# Kansas Lity mont + Kunt Annual Report getting you there

2015

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"Diminished funding for transportation is driving the need to utilize performancebased measurements to deliver optimal results from existing ITS infrastructure and ensure that future expenditures are based on moving Scout forward in an age of rapid technological change."

Kandy Johnson

Randy Johnson, TMC Manager

When incidents happen in the Metro, motorists can count on Scout to be there.

### Serving the Metro

#### Scout focuses on getting Metro Kansas City drivers where they want to go smoothly and safely.

Launched in 2004, the Missouri and Kansas Departments of Transportation jointly run the program and partner with fire and police departments, local media—and you—to keep our roads safe and drivers on the move.

Scout is responsible for managing more than 300 miles of highway in the Kansas City Metro. We do it with sensors and video cameras from our Lee's Summit Transportation Management Center (TMC). When slowdowns, incidents, and severe weather occurs, our operators send alerts, contact Emergency Response Operators, and call emergency partners if needed. We also use our freeway message signs to describe the trouble on the highway.

Together, we strive to manage traffic in a way that:

- Improves emergency response to traffic situations.
- Lessens traffic jams by improving rush-hour speeds.
- Increases safety by decreasing the number of rush-hour incidents.

#### Scout Operations "At a Glance" (2015)

1

Number of benefits received for every dollar spent on Scout (8:1 Benefit/Cost ratio)	8 – pg. 32
Number of incidents managed by Scout	30,764 – pg. 2
Number of incidents managed by Scout with lane blockage	6,803 – pg. 5
Number of minutes on average that it takes to clear all lanes of traffic following incident	s <b>36 – pg. 6</b>
Number of incidents cleared in less than 30 minutes	3,850 – pg. 6
Number of incidents detected by Scout TMC Operators and Emergency Response	16,558 – pg. 8
Number of responses by Emergency Response (Missouri) and Motorist Assist (Kansas)	35,439 – pg. 22
Number of subscribers to "My KC SCOUT" personalized web alerts	6,912 – pg. 31
Number of visits to www.kcscout.net from new unique web visitors       3	389, 245 – pg. 31

#### Our 2015 Annual

Report summarizes the congestion and incident information that we have collected over the course of the year, along with data about the type of assistance provided to motorists, how our tools functioned, and the benefits of investing in the Scout program.

## **Incident Summary**

Scout monitors the Metro's freeways for traffic incidents as part of our Traffic Incident Management Program.

We define an incident as any event on the roadway which affects or can affect normal traffic flow. Examples include vehicle collisions, stalled vehicles on shoulders, debris in the roadway, and roadwork projects.



#### Total Incidents by Month (2015 vs 2014)

Sec ndary Incident The total number of secondary incidents increased 66.6% in 2015.

Number of Secondary Incidents	2014	3
(2015 vs 2014)	2015	5

Secondary incidents occur because of a previous and on-going incident on the roadway. They happen within the initial incident scene or within the back-up of the initial incident, even if it is in the opposite roadway direction. Scout's efficient Traffic Incident Management Program with Emergency Response Operators helps improve safety, provides better traffic control, and reduces the time needed to clear secondary, lane-blocking incidents.

# The total number of incidents on our highways increased by 9.5% in 2015 to 30,764.

3

In 2015 there were 30,764 incidents, which is a 9.5% increase when compared to the 28,088 that happened in 2014. The highest number of incidents in 2015 took place in June. An average of 84.3 incidents happened each day. Most of them occurred during the work week (Monday through Friday).



ercent of Total ncidents by ay of ee 2015 0.5%

> n a erage of 4.3 incidents each day

> > 13.1%

8.8

#### **Rush-Hour Incidents**

**34.2%** of all incidents occurred during the morning and afternoon rush hours.

There were a total of 9,511 rush-hour incidents in 2015, which is less than a 1% increase when compared to the 9,503 that occurred during the previous year. In 2015 lane-blocking incidents accounted for 39.1% of rush-hour incidents; 38.9% involved multiple vehicles.

#### Percentage of Rush-Hour Incidents by Type (2015)



#### **Rush-Hour Incident Summary (2015)**



#### Lane-Blocking Incidents

There were a total of 6,803 lane-blocking incidents in 2015. The total number of lane-blocking incidents in 2015, excluding those of less than 3 minutes, showed an increase of 18.0% over the 5,767 recorded in 2014. The highest number of lane-blocking incidents in 2015 happened in July. An average of 18.6 laneblocking incidents happened each day. Most occurred during the work week (Monday through Friday).

#### Lane-Blocking Incidents by Month (2015 vs 2014)



#### Percentage of Lane-Blocking Incidents by Day of Week (2015)



#### Lane-Blocking Incidents by Day of Week (2015 vs 2014)



#### Average Clearance

The average time to clear lanes for all lane-blocking incidents in 2015 was 36 minutes. The average time for all lanes to be cleared from an incident, excluding those of less than 3 minutes, is calculated from the incident start time until all lanes are reopened. The calculation is done the same way when sorting incident clearance by time of day.



#### Average Time (Minutes) to Clear Lanes by Month (2015 vs 2014)

#### Number of Incidents and Average Time to Clear Lanes by Time of Day (2015)



Mid-day (9:30 AM to 3:30 PM) experiences the highest percentage of lane-blocking incidents at 23.4% but also sees one of the quickest clearance times at 31 minutes.

Scout strives to clear incidents in less than 30 minutes.

2014

#### **Incident Severity**

Only 3.3% of incidents are categorized as Level 3, which means that the lane was blocked for more than 120 minutes. Scout sorts lane-blocking incidents by severity level based on lane blockage and duration. Incidents that lasted less than 3 minutes and construction are excluded.



#### Level 3 Incident Locations (2015)



#### Types of Incidents

55.0% of the incidents in 2015 were related to stalled vehicles.

There are various types of incidents that involved stalled vehicles, collisions, debris, construction, or something else.



#### **Detection Methods**

**Emergency Response** operators detected 35.1% With the help of a variety of tools, personnel and partnerships, Scout is able to detect incidents happening on the highway.



Emergency Response operators work together with other on-scene responders to detect incidents and make clearance happen quickly.

"I wanted to thank Louie. I had gotten a flat tire on Easter Sunday on I-435 North. I was on my way to my sitter's house to drop my kids off so that I could go to work. I had noticed I had a flat, so I pulled over. Less then five minutes of pulling over I saw headlights pull up. And it was a Emergency Response truck. Louie was literally a lifesaver and a God-send. I was a little distressed due to it being a holiday and having to work, and then getting a flat. I just wanted to say how THANKFUL I am that he had stopped to help me. If he wouldn't have stopped, I probably would have been stranded for a little while because my spare was low on air as well. He not only changed my tire, he also aired up my spare. Thank you so much Louie for helping me out. And THANK YOU KC Scout for your services. It is greatly appreciated. Have a wonderful day!"

Angeline Carmichael

Kansas City



# Multi-Vehicle Incidents

There were a total of 4,740 multi-vehicle incidents recorded in 2015.

The total number of multi-vehicle incidents in 2015 showed an increase of 34.5% when compared to the 3,525 that happened in 2014. Most happened in December.



#### Multi-Vehicle Incidents by Month (2015 vs 2014)

#### Percent of Multi-Vehicle Incidents by Day of Week (2015)



#### Total Multi-Vehicle Incidents by Day of Week (2014 vs 2015)





35.1% of multi-vehicle incidents can be categorized as Level 1, which means that the lane was blocked for less than 30 minutes.

Scout also sorts multi-vehicle incidents by severity level based on lane blockage and duration. Incidents that last less than 3 minutes and construction are excluded. On average, 59.2% of multi-vehicle incidents result in lane blockages while 19.6% of incidents involve 3 or more vehicles.

lane blocked <30min

Level 1

35.19

lane blocked 30-120min

Level 2

61.9

lane blocked >120min

2.9

Level 3

#### **Rush-Hour Incident** Summary (2015)

27.8%







6:30 - 9:30 AM 9:30AM - 3:30 PM 3:30 - 6:30 PM 6:30PM - 12:00 AM 12:00 - 6:30 AM

24 Hours

#### **Multi-Vehicle Incident Locations**

#### Incidents can happen along routes and at cross-streets.

To improve safety, Scout and partners manage multi-vehicle incidents on eight interstate routes: I-435, I-35, I-49, I-70, I-470, I-635, I-29, and I-670. Information about the incidents that happened along these routes during 2015 is organized by number of incidents and direction. The heat map shows the locations of multivehicle incidents in 2015 through a color progression that depicts the variances in the number of incidents per location. The color progression goes from green to red with green depicting the lowest number of incidents and red showing the highest rate of incidents for a given location.

#### Top Multi-Vehicle Incident Locations by Route (2015)





#### Top 25 Cross-Street Locations for Multi-Vehicle Incidents (2014)

River Bend Birmingham Kansas City Sugar Creek 435 😇 Kansas City 635 12 Independence 40 Roeland Park 435 Mission (40 Shawnee Raytown Zarah 350 **Overland** Park Leawood Craig 470 (291)

Liberty

#### **Top Multi-Vehicle Incident Routes**



I-35 had the highest number of multi-vehicle incidents with a total of 1054 in 2015 Southbound Incidents 519 Northbound Incidents 535

#### Cross-Street Locations with the Top Number of Multi-Vehicle Incidents

#### I-35 South

Past 67th St.		32
At 75th Street	22	
Past I-435	17	
Past 75th Street	17	
At Johnson Dr.	14	
Past Armour/210	12	
At 69 Hwy	12	
To 119th Street	12	
Past Lamar	11	
Before I-70	11	
Before 119th St	10	
Past Front St	10	
Past 152 Hwy	10	

#### I-35 North



49



#### **Rate of Incidents**

Lowest		Highes



I-435 had the second highest number of multivehicle incidents with a total of **916** in 2015

15

29

Westbound Incidents
187
Eastbound Incidents
190

Southbound Incidents 296 Northbound Incidents 243

#### Cross-Street Locations with the Top Number of Multi-Vehicle Incidents

#### I-435 West

I-435 South

Past I-70

Before I-70

At I-70

Before 210 Hwy



20

13

12

12

11

11

11

11

# I-435 East 16 Before I-49/I-470 15 At State Line Rd 12 Before State Line 11 Past K-10 11 Past Nall Ave. 9 Past Lackman Rd 8 At Wornall Rd 7

#### I-435 North





#### **Rate of Incidents**





I-70 had a total of **843** multi-vehicle incidents in 2015. Westbound Incidents 451 Eastbound Incidents 392



#### **Rate of Incidents**



Highest

#### Cross-Street Locations with the Top Number of Multi-Vehicle Incidents

#### I-70 West

At I-435				20
Before Blue Ridge C	utof	f	19	,
At I-470			17	
Past I-470			14	
Past Lee's Summit R	d		14	
To I-435 SB		12	2	
Before 40/Blue Ridge Cutoff		11		
Past 7 Hwy		11		
Before Little Blue Parkway	10	)		
At Blue Ridge Cutoff	10	)		

#### I-70 East





I-470 had a total of **317** multi-vehicle incidents in 2015. Westbound Incidents 153 Eastbound Incidents 164

#### Cross-Street Locations with the Top Number of Multi-Vehicle Incidents

I-470 West	I-470 East
At 50 Hwy 10	At View High 9
7 At I-49	7 Past Strother Rd
7 Past Blue Ridge	6 At I-70
6 Past Lakewood Blvd	6 Past Lakewood Blvd
6 Past Douglas	5 Past I-49
6 Past 50 Hwy	5 Past Woods Chapel
6 Past 40 Hwy	
6 Before Raytown Rd	
	Rate of Incidents
	Lowest Highest





#### I-49 had a total of **137** multi-vehicle incidents in 2015.

#### Cross-Street Locations with the Top Number of Multi-Vehicle Incidents



#### **Rate of Incidents**

Lowest Highest

Southbound Incidents 73 Northbound Incidents 64





#### I-635 had a total of **130** multi-vehicle incidents in 2015.

Southbound Incidents 60 Northbound Incidents 70



#### I-29 had a total of **196** multi-vehicle incidents in 2015.

Southbound Incidents 97 Northbound Incidents 99

#### **Rate of Incidents**





#### Cross-Street Locations with the Top Number of Multi-Vehicle Incidents

Highest





5 Before I-70



#### Cross-Street Locations with the Top Number of Multi-Vehicle Incidents



19



I-670 had a total of **97** multi-vehicle incidents in 2015. Westbound Incidents 37 Eastbound Incidents 60





 
 Past 71 Hwy
 12

 4
 Past Broadway



Past 7<sup>th</sup> St.

"I was helped today by Virak, and wanted to express how much I appreciated his help with my blown out tire on 435 South. My roadside assistance service that I had for 20 years told me they couldn't help me after 30 minutes on hold. So Virak showing up was about the same as winning the lottery -THANK YOU VERY MUCH!"

**Rate of Incidents** 

Lowest

Highest

Dan Laughlin

Kansas City

# Scout is Both Rural and L

Along with the KC Metro Area, Scout manages incidents that happen on Missouri's I-70, I-29 and I-35 rural corridors, as well as the Kansas I-70 corridor to the Colorado border. The map and data is shown for Missouri's I-70 Rural Corridor. Metrics similar to those presented here are not calculated for the other rural corridors due to a smaller set of data.

#### Lane-Blocking Incident Locations Along the I-70 Missouri Rural Corridor (2015)



There were a total of **325** lane-blocking incidents in the Missouri I-70 rural corridor during 2015 and the average clearance time was **78 minutes**.

There were 140 multivehicle incidents in the Missouri I-70 rural corridor during 2015 and the average clearance time was 80 minutes. Incidents along the I-70 Missouri Rural Corridor and Average Clearance Time (2015)



/lulti-Vehicle	Lane-Blocking

	325	78 min
Dec	23	68 min
Nov	24	57 min
Oct	32	112 min
Sept	27	89 min
Aug	28	64 min
Jul	47	88 min
Jun	40	58 min
May	36	47 min
Apr	23	78 min
Mar	16	63 min
Feb	24	85 min
Jan	8	123 min
	Incidents	Lanes
	of Lane Blocking	Time to
	Number	Average





Fulton

#### Types of Incidents

**43%** of the incidents along the Missouri I-70 rural corridor in 2015 were related to roadwork. There are various types of incidents that involved stalled vehicles, collisions, debris, construction, or something else.

(19)

Variento



#### The total number of responses increased by 5% from 33,74+ assists in 2014 to 35,439 in 2014.



Emergency Response and Motorist Assist operators proactively patrol the Metro in search of a wide variety of potential traffic disruptions. On the Missouri side, the Missouri Department of Transportation administers the ER program. In Kansas, the Kansas Highway Patrol, in conjunction with the Kansas Department of Transportation, administers the MA program. These operators also support law enforcement, emergency responders and other emergency agencies by providing traffic control and backup for incidents.

Their goals are to:

- Minimize major disruptions of traffic flow.
- Focus on the factors that create disruptions in the flow and remove them.
- Relieve congestion and maintain consistent traffic flow during an incident.
- Reduce clearance times for incidents.



Total

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#### How Emergency Response and Motorist Assist Helps

#### Types of Services

#### Operators provided traffic control for **26%** of responses in 2015.

In addition to the total number of responses, we have collected data on the type and duration of responses that operators have performed.

Number of	t						1		
Responses by Type and Month (2015)	Transport Motori	Check Motorist	Tire Assist	Fuel Dispensed	Mechanical	Push Procedure	Traffic Control	Debris Removed	Total
Jan	25	513	244	161	338	16	550	259	2106
Feb	32	589	297	202	446	26	875	254	2721
Mar	29	516	279	180	369	28	661	270	2332
Apr	32	565	296	164	390	22	557	443	2469
May	27	591	353	193	449	29	662	447	2751
Jun	34	639	360	189	465	30	639	522	2878
Jul	35	559	392	184	383	36	635	471	2695
Aug	39	499	384	213	350	29	583	362	2459
Sept	36	490	316	171	377	27	551	437	2405
Oct	14	465	281	193	248	23	583	299	2106
Nov	7	416	226	158	281	26	527	336	1977
Dec	21	398	261	150	268	24	631	234	1987
	331	6240	3689	2158	4364	316	7454	4334	28886

"I would like to thank Craig and Robbie for going above and beyond to help us. We were stranded on the side of the highway with a flat. We were on our way to a field trip at the Kansas City Zoo. These wonderful men helped us get to a tire shop, and we were able to make it to the zoo to be with our children. If not for them we would have missed it completely. Thank you Craig and Robbie, you saved the day for us!"

Stephanie

Kansas

## Mobility in the Metro

As the Metro grows, more and more vehicles use the freeway. Mobility, or the average time to travel a 10-mile segment of our freeway system, is an increasingly important factor.

Average 10-Mile Travel Time (Minutes) During Rush-Hours on Selected Freeway Sections



25

Scout collects data on mobility for rushhour peaks (7 A.M. and 5 P.M.). The measure uses the average travel time index values (Travel Index = Average Speed/ Free Flow Speed) to calculate the 10-mile travel times during the peaks on various freeway sections.

The travel time index is directly related to the average speed and represents the level of congestion by taking into consideration, not only the average speed, but also traffic volumes. The desired trend is to travel 10 miles per 10 minutes on a 60 mph freeway.

#### Kansas City's Top Ten Most Traveled Segments (2015)

#### Morning Rush Hour (AM) volume in millions

#1	WB I-470 from MO 291 to US 71			20.56
<b>#2</b>	NB I-35 from US 69 to I-635		16.24	
#3	WB I-435 From Stateline Road to I-35	16.6		
#4	SB I-35 from I-635 to 69 Hwy	14.93		
#5	EB I-435 from I-35 to Stateline Rd	4.42		
<b>#6</b>	WB I-70 from I-470 to I-435 13.	9		
# <b>7</b>	NB I-35 from I-635 to MO/KS Stateline 12.	17		
#8	SB I-470 from I-70 to MO 291 11.97			
# <b>9</b>	NB 1435 from 1-70 to MO River 11.72			
<b>#10</b>	WB I435 from US 71 to Stateline Rd 11.34			

#### Evening Rush Hour (PM) volume in millions

#1	EB I-470 from US 71 to MO 291		20.80
# <b>2</b>	WB I-435 from Stateline Road to I-35		16.18
#3	SB I-35 from I-635 to US 69	15.	92
#4	NB I-35 from US 69 to I-635	15.1	I
#5	EB I-435 from I-35 to Stateline Road	14.40	
#6	NB I-470 from MO 291 to I-70	13.93	
# <b>7</b>	NB I-435 from I-70 to the MO River	13.76	
#8	WB I-70 from I-435 to I-35	13.69	
# <b>9</b>	WB1470 from MO 291 to US 71	13.31	
<b>#10</b>	SB I-435 from MO River to I-70	13.12	

#### **Congestion Management**

#### Compared to 2014, the Metro's highways experienced an overall volume increase of 0% in 2015.

There was little to no change in all three congestion indicies during the morning peak. During the evening peak, all three indicies experience slight increases from 2014. In addition 12% of Kansas City highways experienced heavy congestion during the course of 2015, which is a 3% increase from 2014. **Travel Time Index (TTI)** is the extra time spent in traffic during peak traffic times as compared to light or free flow traffic times.

**Buffer Time Index (BTI)** is the extra time a motorist must add to their average travel time to ensure on time arrival during peak periods. It is measured by percent.

**Planning Time Index (PTI)** is the total time a motorist needs to ensure on time arrival during peak periods.

#### Congestion Snapshot (2015)



"On the way out of town I passed a work-zone and had a nail blow my tire. It was during rush hour and it was very scary, but I was able to get over to the side of the road. That was when Timothy from MoDOT stopped to help. I was barely off the road and he parked so that I was protected from the traffic. Timothy helped me is so many ways! It was New Years Eve at 5:00 and almost all tire places in town had closed. Timothy called around, helped me work with AAA, and helped me stay calm while trying to get home to Indiana on a very busy night. I would like to thank him and let you know what a wonderful man you have working on your team! I don't know what I would have done without him stopping to help!"

Cari Cawthon

#### Indiana

2.50 min

#### Congestion on Kansas City's Highways in Minutes (2015)



#### Top Three Traveled Segments for Each Index (2015)

. . . . .

Morning Rush Hour (AM)					
тті	#1	WB I-670 from I-70 to I-35	1.80 min		
	#2	WB I-435 from US 71 to Stateline Road	1.70 min		
	#3	EB I-670 from I-35 to I-70	1.47 min		
ΡΤΙ	#1	WB I-435 from US 71 to Stateline Road	4.14 min		
	#2	SB I-35 from I-635 to 69 Hwy	2.84 min		
	#3	NB I-35 from I-435 to 69 Hwy	2.69 min		
BTI	#1	NB I-35 from I-435 to 69 Hwy	143.6%		
	#2	SB I-35 from I-635 to 69 Hwy	91.24%		
	#3	NB I-35 from I-435 to US 69	85.56%		

#### Evening Rush Hour (PM) EB I-670 from I-35 to I-70 SB I-35 from I-70 to I-670 SB I-35 from US 69 to I-435

	2.J- mm
SB I-35 from US 69 to I-435	2.02 min
SB I-35 from I-70 to I-670	3.95 min
EB I-670 from I-35 to I-70	3.70 min
ER I 425 from I 25 to Stateline Dd	2 27 .
LD 1-45) from 1-5) to statemie Ku	$\mathcal{J}.\mathcal{L}/\min$
EB I-435 from I-35 to Stateline Rd	94.83%
EB I-435 from I-35 to Stateline Rd NB I-35 from I-635 to MO/KS Stateline	3.2/min           94.83%           84.95%

## **ITS Infrastructure**

Scout manages the Metro's 300 mile highway system with technical equipment including cameras, message signs, and freeway detectors. The percentage of equipment that is working properly in the field each month is known as "equipment uptime". Message signs, in particular, are essential to providing real-time travel and incident information. Motorists use them to make informed decisions about their travel routes.

	Cameras	Message Signs	Freeway Detectors
Jan	100%	100%	83%
Feb	99%	99%	86%
Mar	100%	100%	84%
Apr	99%	99%	83%
May	99%	100%	83%
Jun	99%	100%	83%
Jul	99%	100%	83%
Aug	99%	99%	81%
Sept	99%	99%	88%
Oct	99%	99%	89%
Nov	99%	99%	80%
Dec	<b>990</b> %	100%	72%
Average	<b>99</b> %	<b>99</b> %	83%

#### Percent of Properly Working Equipment (2015)

THANK YOU VERY MUCH!!! Sometimes we feel like we are living below an air traffic super-highway near 69 highway and I-435 with all the helicopters buzzing around overhead. Tonight's been another time of wondering what's going on and feeling clueless. We went to your web site and then Twitter account and feel fairly sure it had to do with an incident. We can stop wondering and quickly turn to your site first for a possible explanation in very current time. Thank you all for an exceptional resource for current information.

Richards Family

Kansas



Traffic Incident Management provides quicker response and clearance times.



Message Signs provide travel times, incident, safety and traffic information for drivers.



D de th sle

"Ramp meters really help people get on the highway. I'm from California and they are everywhere. I'm glad they are on 435 and continue to utilize them."

00. H TO. H

John Leawood

Scout's ITS Tool Bench

The Kansas and Missouri Departments of Transportation jointly operate Scout, using a variety of key tools to accomplish the task. These tools include traffic incident management, ramp meters, cameras, message signs, and freeway detectors.

#### **Ramp Meters**

located at on-ramps to maximize the flow of traffic on interstates.



Detectors detect vehicles that are moving, slowed, or stopped on the highway.







Cameras

monitor traffic,

incidents and

work zones.



#### **Message Signs:**

Freeway message signs describe trouble ahead, such as blocked lanes, work zones, incidents, and severe weather (floods, ice, snow, or tornadoes).

> 1—435 DOUNTOUN



10 16

#### Website and My KC Scout:

Visit kcscout.net for a real-time traffic map, current travel speeds, and road closures. To receive alerts about traffic, weather, child abductions (AMBER Alerts), poor air quality, and/or homeland security via email, text message, or your company task bar, select "My KC Scout" to set your preferences.

2

ower & Light

IAS PROVIDE EXTR

SCOUT CAME

30

#### 3

31

#### Media:

Scout provides live video of the freeway to major news channels and to a local cable company. Media partners also display actual vehicle speeds during slowdowns.

#### Where to Find Scout Alerts





#### Scout App and Social Media:

Download the free Scout Kansas City Traffic app for Apple and Android. Follow Scout on Twitter at twitter.com/ kansascityscout. And find us on Facebook at www.facebook.com/ KansasCityScout





## Scout Benefits

#### The Scout program offers a very high overall cost to benefit ratio: for every \$1 spent, it provides approximately \$8 in benefits.

Inadequate funding and, in some cases, inadequate room to widen roadways have made new construction and lane additions an increasingly difficult solution. Providing a safe and efficient system for freeway travel is important, so the Kansas City Metro uses Scout's technology and traffic management system.

Traffic Incident Management is a major focus of the system and has resulted in reduced incident periods and overall increased coordination at the scene of the incident. Emergency Response also helps with achieving quicker clearance. The benefits equate to reduced travel times and congestion, lower crash rates, savings in fuel and other operation costs, and cleaner air from reduced carbon emissions.

#### Transportation Management Center

#### Scout provides you with real-time, up-to-the-minute, traffic and roadwork information.

To request a tour of the Scout TMC (Transportation Management Center) go to kcscout.net. Select "Scout Services", then "Schedule a Tour", and fill out the form.

"Thank you so much for the tour you gave the IEEE group a few months ago. You and your staff were awesome...it's so cool to see people who are so enthused and dedicated!"

Rob Stitt

Kansas City





Costs

Annual O & M

Costs to operate and maintain

Annualized

Annualized Capital Includes initial capital investment and replacement costs

Investment in Scout technology, incident management, and Emergency Response translates to annual benefits that greatly outweigh the annual costs to build and maintain the program.





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