbery from



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CMPD PREDICTIVE CRIME ANALYTICS

CMPD Portal

Virtual Roll Call | Subjects of Interest | Current Crime

Filter

Division Independence Division ▼

[New BLOG Entry](#)

Independence Division News Briefs

>=10/18

Subject

[\(I\) RA1 - ZONE CHECK 6300 E. INDEPENDENCE BOULEVARD](#)[RA2 - ZONE CHECK 7806 HUMMINGBIRD LANE](#)[RA1 - ZONE CHECK 7200 MONROE ROAD](#)[RA2 - ZONE CHECK REF. LFA'S](#)[RA2 - B&E'S SARDIS FOREST AREA](#)[RA1 - ZONE CHECK 7316 WALLACE ROAD](#)[RA1 - ZONE CHECK 5040 CORONADO DR](#)[RA3 - LFA LOCATIONS](#)[RA2 - LFA LOCATIONS](#)[RA1 - LFA LOCATIONS](#)[RA3 - ZONE CHECK 7330 BRIARDALE DRIVE](#)[RA2 - ZONE CHECK 512 WRYE FOREST COURT](#)[RA1 - B&E BOLO ASHLEY PLACE APARTMENTS](#)

All Points Bulletin

[Create New APB](#)[Edit This APB](#)

Type: PERSON

Offense: HOMICIDE

Entered By: Mangum, M A

Date Entered: 2010/10/15 12:54:46

Contact: [Whitworth, James](#)
704-336-2341
Violent Crime DivisionComplaint: [20100812-1157-02](#)

Recipients: All Divisions

General Detail: MURDER OCCURRED IN THE METRO DIVISION AT 1215 EFFINGHAM ROAD ON 08/12/2010

MURDER WARRANTS OUTSTANDING ON SUSPECT:

THOMAS LEE DAVIS

B/M DOB 3/10/1969 5'6" 200 LBS

TRANSIENT

Contact VCAT Detective Steve Davis 704-336-VCAT or Homicide Detective Brian Whitworth 704-591-1479



Attachments:



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CMPD PREDICTIVE CRIME ANALYTICS

CMPD Portal

Virtual Roll Call

Subjects of Interest

Current Crime Events

CompStat

Crime Analysis

CMPD Live

Filter

Division

Independence Division ▾

☐ Set Default Filter

Refresh

☐ Refresh Every 30 ▾ Minutes

Priority Offenders

[Get All Divisions](#)

Name	Image	Division	Case Manager
CURETON, JALEN 05/12/1993 B/M		INDEPENDENCE	HELMS, C B 704-841-1477 Independence Division
FULLER, THEODORE ANTONIO 12/10/1990 B/M		INDEPENDENCE	HELMS, C B 704-841-1477 Independence Division
MCCULLOUGH, LORENZO ROBINSON 07/22/1976 B/M		INDEPENDENCE	HELMS, C B 704-841-1477 Independence Division

Threats To Officers

Name	Image
REAL, NORBERTO GARCIA 12/09/1979 BLACK/MALE	
GREGORY, JEFFREY ALAN 02/07/1964 WHITE/MALE	
RED, CALIFORNIA (WILLIAM B. LOWERY) 08/19/1970 BLACK/MALE	

Priority Crime Warrants



All Warrants must be verified prior to taking action.

Name	Charge	Date Issued	Beat
SHINE, DERRICK BERNARD 08/21/1978 B/M	RESISTING PUBLIC OFFICER	10/14/2010	1711
WENTZ, LAFAYETTE 11/01/1986 B/M	PROBATION VIOLATION	10/06/2010	1711



Current Crime Events

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CMPD Portal

Virtual Roll Call

Subjects of Interest

Current Crime Events

CompStat

Crime Analysis

CMPD Live

Filter

Geography

CMPD

CFS Activity

24 Hours

☐ CompStat Symbols

☒ Crime Symbols

☐ Set Default Filter

Refresh

☐ Refresh Every 30 Minutes

CFS Activity - CMPD



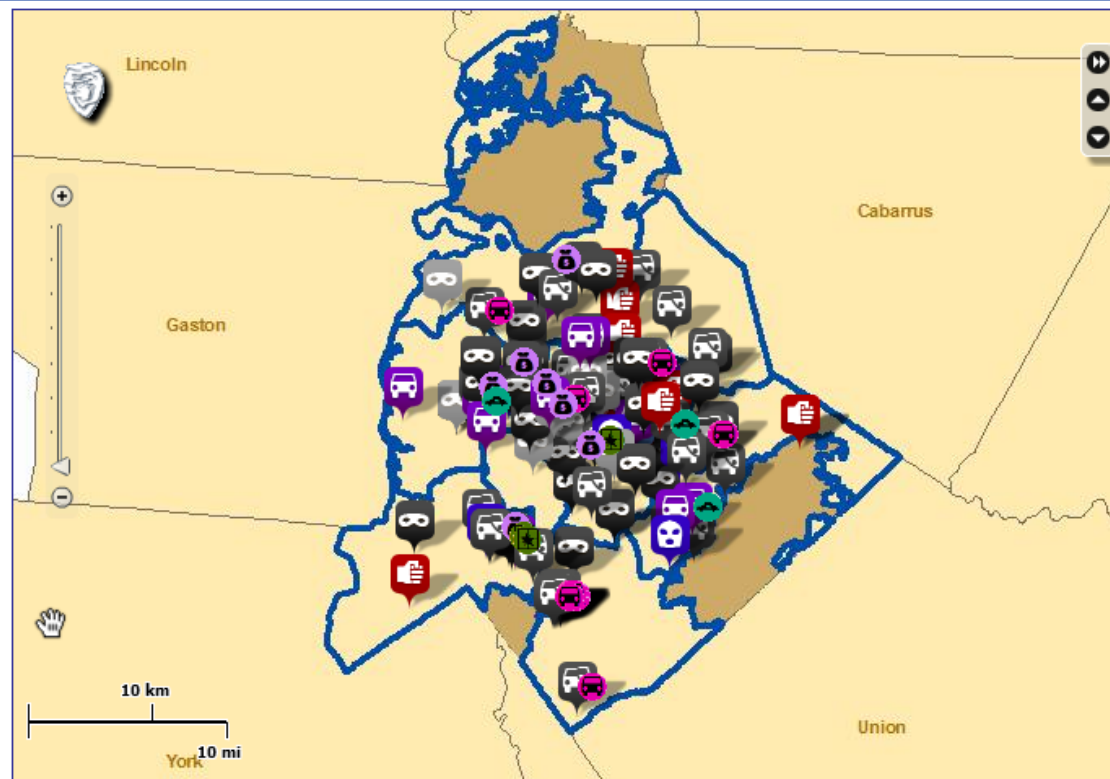
☐		Call Type	Count	
☒		COMMERCIAL ROBBERY	4	
☒		PERSONAL ROBBERY	6	
☒		AGGRAVATED ASSAULT	12	
☒		RESIDENTIAL BURGLARY	33	■
☒		COMMERCIAL BURGLARY	12	
☒		AUTO THEFT	13	
☒		LARCENY FROM VEHICLE	49	■
☐		DISORDER	318	■

Violent Crime Activity

Property Crime Activity



☒		Crime	Curr Wk	Curr Wk Last Yr	
☒		RESIDENTIAL BURGLARY	3	134	
☒		COMMERCIAL BURGLARY	0	39	
☒		AUTO THEFT	3	34	■
☒		LARCENY	22	415	
☒		LARCENY FROM AUTO	17	175	■





Calls for Service Activity

Call for Service Activity
LARCENY FROM VEHICLE
Current Time 4 Hours

<u>Complaint #</u>	<u>Type Code</u>	<u>Type Description</u>	<u>Sub-Type Code</u>	<u>Location</u>	<u>Beat</u>	<u>Disposition</u>
20100928-0529-01	LA-VEHC	LARCENY FROM VEHICLE	REPORT	3201 FORESTBROOK DR 1	2711	OO/CASE
20100928-0555-00	LA-VEHC	LARCENY FROM VEHICLE	JST-OCC	6035 NATIONS FORD RD 102	2612	OO/CASE
20100928-0748-00	LA-VEHC	LARCENY FROM VEHICLE	REPORT	3308 TULIP TREE LN	2111	OO/CASE
20100928-0757-00	LA-VEHC	LARCENY FROM VEHICLE	REPORT	7833 CALIBRE CROSSING DR	1712	OO/CASE
20100928-0910-02	LA-VEHC	LARCENY FROM VEHICLE	REPORT	419 ORCHARD TRACE LN 8	0713	
20100928-0934-03	LA-VEHC	LARCENY FROM VEHICLE				
20100928-0959-01	LA-VEHC	LARCENY FROM VEHICLE				
20100928-1005-05	LA-VEHC	LARCENY FROM VEHICLE				

Event Details

Complaint No: 20100928-0529-01
Location: 3201 FORESTBROOK DR 1
Event Type: LA-VEHC REPORT LARCENY FROM VEHICLE
Disposition: OO/CASE

Entry Remarks

- 1 ALT# 828-855-5169 -080.91827 +35.23719
SEE [REDACTED] REF SOMEONE BROKE INTO HER RED CHEVY COBALT SOMETIME
OVER THE NIGHT...STOLE HER GPS
- 2 05:29:52
- 3 ALARM TIMER EXTENDED: 0



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CMPD PREDICTIVE CRIME ANALYTICS

CMPD Portal

Virtual Roll Call | Subjects of Interest | Current Crime Events | **CompStat** | Crime Analysis | CMPD Live

Filter

Geography

Independence Division - Beat 1711

Time Frame

CompStat 28-Day

From: 9/20/2010

To: 10/17/2010

CompStat Symbols

Crime Symbols

Refresh Every

2 Minutes

Set Default Filter

Refresh

OI Activities

RA1 | RA2 | RA3 | **Beat Goals** | Q4 2010

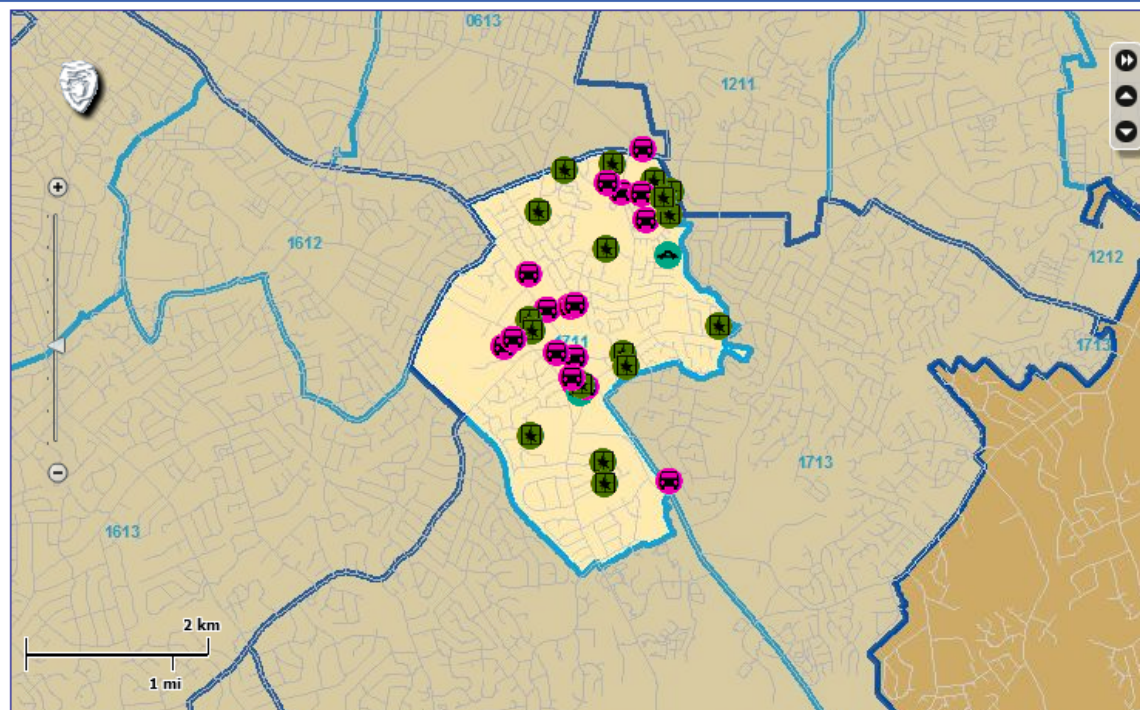
Independence Division - Beat 1711		QTD		Rolling 28	
Crime	Goal %	% Chg.	Avg/Wk	% Chg.	Avg/Wk
ROBBERY	-50%	-66.7%	.4	-62.5%	.8
RESIDENTIAL BURGLARY	-32%	75.0%	5.2	13.3%	4.3
LARCENY FROM AUTO	-33%	180.0%	5.2	100.0%	4.0

Violent Crime Stats

Property Crime Stats



Independence Division - Beat 1711		CompStat 28 Day		
Map	Crime	Current	Prev Yr	Chg.
☒	RESIDENTIAL BURGLARY	18	17	6%
☒	STORAGE SHED BURGLARY	0	0	0%
☐	COMMERCIAL BURGLARY	3	3	0%
☒	AUTO THEFT	2	8	-75%
☐	LARCENY	40	26	54%
☒	LARCENY FROM AUTO	18	6	200%
☐	SHOPLIFTING	3	8	-63%
☐	VEHICLE TAG STOLEN	6	3	100%





CHARLOTTE-MECKLENBURG POLICE DEPARTMENT

Officer Initiated Activities

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CMPD PREDICTIVE CRIME ANALYTICS

CMPD Portal

Virtual Roll Call | Subjects of Interest | Current Crime Events | CompStat | Crime Analysis | CMPD Live

Filter

Geography

Independence Division

Time Frame

Quarter-To-Date

From: 10/1/2010

To: 10/19/2010

☐ CompStat Symbols

☒ Crime Symbols

☐ Refresh Every

30 Minutes

☐ Set Default Filter

Refresh

OI Activities

Beat Goals

Q4 2010



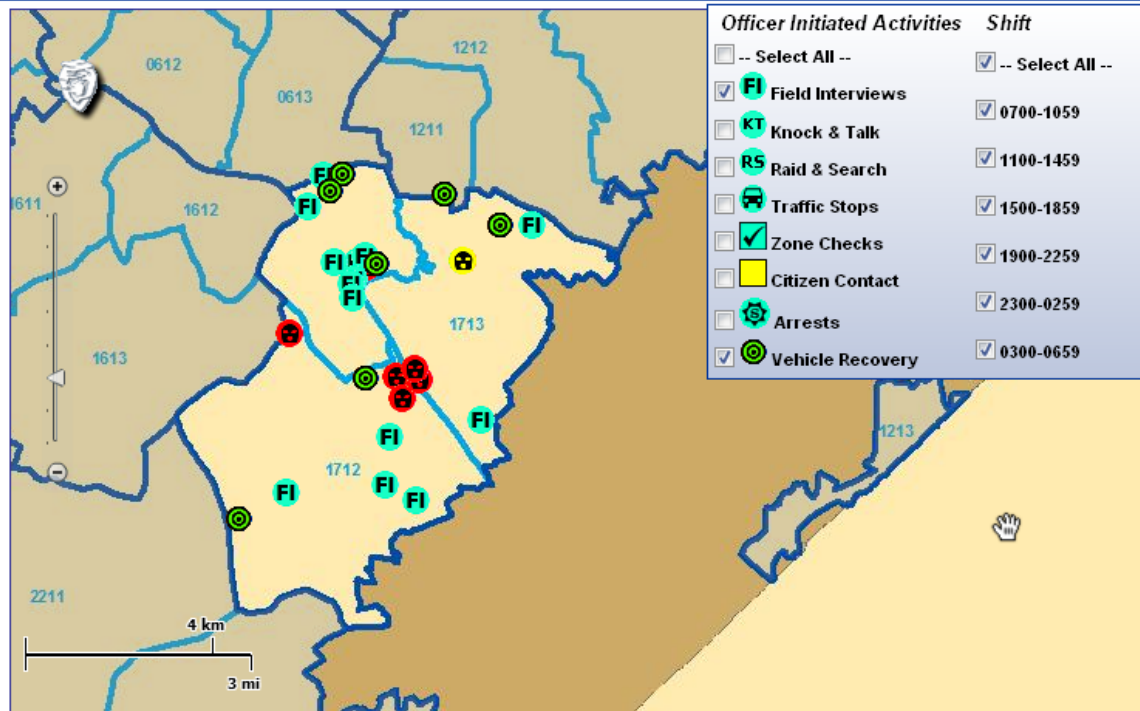
Independence Division - Beat 1711		QTD		Rolling 28	
Crime	Goal %	% Chg.	Avg/Wk	% Chg.	Avg/Wk
ROBBERY	-50%	-66.7%	.4	-62.5%	.8
RESIDENTIAL BURGLARY	-32%	75.0%	5.2	13.3%	4.3
LARCENY FROM AUTO	-33%	180.0%	5.2	100.0%	4.0

Violent Crime Stats

Property Crime Stats



Independence Division		QTR to Date		
Map	Crime	Current	Prev Yr	Chg.
☒	HOMICIDE	0	0	0%
☐	RAPE	0	0	0%
☒	ROBBERY	7	7	0%
☒	COMMERCIAL ROBBERY	1	0	0%
☒	PERSONAL ROBBERY	6	7	-14%
☒	HOME INVASION	1	0	0%
☐	AGGRAVATED ASSAULT	2	10	-80%
☐	ADW-GUN	0	3	-100%





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Predictive Dashboard

- Created predictive dashboard for the following major crime categories:
 - Commercial Robbery
 - Personal Robbery
 - Aggravated Assault
 - Residential Burglary
 - Commercial Burglary
 - Auto Theft
 - Larceny from Auto



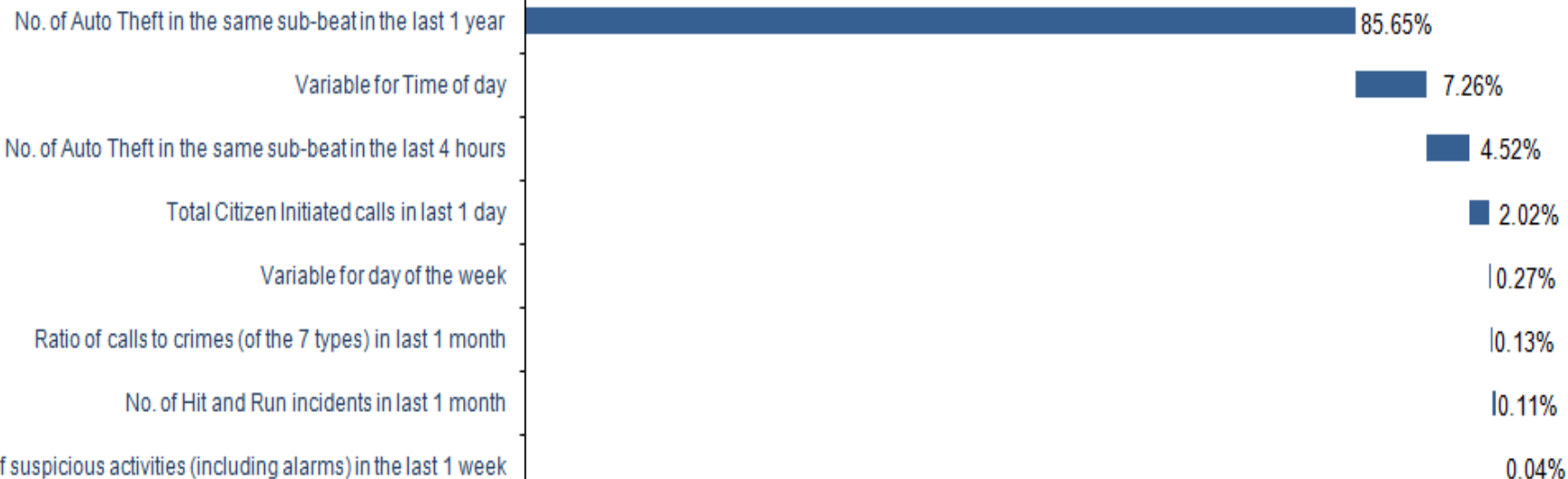
CHARLOTTE-MECKLENBURG POLICE DEPARTMENT

Predictive Dashboard (Continued)

- Built predictive models based on a series of inputs:
 - Historical geographic crime patterns
 - Recent criminal activity (within past 24-48 hours)
 - Day of week and time of day
 - Weather conditions
 - Recent call for service activity
 - School holidays
 - Special Events

Example Auto Theft Model Factors

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%





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Predictive Crime Analytics

CMPD PREDICTIVE CRIME ANALYTICS

CMPD Portal

Virtual Roll Call

Subjects of Interest

Current Crime Events

CompStat

Predictive

CMPD Live

Predictive

Filter

Crime Category

Geography

Shading Level

Set
Default
Filter

Future Day

Shift

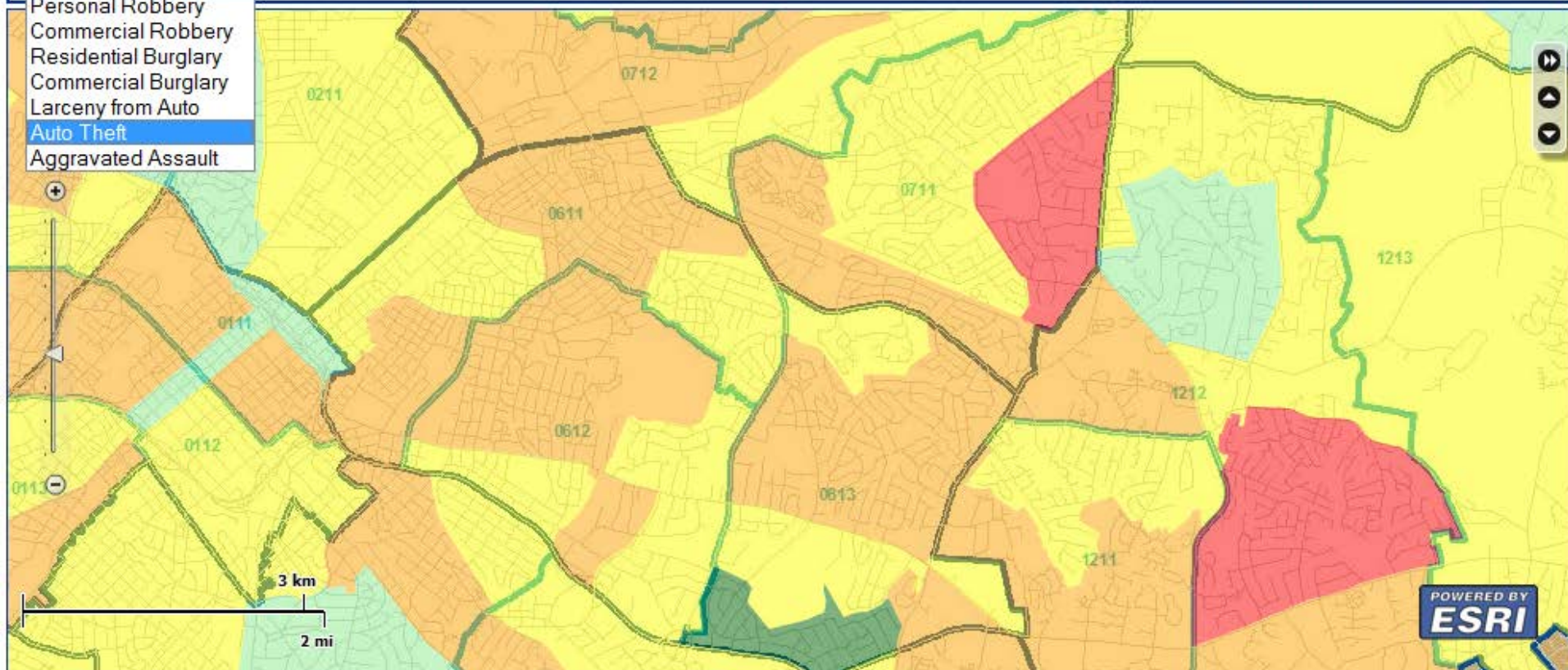
Weather Forecast

Temp: 65°F

Rain: .00"

Predict

- Auto Theft
- Personal Robbery
- Commercial Robbery
- Residential Burglary
- Commercial Burglary
- Larceny from Auto
- Auto Theft
- Aggravated Assault





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Predictive Crime Analytics

CMPD PREDICTIVE CRIME ANALYTICS

CMPD Portal

Virtual Roll Call

Subjects of Interest

Current Crime Events

CompStat

Predictive

CMPD Live

Predictive

Filter

Crime Category

Personal Robbery

Geography

Metro Division

Shading Level

Sub-Beat

Set
Default
Filter

Future Day

2010/10/31

Shift

1900-2259

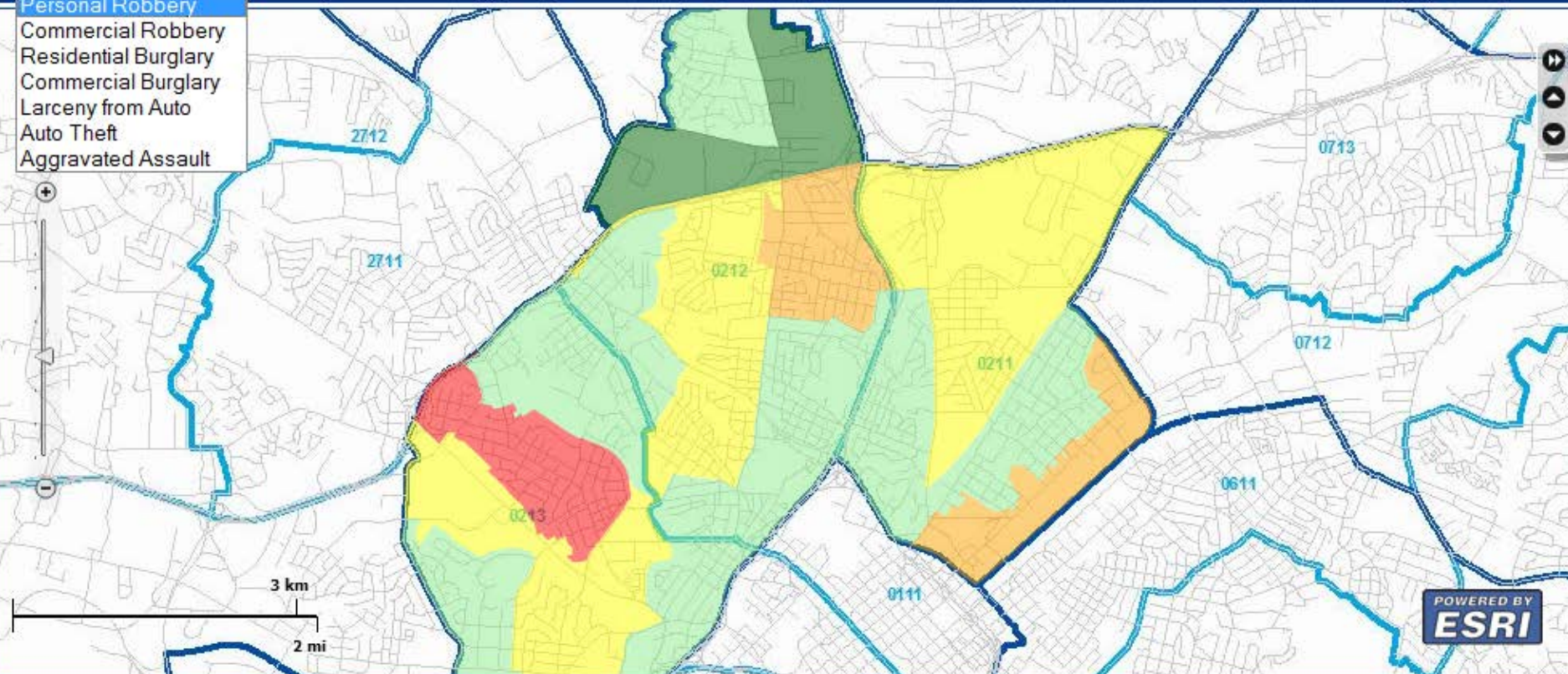
Weather Forecast

Temp: 59°F

Rain: .00"

Predict

Personal Robbery
Commercial Robbery
Residential Burglary
Commercial Burglary
Larceny from Auto
Auto Theft
Aggravated Assault





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Results

- Real-time Hotspot location information is now at the fingertips of frontline officers and commanders
- Synchronizes jurisdiction-level resource deployment
- Increased arrests
- Increased communication and collaboration between frontline officers and analysis team
- Increased accountability across the board
- Liberates analysts to do other activities that drive down crime
- Single version of the TRUTH... Everyone is on the same page



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Measure of Success

“When the system indicated a strong probability of burglaries within the Valleydale Corridor neighborhoods on weekdays between 11 am and 3 pm, I immediately assigned an officer to this area, with backup from the division’s Burglary Suppression Unit and response area coordinators. Soon after, the officer received a call regarding a possible burglary at a vacant house in this targeted zone. The team moved in and quickly apprehended five subjects inside that residence.”

-- Sergeant Lisa Carriker, RA2, Freedom Division, CMPD



**Laureate & Finalist
2011 ComputerWorld
Honors Award**





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Next Steps

- Implement Additional Operational Dashboards to Better Allocate Officers based on Overtime/Offtime and Current Call Level Activity
- Implement Additional Predictive Models for Violent Crimes
- Implement “Top 10” Alerts that give Patrol Officers Real-Time Insight into Potential Threats on Current CFS
- Explore Real-Time Integration with Pawn Data, License Plate Readers & Video Surveillance System
- Explore Citizen-Facing Applications for Better Transparency



Questions?
Comments?

