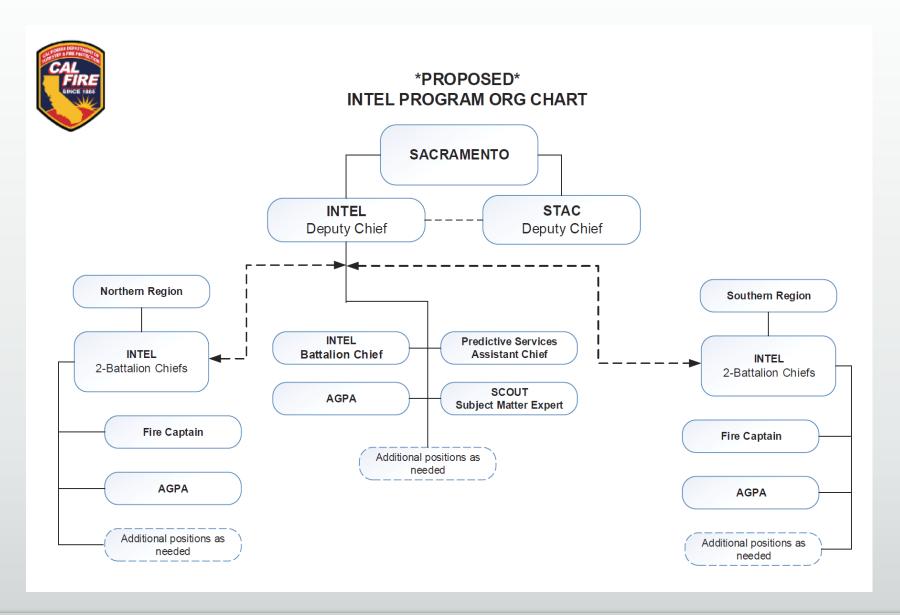


# CALFIRE Seasonal Outlook 2020

# **INTEL Program**





#### **INTEL Program**

#### **Pre-Incident:**

Fuels treatment areas, CAL Mapper, ESRI – AGOL GIS products

#### **Incident occurring:**

**Report on Conditions** 

**FireGuard** 

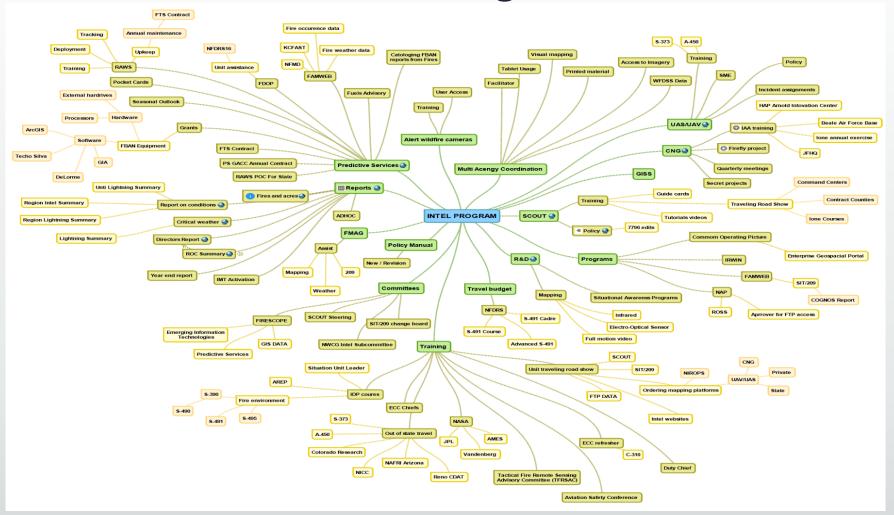
IR / mapping for situational awareness

#### **Post-Incident:**

**WERT, Damage inspection** 



## **INTEL Program**





# RFI2 Request for Innovative Ideas





### RFI2 Request for Innovative Ideas

#### Problem Statement

- First responders and decision makers are faced with challenges of **early wildfire detection**, ability to adequately **dispatch** the most **appropriate emergency resources** to the scene and the ability to make **public notifications**.
- They are further challenged to make a definitive **prediction of the path of travel of a wildfire** based on the materials or fuels burning, the current and predicted weather factors based on California's climate zones and micro climates and the topography.

#### Procurement Sprint Goal

 Provide working-solution deployments in 2019 and final awarded deployments by spring 2020.

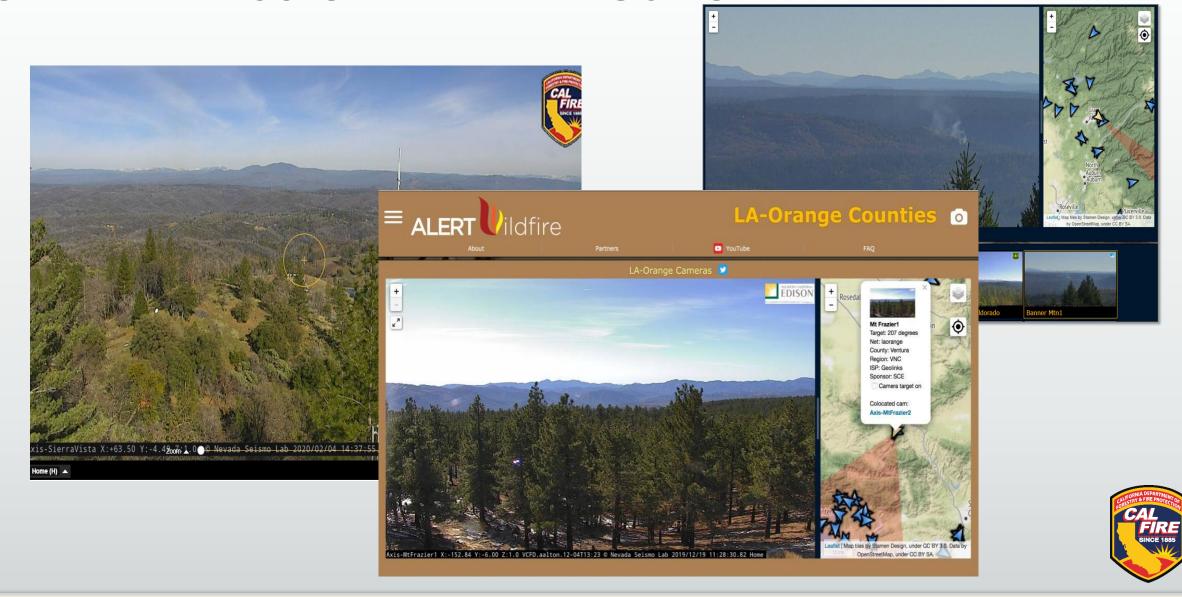


## RFI2 Request for Innovative Ideas



Wildfire modeling in seconds

#### **CAL FIRE 100 CAMERA PROJECT**



#### **ALERT Wildfire Cameras**





#### **CAL FIRE 100 CAMERA PROJECT**

50 by 5/1/20

30 more by 8/1/20

Last 20 by 10/1/20

All of the 100 locations will be mutually agreed upon by CAL FIRE and UCSD/UCR



#### California National Guard FireGuard

- This fire season the California Military Department will be supplying CAL FIRE with Incident Awareness and Assessment(IAA) information from multiple platforms to extract the best intel.
- Through out the month of May, region intel staff will be scrutinizing the fire information for accuracy and early detection effectiveness.
- Beginning 1 June-Intel will relay the Fire Detection Information to the appropriate ECC via phone notification followed with an email containing the Spot Report and KML
  - KML is a file format used to display geographic data in an Earth browser such as Google Earth



#### REMOTE SENSING ASSETS

- MQ-9
  - HQ's at March AFB
  - 3 hour flight to most of CNR
  - Over most incidents for about 8 hours
  - Provides real time video and perimeter mapping
  - Requires a COA remote operated
- RC-26
  - Staffed aircraft, not requiring a COA
  - Approximately 3 hours over incident
  - Provides video and perimeter mappingonce landed

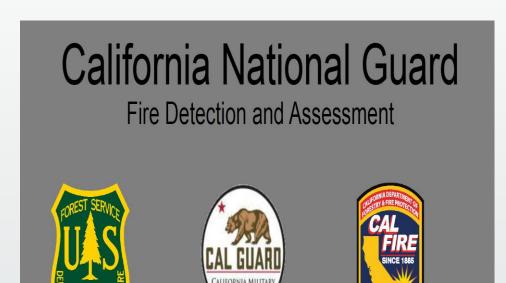






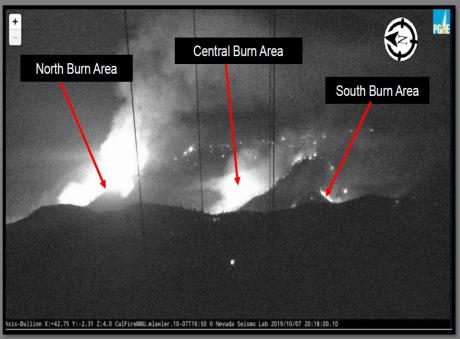
#### REMOTE SENSING ASSETS CONT.

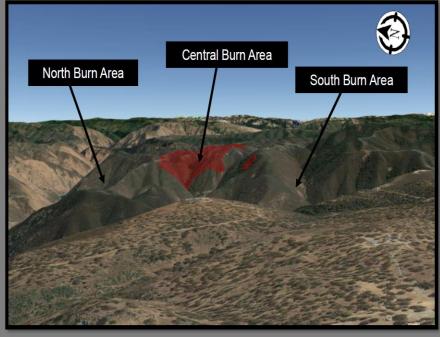
- Fire Guard IAA (Incident Awareness Assessment)
  - Monitoring entire State for new starts
  - Spot Reports
    - Currently report to Intel
  - Intel will report to ECC with
    - Lat/Long
    - County
    - DPA
      - Will report to ECC in the future
      - Geo-referenced PDF
        - Usable in Avenza
      - Intel reports to Unit Duty
        - Email D/C and ECC





# Briceburg Terrain Association to Axis – Bullion Camera





(07OCT2019 at approximately 2018HRS)



Camera field of view from Axis -Bullion Briceburg Fire

(08OCT2019 at approximately 0100HRS)



**Detection Area** 

**FIREGUARD** 

**UNCLASSIFIED//FOR OFFICIAL USE ONLY** 

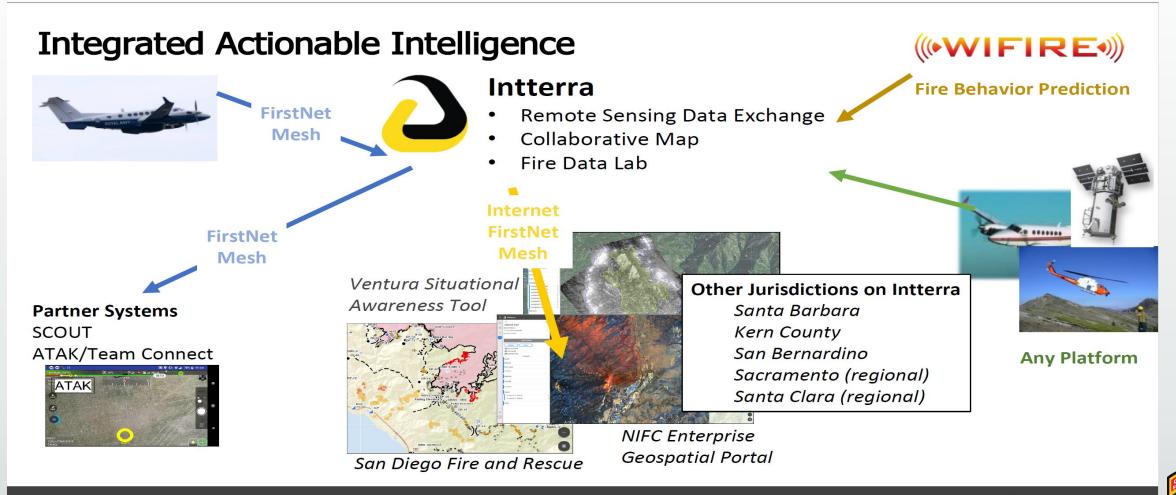


#### **HADR PROJECT**





## Fire Integrated Real-Time Intelligence System

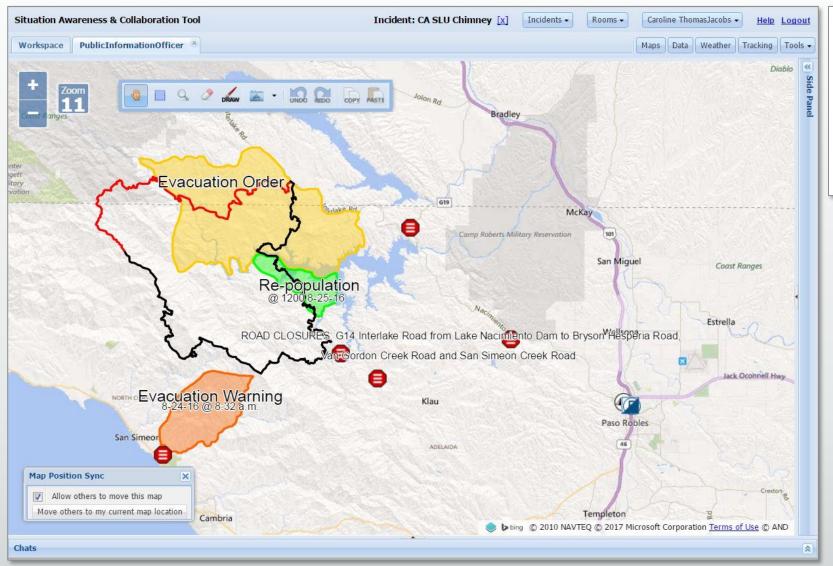








#### **EXAMPLE INCIDENT**







#### REMOTE SENSING ASSET USER GUIDE

Fire Imagining Capability Guide

2018

#### Pacific Southwest Region

Human Aiding Technology Infrared Enhanced Aircraft

