

GETTING THE MOST OUT OF YOUR ATMS DATA

Brian D. Van De Walle, PE PTOE City of Austin



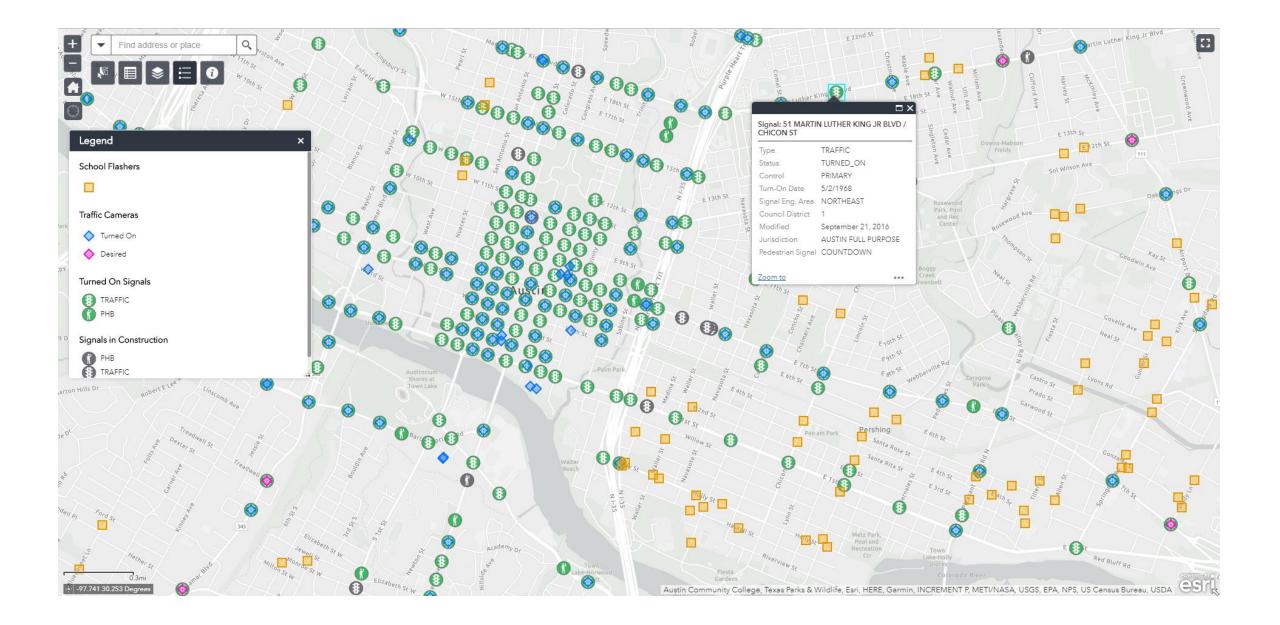
Image Source: S. Congress Facebook

City of Austin ATMS Overview

- 1,024 Traffic Signals
- 78 Pedestrian Hybrid Beacons
- 571 School Zone Flashers
- 526 CCTV Cameras
- 20 DMS Signs
- 874 Signals on Fiber / Cell Modem
- KITS
- Nextphase / D4

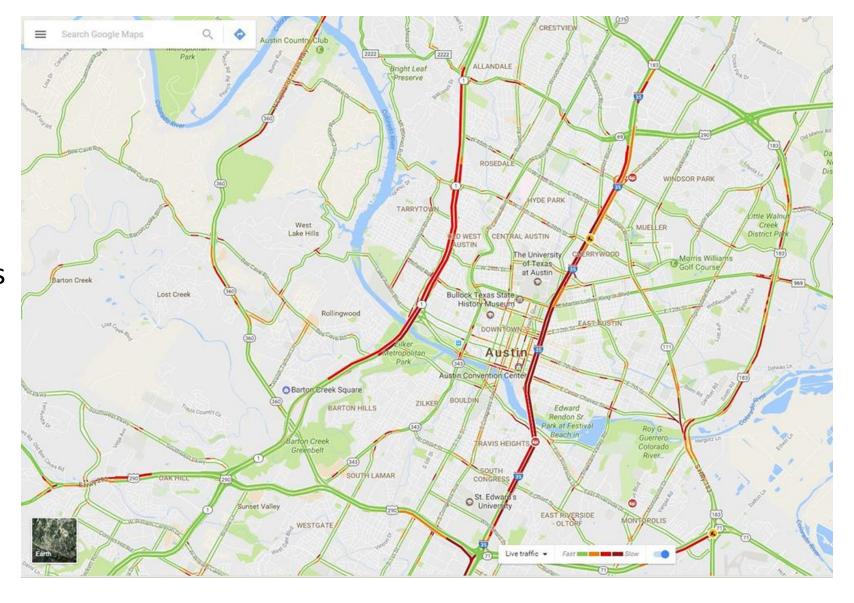






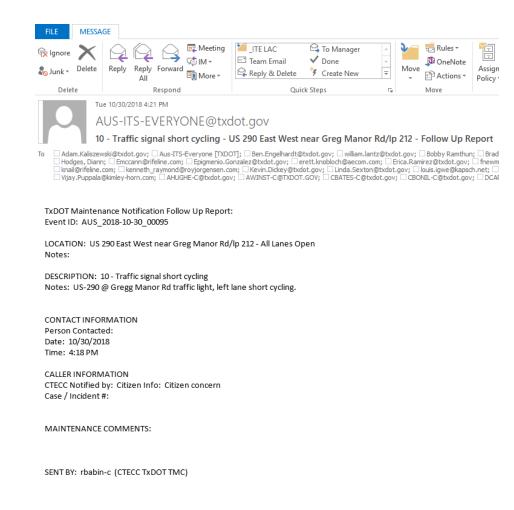
Data Streams

- Traditional
 - 4,252 Intersection Detectors
 - 119 Bluetooth Sensors
 - 20 Radar Detectors
- Outside Data
 - Bus Rapid Transit
 - Google / Waze
 - Inrix
 - Inter / Intra Agency Notifications
 - Multi Modal



Inter / Intra Agency Notifications

- 311 Calls
- Cap Metro
 TSP Requests
- Emails
 - 311
 - LaneClosures
 - CTECC
 - Mobility 35
 - MoPac



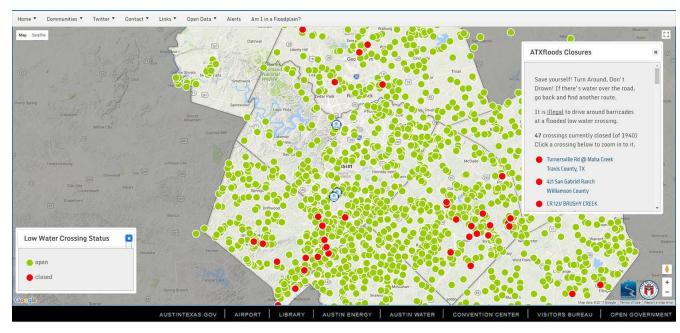
Multi Media

- Fire / EMS
- Energy Providers
- ATX Floods
- Austin-Travis County Traffic
- Twitter Feeds



75% of flood deaths in TX happen on the road. Turn Around, Don't Drown! \mid 08-25-2017 7:10:15 PM









Austin-Travis County Traffic Report Page

This page provides information on active traffic related incidents reported to the Austin Police, Aviation Police, and Travis County Sheriff. Information is updated every 5 minutes.

This link is to the TrafficViewer, a web mapping application that plots out the traffic calls above. Traffic Incident Severity is based on the CAD call and may change from initial call to close out.

Last Extract Date: 07/21/2017 10:42 AM

DATE TIME DESCRIPTION ADDRESS		ADDRESS	CROSS STREET	AGENCY	
1 4		1 B		n u	11 11
Jul 21, 2017	09:29 AM	Crash Urgent	0 W Sh 71 / W Us 290 Hwy Wb		AUSTIN PD
Jul 21, 2017	10:13 AM	Traffic Impediment	2300-2306 Del Curto Rd	IVA LN/DELCREST DR	AUSTIN PD
Jul 21, 2017	10:21 AM	Traffic Impediment	809 S Lamar Blvd	JULIET ST/TREADWELL ST	AUSTIN PD
Jul 21, 2017	10:24 AM	Crash Urgent	9500 Research Blvd Sb	RESEARCH SB TO MOPAC RAMP/RESEARCH SB TO CAP TX RAMP	AUSTIN PD
Jul 21, 2017	10:32 AM	Crash Urgent	12800 N Us 183 Hwy Sb	N 183 HWY SB TO OAK KNOLL RAMP/OCEANAIRE TO N US 183 SB RAMP	AUSTIN PD
Jul 21, 2017	10:37 AM	Crash Urgent	3600 E Martin Luther King Jr Blvd	E M FRANKLIN AVE/DELONEY ST	AUSTIN PD
Jul 21, 2017	10:40 AM	Crash Service	6204 S 1st St	BLUEBERRY HILL/EBERHART LN	AUSTIN PD
Jul 21, 2017	10:41 AM	Crash Urgent	9700 N Capital Of Texas Hwy Sb	N CAPITAL OF TEXAS HWY/STONELAKE BLVD	AUSTIN PD



Osborne, Robin / Traffic Signals-T / csrp / Logout

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DIRECTORY

RESOURCES

REPORTS MAP VIEWER

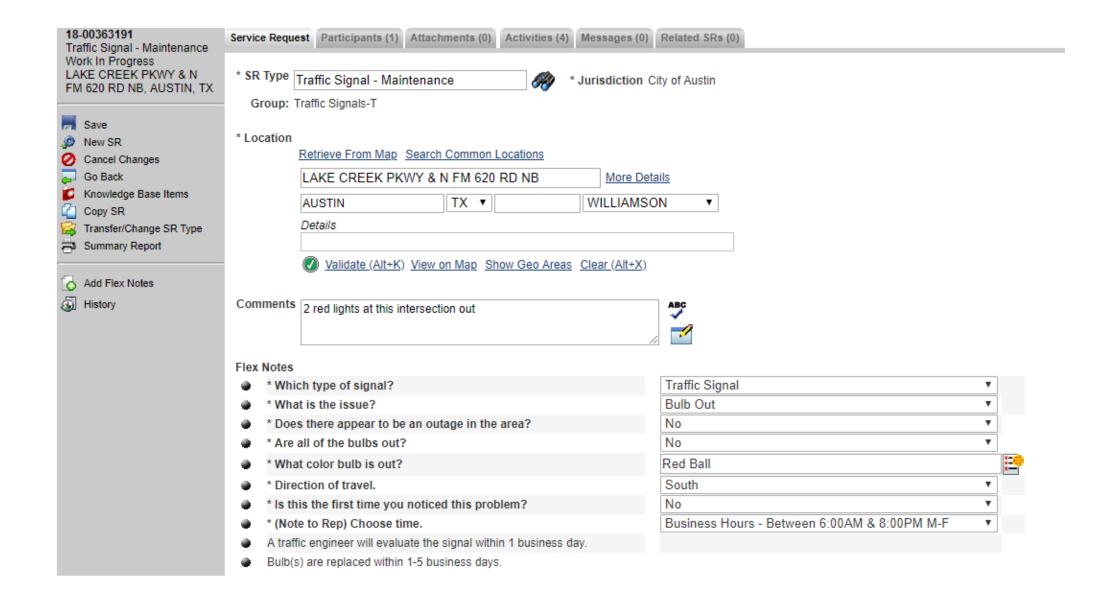
Service Request Search > Service Request Search Results

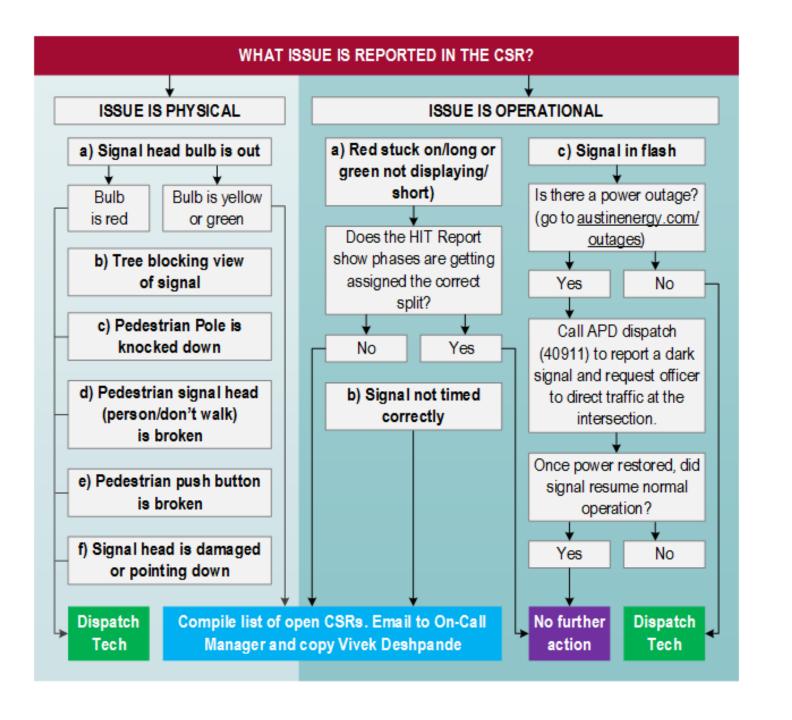
Service Request Search Results

▼ Go Actions Please select...

Go | 4 | 4 1 - 50 of 2 ▶ 1▶ Page 1 of 2. Go to page

SR Number ▼	SR Type	Location	Status	Created Date	Assignment Area/Value	Priority	Created By
17-00059486	Trafic Signal - Maintenance	MONTOPOLIS DR & E RIVERSIDE DR, AUSTIN, TX 78741	Closed	Mar 09, 2017		Standard	Norton, Keeley
17-00059464	School Zone Flasher - Timing/Maintenance	3505 GOVALLE AVE, AUSTIN, TX 78702	Closed	Mar 09, 2017		Standard	Polk, Tanneisha
17-00059440	Traffic Signal - Maintenance	BRAZOS ST & E CESAR CHAVEZ ST, AUSTIN, TX 78701	Work In Progress	Mar 09, 2017		Urgent	Saleem, Shahzad
17-00059434	Traffic Signal - Dig Tess Request	404 W 13TH ST, AUSTIN, TX 78701	Closed	Mar 09, 2017		Standard	Armstrong, Britain
17-00059433	Traffic Signal - Maintenance	E 5TH ST & NECHES ST, AUSTIN, TX 78701	Closed	Mar 09, 2017		Standard	Hyson, Cynthia
17-00059397	Traffic Signal - Maintenance	ESCARPMENT BLVD & SH 45 EB, AUSTIN, TX 78739	Work In Progress	Mar 09, 2017		Standard	Prichard, Josh
17-00059395	Traffic Signal - Maintenance	E DEAN KEETON ST & RED RIVER ST, AUSTIN, TX	Open	Mar 09, 2017		Standard	Armstrong, Britain
17-00059307	Trafic Signal - Maintenance	WESTLAKE DR & N CAPITAL OF TEXAS HWY SB, AUSTIN, TX 78746	Closed	Mar 09, 2017		Standard	Hyson, Cynthia
17-00059251	Traffic Signal - Dig Tess Request	6310 E BEN WHITE BLVD SVRD EB, AUSTIN, TX 78744	Closed	Mar 09, 2017		Standard	Benson, Reginald
17-00059190	Traffic Signal - Maintenance	LAKELINE BLVD & W PARMER LN, AUSTIN, TX 78717	Work In Progress	Mar 09, 2017		Standard	Terrance, Tyrese
17-00059174	Traffic Signal - Maintenance	LOYOLA LN & ED BLUESTEIN BLVD NB, AUSTIN, TX 78724	Closed	Mar 09, 2017		Standard	Cooper, Christopher
17-00059017	Trafic Signal - Maintenance	W BRAKER LN & N MOPAC EXPY SVRD NB, AUSTIN, TX 78759	Closed	Mar 09, 2017		Standard	Foley, Nataucia
17-00058853	Traffic Signal - Maintenance	LAKELINE BLVD & N US 183 HWY SVRD SB, AUSTIN, TX 78717	Duplicate (closed)	Mar 08, 2017		Urgent	Jenkins, Jamie
17-00058850	Traffic Signal - Maintenance	LAKELINE BLVD & N US 183 HWY SVRD SB, AUSTIN, TX 78717	Duplicate (closed)	Mar 08, 2017		Urgent	Armstrong, Britain
17-00058848	Traffic Signal - Maintenance	LAKELINE BLVD & N US 183 HWY SVRD SB, LEANDER, TX 78641	Duplicate (closed)	Mar 08, 2017		Urgent	Green, Neosila
17-00058847	Traffic Signal - Maintenance	LAKELINE BLVD & N US 183 HWY SVRD SB, AUSTIN, TX 78759	Duplicate (closed)	Mar 08, 2017		Urgent	Wright, Christy
17-00058840	Traffic Signal - Maintenance	LAKELINE BLVD & N US 183 HWY SVRD SB, AUSTIN, TX 78717	Closed	Mar 08, 2017		Urgent	Streeter, Erica
17-00058838	Traffic Signal - Maintenance	LAKELINE MALL DR & N US 183 HWY SVRD NB, AUSTIN, TX 78717	Work In Progress	Mar 08, 2017		Urgent	Beavers, Shydell
17-00058822	Traffic Signal - Maintenance	WEST GATE BLVD & W WILLIAM CANNON DR, AUSTIN, TX 78745	Closed	Mar 08, 2017		Standard	Cruz-Aguilar, Carole
17-00058685	Traffic Signal - Maintenance	100 E BEN WHITE BLVD EB, AUSTIN, TX 78745	Closed	Mar 08, 2017		Standard	Walsh, Andrea
17-00058611	Traffic Signal - Maintenance	CAMERON RD & E US 290 HWY SVRD EB, AUSTIN, TX 78723	Closed	Mar 08, 2017		Standard	Guajardo, Jade
17-00058378	Traffic Signal - Maintenance	CAMERON RD & E 290 SVRD EB TO CAMERON RAMP, AUSTIN, TX 78723	Work In Progress	Mar 08, 2017		Standard	Martinez, Samuel
17-00058244	Traffic Signal - Maintenance	DUVAL RD & RESEARCH BLVD SVRD NB, AUSTIN, TX 78759	Closed	Mar 08, 2017		Standard	Cassity, Johnnie
17-00058207	Traffic Signal - New/Change	8565 W US 290 HWY, AUSTIN, 78736	Open	Mar 08, 2017		Standard	Guajardo, Jade
17-00057982	Trafic Signal - Maintenance	E CESAR CHAVEZ ST & N PLEASANT VALLEY RD, AUSTIN, 78702	Closed	Mar 07, 2017		Standard	Kasenter, Carolyn
17-00057958	Traffic Signal - Maintenance	POND SPRINGS RD & ANDERSON MILL RD, AUSTIN, TX	Work In	Mar 07, 2017		Standard	Hinkle Darin I





Details

Status	In Progress	TMC Is
Requested Address	ESCARPMENT BLVD & W SLAUGHTER LN, AUSTIN, TX	311 SF
Source	311	Create
Issue Type	Traffic Signal - Maintenance	Reques
Type of Signal	Traffic Signal	Reques
Issue Description	States that this problem occurred as of 10/15/2018	Reques
Signal	681: ESCARPMENT BLVD / SLAUGHTER LN	Reques
Engineer Area	SOUTHWEST	Reques

TMC18-086165
18-00350930
10/16/2018 11:31
Citizen
Phone

Not All CSRs Are Created Equal

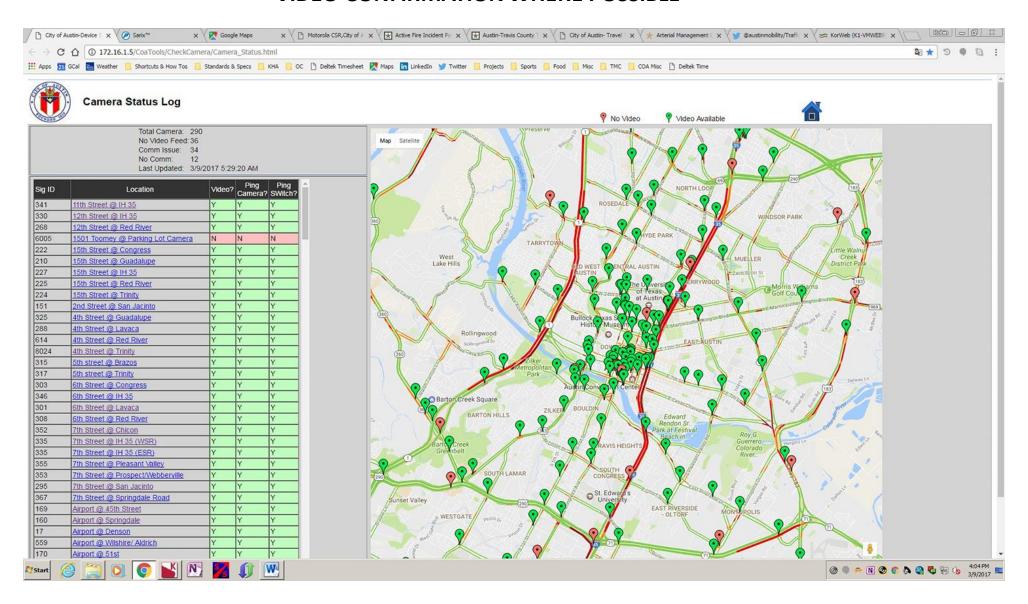
Details

CENTRAL

Status	In Progress
Requested Address	GUADALUPE ST & W 45TH ST, AUSTIN, TX
Source	311
Issue Type	Traffic Signal - New/Change
Issue Description	Hello, The traffic light at the intersection of Gaudeloupe & 45th street for southbound Gaudeloupe traffic turning left is extremely hazardous and misleading - while the southbound straight-through traffic shows two red arrows, the light above the left turn lane shows a full ROUND green light, implying it is safe to turn left. This is absolutely incorrect, as the oncoming traffic still has right of way. This ROUND green lamp should be replaced with an AMBER FLASHING LEFT ARROW lamp, this would give the motorist the true indication that they can turn left only by YIELDING to oncoming traffic. Please review and correct this light. Thank you.
Signal	50: GUADALUPE ST / 45TH ST

TMC Issue ID	TMC18-086655
311 SR Number	18-00353371
Created Date	10/17/2018 21:16
Requestor	Citizen
Request Method	Phone
Requestor Name	
Requestor Email	

VIDEO CONFIRMATION WHERE POSSIBLE



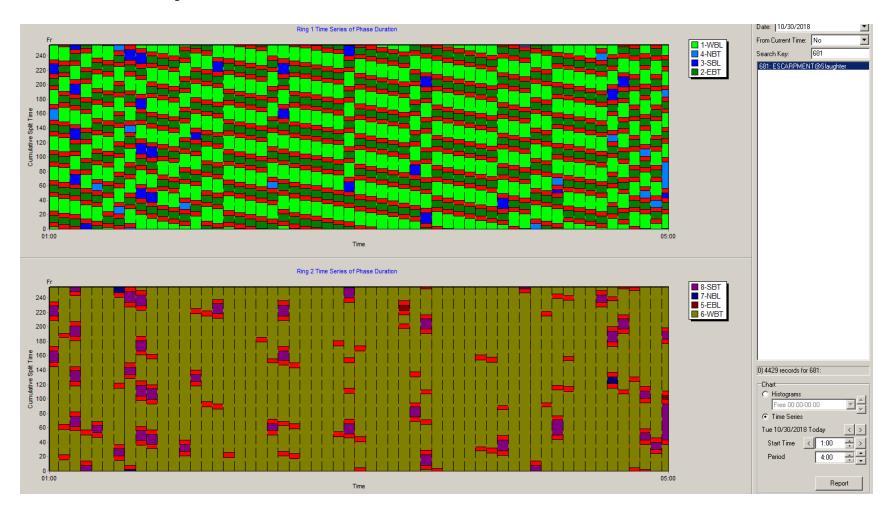
Tools

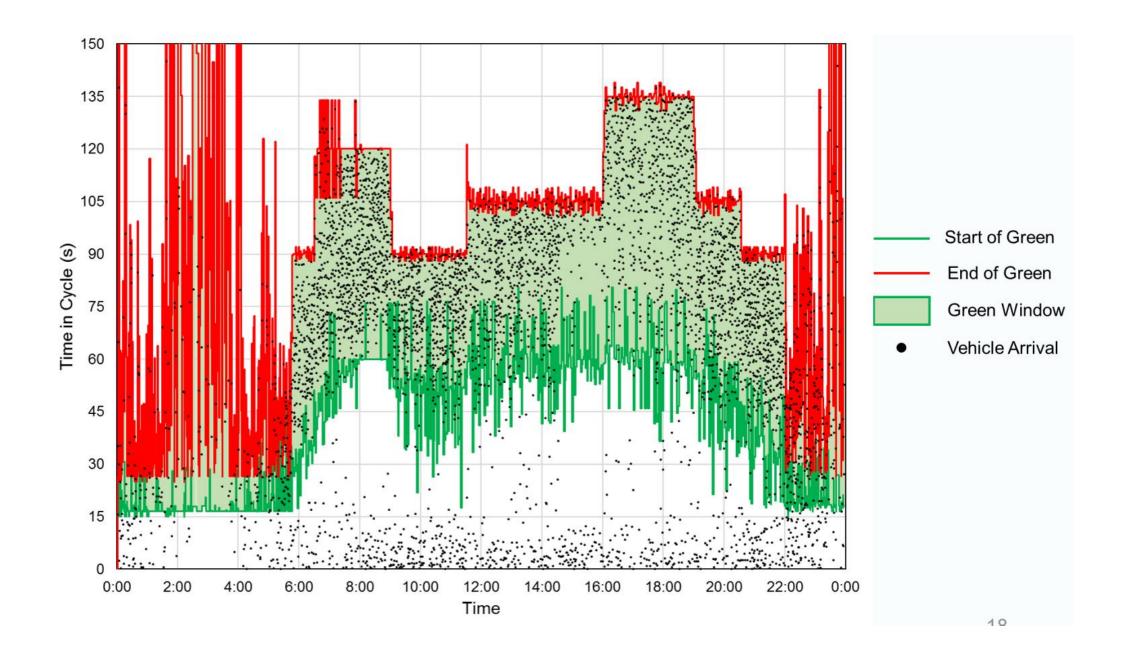
- Maxout Report 1:00-4:00 AM
- HIT Reports Real Time and Historical
 - Used to confirm Maxout Report
- Purdue Diagrams
- INRIX

HIT Reports



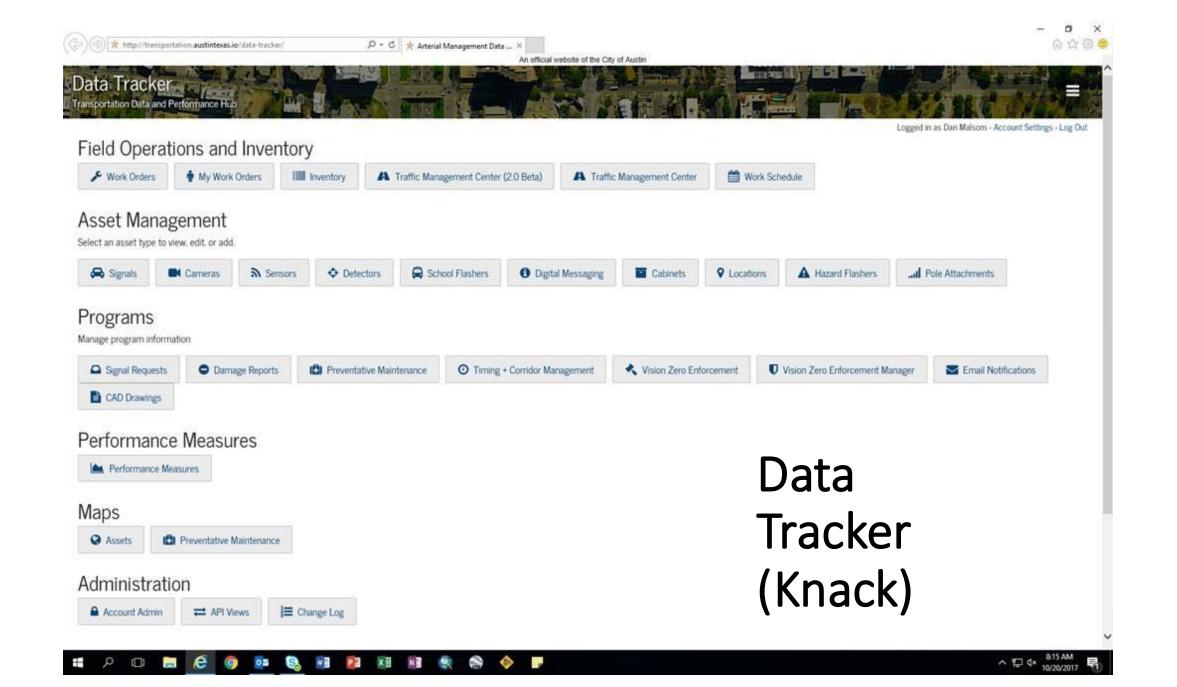
HIT Reports

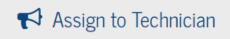




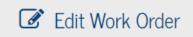
Benefits of Automated Data Analysis

- Maintenance Quicker Device Failures / Repairs
- Signal Timing
 - Max Outs
 - Vehicles Left At Stop Bar After Detector Gap Our
 - Phases That Never Max Out
 - Automated Alerts Power Outages, Conflict Flash, Lost Communication
 - Incident Management
- Data Visualization Arrivals on Green, Amber, and Red





Description







Problem Reported	LED Our
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Lead Tech	Gene Podhajsky
Asset Type	Signal
Signal ID	618

Created By	Chris Reyes
Created Date	10/25/2018 9:43am

Status Assigned

Issue #	TMC18-087930 /	SR18-00363191
10000 11	1111020 007 000 7	01/12/0 00/00/13

ID	WRK18-034350

Reported By

311

Checked All Peds, Colors, Buttons, Detection, Program No

2 red lights at this intersection out

Follow-Up Needed

No

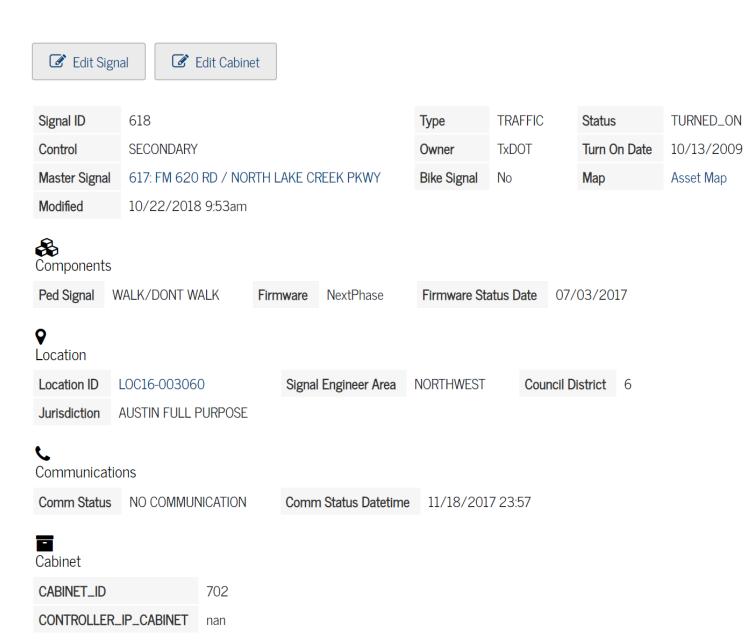
Signal Details



618: FM 620 RD / LAKE CREEK PKWY



View on Google Maps



A Service Requests

<u>export</u>

Details	Issue ID	Issue	Issue Reported	Details	Source	\$ Created	Updated	Status
	TMC18- 087930	Traffic Signal - Maintenance	Bulb Out	2 red lights at this intersection out	311	10/25/2018 09:25	10/25/2018 09:43	In Progress
	TMC18- 086835	Traffic Signal - Maintenance	Bulb Out	southbound from lakeline mall area, the lake creek signal for going straight is out	311	10/18/2018 16:28	10/22/2018 09:53	Closed (Resolved)
	TMC18- 079445	Traffic Signal - Maintenance	Timing	I would like to request someone look into the timing of this light between red and green. When waiting to turn onto 620 from Lake Creek Parkway, the timing of the light between when it goes red on 620 to green on Lake Creek is less than one second! This is extremely dangerous given drivers on 620 are going 50-60 MPH and frequently run the red light at this intersection. There needs to be at least a 3-4 second delayjust like there is at the 620 Boulder Lane intersection. I don't have to remind you that there are two schools on Lake Creek with student drivers frequently at this intersection. I drive this everyday and see so many close calls. Please fix this before there is a tragedy.	311	09/10/2018 19:31	09/10/2018 19:57	Closed (Resolved)
	TMC18- 077075	Traffic Signal - Maintenance	Timing	Right turn signal doesn't cycle through. Light is stuck on red.	311	08/28/2018 16:43	08/28/2018 16:55	Closed (Resolved)



<u>export</u>

Details	Status	Work Type (Trouble Call)	Problem Found	Action Taken	Lead		ID
	Assigned	LED Out			Gene Podhajsky	10/25/2018 9:43am	WRK18-034350
	Closed	LED Out	None.	Drove through all intersections in area reported and did not see anything w view more	Jorge Gonzalez	10/18/2018 4:30pm	WRK18-033980

10 per page ▼

10 per page ▼

Only Visit The Intersection Once!

- Work Order Issued for Red Bulbs Out
- Crew Responds
- Before Work Order is Completed:
 - 1. Work Order Repairs Completed
 - 2. Lead Signal Tech Checks Detection
 - 3. Other Signal Techs Perform Preventative Maintenance
 - 4. Inventory Items Used Are Entered
- Work Ticket Can't Be Submitted for Closeout Until All Four Steps Are Complete

Performance Metrics in Data Tracker

- # of Signals Retimed
- Travel Time Savings
- # of Signals PM'd
- # of Signals with detection repaired

Performance Measures

Arterial Management CPO Bicycle Infrastructure Inspection and Review Parking Enforcement Signs and Markings Support Services Trans. Engineering Trans. Project Development All Divisions

search by keyword

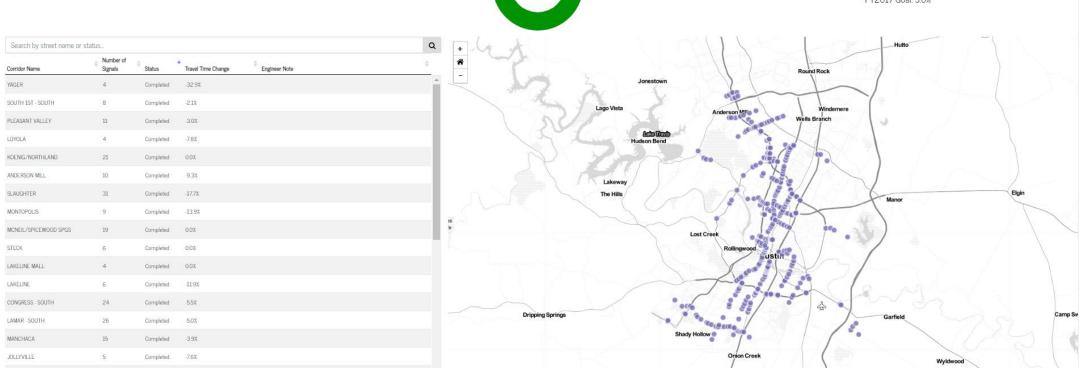
search

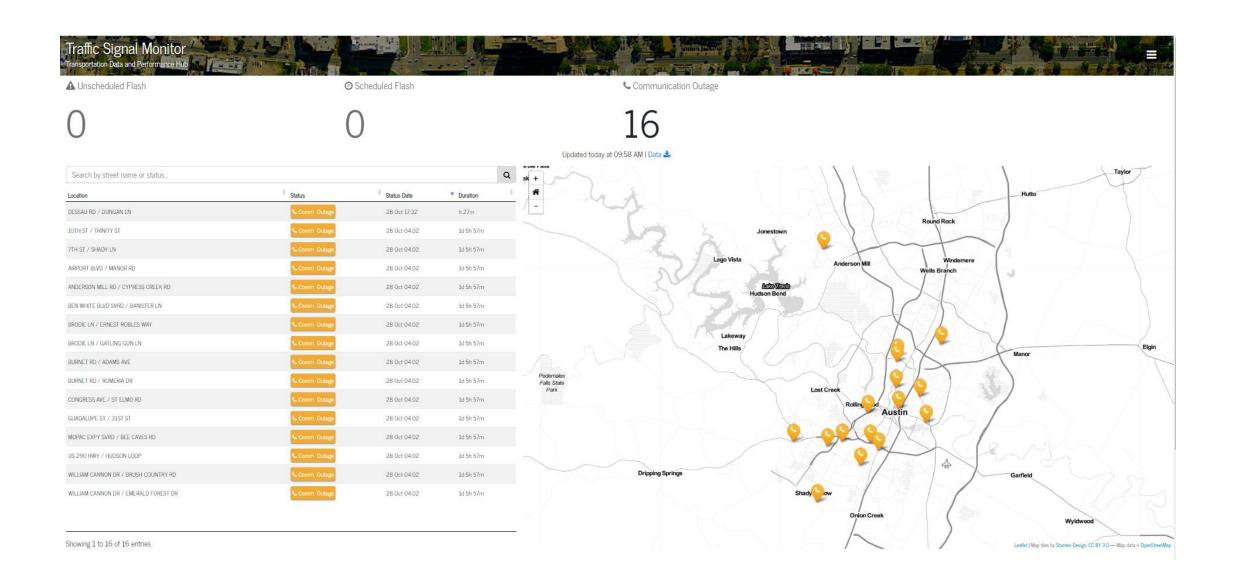
Showing 1-11 of 11 export

25 per page ▼

Details	FY	Measure	ID	Division	Frequency	Status		YTD	Estimated Year-End	Goal
	2018	Percent of signals retimed	8414	Arterial Management	Annually	IN PROGRESS	10/19/2018	34.90	34.90	33
	2018	Percent reduction in estimated vehicular travel time in corridors and intersections studied	3212	Arterial Management	Annually	IN PROGRESS	10/18/2018	2.10	2.10	5
	2018	Percent of signals with working detection	8413	Arterial Management	Annually	IN PROGRESS	10/18/2018	75.00	75.00	95
	2018	Percent of communication reliability to signals	8418	Arterial Management	Annually	IN PROGRESS	10/18/2018	98.00	98.00	95
	2018	Percent of school zone indicator signals that received preventive maintenance	8417	Arterial Management	Annually	IN PROGRESS	10/18/2018	49.00	49.00	33
	2018	Percent of traffic signals that received preventive maintenance	8416	Arterial Management	Annually	IN PROGRESS	10/18/2018	57.10	57.10	50
	2018	Number of traffic signals installed	7547	Arterial Management	Annually	IN PROGRESS	10/18/2018	8.00	8.00	6
	2018	Number of pedestrian beacons installed	7548	Arterial Management	Annually	IN PROGRESS	10/18/2018	12.00	12.00	6
	2018	Percent of signal requests completed on time	7575	Arterial Management	Quarterly	IN PROGRESS	10/18/2018	94.00	94.00	90
	2018	Percent of residents "satisfied" or "very satisfied" with signal timing on major streets	7659	Arterial Management	Annually	NEW	11/30/2017			42
	2018	Percent of residents "satisfied" or "very satisfied" with traffic flow on major streets	7655	Arterial Management	Annually	NEW	11/30/2017			20



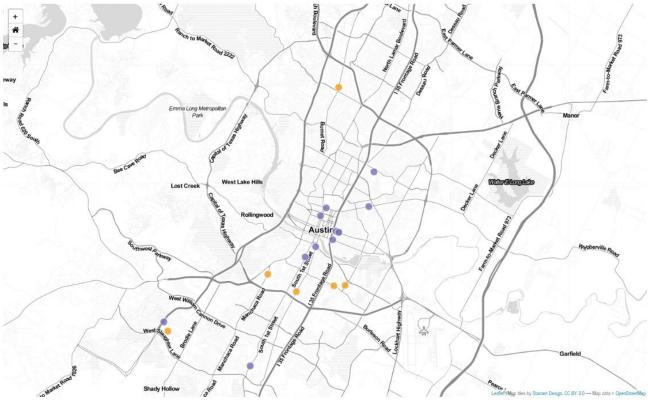




Signal Projects

ransportation Data and Performance Hu

			🚗 Turned On
Search by street name or status			
Location	Туре	⊕ Status	Note
DLTORF ST / BURTON DR	PHB	∠ CONSTRUCTION	Working with adjacent property owner.
BURNET RD / ASHDALE OR	PHB	∠ CONSTRUCTION	Waiting for striping and signs to be installed.
CONGRESS AVE / ALPINE RD	PHB	∠ construction	Waiting for striping and signs and electrical inspection
PLEASANT VALLEY RD / SHERINGHAM DR (Riverside Apartments)	PHB	▶ CONSTRUCTION	Permit acquisition underway.
MANCHACA RD / LARCHMONT DR	PHB	∠ CONSTRUCTION	Contractor pursuing permit.
DAVIS LN / COPANO DR	TRAFFIC	→ construction	Construction has begun. Utility conflicts being resolved.
B864 BLK ANDERSON MILL RD (Deer Park MS)	PHB	✓ DESIGN.	Waiting on pole delivery.
7TH ST / WALLER ST (WESTERLY INTERSECTION)	TRAFFIC		SIGNAL TO BE STUDIED, DESIGNED AND CONSTRUCTED BY DEVELOPER
7TH ST / SAN MARCOS ST	TRAFFIC	✓ DESIGN	SIGNAL TO BE STUDIED, DESIGNED AND CONSTRUCTED BY DEVELOPER
CESAR CHAVEZ ST / SAN MARCOS ST	TRAFFIC	✓ DESIGN	SIGNAL TO BE STUDIED, DESIGNED AND CONSTRUCTED BY DEVELOPER
7TH ST / WALLER ST (EASTERLY INTERSECTION)	TRAFFIC	✓ DESIGN	SIGNAL TO BE STUDIED, DESIGNED AND CONSTRUCTED BY DEVELOPER
BARBARA JORDAN BLVD / MUELLER BLVD	TRAFFIC	▶ DESIGN	Proposed Fall 2018 construction
MOPAC EXPY SVRD / DAVIS LN	TRAFFIC	✓ DESIGN	Proposed Fall 2018 construction
400 BLK S CONGRESS AVE (South of Riverside Dr) PHB			Project canceled.
1ST ST / GREAT BRITAIN BLVD TRAFFIC		✓ DESIGN	Pending adjacent development to adjust driveway alignment
IST ST / MONROE ST	TRAFFIC	✓ DESIGN	Coordinating with private developer.



Showing 1 to 20 of 20 entries