



# 25 Years Of Improving Performance & Harnessing The Power Of Your Data

FirstWatch helps public safety and healthcare professionals serve their communities through the use of technology and the science of quality improvement. Drawing on deep experience in emergency services, the FirstWatch team develops software and personalized solutions to help organizations continuously improve at what they do. Founded in 1998, and based in Carlsbad, Calif., FirstWatch has partnered with more than 500 communities across North America to improve outcomes, efficiency, safety, and operations.



## Automated, Real-Time Situational Awareness, Performance, Operational and Clinical Quality Measures, **24-7-365**

FirstWatch turns your raw data into actionable, meaningful information in real-time. Helping **over 500 agencies**, our aim is to maximize the value of your CAD, ePCR, ProQA, RMS, Billing, Hospital ED, and Phone data.

Fire departments are increasingly turning to technology and real-time data to measure performance and operational benchmarks using FirstWatch. This includes automated analysis and reporting against criteria established by the Center for Public Safety Excellence (CPSE) and the National Fire Protection Association (NFPA).

Orange County Fire Rescue, FL (Fire Chief Otto Drozd pictured above) uses their FirstWatch Mobile App to monitor system activity. The FirstWatch App allows real-time views into your data for situational awareness, response times

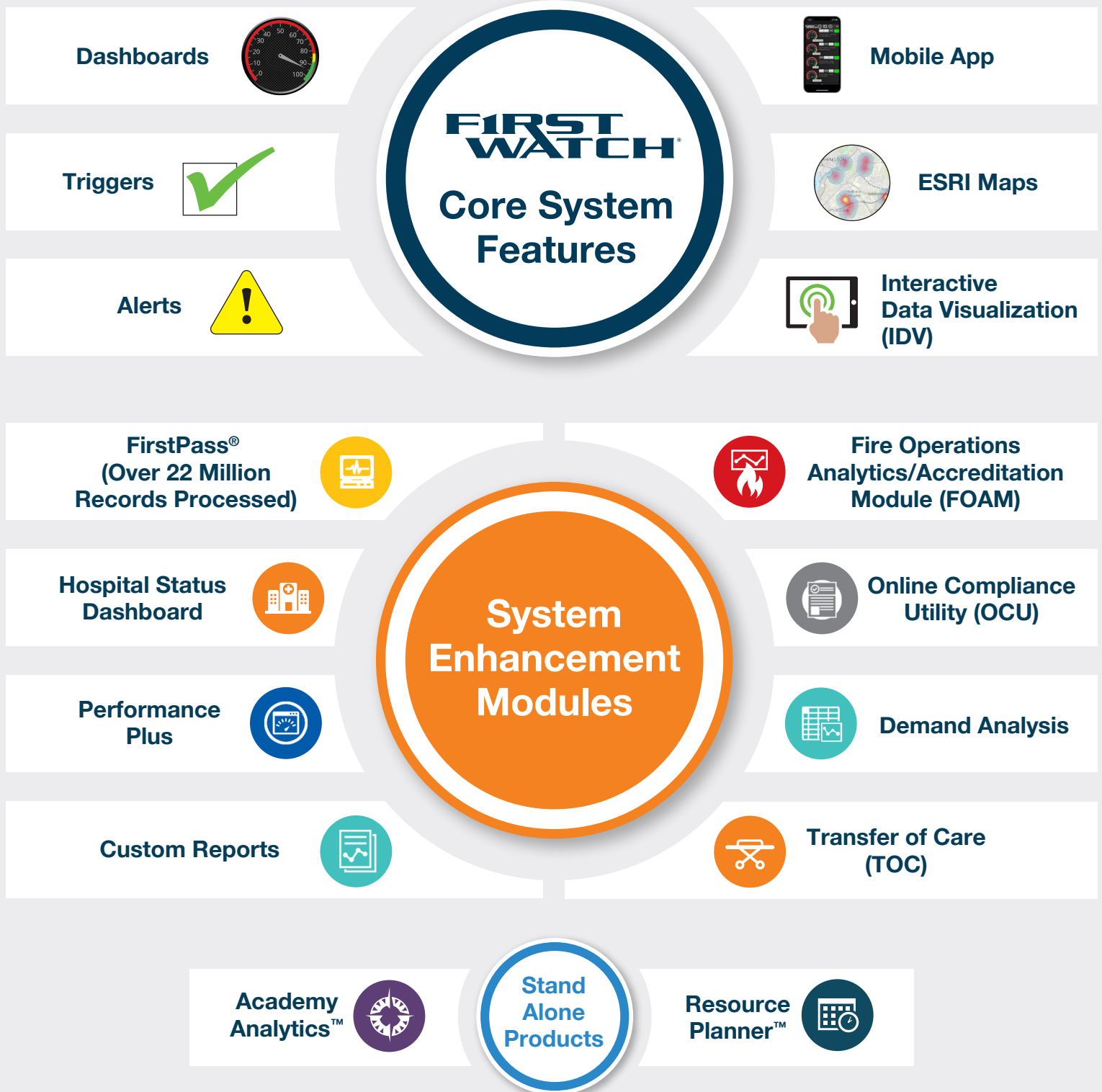
and KPIs, clinical and operational performance, automated alerting, regional data aggregation and sharing, bioterrorism and pandemic/public health surveillance.

In addition to Orange County Fire Rescue, FirstWatch works with these other CPSE accredited agencies including: ConFire JPA (Berkeley, Chino Valley Fire, Colton Fire, Rancho Cucamonga, Redlands), CA | El Paso Fire, TX | Fenton Fire Protection District, MO | Fond du Lac Fire/Rescue, WI | La Crosse Fire, WI | Las Vegas Fire Rescue, NV | Metro West Fire Protection District, MO | Montgomery Co Fire and Rescue, MD | North Shore Fire Rescue, WI | Ontario Fire, CA | Pinellas County (Pinellas Park Fire, St. Petersburg Fire & Rescue), FL | San Antonio Fire, TX | Snohomish County (Fire District 7, South County), WA | and Victorville Fire, CA.





Real-Time data from your CAD, ProQA, ePCR, RMS, Phone, Nurse Triage, Billing, or Hospital ED systems



## About FirstWatch

FirstWatch helps public safety and healthcare professionals serve their communities through the use of technology and the science of quality improvement. Drawing on deep experience in emergency services, the FirstWatch team develops software and personalized solutions for over 500 communities across North America. [FirstWatch.net](https://www.FirstWatch.net)

**FIRST WATCH**  
Helping the Helpers

# Fire Operations

## Operational & Performance Triggers/Time Compliance Analysis:

- **Call Taker & Dispatch Times** – used to monitor in near real-time, the time it takes call takers and dispatchers to process the initial call against a time standard.  
Detailed drill-downs can be enabled by Call Taker or Dispatcher\*
- **Out of Chute / Reflex / Out of Station** – used to monitor in near real-time, the time it takes units to respond after they've been assigned/dispatched to an incident.  
Detailed drill-downs can be enabled by Unit, Station or Crew by Shift\*
- **Response Time** – used to monitor in near real-time, the response time for an incident. There are many variables to start and stop clock times.  
Detailed drill-downs can be enabled by Zone, Unit or Crew or by Shift\*
- **Time on Task** – used to monitor in near real-time, the total time a unit is on a call from time assigned/dispatched to the time the unit is available or the call is cleared.  
Detailed drill-downs can be enabled by Unit or Crew or by Shift\*

*\*requires optional Performance PLUS (PP) enhancement module*

### Knock Down Times

**NFPA, CPSE Compliance to National Goals & Standards** (NFPA 1710, etc.)

**Operational, Command Staff or Supervisory Sentinel**

## Fire Sentinel Event Detection Trigger Examples:

- |                                       |                                |
|---------------------------------------|--------------------------------|
| • All Fire Calls                      | • Tree Down                    |
| • Suspicious fire activity            | • Arson / Arson Patterns       |
| • Dumpster                            | • Fireworks                    |
| • Grass / Brush fire                  | • Tree into Power Lines        |
| • Vacant building Smoke investigation | • Transformer Fire / Pole Down |
| • Vehicle fire                        | • Illegal Burn                 |
| • Occupied Dwelling / Multi-floor     | • Explosions                   |
| • Boat fire                           |                                |



# Fire Operations

## Fire Situational Awareness Trigger Examples:

- Mutual Aid In and Out
- 2nd Alarm / Multi-Alarm Fires
- All Active Fires
- Fire Near / Around High Threat / High Visibility Locations
- School Fires / Nursing Home / Hospital Fires
- Strike Team Assignment
- Bomb Threat
- Explosion
- Aircraft Fire
- Domestic Terrorism
- 1st Unit on Scene
- Homeland Security
- Heavy Rescue
- Hazmat / Chemical
- Task Force Request
- Arson Investigation
- Commercial Structure
- Residential Structure
- Swift Water Rescue
- > “X” Engines Responding
- All Fires by City, County, State (aggregated views)

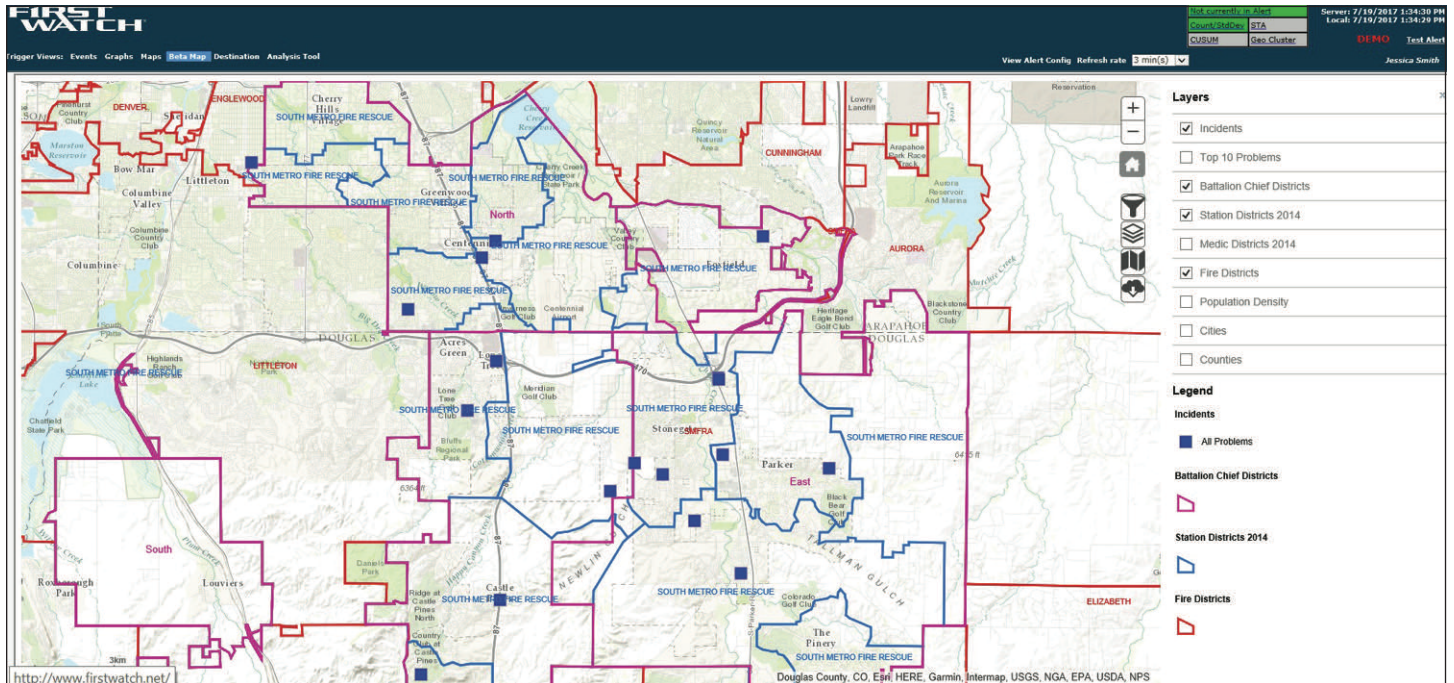
## Proposed Fire & EMS Triggers to Get You Started

Not sure where you should start? Try starting with the following Fire & EMS configurable triggers:

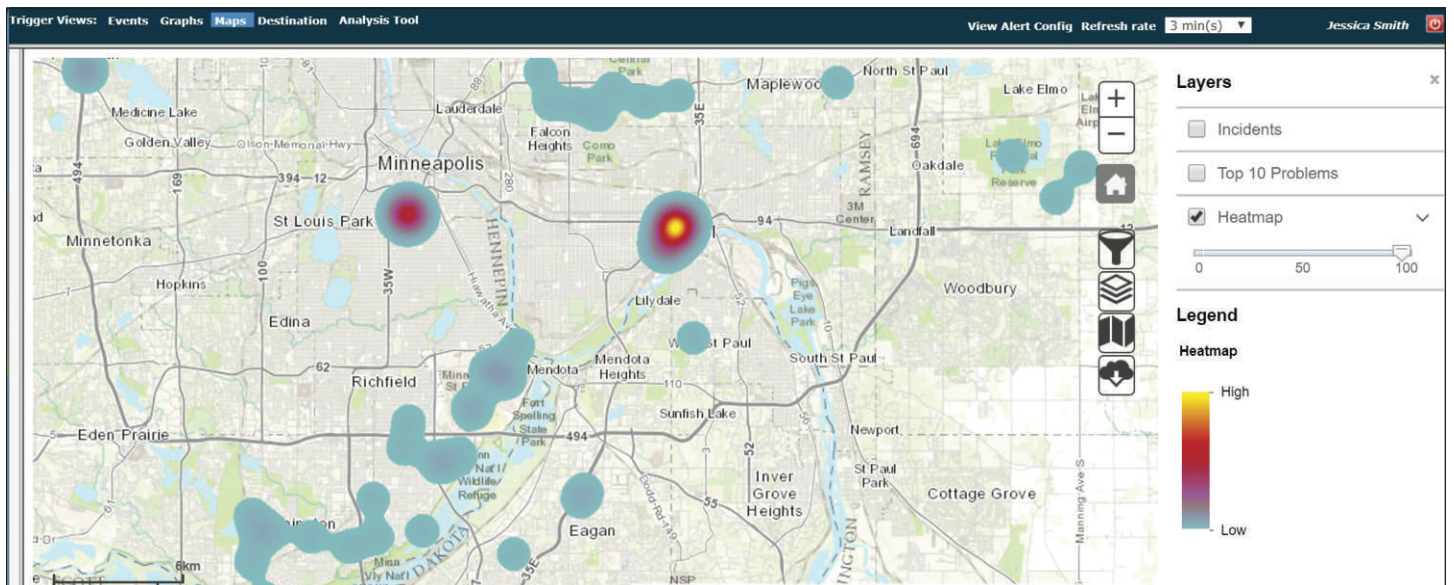
- Alarm Transfer
- Alarm Answering
- Alarm Processing
- EMS Turnout – Days
- EMS Turnout – Nights
- Fire Turnout – Days
- Fire Turnout – Nights
- Travel Time – 1st Engine
- Travel Time – 1st Assignment (Urban, Suburban, Rural etc.)
- Total Response Time
- Structure Fire
- 1st In Engine Response Time
- Effective Response Force
- Response Time Effective Fire Force
- Total Incidents (Fire, EMS, Call Categorization, Alarm)
- Total Responses
- Total Transports
- Total Non-Emergent
- Mutual Aid Given
- Mutual Aid Received
- Simultaneous Counts
- Response Time to 2-In/2-Out (subset of EFR for agencies <4 person staffing)
- Escalation to 2nd or Greater Alarm (Sentinel)
- Major/Key Incident (Sentinel – E.G. Hazmat, Schools, High Hazard Occupancy, MCI, Fatality, Firefighter Injury, Community Leader, etc.)

# NEW: Mapping Features

Toggle on/off to layer different mapping components such as Planning Zones, Station Districts, Fire Districts, Population Density, Cities and Counties. Display calls by Top 10 Problems in order to see what/where your most common calls are happening.





Heat maps with a sliding transparency scale





# Real-Time Tracking of Opiates Overdoses



## HEMSI - Opioid Trigger Current Call Information

Calls displayed represent active or performed calls between the hours of 1/3/2017 and 1/4/2017 11:59:59 PM.  

Data and Report from the FirstWatch™ Internet Server

Time Sent To Queue ▲	Run Number	Address	Nature of Call	Primary Impression	Destination	Narcan administered	Initial Respiratory Rate	Final Respiratory Rate	GCS	Free Text Results
1/3/2017 4:50:34 AM	40970213	From HEMSI	Psychiatric/Abnormal behavior/Suicide Attempt -Non-suicidal and alert	Alt. Level Conscious	01 HH MAIN	No	20	20	15	[HEROIN]
1/3/2017 4:21:26 PM	40990149	From HEMSI	Unknown Problem -Unknown status/Other codes not applicable	Unconscious	01 HH MAIN	Yes	10	14	6	
1/3/2017 5:19:14 PM	40980344	From HEMSI	Transfer / Interfacility / Palliative Care -NotUnknown Medical alert (acute change)	Unknown Medical	06 CRESTWOOD MEDICAL CENTER	No	15	15	15	[hydrocodone]
1/4/2017 3:46:59 PM	40999037	From HEMSI	NO DISPATCH CODE -*** No Dispatch Code ***	Bed Confined (at the time of transfer), Terminally Ill (weak) - note type in narrative, Weakness	08 HOME / RESIDENCE	No	16	16	12	[MORPHINE]
1/4/2017 4:24:24 PM	40997455	From HEMSI	Unknown Problem -Unknown status/Other codes not applicable	Back Pain (No Trauma), Nausea, Vomiting	01 HH MAIN	No	20	20	15	[oxycodone]

## Trinity EMS - Narcotic Monitoring Current Call Information

Calls displayed represent active or performed calls between the hours of 1/31/2018 12:52:33 PM and 3/2/2018 12:52:33 PM.  

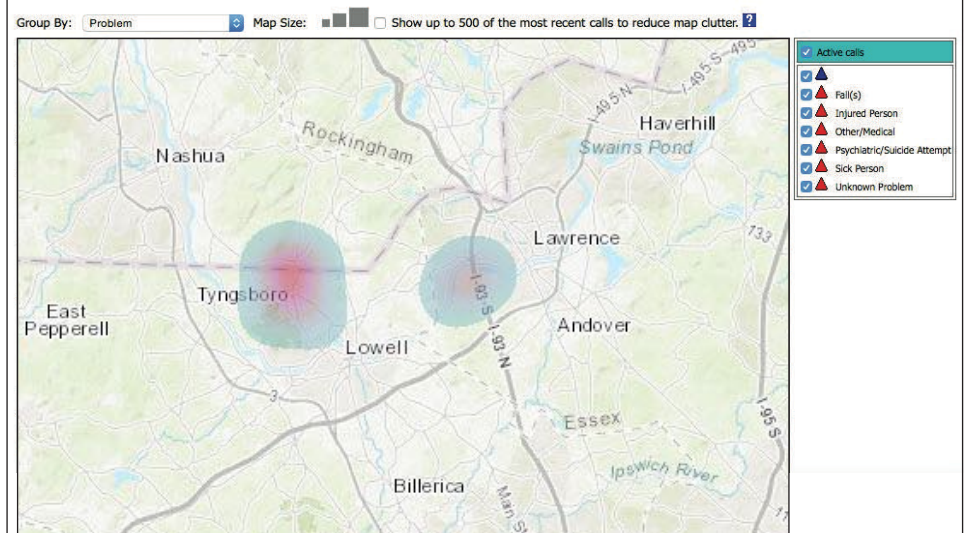
Data and Report from the FirstWatch™ Internet Server

GC	Geo Valid	Time Sent To Queue	Pri	Problem	Primary Impression	Incident #	Address/Location	Intervention Narcotic	Outcome
C		2/2/2018 5:12:09 PM	1	Fall(s)	Head Injury-Blood vessel	8531	From TrinityEMS	Versed	Treated, Tx by EMS
C		2/3/2018 7:50:17 AM	1	Breathing Problems	Respiratory Dist (Acute)	8636	From TrinityEMS	Ativan	Treated, Tx by EMS
C		2/3/2018 7:54:25 AM	1	Breathing Problems	Shortness of Breath	8637	From TrinityEMS	Ativan	Treated, Tx by EMS
C		2/6/2018 6:26:58 PM	1	Convulsions/Seizures	Seizure, Unspecified	9600	From TrinityEMS	Versed	Treated, Tx by EMS
C		2/7/2018 12:13:46 PM	1	Fall(s)	Fell	9769	From TrinityEMS	Fentanyl	Treated, Tx by EMS
C		2/7/2018 5:13:51 PM	3	Transfer	other	9827	From TrinityEMS	Ativan	Treated, Tx by EMS
?		2/11/2018 6:41:24 PM	1	Fall(s)		10800	From TrinityEMS	Fentanyl	Treated, Tx by EMS
C		2/14/2018 2:57:40 PM	1	Breathing Problems					

## Trinity EMS - Lowell Schools MapShot

Map icons displayed represent active, completed or in queue calls between the hours of 3/13/2016 11:30:52 AM and 4/12/2016 11:30:52 AM that have a valid longitude and latitude.

Data and Report from the FirstWatch™ Internet Server





# Measuring Compliance for Accreditation

Incident Time Analysis Reports: breakdown of time intervals for current and a 2,3,4 or 5 year view broken up by: Incident Type, Population Density, and 70th% and 90th% Percentile. Breakdown by Yesterday, Last Week, Last Month, Year-to-Date etc.

FIRST WATCH <sup>®</sup>		FirstWatch Incident Time Analysis							
Every Record. In Real Time. Automatically.		Criteria: 2/29/2016 to 3/6/2016							
Incident Type	Zone Type	Dispatch		TurnOut		Travel		Response	
		70th Percentile	90th Percentile	70th Percentile	90th Percentile	70th Percentile	90th Percentile	70th Percentile	90th Percentile
EMS	Urban	00:00:38	00:00:45	00:01:10	00:01:33	00:04:32	00:05:48	00:05:52	00:07:12
	Suburban	00:00:37	00:00:45	00:01:24	00:01:42	00:05:11	00:07:44	00:06:20	00:09:41
	Rural	00:00:26	00:00:33	00:01:24	00:01:59	00:07:47	00:08:31	00:09:11	00:10:00
Fire	Urban	00:00:39	00:00:43	00:01:27	00:01:31	00:09:59	00:11:24	00:11:37	00:13:08
	Suburban	00:00:35	00:00:50	00:01:59	00:02:07	00:08:18	00:10:46	00:09:34	00:12:31
	Rural	00:01:28	00:01:40	00:01:07	00:01:13	00:06:52	00:06:59	00:08:10	00:08:24
<b>Measure</b>		<b>Parameters</b>		<b>Urban Benchmarks</b>		<b>Suburban Benchmarks</b>		<b>Rural Benchmarks</b>	
Dispatch -		Alarm received to 1st unit dispatched		01:00		01:00		01:00	
TurnOut -		Dispatched to 1st unit enroute		01:30		01:30		01:30	
Travel -		1st unit enroute to 1st unit @ scene		04:00		05:00		10:00	
Response -		Alarm received to 1st unit @ scene		06:30		07:30		10:30	

FIRST WATCH <sup>®</sup>		Incident Time Analysis - 2, 3, 4, 5 Yr Comparison by Measurement					
Every Record. In Real Time. Automatically.							
DISPATCH		2016	2015	2014	2016	2015	2014
Incident type	Zone Type	Disp 70th%	Disp 70th%	Disp 70th%	Disp 90th%	Disp 90th%	Disp 90th%
EMS	Urban	00:00:38	00:00:37	00:00:40	00:00:47	00:00:48	00:00:52
TURN OUT		2016	2015	2014	2016	2015	2014
Incident type	Zone type	Disp 70th%	Disp 70th%	Disp 70th%	Disp 90th%	Disp 90th%	Disp 90th%
Fire	EMS	00:01:18	00:01:16	00:01:15	00:01:41	00:01:40	00:01:39
TRAVEL		2016	2015	2014	2016	2015	2014
Incident Type	Zone type	Disp 70th%	Disp 70th%	Disp 70th%	Disp 90th%	Disp 90th%	Disp 90th%
HazMat	EMS	00:04:26	00:04:22	00:04:31	00:05:52	00:05:44	00:06:00
	Suburban	00:05:05	00:04:57	00:05:10	00:06:57	00:06:33	00:06:55
TOTAL RESPONSE		2016	2015	2014	2016	2015	2014
Incident Type	Zone Type	Disp 70th%	Disp 70th%	Disp 70th%	Disp 90th%	Disp 90th%	Disp 90th%
Rescue	EMS	00:05:43	00:05:40	00:05:48	00:07:18	00:07:11	00:07:23
	Suburban	00:06:31	00:06:15	00:06:30	00:08:16	00:08:00	00:08:26
	Rural	00:07:50	00:07:38	00:07:36	00:09:46	00:09:33	00:09:54
<b>Parameters</b>		Alarm received to 1st unit					

# Measuring Compliance for Accreditation



## Incident Time Analysis - 2, 3, 4, 5 Yr Comparison by Inc Type

Incident Type	Year	Zone Type	Dispatch		TurnOut		Travel		Response	
			70th Percentile	90th Percentile	70th Percentile	90th Percentile	70th Percentile	90th Percentile	70th Percentile	90th Percentile
Fire	2014	Urban	00:00:48	00:01:07	00:01:25	00:01:47	00:04:42	00:06:23	00:06:11	00:07:42
		Suburban	00:00:49	00:01:16	00:01:25	00:01:50	00:05:53	00:07:28	00:07:35	00:09:10
		Rural	00:00:48	00:01:07	00:01:36	00:02:11	00:07:30	00:09:13	00:09:15	00:11:04
	2015	Urban	00:00:48	00:01:02	00:01:29	00:01:51	00:05:03	00:06:27	00:06:30	00:07:55
		Suburban	00:00:49	00:01:09	00:01:32	00:01:48	00:05:53	00:08:11	00:07:27	00:09:45
		Rural	00:00:52	00:01:06	00:01:39	00:02:02	00:07:15	00:09:28	00:09:08	00:11:03
	2016	Urban	00:00:40	00:00:48	00:01:33	00:01:51	00:05:01	00:06:26	00:06:33	00:07:30
		Suburban	00:00:44	00:00:59	00:01:35	00:01:57	00:05:38	00:09:00	00:07:25	00:10:08
		Rural	00:00:49	00:01:23	00:01:31	00:01:44	00:06:57	00:08:08	00:08:22	00:09:49

Measure  
Dispatch - Alarm  
TurnOut - Dispatch  
Travel - 1st unit  
Response - Alarm

Incident Type	Year	Zone Type	Dispatch		TurnOut		Travel		Response	
			70th Percentile	90th Percentile	70th Percentile	90th Percentile	70th Percentile	90th Percentile	70th Percentile	90th Percentile
EMS	2014	Urban	00:00:40	00:00:52	00:01:15	00:01:39	00:04:31	00:06:00	00:05:48	00:07:23
		Suburban	00:00:39	00:00:53	00:01:18	00:01:40	00:05:10	00:06:55	00:06:30	00:08:26
		Rural	00:00:40	00:00:53	00:01:27	00:01:48	00:06:18	00:08:20	00:07:36	00:09:54
	2015	Urban	00:00:37	00:00:48	00:01:16	00:01:40	00:04:22	00:05:44	00:05:40	00:07:11
		Suburban	00:00:37	00:00:48	00:01:18	00:01:40	00:04:57	00:06:33	00:06:15	00:08:00
		Rural	00:00:39	00:00:51	00:01:22	00:01:43	00:06:16	00:07:59	00:07:38	00:09:33
	2016	Urban	00:00:38	00:00:47	00:01:18	00:01:41	00:04:26	00:05:52	00:05:43	00:07:18
		Suburban	00:00:38	00:00:48	00:01:22	00:01:43	00:05:04	00:06:56	00:06:31	00:08:16
		Rural	00:00:35	00:00:44	00:01:26	00:01:47	00:06:20	00:08:11	00:07:50	00:09:46

Measure Parameters Urban Benchmarks Suburban Benchmarks Rural Benchmarks

Incident Type	Year	Zone Type	Dispatch		TurnOut		Travel		Response	
			70th Percentile	90th Percentile	70th Percentile	90th Percentile	70th Percentile	90th Percentile	70th Percentile	90th Percentile
Rescue	2014	Urban	00:00:56	00:01:00	00:00:51	00:01:14	00:04:12	00:04:30	00:05:09	00:05:45
		Suburban	00:01:05	00:01:45	00:00:59	00:01:25	00:04:58	00:05:24	00:06:24	00:06:53
		Rural	00:01:34	00:01:34	00:00:50	00:00:50	00:09:36	00:09:36	00:10:49	00:10:49
	2015	Urban	00:00:59	00:01:04	00:00:59	00:01:08	00:05:52	00:07:40	00:06:46	00:09:15
		Suburban	00:01:08	00:02:11	00:00:26	00:01:07	00:09:52	00:21:48	00:11:27	00:22:22
	2016	Urban	00:01:04	00:01:15	00:00:39	00:00:44	00:04:02	00:04:29	00:04:46	00:05:16
		Suburban	00:01:02	00:01:02	00:00:13	00:00:13	00:03:12	00:03:12	00:03:47	00:03:47

Measure Parameters Urban Benchmarks Suburban Benchmarks Rural Benchmarks  
Dispatch - Alarm received to 1st unit dispatched 01:00 01:00 01:00  
TurnOut - 01:00 01:00 01:00  
Travel - 01:00 01:00 01:00  
Response - 01:00 01:00 01:00

Incident Type	Year	Zone Type	Dispatch		TurnOut		Travel		Response	
			70th Percentile	90th Percentile	70th Percentile	90th Percentile	70th Percentile	90th Percentile	70th Percentile	90th Percentile
HazMat	2014	Urban	00:00:59	00:01:29	00:01:22	00:01:47	00:05:06	00:05:45	00:06:35	00:09:07
		Suburban	00:01:08	00:01:24	00:01:30	00:01:39	00:06:32	00:08:36	00:08:21	00:10:03
		Rural	00:01:04	00:01:04	00:01:26	00:01:26	00:05:37	00:05:37	00:07:10	00:07:10
	2015	Urban	00:00:48	00:00:55	00:01:33	00:01:50	00:04:26	00:04:59	00:05:55	00:06:40
		Suburban	00:00:32	00:01:07	00:01:15	00:01:20	00:06:35	00:08:02	00:07:57	00:09:07
		Rural	00:00:34	00:00:34	00:00:43	00:00:54	00:06:26	00:07:02	00:07:04	00:07:32
	2016	Urban	00:00:40	00:00:43	00:00:56	00:00:58	00:04:28	00:04:53	00:05:39	00:06:05

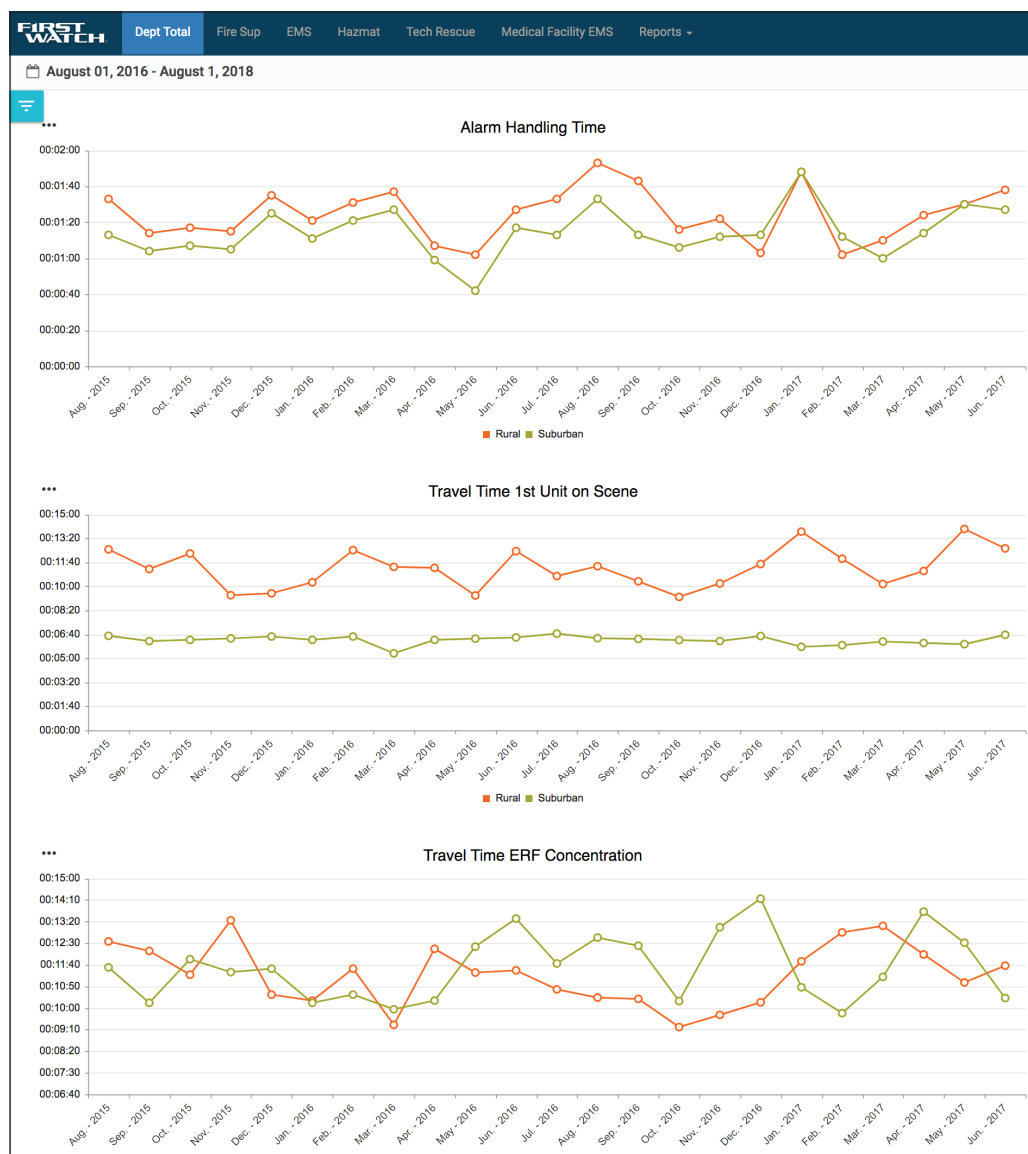
Measure Parameters Urban Benchmarks Suburban Benchmarks Rural Benchmarks  
Dispatch - Alarm received to 1st unit dispatched 01:00 01:00 01:00  
TurnOut - Dispatched to 1st unit enroute 01:30 01:30 01:30  
Travel - 1st unit enroute to 1st unit @ scene 04:00 05:00 10:00  
Response - Alarm received to 1st unit @ scene 06:30 07:30 10:30

## New F.O.A.M. Module Includes:

- Module Landing Page and Drill Downs
- Annual Compliance Report (CFAI Format v9)
- GIS Mapping Output of Compliance Reports
- 10 Report Modules

Annual Compliance Report						
Criteria: 01/01/2016 to 12/31/2017						
Risk Category: Significant						
Districts: 1, 2, 3, 4, 5						
Fire Suppression - 90th Percentile Times			2016 - 2017	2017	2016	Benchmark
Alarm Handling	Pick-up to Dispatch	Suburban (1:50)	01:49	00:39	01:55	01:00
Turnout Time	Turnout Time 1st Unit	Suburban (2:00)	01:16	00:21	01:18	01:20
Travel Time	Travel Time 1st Unit On Scene Distribution	Suburban (6:30)	06:09	06:08	05:48	04:00
	Travel Time ERF Concentration	Suburban (13:00)	12:44	09:35	12:52	08:00
Total Response Time	Total Response Time 1st Unit On Scene Distribution	Suburban (9:00)	06:58	06:29	06:58	06:20
			<i>n = 6</i>	<i>n = 1</i>	<i>n = 5</i>	
	Total Response Time ERF Concentration	Suburban (16:00)	15:59	10:35	15:59	10:20
			<i>n = 6</i>	<i>n = 1</i>	<i>n = 5</i>	

Track quality improvement efforts over time.





# Fire Operations Analytics/Accreditation Module (FOAM)



## DEMO - 90th Perc Turnout Time Compliance

By Call Type / Station / Shift

Criteria: Period: 7/1/2018 thru 7/31/2018

Call Type	Station	Unit	A Shift - Day	Calls	B Shift - Day	Calls	C Shift - Day	Calls	A Shift - Night	Calls	B Shift - Night	Calls	C Shift - Night	Calls
EMS	1	1302	00:01:13	2	00:00:31	4	00:01:27	10	00:01:45	3	00:00:00	0	00:03:41	1
		1315	00:01:02	13	00:00:56	10	00:01:04	9	00:01:45	4	00:01:26	2	00:01:43	3
		1317	00:01:20	20	00:00:55	24	00:01:13	25	00:01:33	9	00:01:25	8	00:01:38	9
	Station Total:		00:01:12	35	00:00:55	38	00:01:16	44	00:01:47	16	00:01:30	10	00:01:46	13
	2													
	Station Total:		00:00:48	11	00:00:50	5	00:01:22	9	00:01:43	6	00:00:47	1	00:02:00	2
	3													
	Station Total:		00:00:51	39	00:01:04	23	00:01:18	36	00:01:27	11	00:02:15	12	00:01:49	7
	4													
	Station Total:		00:01:01	6	00:01:14	4	00:01:18	8	00:01:35	2	00:00:00	0	00:01:49	3
ADM	ADM													
	Station Total:		00:00:01	1	00:00:06	4	00:00:01	2	00:00:00	0	00:00:00	0	00:00:00	0
	Call Type Total:		00:01:06	92	00:00:59	74	00:01:21	99	00:01:47	35	00:01:53	23	00:01:55	25
Fire	1													
	Station Total:		00:00:00	1	00:00:55		00:01:16		00:00:00	0	00:01:30		00:01:46	
	1	1302	00:01:11	5	00:01:24	5	00:00:59	5	00:00:00	0	00:01:54	3	00:01:51	1
		1315	00:00:53	3	00:00:51	1	00:00:36	3	00:00:00	0	00:01:27	1	00:01:42	2
		1317	00:01:00	1	00:00:31		00:01:33	1	00:00:00	0	00:00:00		00:00:00	0
	Station Total:		00:01:06	9	00:01:20	6	00:01:08	9	00:00:00	0	00:01:52	4	00:01:52	3



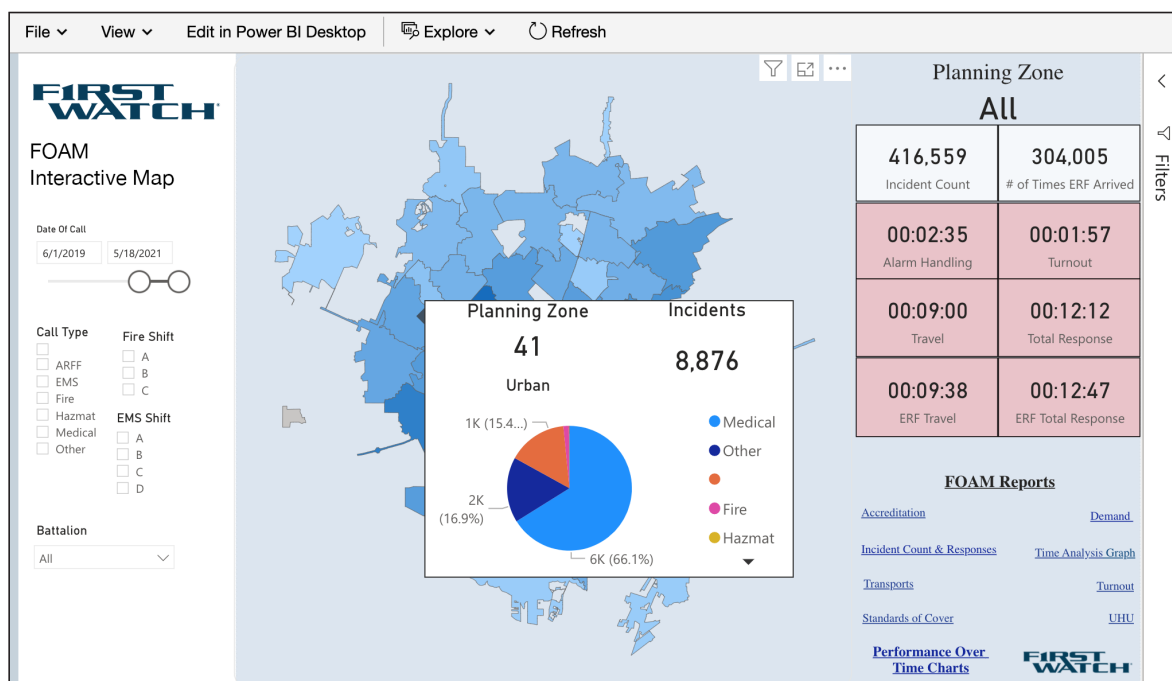
## FirstWatch Demand by Hour of Day and Day of week

Date Range: 01/01/2020 07:30:00 to 02/01/2020 07:29:59

Battalion(s): 1, 10, 4 Call Type(s): Fire, EMS, HazMat, Bomb, Public Assist, Other

Service Area(s): 1, 10, 102, 103, 106, 107, 108, 2, 3, 4, 41, 42, 43, 44, 45, 47, 48, 5, 6, 7, 8, 9

	Hour of Day																								
DOW	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total 📊
Sunday	38	57	27	30	35	39	35	33	34	50	65	42	48	51	64	59	70	78	62	60	63	52	50	49	1,191
Monday	49	40	32	26	16	26	39	42	61	57	75	81	69	57	69	89	77	77	68	53	48	51	45	47	1,294
Tuesday	29	50	19	37	27	47	45	46	41	64	81	76	47	96	86	83	61	68	79	79	60	46	45	40	1,352
Wednesday	26	28	29	19	42	43	36	54	73	73	57	66	85	64	96	86	91	115	99	84	80	72	64	38	1,520
Thursday	39	60	27	29	41	41	32	41	80	92	91	112	85	109	94	85	87	108	104	85	79	71	58	48	1,698
Friday	44	34	34	31	34	42	35	53	80	67	66	70	91	89	83	101	98	113	93	81	83	84	86	44	1,636
Saturday	81	49	32	46	39	27	32	45	59	56	54	67	59	66	69	57	70	64	59	45	61	60	69	44	1,310
Total 📈	306	318	200	218	234	265	254	314	428	459	489	514	484	532	561	560	554	623	564	487	474	436	417	310	10,001



# Workload Monitoring

**FIRST WATCH**  
Trigger Views: Events | Graphs | Maps | Destination | Analysis Tool

Not currently in Alert  
Count: 3rd Day  
STA  
CUSUM Geo Cluster

Server: 7/19/2016 6:44:04 AM  
Local: 7/19/2016 9:45:35 AM

View Alert Config Refresh rate: 3 min(s) Michael Burrell

**Austin - 24hr 7am DC1-DC5 Unit Workload Current Call Information**  
Calls displayed represent active or performed calls between the hours of 7/18/2016 8:41:44 PM and 7/19/2016 8:41:44 AM.  
Performance Standard = 01:15:00  
Data and Report from the FirstWatch™ Internet Server

Geo Valid	Time Sent To Queue	Problem	Incident #	Unit	Address/Location	Enroutes	# of Cardiac Arrest/Deceased Incidents	Task Time	Task UHU	Daytime Total Time OnTask	Daytime OnTask%	Daytime UHU	Adj Task Time	Adj Task UHU	Adj Daytime OnTask%	Adj Daytime UHU
✓	7/18/2016 11:31:47 PM	Altered Mentation Pri 3	16200-0523	DC01		3	0	00:10:27	0.01	00:37:57	3%	0.03	00:40:27	0.03	5%	0.05
✓	7/19/2016 4:16:50 AM	Tactical Assist Prescheduled	16201-0038	DC04		2	0	02:17:03	0.1	02:28:39	10%	0.1	02:47:03	0.12	12%	0.12
✓	7/19/2016 4:27:17 AM	Cardiac Arrest	16201-0040	DC02		3	3	00:02:53	0	00:44:16	3%	0.03	00:32:53	0.02	5%	0.05
✓	7/19/2016 8:03:08 AM	Traffic Injury Pri 4F	16201-0074	DC03		1	0	00:10:27	0.2	00:10:27	20%	0.2	00:10:27	0.5	50%	0.5

Records Per Page: 50  
Total Responses: 4 Within Standard

**M06 has been dispatched 15 times since 6am and has spent 05:13:12 on task.**

Incident Date	Run #	Problem Type	Task Time	Disposition
06/29/2016 07:42:54	16785805	Psychiatric Pri 3	00:07:46	Reconfigured Response
06/29/2016 07:37:33	16785761	Unknown Pri 4	00:00:20	Reconfigured Response
06/29/2016 07:59:58	16785860	Unknown Pri 3	00:05:03	No Patient
06/29/2016 08:06:36	16785897	Syncopal Episode Pri 3	01:04:37	South Austin
06/29/2016 09:12:04	16786241	Unknown Pri 3	00:07:26	Referred Austin Police Dept.
06/29/2016 09:41:13	16786407	Seizure Pri 3	00:59:45	University Med Ctr Brackenridge
06/29/2016 10:48:40	16786807	Allergic Reaction Pri 4	00:01:07	Reconfigured Response
06/29/2016 10:54:00	16786844	Chest Pain Pri 2	01:18:10	University Med Ctr Brackenridge
06/29/2016 13:18:40	16787813	Psychiatric Pri 5	00:10:54	Cancelled
06/29/2016 13:30:24	16787895	Psychiatric Pri 4	00:27:16	Refusal
06/29/2016 13:59:08	16788085	Psychiatric Pri 4		
06/29/2016 13:53:50	16788049	Overdose Pri 1	00:02:15	Reconfigured Response
06/29/2016 14:16:00	16788196	Unknown Pri 3	00:01:38	Cancelled
06/29/2016 14:29:38	16788317	Respiratory Pri 1	00:46:55	Saint Davids
06/29/2016 15:16:05	16788686	Fall Pri 3		

**OOS Log**

OOS Description	Start Time	End Time	Time Taken
OS Repair EMSG	06/29/2016 12:22:28	06/29/2016 12:45:55	00:23:27

Make informed, real-time decisions when sending your crews on calls based on their current total task time for that shift.

# Workload Fatigue Reporting



Real-time reporting on your Units to determine the number of run assignments they have been on within a given time frame, their total task time, and more.



Live Workload Report												
Unit	Scheduled Start Time	Actual Start Time	Total Time on Duty	# of Run Assignments	# of Arrivals	Total Task Time	Task Time UHU		# of Post Movements	Time not at Post	Active Time UHU	
North Metro												
636	04:01:23	04:01:23	14:08:56	9	7	05:50:49	0.41	●	14	08:45:52	0.62	●
637	05:34:56	05:34:56	12:35:23	6	5	04:05:50	0.33	●	12	08:40:00	0.69	●
634	06:00:34	06:00:34	12:09:45	6	4	06:03:56	0.50	●	7	08:18:08	0.68	●
684	06:29:44	06:29:44	11:40:35	6	6	04:52:52	0.42	●	8	07:11:39	0.62	●
635	06:54:42	06:54:42	11:15:37	11	10	05:53:05	0.52	●	15	07:49:02	0.69	●
685	08:34:16	08:34:16	09:36:03	8	6	05:30:26	0.57	●	6	06:41:26	0.70	●
682	09:06:41	09:06:41	09:03:38	4	3	02:07:43	0.23	●	11	06:59:15	0.77	●
683	09:34:46	09:34:46	08:35:33	2	2	02:36:29	0.30	●	3	04:37:33	0.54	●
628	10:03:44	10:03:44	08:06:35	5	5	04:52:49	0.60	●	7	06:13:14	0.77	●
642	12:00:13	12:00:13	06:10:06	3	3	02:55:41	0.47	●	5	04:45:00	0.77	●
654	13:02:04	13:02:04	05:08:15	4	4	03:50:08	0.75	●	2	04:41:31	0.91	●
651	15:34:11	15:34:11	02:36:08	2	1	01:25:40	0.55	●	1	01:55:05	0.74	●
681	16:25:30	16:25:30	01:44:49	1	1	00:42:18	0.40	●	2	01:14:21	0.71	●
643	16:44:35	16:44:36	01:25:43	1	1	01:21:34	0.95	●	0	01:25:43	1.00	●
656	17:32:17	17:32:17	00:38:02	0	0	00:00:00	0.00	●	1	00:29:46	0.78	●

# Firefighter & Provider Wellness


## Critical Incident Notification

Allina Health EMS and Las Vegas Fire uses their Critical Incidents triggers to alert their Chaplain in real-time.



### AHEMS - Critical Incidents Current Call Information

Calls displayed represent active or performed calls between the hours of 5/12/2017 and 5/18/2017 11:59:59 PM.    
Data and Report from the FirstWatch™ Internet Server

**INFO:** MATCHING PROBLEM TYPES: 07 Burns / Explosions 14 Drowning / Diving / SCUBA 22 Industrial / Machine Accid. 27 Stab/ Gunshot / Penetrating AND MATCHING DETERMINANTS: 7% 14C% 14D% 14E% 22% 27B% 27D% OR 4 OR MORE UNITS ARE ON SCENE OR HAS BRAIN MATTER IN THE PCR NARRATIVE OR PCR HAS PT AGE <= 18 WITH PRIMARY/SECONDARY IMPRESSION OF CARDIAC ARREST. EXCLUDES: TEST, MIS-ASSIGNED, DUPLICATE CALLS AND PRIORITY 99 CALLS, SEA ALS Special Event Ded., SEA ALS Special Event Nondedic, SEB BLS Special Event Ded., SEB BLS Special Event Nondedic

Geo Valid	ePCR	Time Sent To Queue	Pri	Problem	ProQA	Incident #	Address/Location	City	County	Division
✓		5/12/2017 1:32:56 AM	15	FS Fire Standby		051217-0028	From AHEMS	ARDEN HILLS	RAMSEY	Allina North
✓		5/12/2017 1:32:56 AM	15	FS Fire Standby		051217-0028	From AHEMS	ARDEN HILLS	RAMSEY	Allina North
✓		5/12/2017 10:50:32 AM	5	27 Stab/ Gunshot / Penetrating		051217-0180	From AHEMS	MOUNDS VIEW	RAMSEY	Allina North
✓		5/14/2017 10:27:50 AM	5	29 Traffic Accident / PI		051417-0138	From AHEMS	ANOKA	ANOKA	Allina North

### LVFR - Critical Incident Notification Current Call Information

Calls displayed represent active or performed calls between the hours of 4/17/2016 and 4/18/2016 11:59:59 PM.    
Data and Report from the FirstWatch™ Internet Server

Geo Valid	ePCR	Time Sent To Queue	Incident #	Pri	Problem	ProQA
✓		4/17/2016 12:07:58 AM	04172016-6108729			
✓		4/17/2016 1:04:56 AM	04172016-6108772			
✓		4/18/2016 12:33:27 AM	04182016-6109705			

Records Per Page: 50

Total Responses: 3

### DRAFT - LVFR - Critical Incident Notification Filter Criteria

Includes Priorities: 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 2, 3, 4, 5, 6, 7, 8, 9 Only.

**Trigger Criteria Include the Following Categories (with Matching Free-Text Entries with Call Comments):**

Critical Incidents, No Patient Contact

(Drill down into each call's detail to see which free-text words or phrases were used in the call comments and had a corresponding Category.)

**Other Information:** LVFR units only AND matching determinants: GSW (explosive to head) - "27B05G" GSW (multiple victims) - "27D05G" Building Fire with person inside - "07C01" Cardiac Arrest Obvious Death - "09B1%" Drownings - "14D%" and "14B%" Traffic Accident - "29D%" OR Matching Problems Types: "27B-Stab/Gunshot Wound" "27D-Stab/Gunshot Wound" "7C-Burns/Explosion" "9B-Cardiac/Respiratory Arrest" OR With "Hanging" or "Jumper" in the ePCR narrative. Unit must be on scene > 2 minutes Does not include "unable to locate" or "no patient contact" in ePCR narrative

LVFR units only AND matching determinants: GSW (explosive to head) - "27B05G" GSW (multiple victims) - "27D05G" Building Fire with person inside - "07C01" Cardiac Arrest Obvious Death - "09B1%" Drownings - "14D%" and "14B%" Traffic Accident - "29D%" OR Matching Problems Types: "27B-Stab/Gunshot Wound" "27D-Stab/Gunshot Wound" "7C-Burns/Explosion" "9B-Cardiac/Respiratory Arrest" OR With "Hanging" or "Jumper" in the ePCR narrative. Unit must be on scene > 2 minutes Does not include "unable to locate" or "no patient contact" in ePCR narrative

### Live Workload Report

Unit	Scheduled Start Time	Actual Start Time	Total Time on Duty	# of Responses	# of Arrivals	Total Task Time	Task Time UHU	# of Times Out of Service	Out of Service Time	# of Post Movements	Time not at Post	@ Post > 30 Min	Active Time UHU
<b>ALS Units</b>													
3333	05:00:00	05:17:52	08:46:04	4	4	04:43:17	0.54	1	00:34:57	6	06:30:03	0	0.74
3334	05:30:00	05:29:54	08:34:02	5	2	05:13:53	0.61	1	00:51:17	4	06:15:15	0	0.73
3331	05:30:00	05:30:43	08:33:13	4	3	05:56:19	0.69	1	00:47:26	6	07:43:04	0	0.90
3385	06:00:00	06:23:05	07:40:51	3	3	05:47:11	0.75			6	06:48:45	0	0.89
3340	06:00:00	06:43:44	07:20:12	6	5	04:11:53	0.57			9	05:26:22	0	0.74
3336	06:30:00	06:44:34	07:19:22	3	3	03:32:27	0.48	1	00:40:47	4	04:21:10	0	0.59
3101	06:30:00	06:46:18	07:17:38	3	3	05:40:41	0.78			0	00:00:00	0	1.00
3338	07:00:00	07:03:25	07:00:31	4	4	03:49:44	0.55			7	05:26:09	1	0.78
3317	07:30:00	07:30:43	06:33:13	7	2	02:29:57	0.38			8	05:09:15	1	0.79
3339	07:30:00	07:53:44	06:10:12	3	3	04:09:10	0.67			6	05:37:21	0	0.91
3343	08:00:00	08:01:01	06:02:55	0	0	00:00:00	0.00	2	05:51:38	0	00:00:00	0	0.03
3107	08:00:00	08:02:46	06:01:10	3	3	05:40:46	0.94			0	00:00:00	0	1.00
3364	08:00:00	08:03:39	06:00:17	2	1	02:22:00	0.39			4	02:54:27	0	0.48
3327	08:00:00	08:17:24	05:46:32	1	1	04:37:47	0.80			3	05:03:41	0	0.88
3332	08:00:00	08:17:50	05:46:06	3	2	04:23:44	0.76	1	00:50:50	2	04:41:52	0	0.81
3344	09:00:00	09:16:14	04:47:42	0	0	00:00:00	0.00	1	04:47:44	0	00:00:00	0	0.00
3342	09:00:00	09:42:03	04:21:53	3	3	04:12:16	0.96			2	00:00:00	0	1.00
3103	09:30:00	10:07:25	03:56:21	1	1	02:45:59	0.70			0	00:00:00	0	1.00
3365	10:00:00	10:08:16	03:55:40	2	2	02:18:20	0.59			3	03:07:19	0	0.79
3104	10:00:00	10:09:40	03:54:16	1	1	03:23:33	0.87			1	03:37:19	0	0.93
3366	11:00:00	11:38:43	02:25:13	2	2	01:15:56	0.52			5	02:13:12	0	0.92
3102	06:00:00	12:44:12	01:19:44	1	1	01:18:20	0.98			0	00:00:00	0	1.00
3113	11:00:00	13:29:44	00:34:12	0	0	00:00:00	0.00			1	00:32:52	0	0.96
3108	13:00:00	13:32:26	00:31:30	0	0	00:00:00	0.00			1	00:30:11	0	0.96
<b>BLS Units</b>													
4490	07:30:00	08:46:26	1:05:17:30	18	10	10:43:07	0.37	1	00:53:28	5	12:30:40	6	0.43
3341	06:00:00	06:04:29	07:59:27	3	2	04:54:59	0.62			1	05:36:07	0	0.70
3302	07:00:00	07:11:12	06:52:44	2	2	01:39:03	0.24			2	06:20:02	1	0.92
3348	07:30:00	07:38:55	06:25:01	2	2	01:53:12	0.29			3	06:23:29	0	1.00
4441	08:30:00	08:40:27	05:23:29	2	2	03:50:31	0.71			0	00:00:00	0	1.00

## Workforce Safety

Monitor unit activity in real-time.



# Report Example: Automated Compliance Reporting

The very labor intensive effort of providing Annual Compliance Reporting (ACR) is simplified by this ACR Custom Report. Defined by the User, this provides year over year performance to response time and demand requirements of the organization. It is a dynamic report, updating on a real-time basis allowing leaders to provide real time monitoring and review of their systems performance. This allows for real-time feedback to crews maximizing organizational performance improvement efforts.



## FirstWatch Annual Compliance Report (ACR v.9) (DRAFT)

Criteria: 01/01/2015 to 12/31/2017

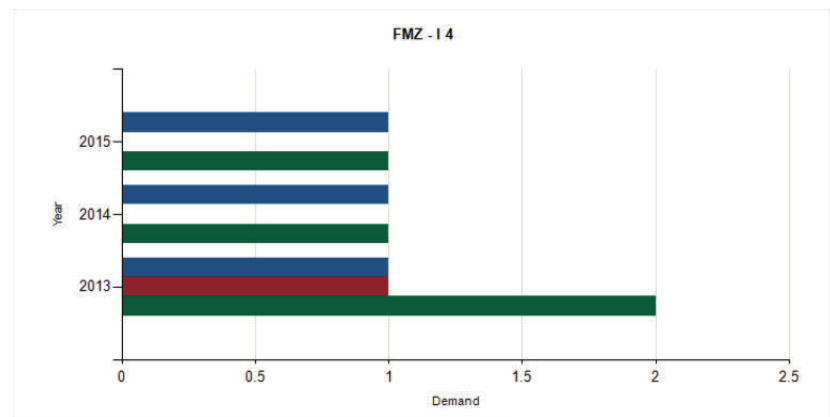
Risk Category: Low, Moderate, High

Fire Suppression - 90th Percentile Times			2015 - 2017	2017	2016	2015	Benchmark
Alarm Handling	Pick-up to Dispatch	Urban	01:32	01:29	01:32	01:41	01:00
		Rural	02:04	02:01	01:33	05:02	01:00
Turnout Time	Turnout Time 1st Unit	Urban	01:42	01:46	01:36	01:46	01:20
		Rural	02:03	01:58	02:08	01:11	01:20
Travel Time	Travel Time 1st Unit On Scene Distribution	Urban	06:18	06:31	06:13	05:55	05:00
		Rural	11:28	10:45	13:54	10:15	10:00
	Travel Time ERF Concentration	Urban	00:00	00:00	00:00	00:00	10:00
		Rural	00:00	00:00	00:00	00:00	14:00
Total Response Time	Total Response Time 1st Unit On Scene Distribution	Urban	07:22	07:42	07:20	07:06	08:00
			<i>n = 888</i>	<i>n = 281</i>	<i>n = 316</i>	<i>n = 291</i>	
		Rural	13:41	12:44	15:56	11:21	11:00
			<i>n = 11</i>	<i>n = 4</i>	<i>n = 4</i>	<i>n = 3</i>	
	Total Response Time ERF Concentration	Urban	00:00	00:00	00:00	00:00	15:00
		Rural	00:00	00:00	00:00	00:00	

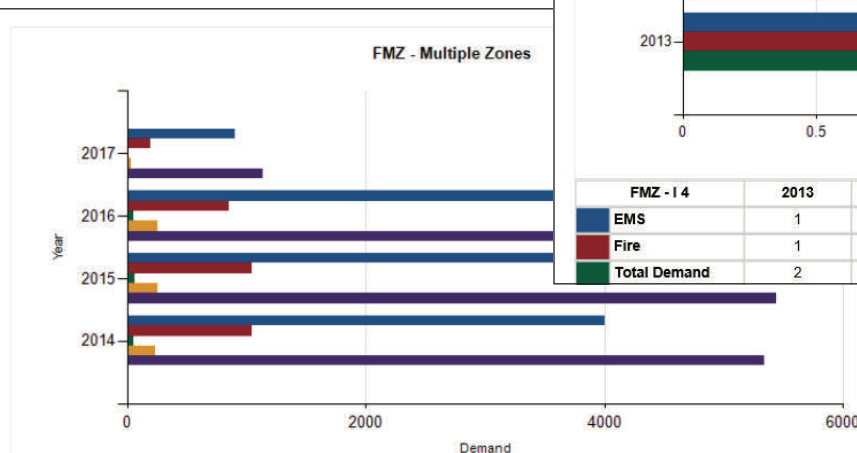
Printed on 11/9/2018 11:31:19 AM

## Fire Call Type Demand by Suburban Zones (DRAFT)

Criteria: 01/01/2012 to 03/15/2017





FMZ - I 4	2013	2014	2015
EMS	1	1	1
Fire	1		
Total Demand	2	1	1



	2014	2015	2016	2017
EMS	1	374	55	14
Fire	1	93	37	7
HazMat	1	6	1	1
Technical Rescue	1	21	11	1
Total Demand	1	494	104	22

# Effective Fire Force

## SDFD - EFF Initial 1st Alarm (17FF) 10:30 Current Call Information

Calls displayed represent active or performed calls between the hours of 2/5/2017 7:56:53 PM and 2/6/2017 7:56:53 AM.  

Performance Standard = 00:10:30

Data and Report from the FirstWatch™ Internet Server

GC	Geo Valid	Time Sent To Queue	Agency	Pri	Problem	ProQA	Incident #	Address/Location	Effective Force Count	Phone Pick Up	First Unit Assigned	Call Pickup to 17th Person	Outside Standard	Total Engine Units
	✓	2/6/2017 2:19:47 AM	Fire	11	Structure Highrise/Hospital		FS17018098	From SDHSE	26	2/6/2017 2:18:23 AM	2/6/2017 2:19:48 AM	00:20:55	Yes	4

## Incident Drill-down

Incident Details				Total Engine Personnel	Total Truck Units	Total Truck Personnel	Total Battalion Units	Total Battalion Personnel	Total Brush Units	Total Brush Personnel
fwCust_ID	15 (c)	Time_FirstCallTaken	02/06/2017 02:18:23	16	2	8	2	2	0	
ID	3720046	Time_CallEnteredQueue	02/06/2017 02:19:47							
FWTimeStamp	02/06/2017 02:40:01	Time_CallTakenComplete	02/06/2017 02:20:25							
Response_Date	02/06/2017 02:18:27	Time_CallClosed	02/06/2017 02:39:18							
Master_Incident_Number	FS17018098	Time_First_Unit_Assigned	02/06/2017 02:19:48							
Agency_Type	Fire	Time_First_Unit_Arrived	02/06/2017 02:26:28							
Jurisdiction	San Diego	Cancel_Reason								
Division	Zone 5	Call_Disposition	1-CALL COMPLETE							
Response_Area	35-Z5-01	EMD_Used	0							
Problem	Structure Highrise/Hospital	CIS_Used	0							
Priority_Number	11	Determinant								
Location_Name	DE-IDENTIFIED	ProQA_CaseNumber								
Address	DE-IDENTIFIED	Call_Is_Active	0							
Apartment	DE-IDENTIFIED	CreatedbyPrescheduleModule								
City	SAN DIEGO	Caller_Type								
State	CA	Location_Type	Access Information							
Postal_Code	DE-IDENTIFIED	Priority_Description	Level 1 Fire							
Map_Info	3220F2	ClockStartTime	02/06/2017 02:18:27							
County	San Diego	MultiAgency_Ptr	3720046							
Longitude	DE-IDENTIFIED	CallTaken_Performed_By	DE-IDENTIFIED							
Latitude	DE-IDENTIFIED	Calc_Latitude	DE-IDENTIFIED							
Time_PhonePickUp	02/06/2017 02:18:23	Calc_Longitude	DE-IDENTIFIED							

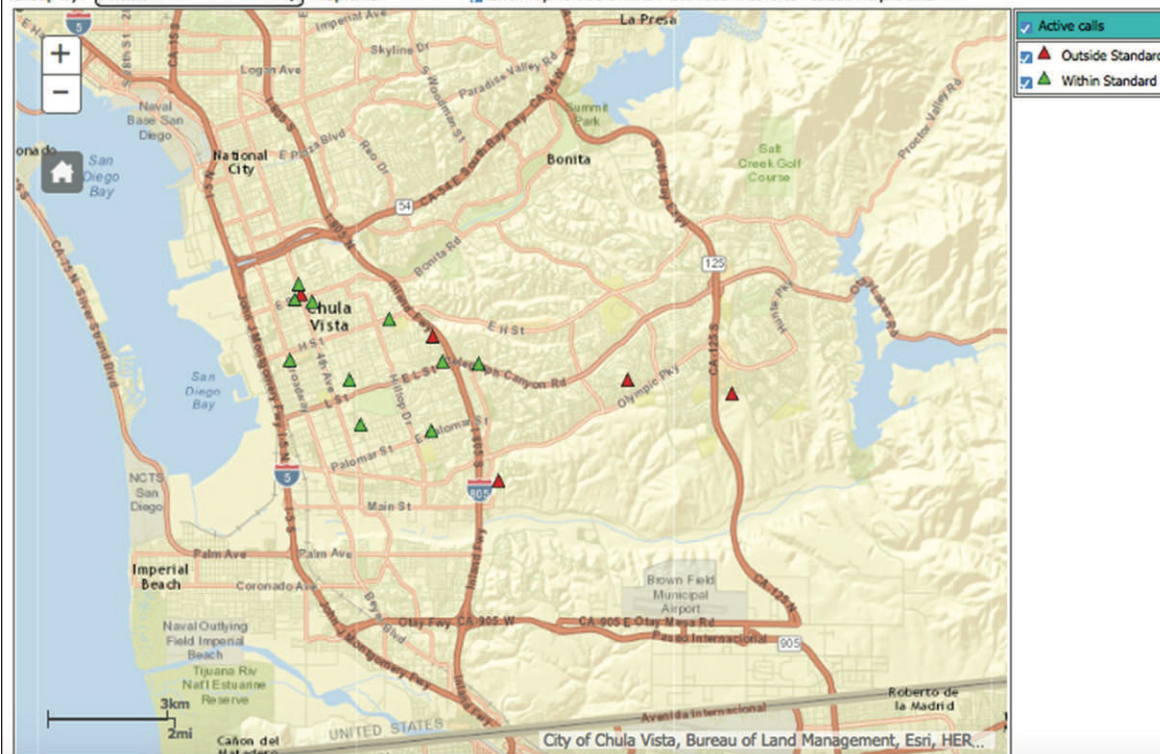
Shows the time it takes for the correct count/combination of firefighters (and equipment) to arrive on scene from the initial first alarm, measured against a pre-determined time standard set by the agency (or against NFPA guidelines)

## J-CVFD - EFF Initial 1st Alarm Time (14FF) 10:20 MapShot

Map icons displayed represent active, completed or in queue calls between the hours of 12/15/2015 and 1/21/2016 11:59:59 PM that have a valid longitude and latitude associated with it. Performance Standard = 00:10:20

Data and Report from the FirstWatch™ Internet Server

Group By: Problem Map Size:  Show up to 500 of the most recent calls to reduce map clutter. 









For 25 years FirstWatch has provided real-time, automated situational awareness visualizations & alerts for our 9-1-1, Law, Fire, EMS, Public Health, and Homeland Security customer partners (across the US).



## HELPING MORE HELPERS

Expand your FirstWatch data view by including other regional partners

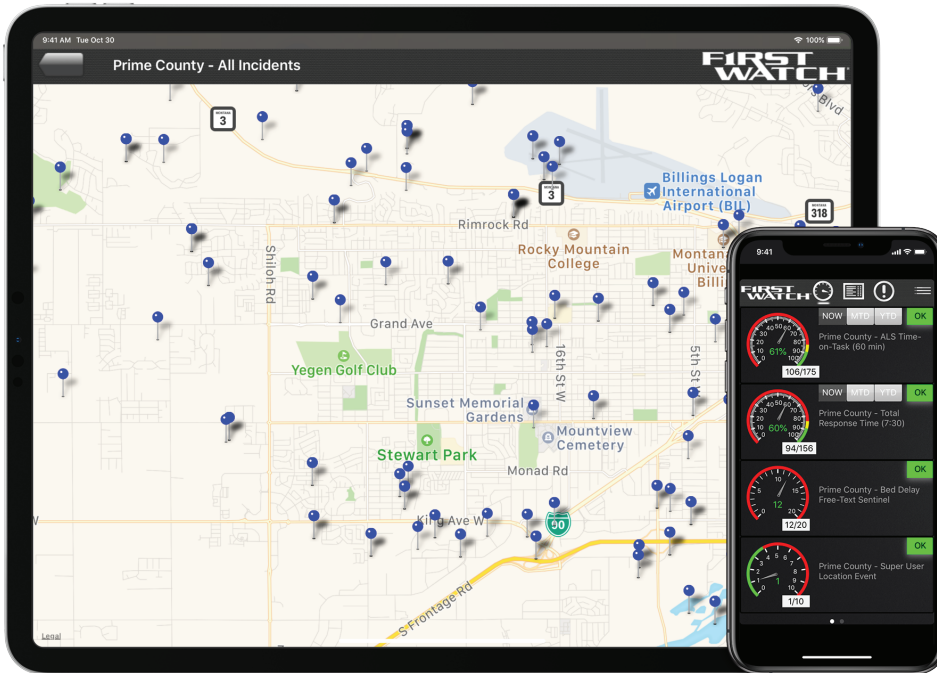
We're Helping MORE Helpers than ever before! Our FirstWatch customer partners are **strategically leveraging their investment in FirstWatch tools and technology** by inviting other Public Safety agencies (dispatched via the same CAD, or using same ePCR, RMS, or ProQA data systems, or even completely disparate CADs, or different ePCR, RMS, or other data systems). Using FirstWatch, all teams can share data & benefit via automated, real-time situational awareness, data visualizations, and automated alerts across the entire operational area, region, or even State!

# FirstWatch Mobile App for iOS and Android



## Real-Time Dashboards for:

- Situational Awareness
- Response Times and KPIs
- Clinical and Operational Performance
- Automated Alerting
- Regional Data Aggregation and Sharing
- Bioterrorism
- Pandemic/Public Health Surveillance



**DOWNLOAD the FirstWatch App  
for iPhone, iPad, Android Phone, and Tablet**



Apple Devices

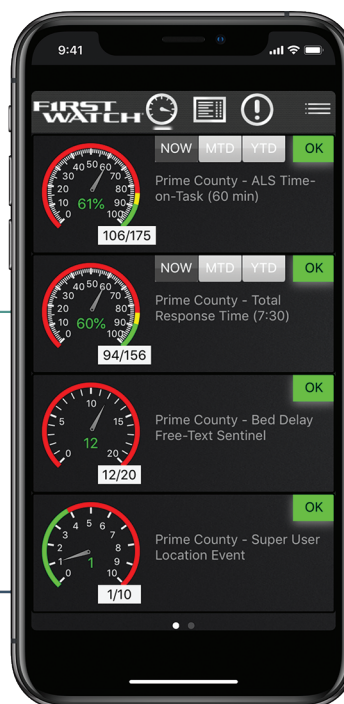


Android Devices

Trending and  
Performance  
Based Gauges



Ability to  
Drill-Down into  
the Details  
of each Trigger



Real-Time Alerts  
Right on  
your Phone



Trigger Status



Easily Swipe to  
View Additional  
Triggers



# Product Innovation Awards



Todd Stout

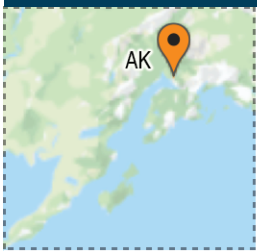


Mike Taigman

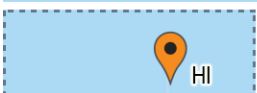


Check out our COVID-19 handout to see how we are helping

## FIRSTWATCH® Helping the Helpers through COVID-19



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