

# 2017 Q2 EPS Response Time and Dispatch Call Volumes

Presented to the Edmonton Police Commission
July 20, 2017

# **Purpose**



- Respond to EPC's request to provide trend analysis of Priority 1-5 Response Time Performance & Dispatch Call Volumes (2009 - 2017 Q2).
- New for this report:
  - Response Time Performance by patrol division.
  - Response Time Distribution by each priority level.

## **Priority Levels & Response Time Targets**



Priority Code	Definition/Example	Response Time Target (80% of the time)
0	Officer in Distress / Officer Needs Assistance	
1	In Progress Person At Risk - Response will likely prevent or reduce further harm to a person example: assault with a weapon in progress	Dispatch Time + Travel Time ≤ 7 minutes
2	In Progress Property At Risk - Immediate response will likely prevent or reduce the further loss of property example: a neighbour observing an auto theft in progress	Dispatch Time + Travel Time ≤ 12 minutes
3	Just Occurred - Immediate response will increase the likelihood of locating a suspect example: mischief that occurred very recently	Dispatch Time + Travel Time ≤ 17 minutes
4	The Nature of the Occurrence is Time Sensitive example: a shoplifter is in-custody with security and is cooperative	Dispatch Time + Travel Time ≤ 40 minutes
5	<b>General Service</b> - The nature of the offence is not time sensitive example: a business finds that they were vandalized the night before (i.e., the absence of <i>in progress</i> or <i>just occurred</i> )	Dispatch Time + Travel Time ≤ 180 minutes
6	The Occurrence is Minor in Nature (eg.) Bylaw	
9	Broadcast - Information only	

### What is Included in our Statistics



#### **Dispatch Call Volume**

- Priority 1-5
- Pre-empted calls where we do not arrive

#### **Excludes:**

- On-view calls (< 30 second response)</li>
- Follow-up calls
- Priority 0 (officer in distress), 6 (bylaw), 9 (general information)

In 2016, Dispatch Call Volume was 163,158.



#### **Response Time Performance**

Priority 1-5

#### In addition to above criteria, excludes:

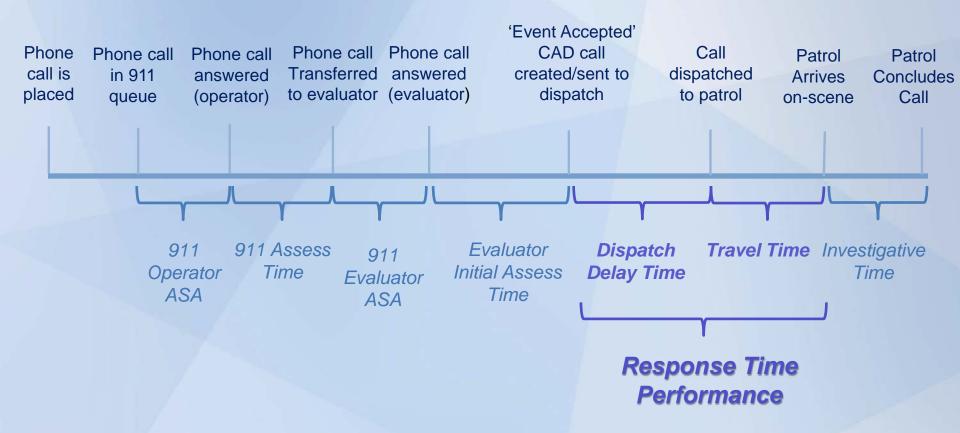
- Priority 1 impaired driving
- Pre-empted calls where we do not arrive
- Calls where the final priority level was more urgent than the original level (~2.5% of calls in 2016)

Response Time Performance calculates from a subset of dispatch call volume.

In 2016, this was based on 139,711 records.

# Steps to Complete a 9-1-1 Emergency Call



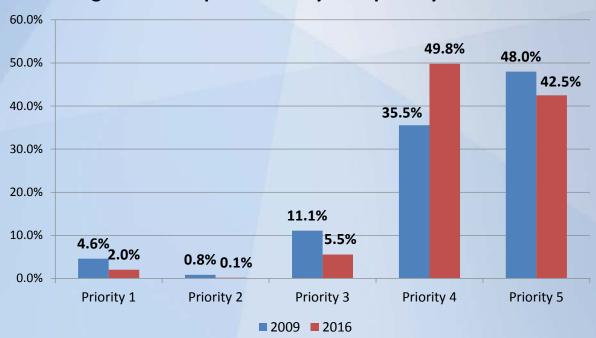


### **Distribution of Priority Levels**



- The majority of dispatch call events are of low priority (P4,P5).
- Only 7.6% of calls in 2016 were highly urgent (P1-P3). In 2009, this was 16.5%.
- All growth in calls since 2009 have been in low priority (P4,P5).

#### Percentage of EPS Dispatch Calls by final priority level



# **Response Time Drivers**



Response time is driven by a number of factors, including:

- Police strength
  - Number of resources
  - Resources committed to other calls
- Geographic size
  - Distance
  - Urban sprawl
- Environmental factors
  - Traffic conditions
  - Construction zones
  - Weather
  - Traffic Congestion, Travel Speeds

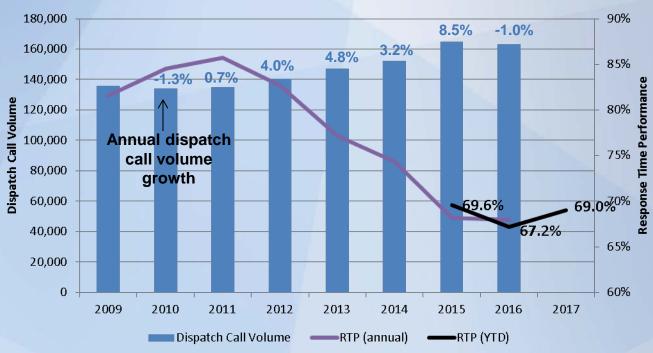
- Dispatch Call Volume
- Population growth
- Increasing complexity of criminal investigations and judicial requirements

### P1-P5 Response and Dispatch Call Volume



- P1-P5 Dispatch Call Volume decreased 2.4% from 2016-2017 YTD
- P1-P5 Response Time Performance declines since 2011 until this year.
- 2017 YTD P1-P5
  Response Time
  Performance was
  69.0%, compared to
  67.2% in 2016 YTD.

### Response Time Performance (RTP) and Dispatch Call Volume Priority 1-5 events

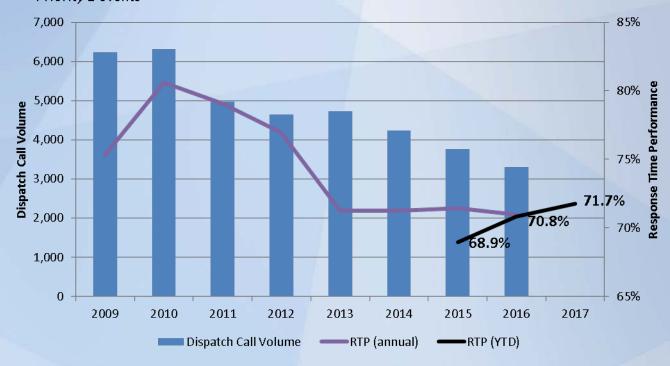


### P1 - Response and Dispatch Call Volume



- P1 Dispatch Call Volume decreased 9.6% from 2016-2017 YTD.
- P1 Response Time Performance 71.7% 2017 YTD, compared to 70.8% 2016 YTD.

### Response Time Performance (RTP) and Dispatch Call Volume Priority 1 events

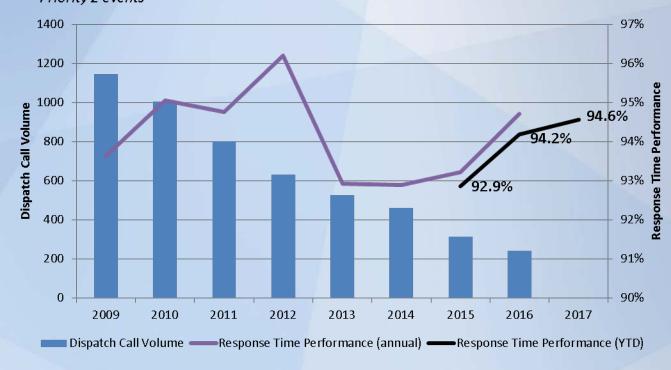


### P2 - Response and Dispatch Call Volume



- P2 Dispatch Call Volume increased 2.0% from 2016-2017 YTD.
- P2 Response Time Performance **94.6%** 2017 YTD, compared to **94.2%** 2016 YTD.

### Response Time Performance (RTP) and Dispatch Call Volume Priority 2 events

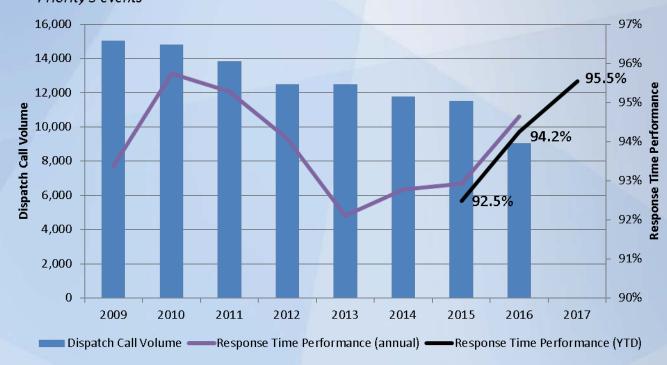


### P3 - Response and Dispatch Call Volume



- P3 Dispatch Call Volume decreased 9.3% from 2016-2017 YTD.
- P3 Response Time Performance 95.5% 2017 YTD, compared to 94.2% 2016 YTD.

### Response Time Performance (RTP) and Dispatch Call Volume Priority 3 events

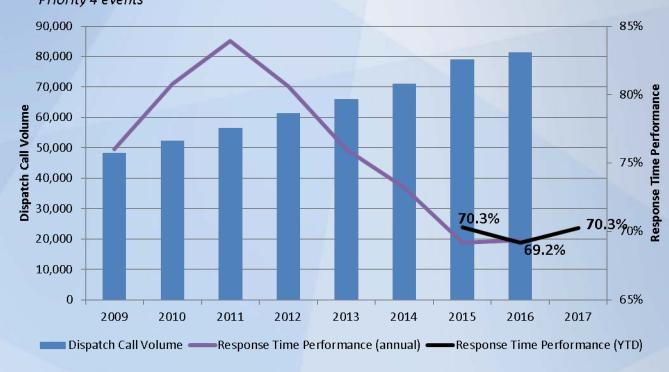


### P4 - Response and Dispatch Call Volume



- P4 Dispatch Call Volume decreased **0.4%** from 2016-2017 YTD.
- P4 Response Time Performance 70.3% 2017 YTD, compared to 69.2% 2016 YTD.

### Response Time Performance (RTP) and Dispatch Call Volume Priority 4 events

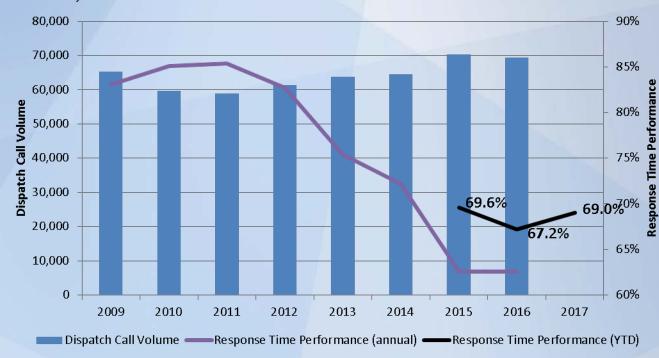


### P5 - Response and Dispatch Call Volume



- P5 Dispatch Call Volume decreased 3.6% from 2016-2017 YTD.
- P5 Response Time Performance 69.0% 2017 YTD, compared to 67.2% 2016 YTD.

### Response Time Performance (RTP) and Dispatch Call Volume Priority 5 events

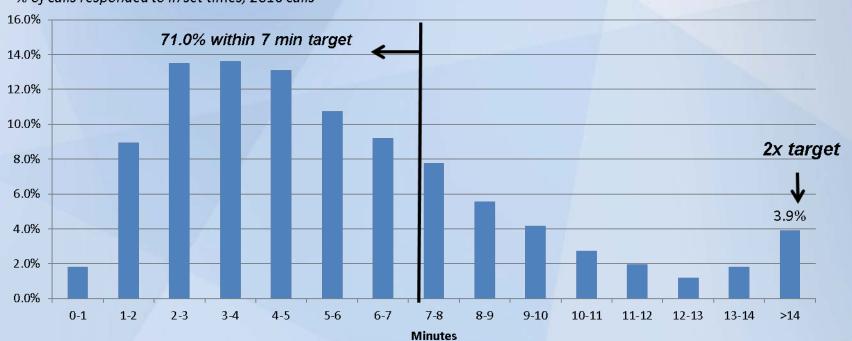




# **Response Time Distribution**

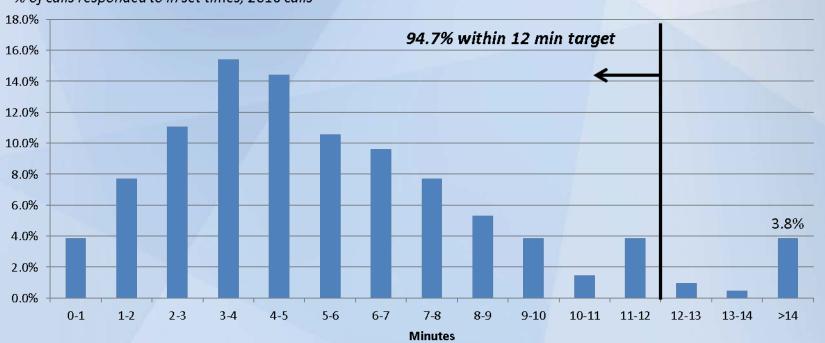


#### **P1** Response Time Performance Distribution



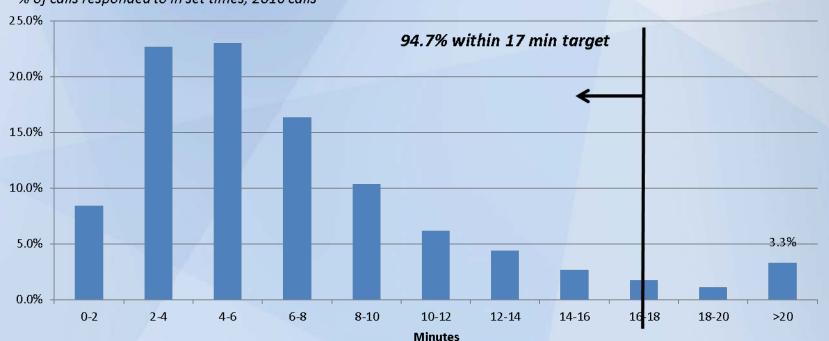


#### **P2** Response Time Performance Distribution



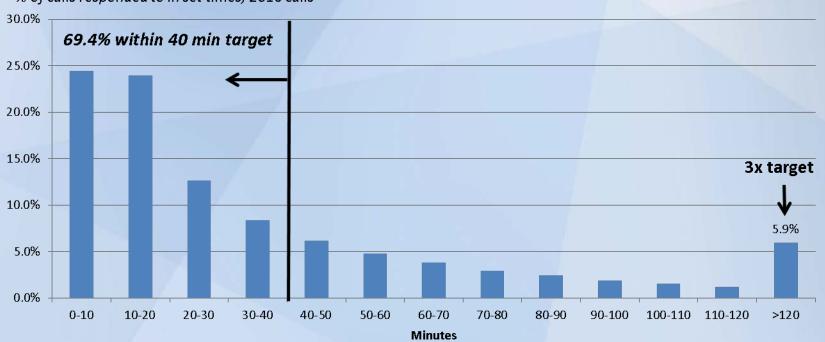


#### **P3 Response Time Performance Distribution**



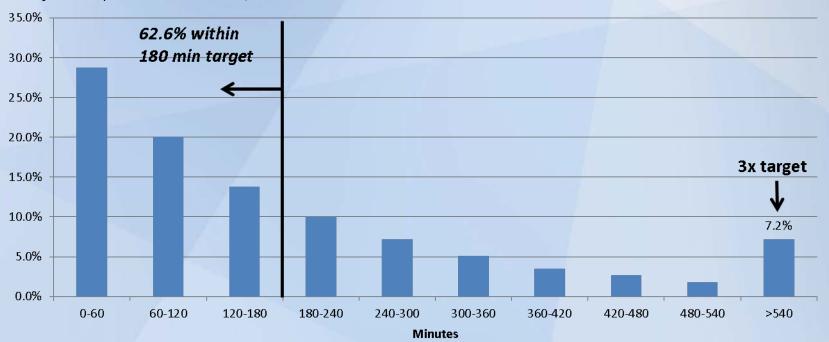


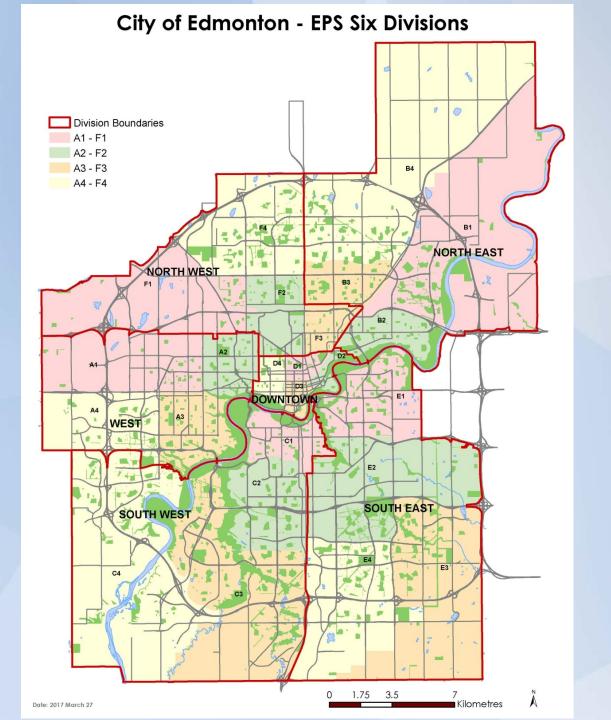
#### **P4 Response Time Performance Distribution**





#### **P5 Response Time Performance Distribution**





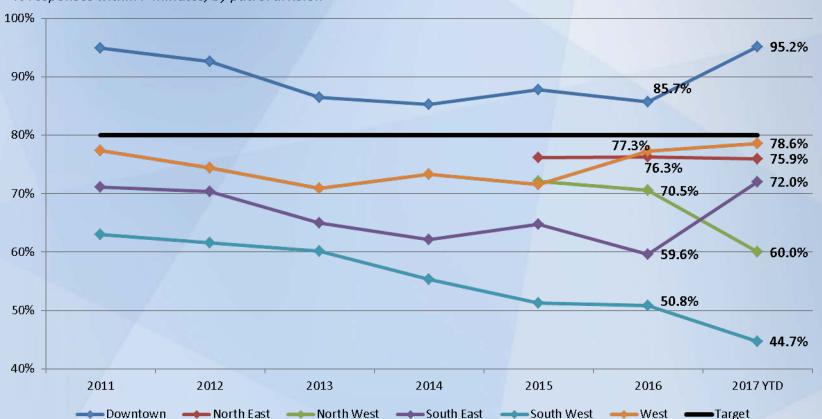




### **Response Time – Divisions**

#### **P1** Response Time Performance

% responses within 7 minutes, by patrol division





### **Response Time – Divisions**

#### **P2** Response Time Performance

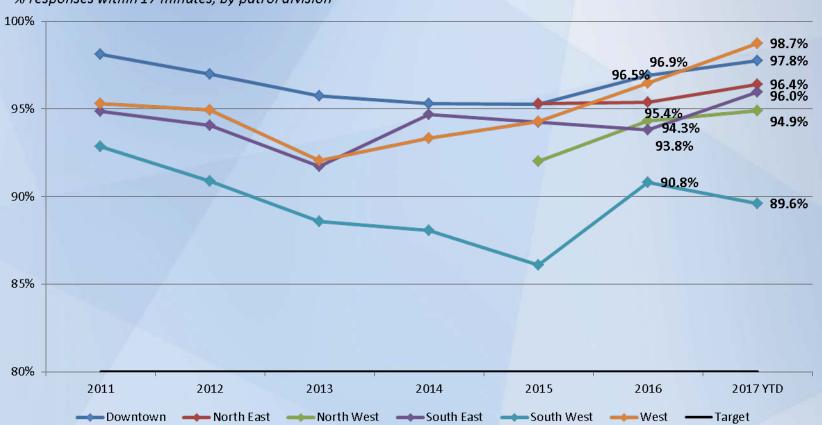






#### **P3 Response Time Performance**

% responses within 17 minutes, by patrol division

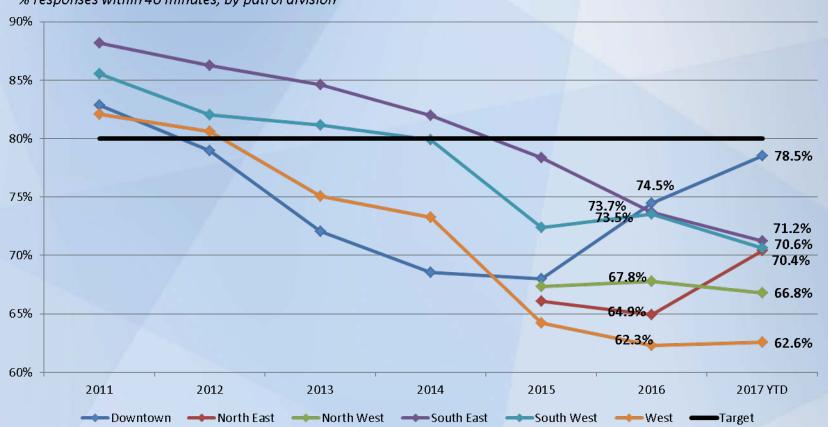




### **Response Time – Divisions**

#### **P4 Response Time Performance**

% responses within 40 minutes, by patrol division

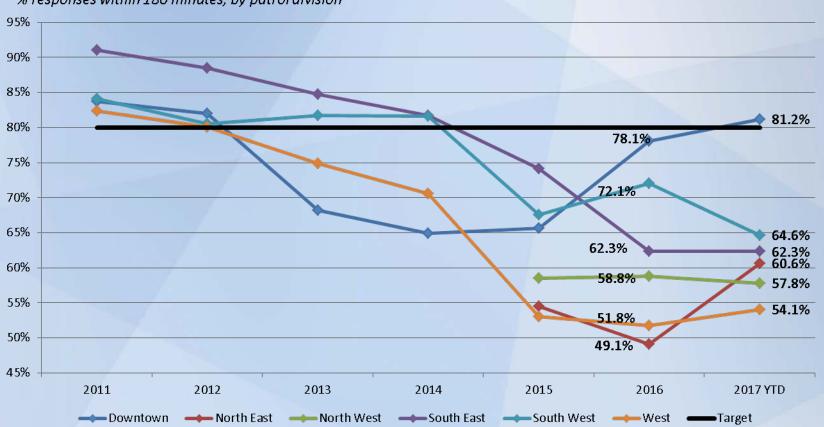




### **Response Time – Divisions**

#### **P5 Response Time Performance**

% responses within 180 minutes, by patrol division







Response Time Performance against target, 2017 YTD

	P1	P2	Р3	P4	<b>P5</b>
Downtown					
North East					
North West					
South East					
<b>South West</b>					
West					

*Green:* ≥ 80% Yellow: ≥ 70% Red: < 70%

## **EPS Action Items**



#### **Communication Strategy to Patrol:**

- Patrol focus on district policing and geographic deployment.
- Reduce self-dispatching. Response times can be affected when members selfdispatch and become out of position. Better to get clearance and direction from the watch commander.
- Driver Safety. Service Vehicle Collisions are up. Patrol members need to know its
  okay to slow down in order to get to calls safely.
- Time tracking. The importance of accurately tracking time and booking off on calls is being stressed to members.
- Org review of on-hold P5 calls.
- Enhancements at Old Scona station (SW) and Ottewell station (SE) will reduce patrol clustering at the divisional stations.

#### **EPS commitments following City Auditor recommendations on patrol staffing:**

- MPP methodology to be assessed/revised in Q1 2018. 4-year review cycles after.
- MPP model will be run in Q1 2018, and annually afterward.

# **Summary City-wide Stats**



EPS Response Time Performance and Dispatch		2009	2010	2011	2012	2013	2014	2015	2016	2016 Q2 YTD	2017 Q2 YTD
Priority 1	Performance	75.3%	80.6%	79.1%	77.0%	71.2%	71.3%	71.4%	70.9%	71.1%	71.7%
	# Calls	6,238	6,315	4,977	4,634	4,718	4,238	3,754	3,291	1,617	1,461
Priority 2	Performance	93.6%	95.1%	94.8%	96.2%	92.9%	92.9%	93.2%	94.7%	94.2%	94.6%
	# Calls	1,143	1,003	802	631	525	459	311	241	101	103
Priority 3	Performance	93.4%	95.7%	95.3%	94.1%	92.1%	92.8%	92.9%	94.6%	94.3%	95.5%
	# Calls	15,039	14,798	13,843	12,472	12,494	11,782	11,490	9,049	4,819	4,372
Priority 4	Performance	76.0%	80.8%	83.9%	80.6%	76.0%	73.2%	69.2%	69.4%	69.2%	70.3%
	# Calls	48,261	52,355	56,489	61,436	65,949	71,130	78,978	81,270	40,854	40,693
Priority 5	Performance	83.1%	85.1%	85.4%	82.7%	75.4%	72.2%	62.6%	62.6%	60.7%	63.8%
	# Calls	65,172	59,665	58,939	61,344	63,629	64,393	70,347	69,317	34,527	33,297
Total # Dispatched Calls		135,853	134,136	135,050	140,517	147,315	152,002	164,880	163,168	81,918	79,926

Source: Cognos R15-091, generated July 7, 2017



# **QUESTIONS?**