

Roles for AI in Wildfire Resilience in California

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California Wildfire Crisis



Palisades Fire—CAL FIRE Flickr

- Palisades + Eaton Fires:
 - 30 Fatalities
 - 16,251 Structures destroyed
- Camp Fire, 2018
 - 85 Fatalities
 - 18,804 Structures destroyed
- Matilija Fire: 1932, 220K acres
- Cedar Fire: 2003, 273K acres



Policy Response



- More firefighters
- Expand and updated aircraft fleet
- New technology
- Interagency California Wildfire & Forest Resilience Action Plan
- Investments in proactive land management
 - Wood utilization
 - Workforce



Roles for AI in the Wildfire Crisis

- Early detection of wildfires
- Improved fire behavior modeling
- Enhanced community planning
- Optimized investment in land management
- Advanced firefighting technology
- New technology for vegetation management

