



OROVILLE DAM SPILLWAY

February 2017 to ???



Super Bowl 50

Santa Clara, CA - February 7th, 2016

Technology & Situation Awareness Lessons Learned



Chris Ingram
Fire Captain
Santa Clara County Fire
Department

Goal of Webinar

- Technology and Operational Lessons Learned
 - Oroville Dam Spillway
 - Super Bowl 50
- Interactive- don't be afraid to ask questions.
 - Side panel chat
- Educate
- Intterra's Situation Analyst (SA)
 - how it is used daily

Thank You – Santa Clara County Fire



Chris Ingram
Fire Captain
12+ years experience



- Fire Chief Kenneth Kehmna
- Established 1947
- Covers 128.3 Sq. Miles
- 15 Fire Stations
- 288 Fire Personnel
- 2016
 - Approximately 18,000 calls
- Auto Aid:
 - Palo Alto FD
 - Mountain View FD
 - San Jose FD
 - Santa Cruz County FD
 - Woodside FD



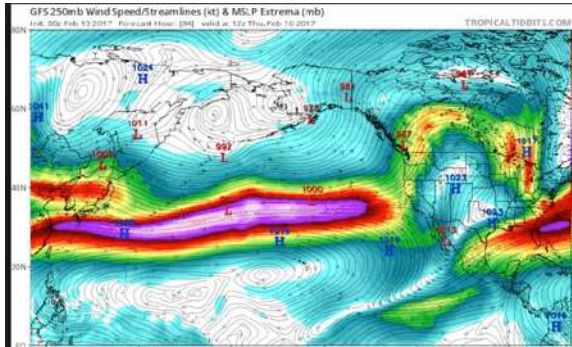
Do you recognize any of these?



Apple Park
New HQ



Oroville Dam: The Facts



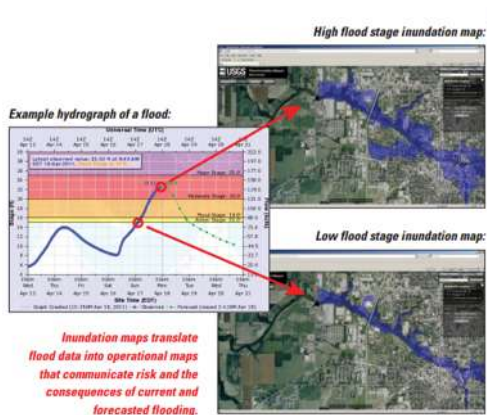
Bad Weather & Heavy Rains



Road Closure & Damage



Mudslides & Structure Damage



Inundation Data

- Catastrophic Dam Failure
- Emergency Spillway Failure

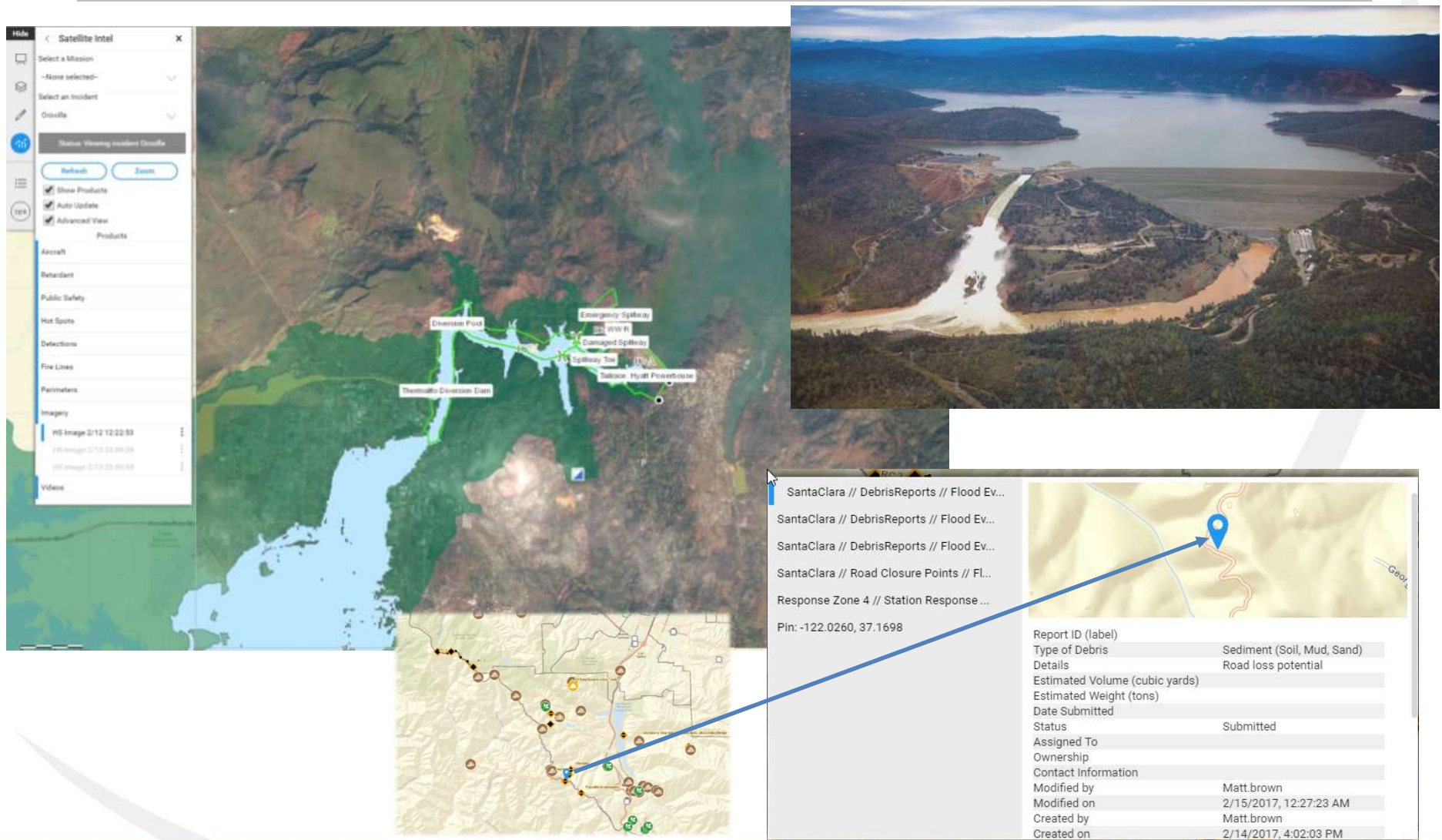


Emergency Spillway
1st Time Used



Mandatory Evacuation: 188,000
Traffic Jams

SCCFD Technology in Action



Oroville Lessons Learned

- Real Time Information Gathering
- Auto-enroll users in the system using URL Link
- If Spillway did fail, we could quickly
 - Map issues
 - Share info
 - Prioritize response
 - Track resources
- Ease of Use- no training needed
- Bring in other data easily (Traffic, Weather, Inundation, imagery, etc..)

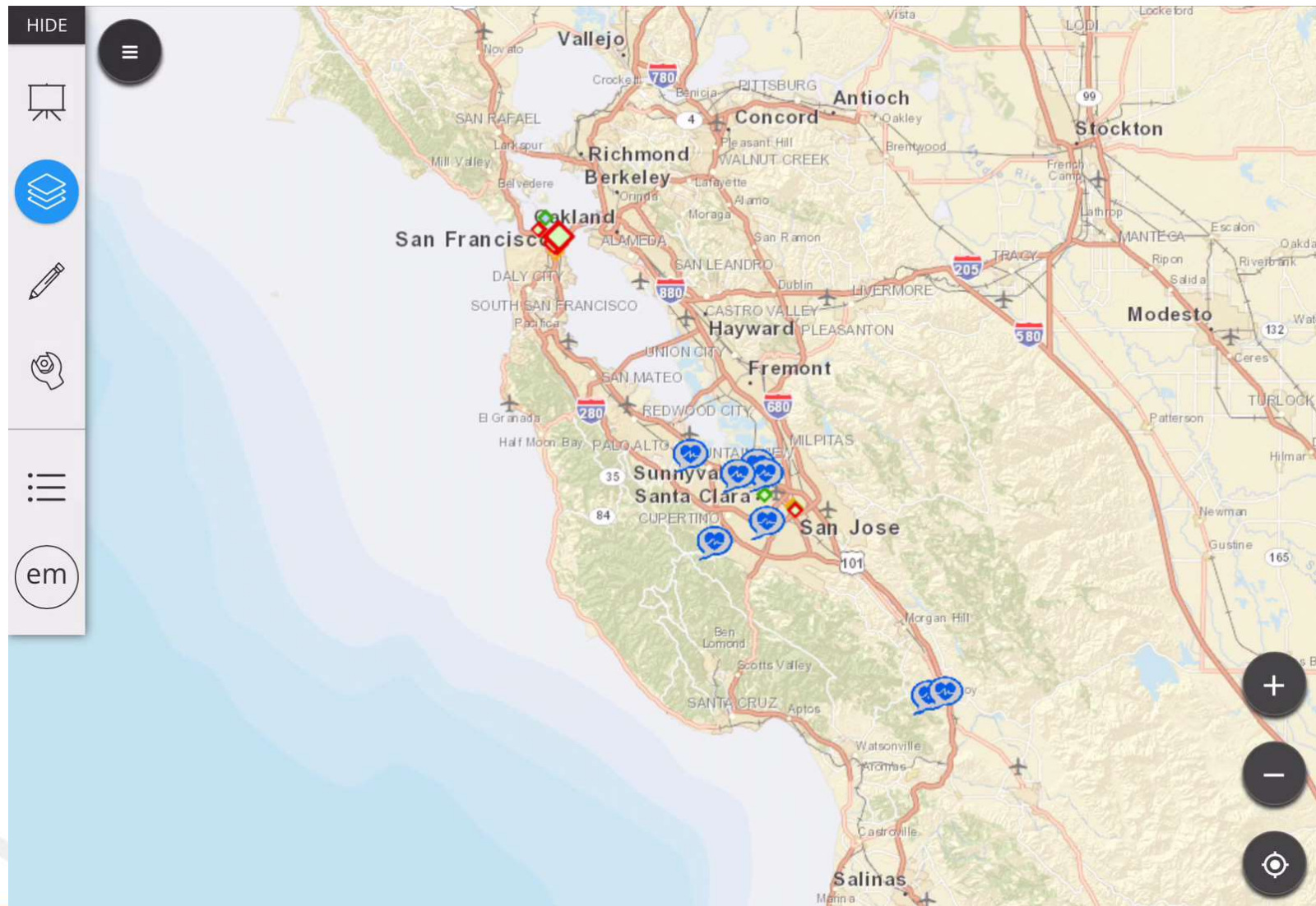




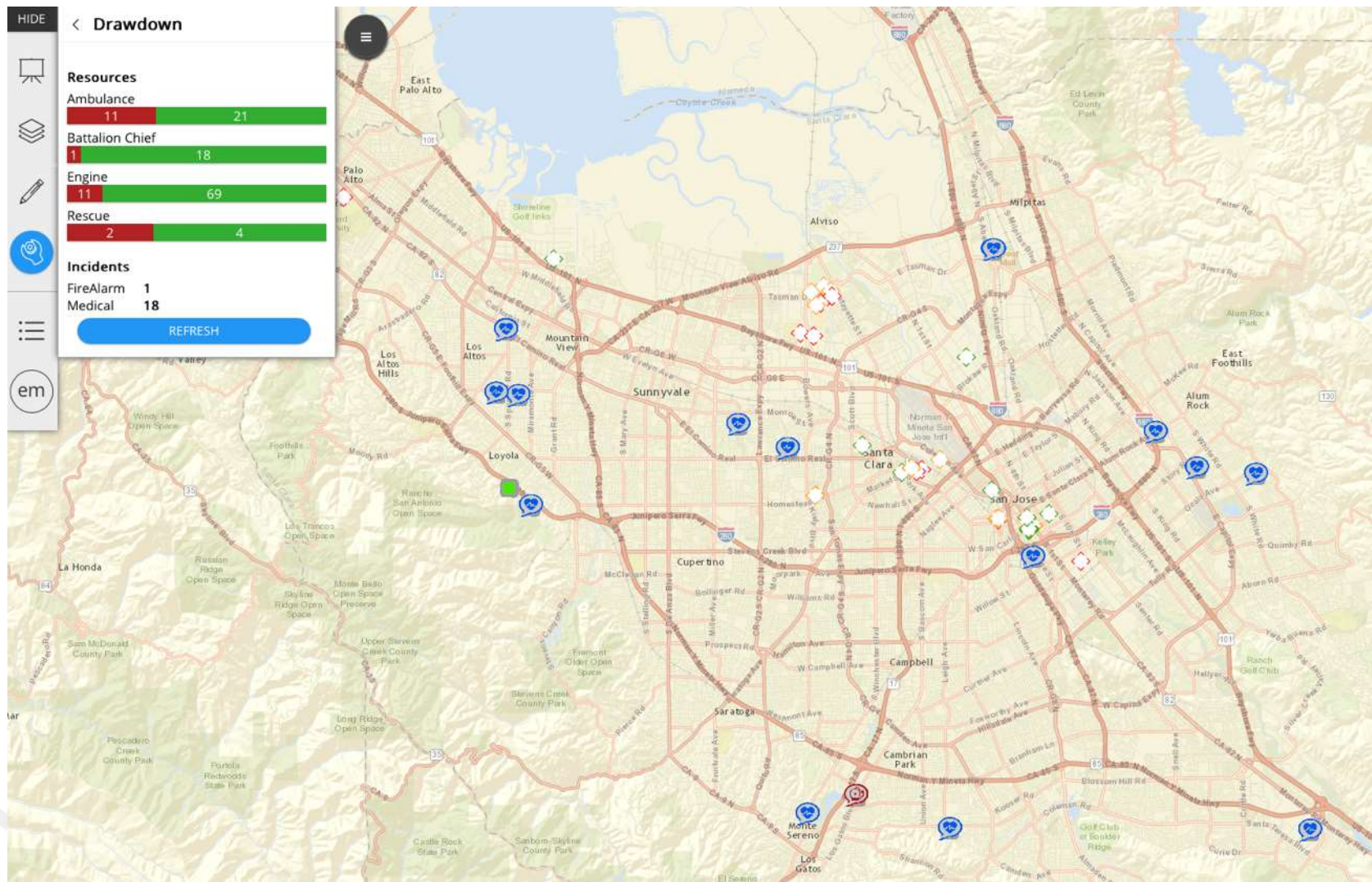
- Between Jan 30 & Feb 7th -2016, **7.1 Million** fans and locals in Bay Area
- 100+ NFL Events
- 60+ Federal, State and Local Agencies
- Protests



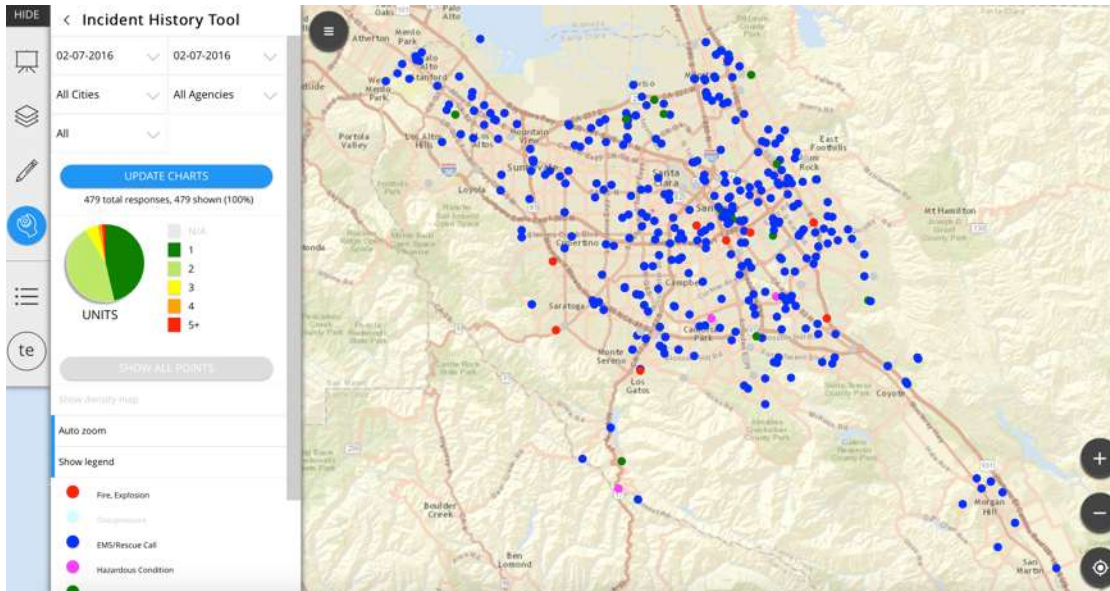
SCCFD Technology in Action



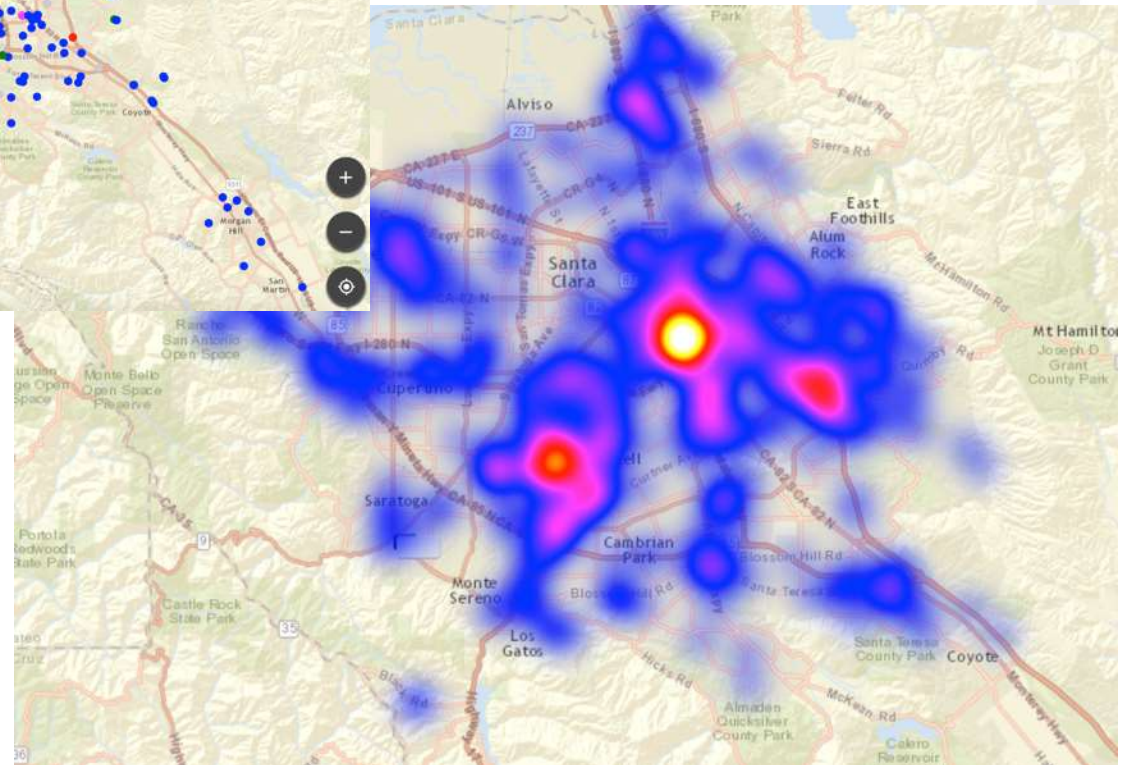
SCCFD Technology in Action



SCCFD Technology in Action



Historical data and call density



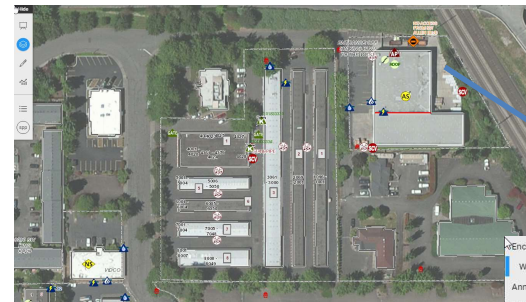
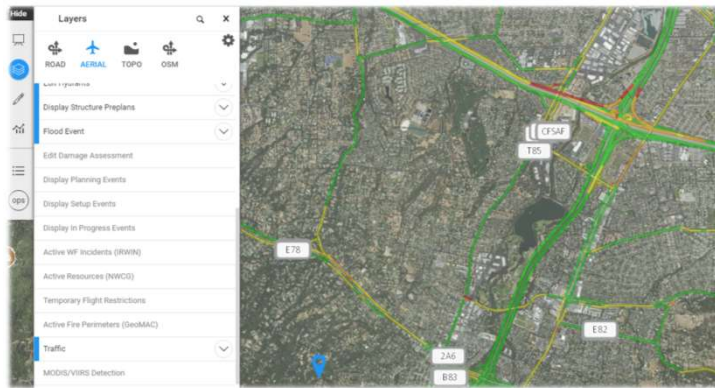
Sat. Feb 6, 2016:
18% increase in 911 responses
compared to an average Saturday
Fri. Feb 5, 2016:
8% increase in 911 responses
compared to an average Friday

Super Bowl Lessons Learned

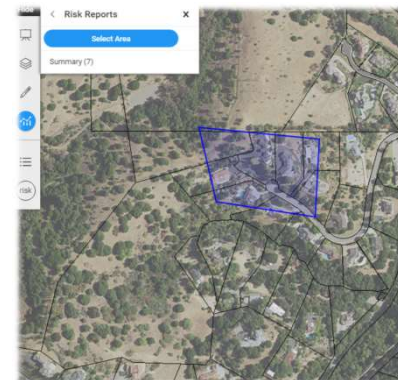
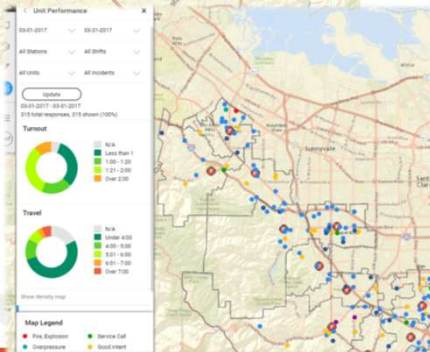
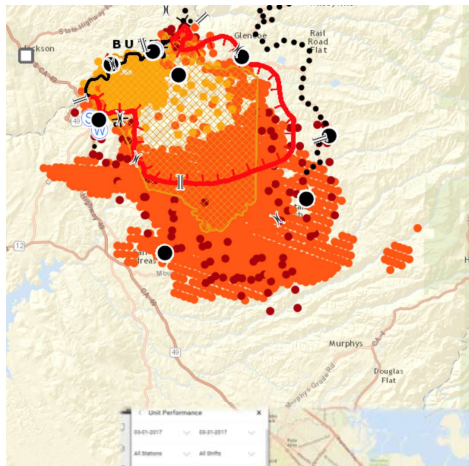


- Time Enabled Events data on map
 - Events displayed on the map while they were in progress
- Operational Area/County wide CAD incident feed
- Historical Data to compare increase in call volume and heat map
- Drawdown Tool for Resource Availability
 - Haz Mat Teams, USAR Teams, Engines, Trucks, Etc..
- Real Time Information Gathering
 - Mobile Users (Public Safety and Event Personnel)
- Auto-enroll users in the system using URL Link
- Install SA Field Tool on any device and could use like AVL Data and collect data
 - All out-of-county mutual aid tracked for deployment

Day to day Operations



Completion Status	Complete
Plan ID	5788B-075-000_TLV_WSH
Plan Name	WOODFEATHERS
Previous Name	ALLEN BV
Site Address	11040 SW ALLEN BV
Structure Category	General
Area Type	F
Critical Infrastructure	F
CIP Status	
Size Up of Feature	
Link (URL, Document or Image Path)	5788B-075-000_TLV_WSH.pdf
Make Map Grid	Yes
Station Area	
Last Feature Modified On	
Floor Number	
Map Label	
Comments	
Show Feature on Public Map?	



Summary Wildfire Risk Assessment	
Structures	
Total Primary Structures	7
Number of Outbuildings	0
Wildfire Risk Assessment Summary	
Extreme	0
Very High	0
High	0
Moderate	0
Low	7
Ingress/Egress to Community	
At least 2 ways in and out	
Hazards to Firefighter Safety	
Total Hazardous Properties	0
Overhead Power Risk	0
Pest Risk	0
Propane or Gas Risk	0
HazMat Risk	0
Solar Electric Risk	0
Access Risk	0
Poor Escape Risk	0
Extreme Hazard	0

REMEMBER LCES - DEFEND WITH CAUTION - ALWAYS ACCOUNT FOR FIREFIGHTER SAFETY

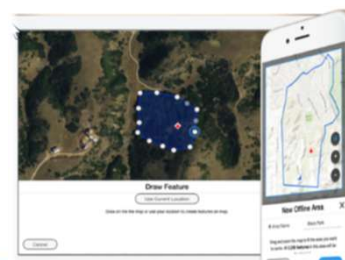
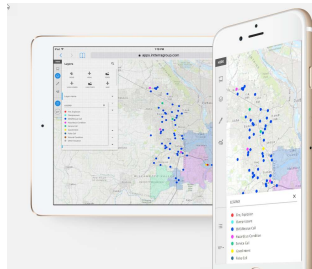
Situation Awareness: Plan, Execute, Analyze



- Any Device Anywhere (online/offline)
- Mashup of All Critical Events
- Instant Analytics for Triage
- Real Time Data Sharing
- Post Incident Review
- Connect your systems

- CAD
- RMS
- AVL
- EPCR
- GIS
- Fire Plans
- Weather
- Traffic
- Other critical data

Better-Happen-Faster



Thank You



Questions