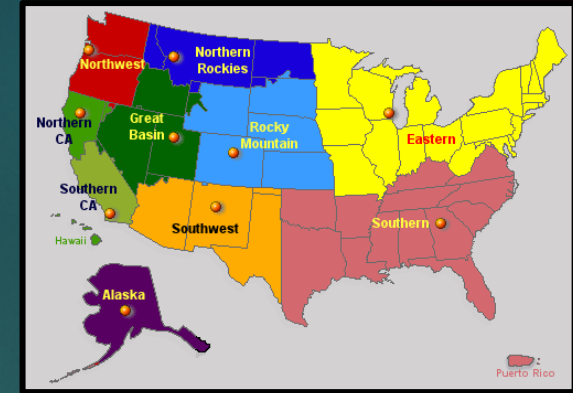




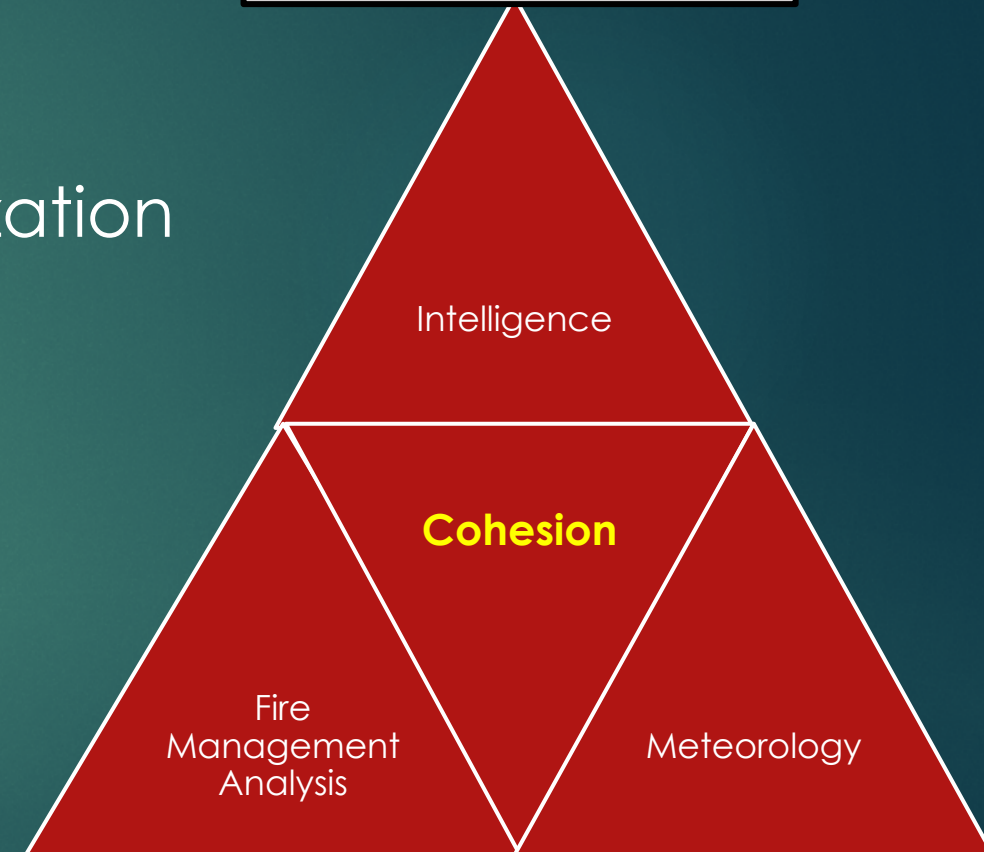
# Predictive Services

JUNE 22<sup>ND</sup> 2020 FIRE RESTORATION GROUP MEETING

# What is Predictive Services?



- ▶ Intelligence
  - ▶ Track fire business-resource mobilization
- ▶ Weather
  - ▶ Predict weather patterns/assess climatology-fuel conditions
- ▶ Fire Management Analyst
  - ▶ Put it all together



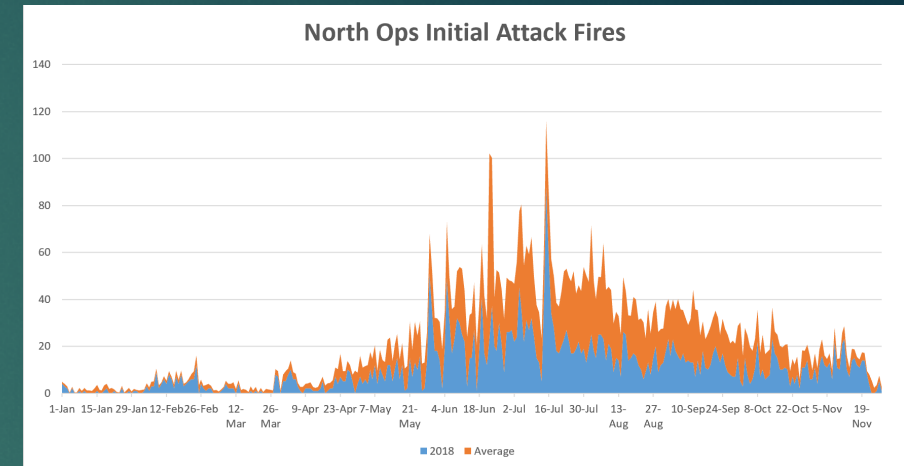
# Predictive Service Purpose

- ▶ 2000 Fire Plan intent: Provide decision support to Geographical and National Leadership.
  - ▶ Strategical planning (short & long range)
    - ▶ Analytics and assessments (fire behavior, fuels, critical weather, climatology, resource availability)

**Net Effect: Support preparedness decisions**

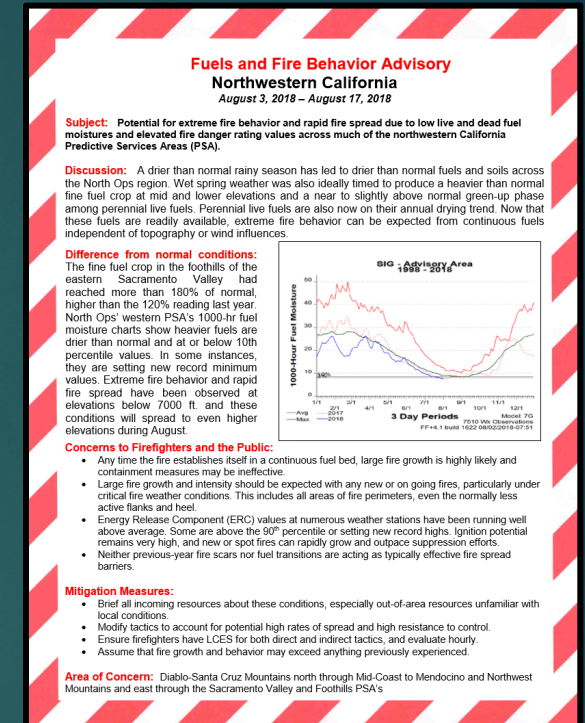
# Leveraging Predictive Service

- ▶ Daily Situation's Report & News-Notes
  - ▶ General and Large fire activity/Planning Lvl
  - ▶ RX get shut down due to limited resources
- ▶ 7 Day Significant Fire Potential
  - ▶ Four tiered risk
  - ▶ Planning Lvl
  - ▶ Confidence
- ▶ Webcast
  - ▶ Weather and fuel info (3-5 min)
  - ▶ Confidence
- ▶ Smoke Transport and Stability Outlook
  - ▶ General ventilation trends (1-5 days)
  - ▶ Highlight clean-out and stagnant air periods



# Leveraging Predictive Service

- ▶ Daily 1300 smoke call
  - ▶ General weather assessment
  - ▶ Project and incident discussions
- ▶ Fuels charts
  - ▶ Track NFDRS indices and outputs
  - ▶ Updated daily
- ▶ Fuels and Fire Behavior Advisories
  - ▶ Highlight critical-unusual fuel/fire behavior alignments
- ▶ Seasonal Outlooks
  - ▶ Look out 4 months
  - ▶ Significant fire potential



**Net Use: Situational Awareness**

# Summary

- ▶ PS provides guidance for preparedness
- ▶ PS interprets and looks for “gotcha” periods
  - ▶ Critical Weather-Fuel alignments
  - ▶ Unusual fire business
- ▶ PS products-services could be used to interpret “fringe” burn windows
  - ▶ Site specific regional burn ban waver
  - ▶ Where are most critical wind speeds within a designated High Risk-Red Flag area
  - ▶ Unusually high confidence in a weather pattern beyond the normal confidence horizon