



Business Intelligence

Presenters:

BI Manager: Greg Stanisci

Business Analyst: Scott Hurst

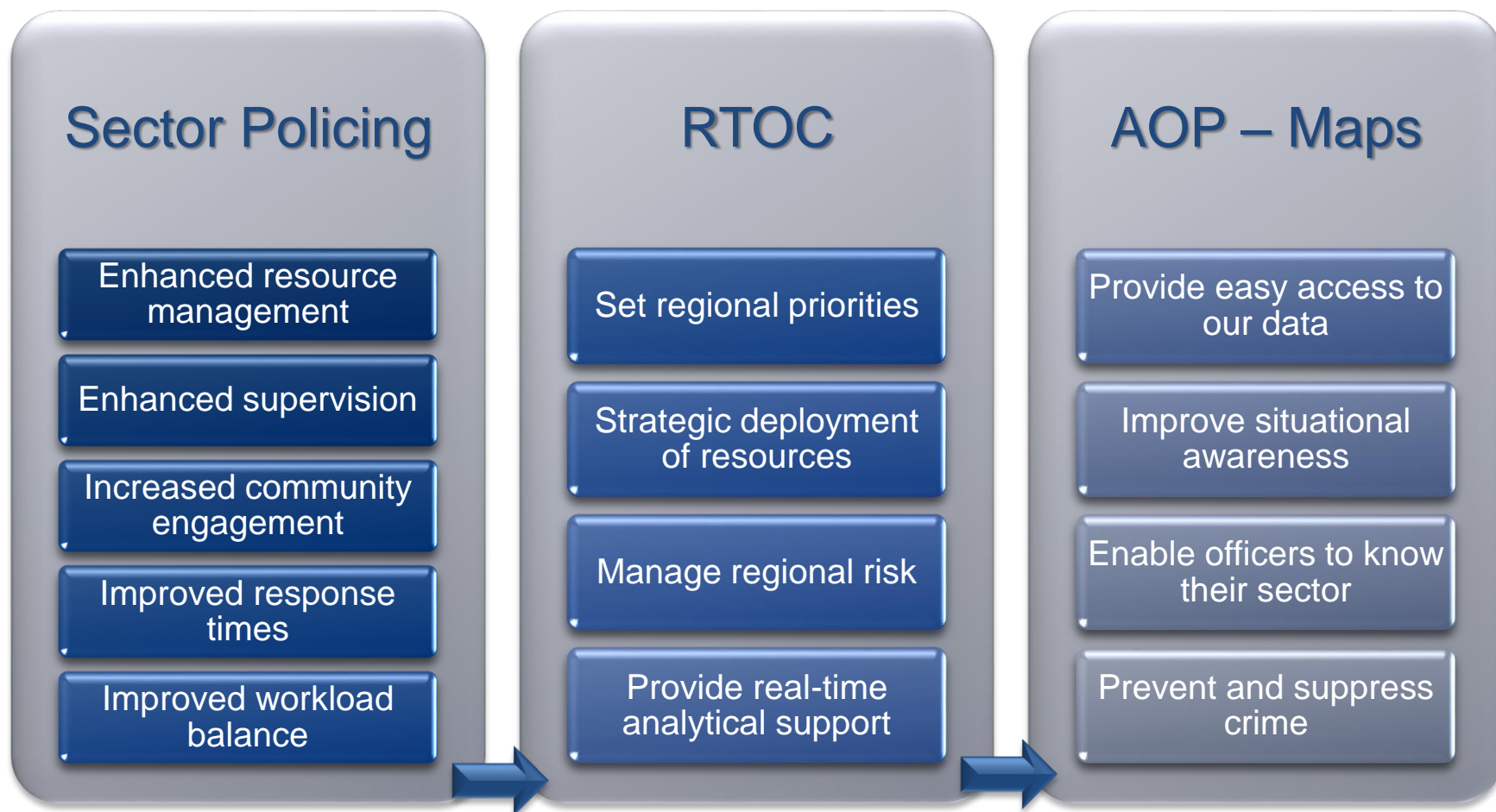
July 10, 2017

Deeds Speak



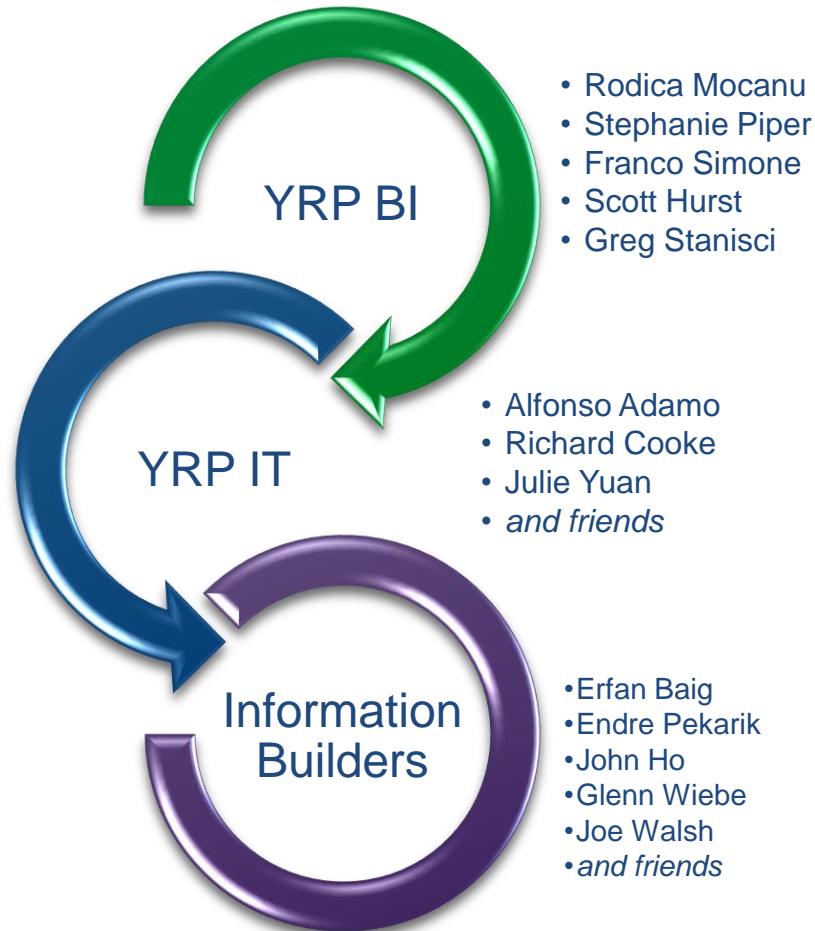


THE MODERNIZATION OF YRP





WORKING TOGETHER





AGENDA

How BI will enable us to:

Efficient with our Resources

Leverage Data to Improve Investigations

Use our Data to Prevent Crime

Support Officer Wellness

Economics of Policing

Turning Our Data Into Intelligence



YRP - INTELLECTUAL PROPERTY

Dashboards were invented by the YRP Business Intelligence (BI) Unit in consultation with key stakeholders at YRP.

The dashboards you are about to see do not exist in any other law enforcement organization.

Information Builders played a key role in bringing our vision to life through their industry leading BI Technology.

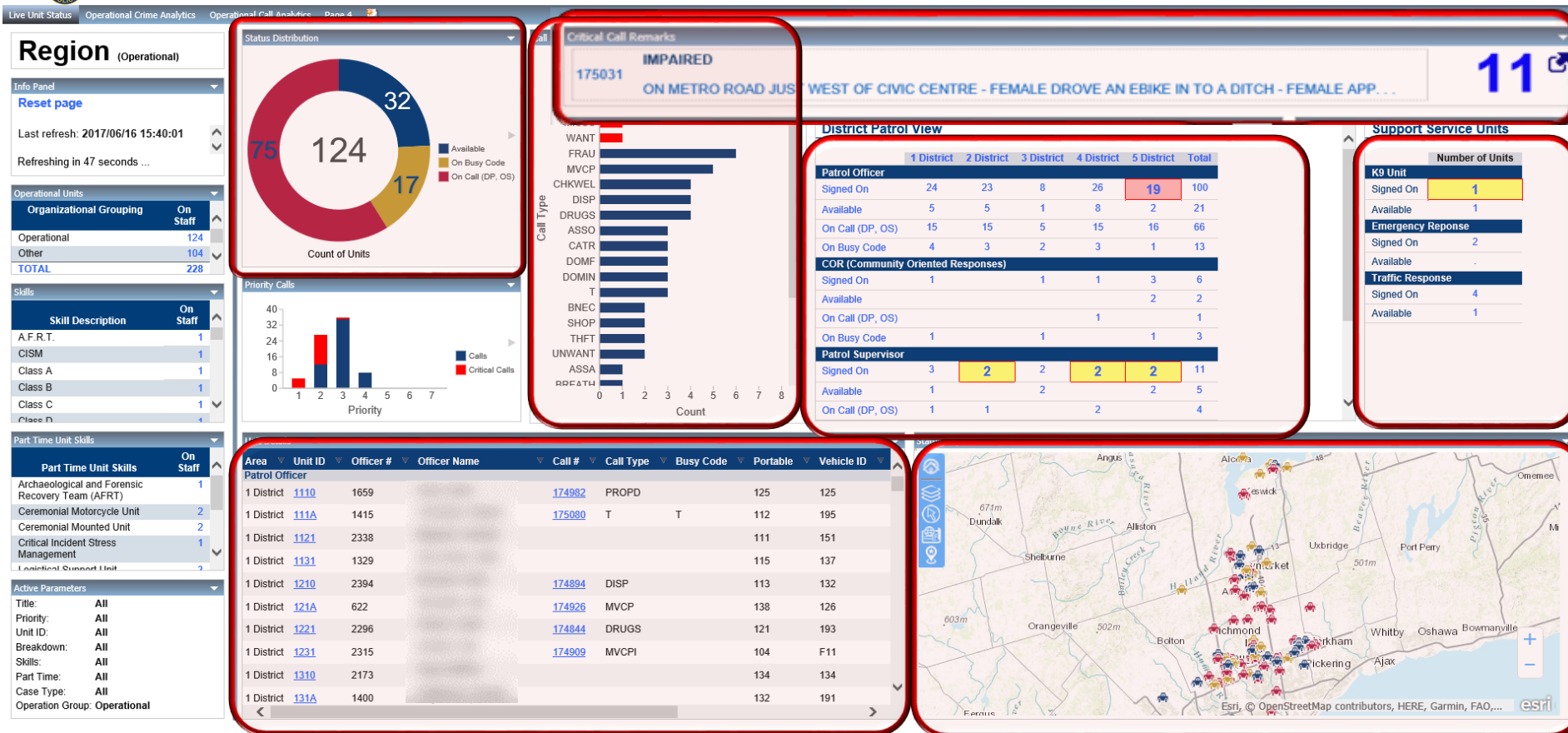


DASHBOARD – LIVE UNIT STATUS



YORK REGIONAL POLICE

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Turning Our Data Into Intelligence



RTOC DASHBOARD - MISSING CHILD SCENARIO

Response time is critical

Need to identify ground searchers

This was a difficult process in the past

Many people involved and multiple systems

Not possible to map them all at once





RTOC – SEARCH & RESCUE



YORK REGIONAL POLICE

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Region (Operational)

Info Panel

Reset page

Last refresh: 2017/06/27 11:43:02

Stopped Refreshing

Operational Units

Organizational Grouping

On Staff

Operational 14

Other 9

TOTAL 23

Skills

Status Distribution

16

Count of Units

Available

On Busy Code

On Call (DP, OS)

Call Type

MVCPI

T

DRUGS

MVCP

SUSP

Count

Critical Call Remarks

186296 Missing Child

XREF WITH YESTERDAY INC 17-185502. SON- LEFT YESTERDAY TO...

3

District Patrol View

	1 District	2 District	3 District	4 District	5 District	Total
Patrol Officer						
Signed On	2	1	1	3	4	11
Available	1		1		2	4
On Call (DP, OS)		1		2	2	5
On Busy Code	1			1		2
COR (Community Oriented Responses)						
Signed On	1	1				2
Available						
On Call (DP, OS)						
On Busy Code	1	1				2
Total						
Signed On	3	2	1	3	4	13
Available	1		1		2	4
On Call (DP, OS)		1		2	2	5

Live Unit Status

Support Service Units

Number of Units

Traffic Response

Signed On 1

Available 1

Search and Rescue Ground Searcher L2

16

Unit Details

Area	Unit ID	Officer #	Officer Name	Call #	Call Type	Busy Code	Portable	Vehicle ID	Unit R
Patrol Officer									
1 District	1210	2292		186571	T	T	108	138	C8#24
1 District	1510	2232					133	133	
1 District	1531	1509				LU	135	195	
2 District	2141	1965		186560	MVCP		238	228	SG#1
3 District	3221	2295					325	334	C8#6
4 District	4231	2167		186458	DRUGS		468	474	C843
4 District	4331	2241				OF	431	470	P431/
4 District	4421	1901		186347	INJU		403	436	R49/
4 District	4431	2186		185990	MVCPI		446	456	C841/
5 District	5121	2055					523	541	

Status Map



DASHBOARDS – SECTOR DEPLOYMENT



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Live Unit Status Administration Unit Status Analysis Sector Model Analytics OAPF 2.0

Sector Model Filters

From Date: 2017/03/01 To Date: 2017/06/28

District: District 5

Sector: All

Platoon: All

Shift Schedule: All

Update Reports

Sector Model Active Parameters

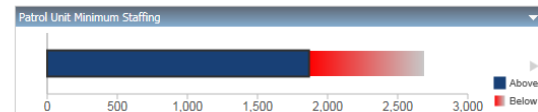
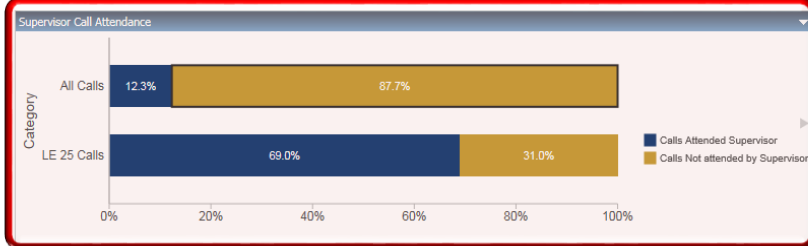
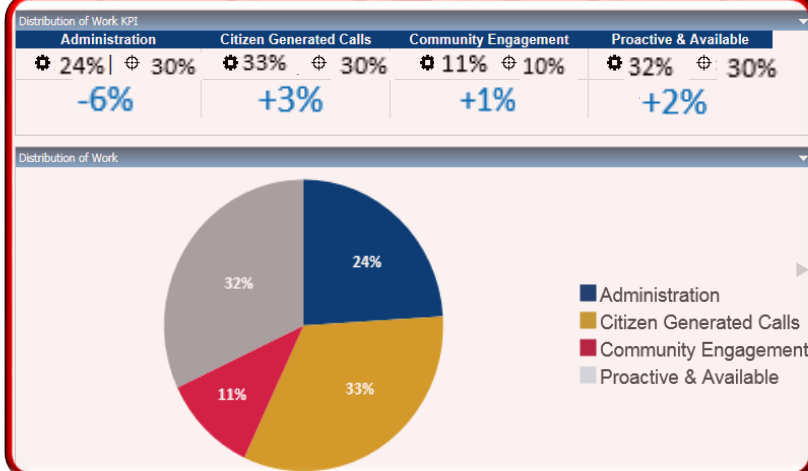
From Date: 2017/03/01 To Date: 2017/06/28

District: 5

Sector: All

Platoon: All

Shift Schedule: All



Acting Sergeant

Acting Count	Total Acting Time (Hours)
167	1,810

Overtime

Overtime Count	Total Overtime
578	1,697

Response Time

Priority	Median Time Per Call	Avg. Response Time	Min. Response Time	Max. Response Time
1	0:06:41	0:07:19	0:01:18	0:15:57
2	0:10:39	0:13:54	0:01:15	0:59:48
3	0:16:02	0:22:57	0:01:06	1:29:50

Call Distribution by Sector

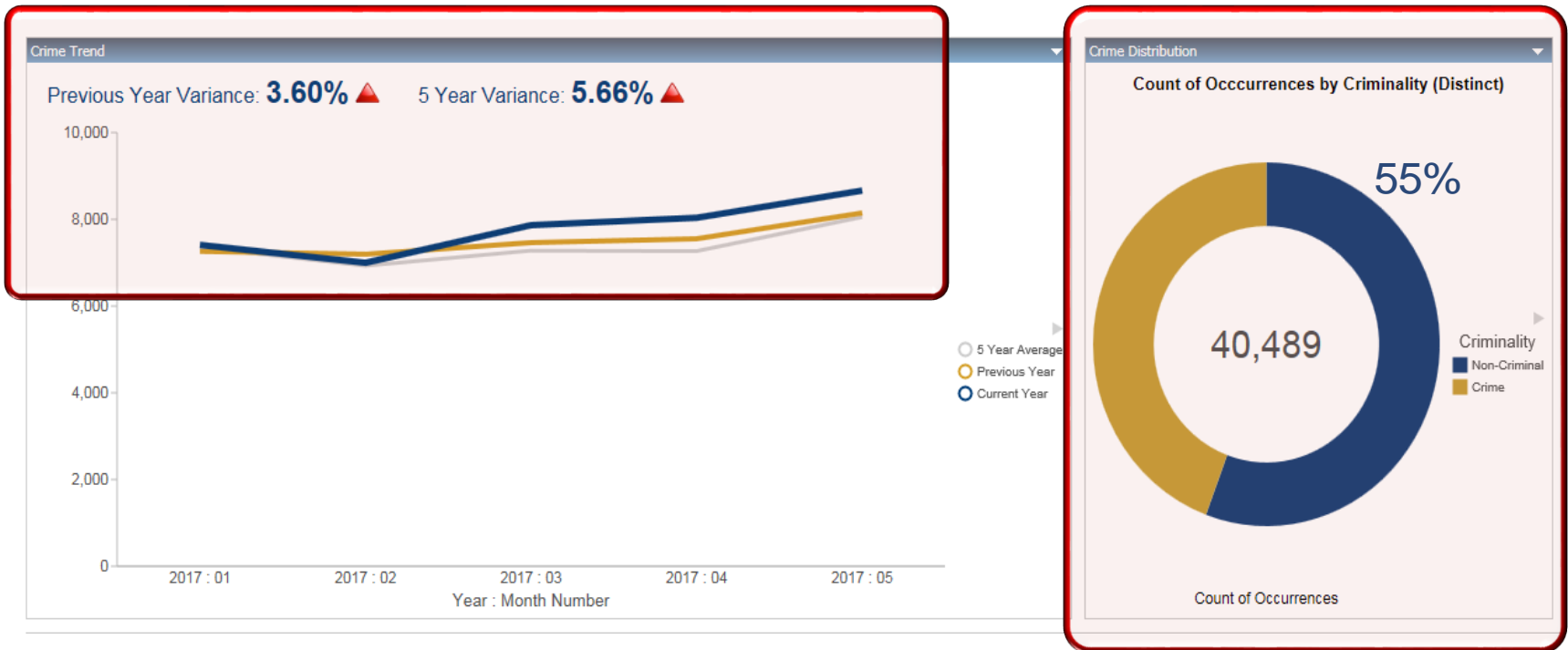
Sector	Count
5	52
5	55
5	54
5	53
5	51

Service Time

Priority	Median Time Per Call	Avg. Service Time	Min. Service Time	Max. Service Time	Avg. # of Units Per Call
1	4:30:40	7:00:34	0:05:54	40:00:59	4.6
2	1:56:52	3:36:14	0:05:02	68:52:43	2.6
3	0:21:00	1:05:04	0:05:01	63:17:07	1.3



DASHBOARDS – CRIME ANALYSIS/TRENDS



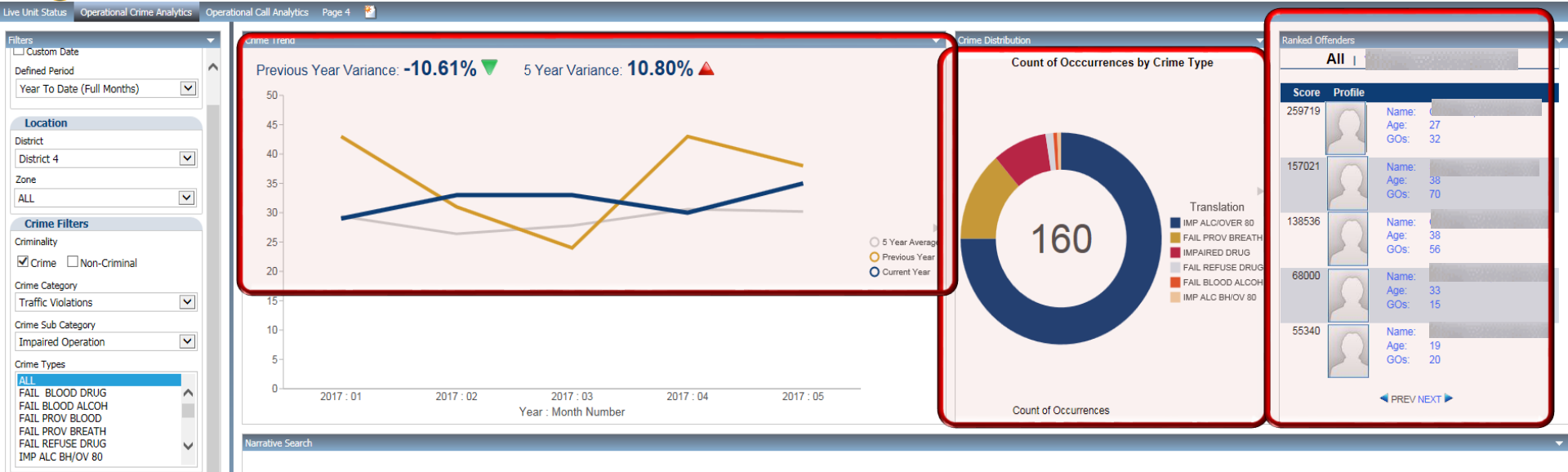


DASHBOARDS – CRIME ANALYSIS/TRENDS



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DASHBOARDS – CRIME ANALYSIS/TRENDS



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Live Unit Status Operational Crime Analytics Operational Call Analytics Page 4

Filters

☐ Custom Date

Defined Period

Year To Date (Full Months)

Location

District

ALL

Zone

ALL

Crime Filters

Criminality

☐ Crime ☒ Non-Criminal

Crime Category

Non-Criminal

Crime Sub Category

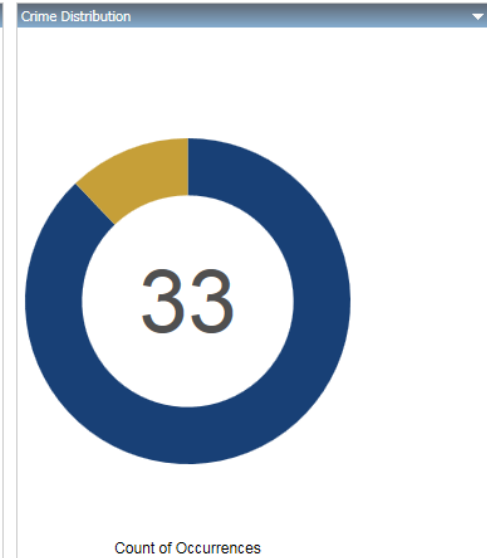
Missing Person

Crime Types

ALL

MISSING ADULT

MISSING YOUTH



Keyword Search

jason

From Date: 2017/01/01
To Date: 2017/05/31
District ID: All
Zone ID: All
Criminality: 'Non-Criminal'
Crime Category: 'Non-Criminal'

Narrative Search

2017/01/01 712 IO

On Sunday evening the 1st day of January, 2017 in the City of Markham York Regional Police attended Markham Stouffville Hospital at 381 Church Street for a missing vulnerable person incident. Hospital staff in the emergency area called in to report I : missing and that he needs to be returned to the hospital as he was placed on a Form 1 by physician Dr. :

On scene police learned that : attended the hospital before 1800hrs voluntarily as he was hearing voices and has been off his Paliperidone



ADVANCED CRIME ANALYSIS



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Break and Enter Analysis Crime Analytics

Filters

Occurrence

Location

Crime

Criminality

☒ Crime ☐ Non-Criminal

Crime Category

Drug Violations

Crime Sub Category

Trafficking - Contr & Res Drug; Traffi

Crime Types

All
TRAFFIC CANNABIS
TRAFFIC COCAINE
TRAFFIC HEROIN
TRAFFIC KETAMINE
TRAFFIC OTH CDSA
TRAFFIC CRYSTAL
TRAFFIC ECSTASY

Persons of Interest

Total Persons Of Interest: 10

RANK	Name	Occ Count	Score	Address

People Selector

Click on the icon for a focused list of POIs (Persons Of Interest).

Occurrence List



Name:

Age:

Gender:

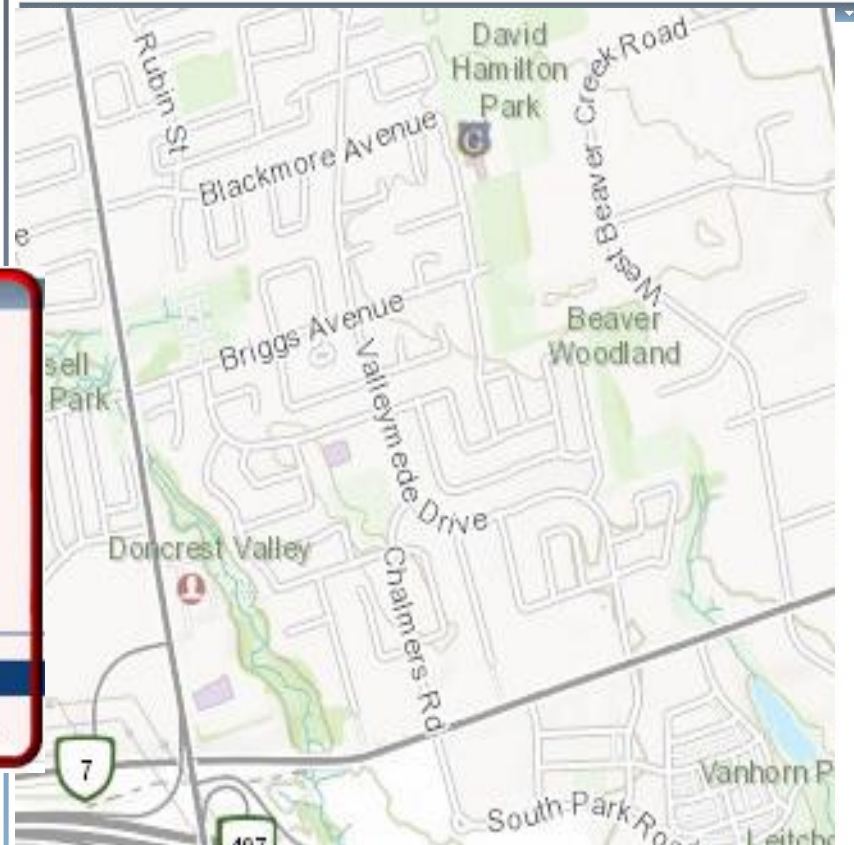
Address:

Score:

Selected UCRs: 1

Total GOs: 3

Occ #	Recency	Reported Date	Role	UCR
123108	61	2017/04/27	YP CHG/ARR	TRAFFIC CANNABIS



CCJS
CCJS Crime Types
CCJS Total Values
People Descriptors
People - Physical Attributes
Break and Enter
Additional Filters

Reload Filters Update Reports

Selected Parameters



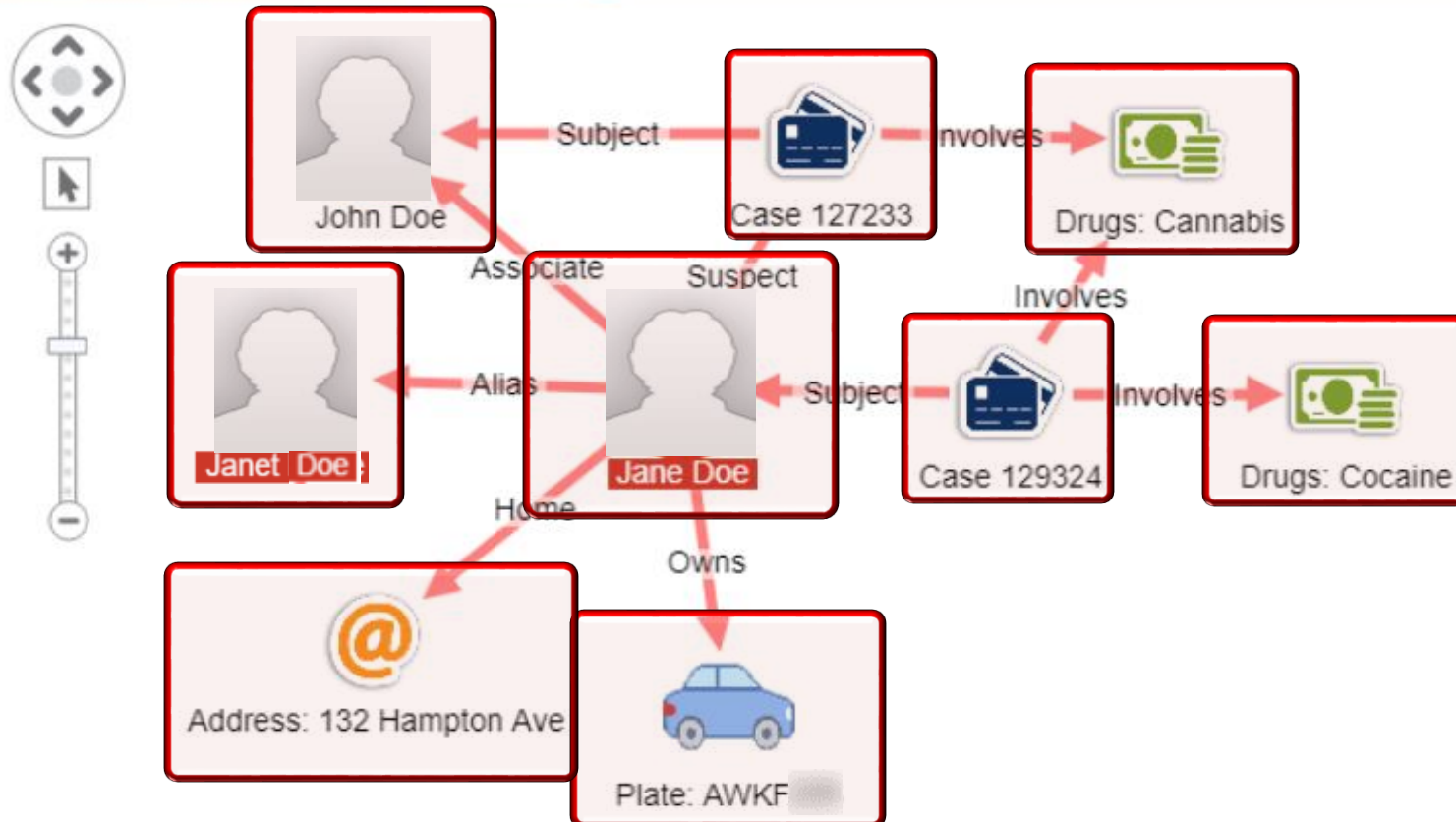
LINK ANALYSIS



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Crime Analytics | Break and Enter Analysis | Link Analysis





CRIME ANALYSIS - BREAK AND ENTER



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Break and Enter Analysis | Crime Analytics

filter crime analysis caller

Occurrence

From Date To Date
2017/01/01 2017/06/27

Weekday
All

Occurrence Number

Operational Status

All

CCJS Status

All

Occ From Date Occ To Date

Submitted by Officer

All

Lead Investigator

All

Unit

All

Keyword Search

Location

Crime

CCJS

CCJS Crime Types

CCJS Total Values

People Descriptors

People - Physical Attributes

Break and Enter

Additional Filters

Reload Filters

Update Reports

Selected Parameters

b and e chart location type

Location	Distribution	Occ Count
HOUSE / PRIVATE RESIDENCE	63.2%	648
OTHER COMMERCIAL	6.8%	70
N/A	5.2%	53
APARTMENT/CONDO	5.0%	51
RESTAURANT/BAR	4.9%	50
STORE-RETAIL	2.0%	21
AUTO DEALERS/RENTAL	1.3%	13

b_and_e_chart_way.fex

Way	Distribution	Occ Count
DOOR	62.0%	636
WINDOW	17.2%	176
NO SIGN OF FORCED ENTRY	12.4%	127
N/A	6.4%	66
WALL	1.6%	16
ADMITTED IN	.4%	4

b and e people of interest

Total Persons Of Interest: 372



b and e occurrence list

Total Occurrences: 1014

Occ #	Crime Category	Crime Sub Category	UCR	Reported Date
184342	Crimes Against Property	Break & Enter	B&E RESIDENTIAL	2017/06/25
183403	Crimes Against Property	Break & Enter	B&E COMMERCIAL	2017/06/24
183526	Crimes Against Property	Break & Enter	B&E RESIDENTIAL	2017/06/24

b and e chart action

Action	Distribution	Occ Count
COMPLETED - THEFT	65.2%	668
COMPLETED - NO THEFT	20.0%	205
ATTEMPT	10.5%	108
N/A	4.3%	44

b and e chart security type

Security	Distribution	Occ Count
NONE	26.1%	277
ALARM(AUDIBLE)	25.3%	269
N/A	19.7%	209
LOCKED DOORS	13.1%	139
PHOTO/CAMERA/VIDEO	6.8%	72
ALARM(SILENT)	4.0%	42
LOCKED WINDOWS	.9%	10

b and e people of interest selected

People Selector

Click on the icon for a focused list of POIs (Persons Of Interest).

b and e occurrence selected

Occurrence Selector

Click on the icon for a focused list of Occurrences.

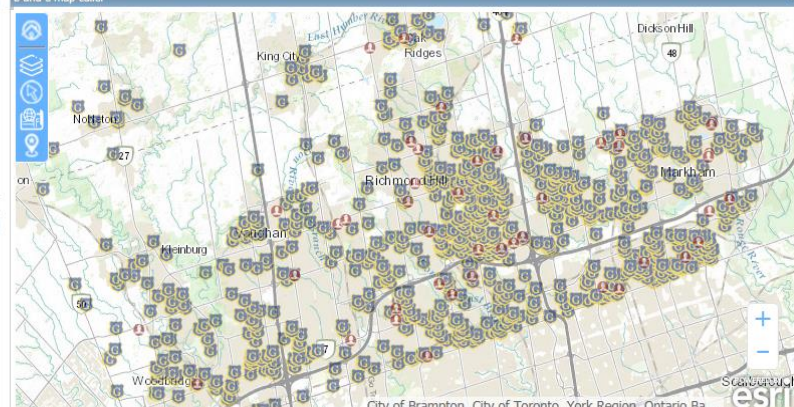
b and e chart target areas

Target Areas	Distribution	Occ Count
N/A	43.8%	481
RES-BEDROOM	16.0%	176
RES-BASEMENT	5.8%	64
RES-MASTER BEDROOM	5.7%	63
RES-LIVING ROOM/FAMILY ROOM	4.8%	53
NR-CASH REGISTER DRAWER	4.1%	45
RES-GARAGE/CARPORT	4.1%	45

b and e chart tools used

Tools Used	Distribution	Occ Count
N/A	51.5%	528
UNKNOWN	30.0%	307
CHISEL/PRY BARS/SCREW DRIVER	9.7%	99
HAMMER/ROCK/BRICK/PROJECTILE	5.5%	56
BOLT/WIRE CUTTERS/PLIERS/GLASS CUTTER	2.3%	24
VEHICLE	.6%	6

b and e map caller





CRIME ANALYSIS - BREAK AND ENTER



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Break and Enter Analysis | Crime Analytics

filter crime analysis caller

Occurrence

From Date: 2017/01/01 To Date: 2017/06/27

Weekday: All

Occurrence Number:

Operational Status: All

CCJS Status: All

Occ From Date: Occ To Date:

Submitted by Officer: All

Lead Investigator: All

Unit:

Keyword Search

crowbar

CCJS

CCJS Crime Types

CCJS Total Values

People Descriptors

People - Physical Attributes

Break and Enter

Additional Filters

Reload Filters Update Reports

Selected Parameters

Location

Location	Distribution	Occ Count
HOUSE / PRIVATE RESIDENCE	33.3%	12
N/A	11.1%	4
PERSONAL CARE/HAIR SALON/TANNING	11.1%	4
RESTAURANT/BAR	11.1%	4
STORE-CONVENIENCE	11.1%	4
OTHER COMMERCIAL	0.0%	0

b and e chart way, fax

Way	Distribution	Occ Count
WINDOW	83.3%	10
DOOR	16.7%	2

b and e people of interest

Total Persons Of Interest: 3

RANK	Name	Occ Count	Score	Address
1				
2				
3				

b and e occurrence list

Total Occurrences: 3

Occ #	Crime Category	Crime Sub Category	UCR	Reported Date
158865	Crimes Against Property	Break & Enter	B&E RESIDENTIAL	2017/06/01
52065	Crimes Against Property	Break & Enter	B&E RESIDENTIAL	2017/02/20
23644	Crimes Against Property	Break & Enter	B&E RESIDENTIAL	2017/01/24

b and e chart action

Action	Distribution	Occ Count
COMPLETED - THEFT	100.0%	12

b and e chart security type

Security	Distribution	Occ Count
N/A	75.0%	9
ALARM/AUDIBLE	16.7%	2
PHOTO/CAMERA/VIDEO	8.3%	1

b and e people of interest selected

People Selector

Click on the icon for a focused list of POIs (Persons Of Interest).

b and e occurrence selected

Occurrence Selector

Click on the icon for a focused list of Occurrences.

b and e chart target areas

Target Areas	Distribution	Occ Count
RES-MASTER BEDROOM	64.3%	9
NR-SAFE BOX	14.3%	2
RES-BASEMENT	14.3%	2
N/A	7.1%	1


b and e chart tools used

Tools Used	Distribution	Occ Count
N/A	75.0%	9
CHISEL/PRY BARS/SCREW DRIVER	16.7%	2
UNKNOWN	8.3%	1

b and e map caller



PRIORITY PATROL ZONES

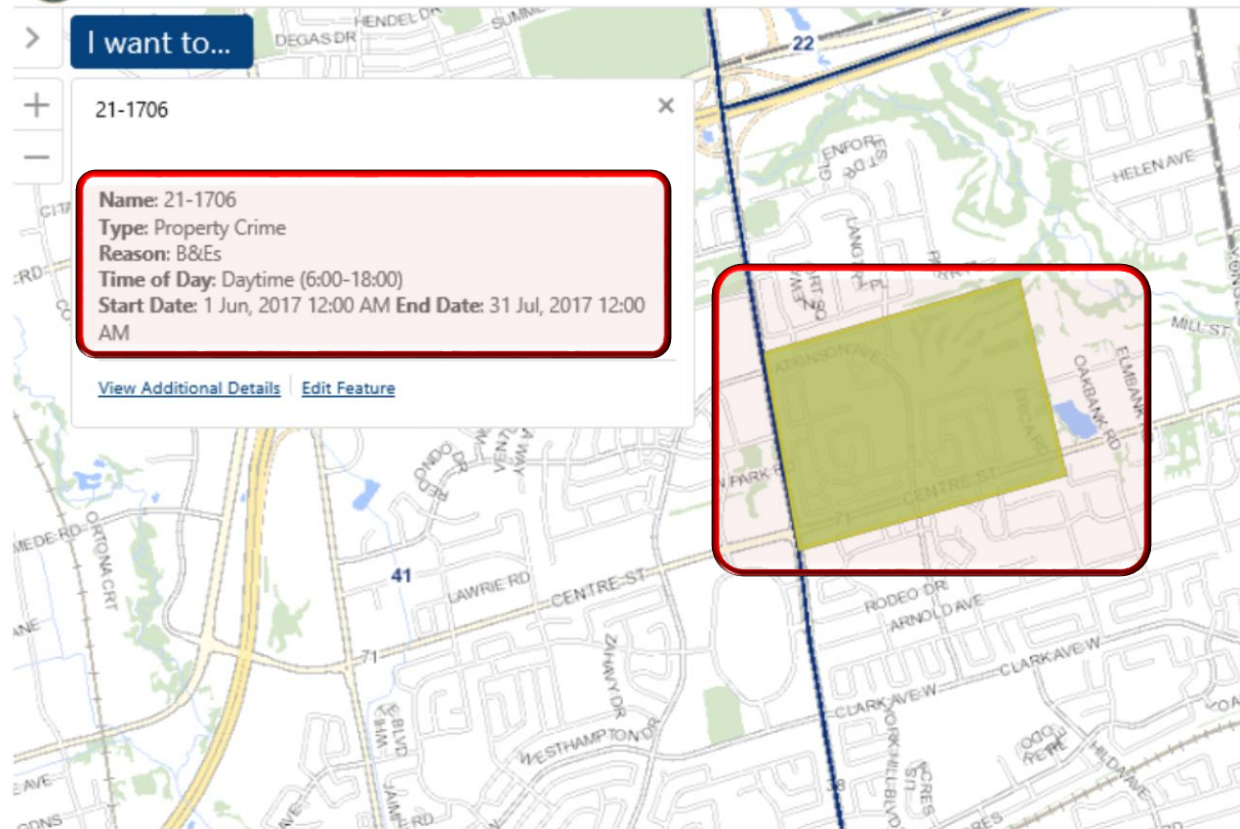
 York Regional Police | Priority Patrol

I want to...

21-1706

Name: 21-1706
Type: Property Crime
Reason: B&Es
Time of Day: Daytime (6:00-18:00)
Start Date: 1 Jun, 2017 12:00 AM **End Date:** 31 Jul, 2017 12:00 AM

[View Additional Details](#) [Edit Feature](#)

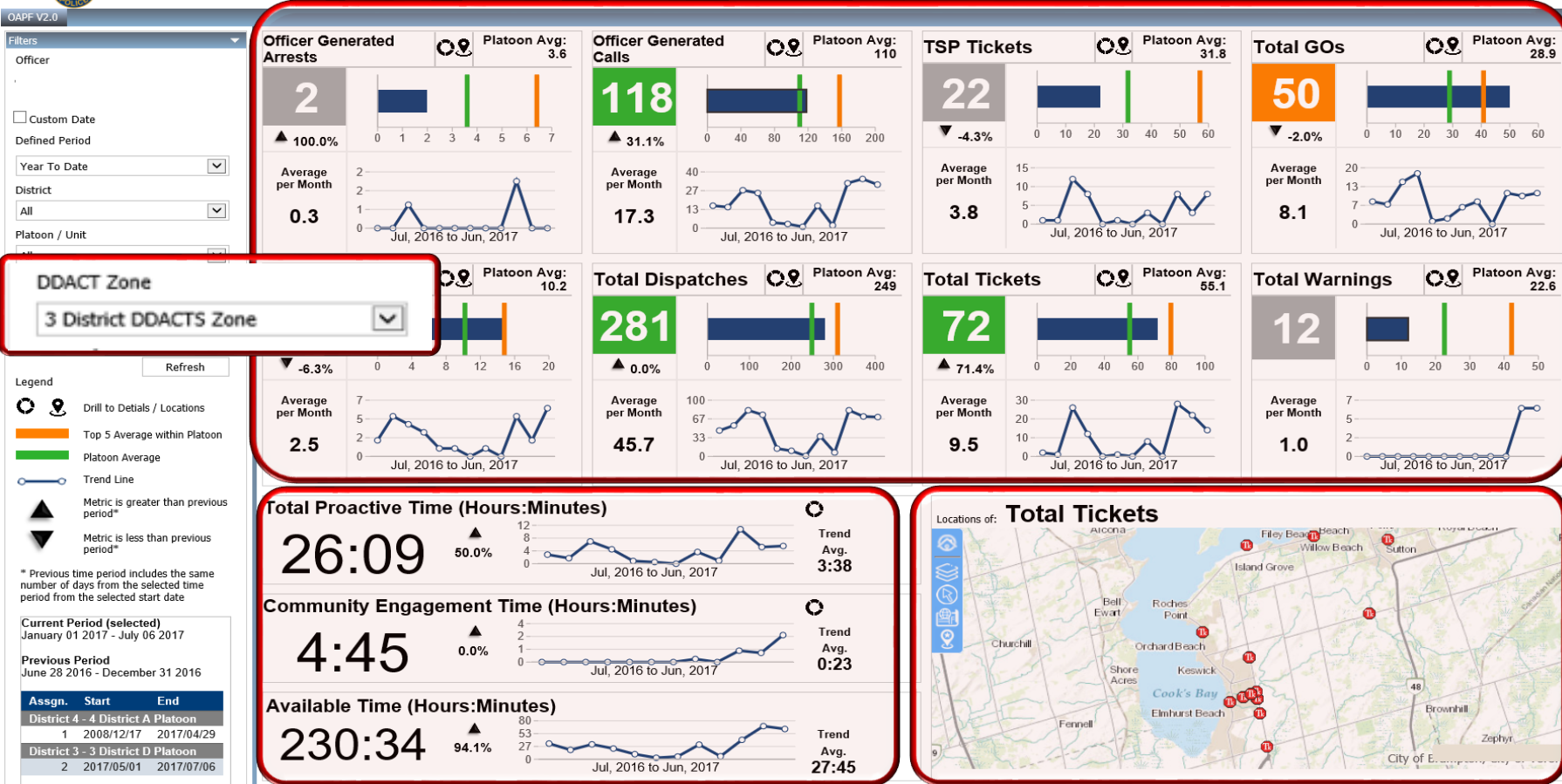
A map of a residential area in York Region, Ontario. A specific area is highlighted in green, representing the Priority Patrol Zone 21-1706. The map shows streets such as Centre St, Lawrie Rd, and Rodeo Dr. The highlighted area is a rectangular block bounded by Centre St to the north, Clark Ave W to the south, and a vertical street to the east and west. The map also shows other streets like Degas Dr, Hendel Dr, and Glenora Dr.



OFFICER ACTIVITY BY PRIORITY PATROL ZONE

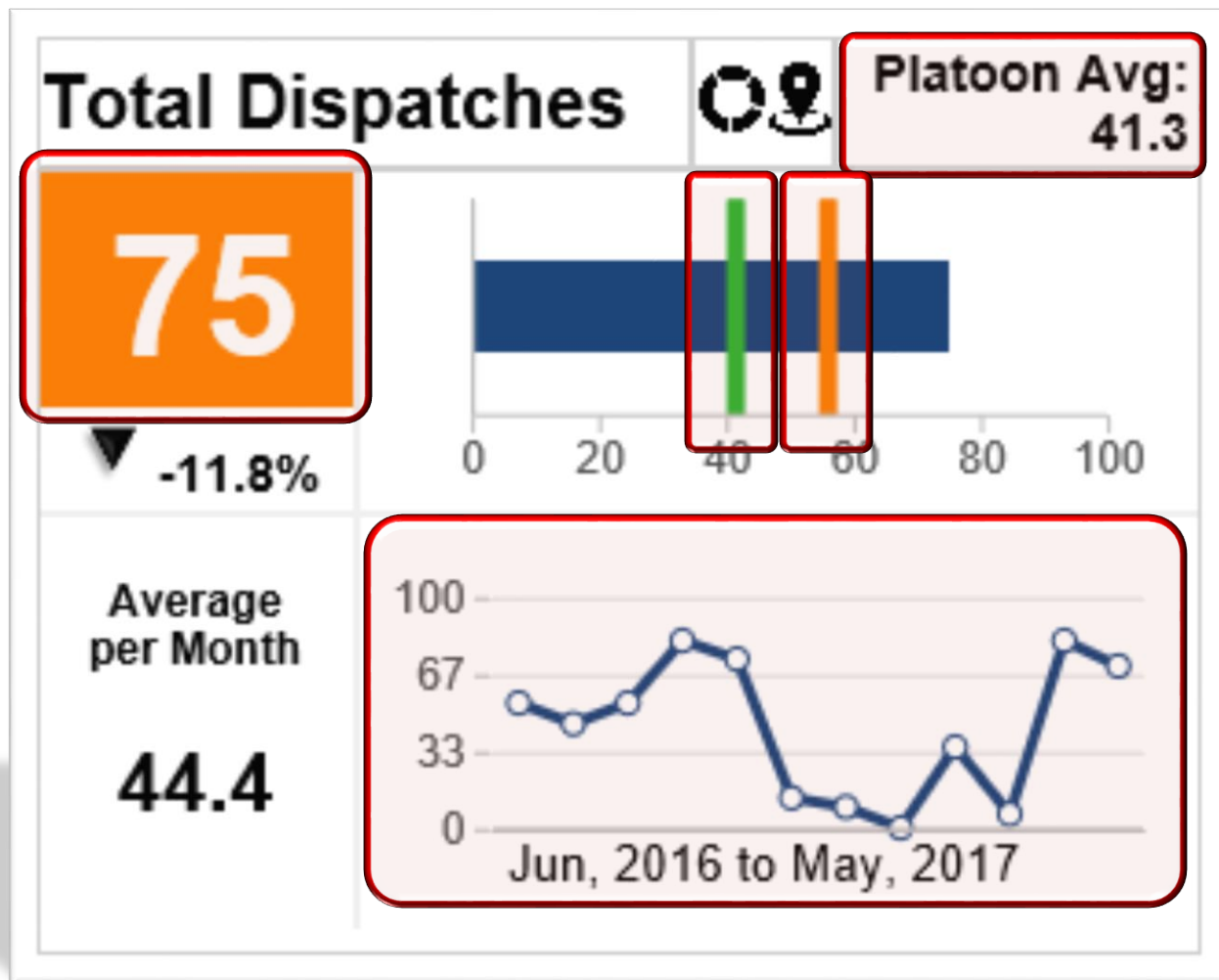


YORK REGIONAL POLICE





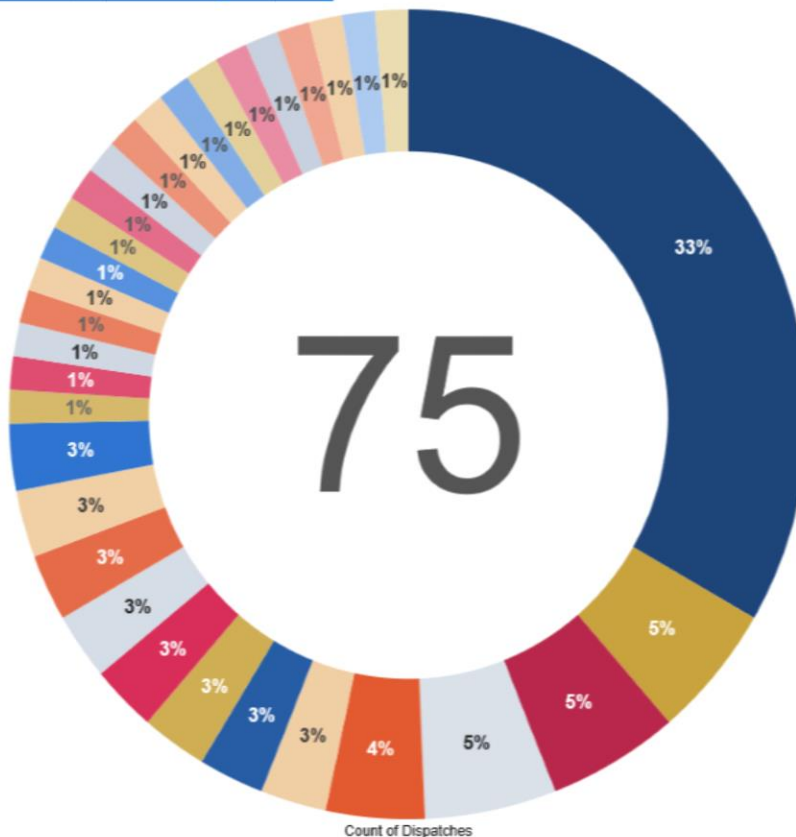
OFFICER ACTIVITY DASHBOARD





OFFICER ACTIVITY DASHBOARD - DISPATCHES

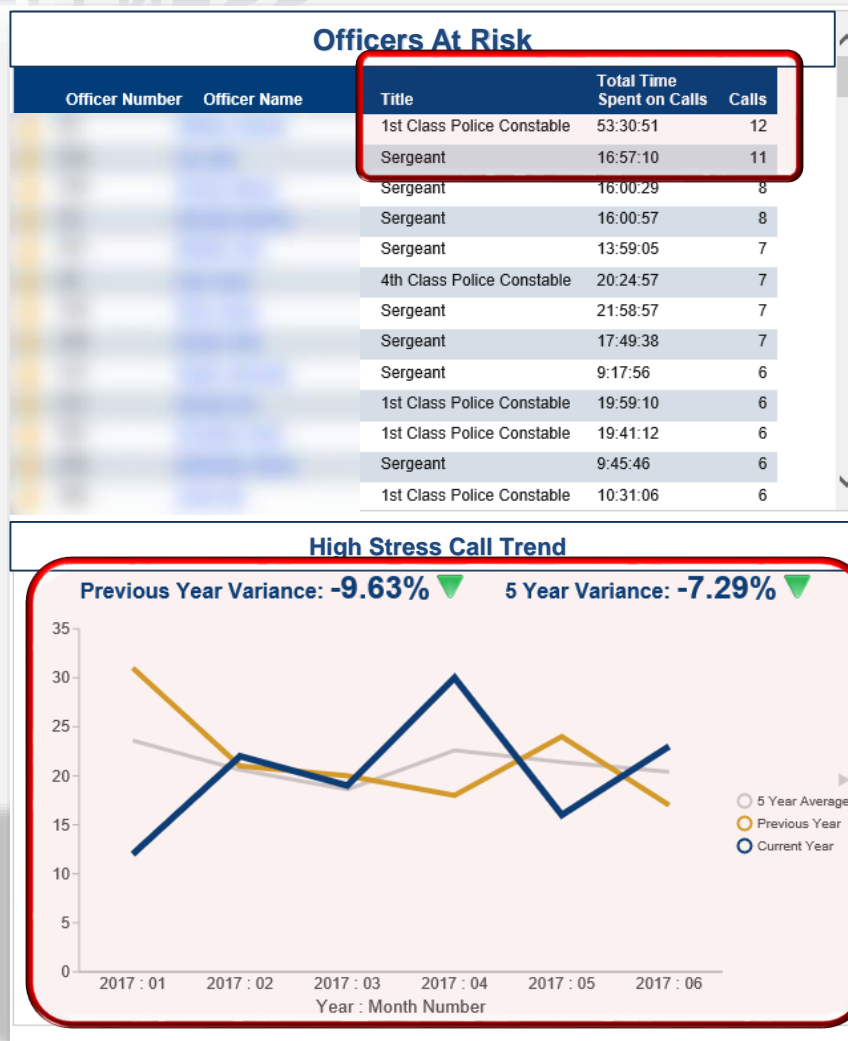
Total Dispatches 75
[View all Total Dispatches](#)



- Initial Call Type
- TRAFFIC STOP
 - ASSIST CITIZEN
 - DOMESTIC INCIDENT
 - NOISE COMPLAINT
 - BREAK AND ENTER IN PROGRESS
 - DOMESTIC FAMILY
 - DRIVING COMPLAINT
 - IMPAIRED
 - MVC PROPERTY DAMAGE
 - THREATS
 - UNKNOWN TROUBLE
 - WANTED PERSON
 - YOUTH COMPLAINT
 - ALARM / VERIFIED
 - ALARM PANIC
 - ASSAULT REPORT
 - ASSIST P.O. OR OTHER AGENCY
 - BREAK IN RESIDENTIAL
 - COMPLAINT AREA TRAFFIC
 - DISPUTE
 - DOMESTIC KEEP THE PEACE
 - EMOTIONALLY DISTURBED PERSON
 - FRAUD
 - KEEP THE PEACE
 - LIQUOR OFFENCE



OFFICER WELLNESS



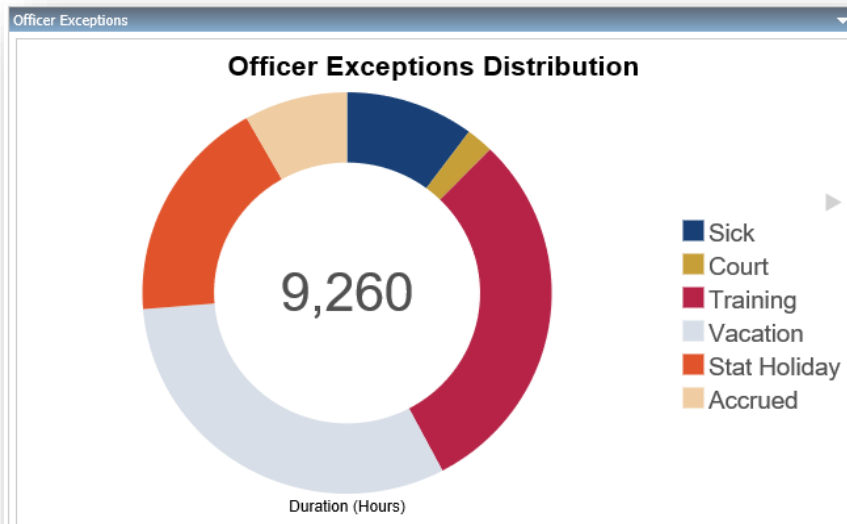


ECONOMICS OF POLICING

Understand
the True
Cost of our
Business

Budget
Preparation

Budget
Decisions



Cost from Call for Service through to Court

Cost of Specific Case Types

Cost of Specific Activities/Projects



BI – MODERNIZING POLICING

Community Focus

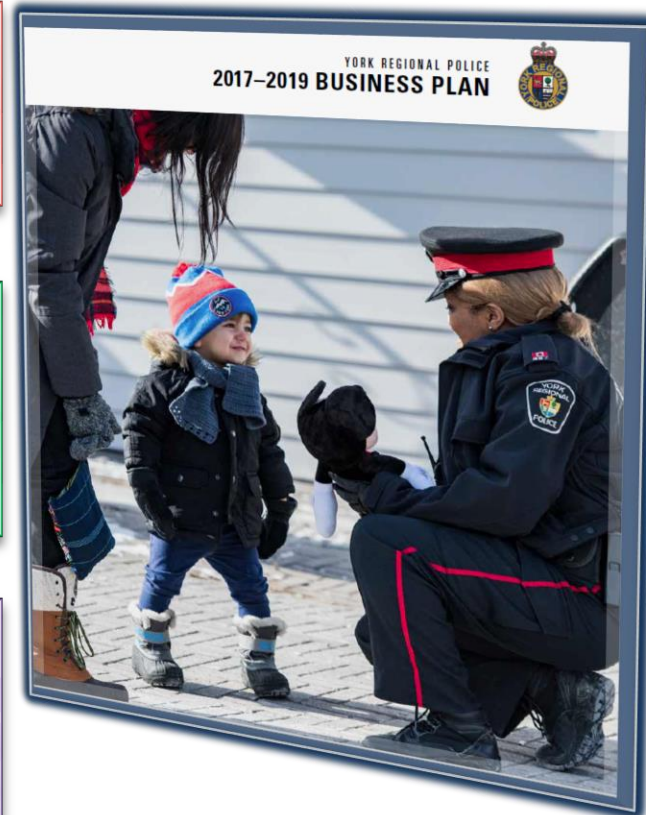
- Engaging communities with a greater understanding of their needs through data

Superior Quality of Service

- More efficiently and effectively using of our resources through an improved understanding of our business

Operational Excellence

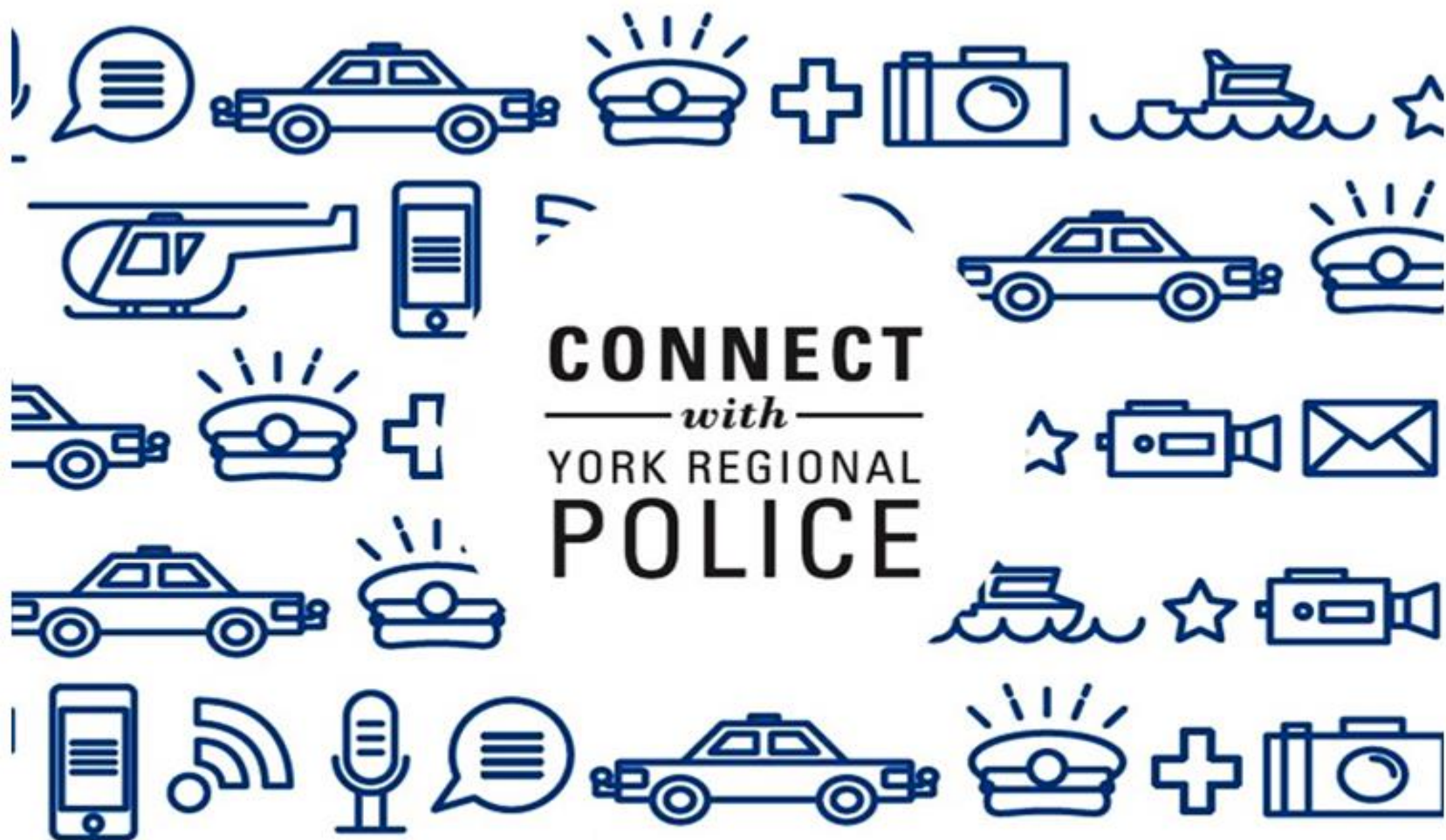
- Enhancing our crime prevention, detection, suppression and enforcement activities by leveraging the potential of our data
- Reduce risk through greater situational awareness





Thank you Questions?





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