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**Brief history -**

**2012** – draft VTPEIR was delivered to the Board of Forestry and Fire Protection.

**2013** – the draft was open for public review.

- As a result of the various public & stakeholder concerns, the state legislature recommended that a third party review the draft VTPEIR.
- **Ca Fire Science Consortium (CFSC)** was identified for the third party review.

**2014** – CFSC provided their results to the Board of Forestry & Fire Protection and CAL FIRE.

**August 2014** – CAL FIRE established a VTPEIR Technical Team to address CFSC's recommendations.

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**Purpose of this presentation:**

- Review the current structure of the VTPEIR and highlight the areas of changes from the previous draft.

**Presentation Outline:**

- Summary of Peer Review (CFSC)
- Overall Changes from Previous version
- VTP EIR Objectives
- VTP Organization (Chapter summary review)
- Monitoring and Communication Plan
- CAL FIRE Commitment – Sac, Region and Unit
- Summary

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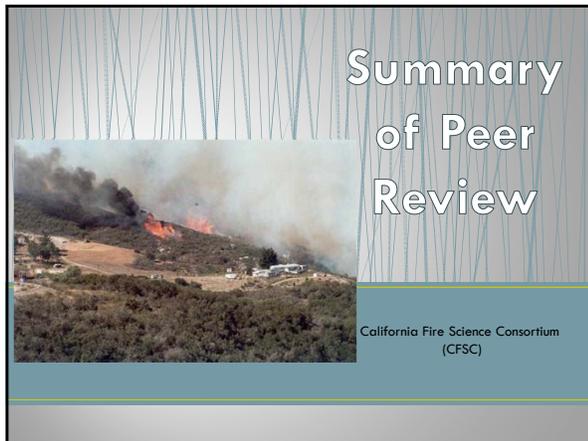
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**Summary of Peer Review**

California Fire Science Consortium (CFSC)

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**CFSC Review Summary**

- Needs to be a **science based** document
- Revise the goals/objectives (Ch. 2.2)
  - Previous draft goals were not achievable through the PEIR
- Revise the Alternatives – more realistic review (Ch. 3)
- Modify the Conceptual Framework
  - Evaluate CA within three vegetation types
    - **Tree, Grass, and Shrub** (Ch. 2.2.2)
- Organize program activities by treatment type
  - **WUI, Fuel Breaks, and Ecological Restoration** (Ch. 2.2.3, Ch. 4.1.4.2)

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**CFSC Review Summary (Continued)**

- Address the complexities of the chaparral ecosystem (Ch. 4.1.3.3)
- Identify a clear process for project level evaluation:
  - Prioritization, vegetation communities, potential fire behavior, fire regime departure, and appropriateness of different fuel treatments (Ch. 2.4, & Ch. 7 PSA)
- Tie back into the State and Unit Fire Plans (Ch. 2.2.1)
- Stronger monitoring requirements (Appendix I)

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**CFSC Review Summary (Continued)**

- VTP should support planning and collaborating efforts with private, local, state and federal stakeholders. (Ch. 2.4.2 and Ch. 7 PSA)
- Additional discussion on fire behavior and suppression effectiveness. (Ch. 4.1.3, 4.1.4.1, 4.1.4.3.1)
- More discussion on fuel reduction near communities. (Ch. 2.2.3, and Ch. 4.1.4.2+ 10 case studies of fuel treatment or planning within communities)
- Increase public transparency. (Ch. 2.4, SPR Bio-5, & Appendix I)
- Executive Summary needs to reflect the whole document

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**Overall Changes from Previous Version**

- New objectives, analysis, and alternatives
- Revised assessment of the Cumulative Effects
  - Result of the new analysis methodology proposed by CFSC
- Project Scale Analysis (PSA) incorporated into the document
  - Functions as the CEQA equivalent of an environmental checklist
- Stronger monitoring program
  - With the goal to build a formal adaptive management strategy when the Department's funding can support more rigorous monitoring
- More emphasis on the public's involvement in project design and location

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**PROPOSED VTP OBJECTIVES**



Connected to the:

- 2010 Strategic Plan
- 2012 Fire Plan

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**5 VTP Objectives** (Ch. 2.2.1)

1. Modify wildland fire behavior to help reduce losses to life, property, and natural resources.
2. Increase the opportunities for altering or influencing the size, intensity, shape, and direction of wildfires within the wildland urban interface.
3. Reduce the potential size and associated suppression costs of wildland fires by altering the continuity of wildland fuels.

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**5 VTP Objectives (Continued)**

4. Reduce the potential for high severity fires by restoring a range of native, fire-adapted plant communities through periodic low intensity treatments within the appropriate vegetation types.
5. Provide a consistent, accountable, and transparent process for vegetation treatment that is responsive to the objectives, priorities, and concerns of landowners, local, state, and federal governments and other stakeholders.

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**VTP PEIR ORGANIZATION**



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### General organization-

- Executive Summary
- Acronyms and Other Abbreviations
- Glossary
- Chapter 1 - Introduction
- Chapter 2 - Program Description
- Chapter 3 - Summary of Alternatives
- Chapter 4 - Affected Environment, Mitigation and Effects
- Chapter 5 - Cumulative Impacts
- Chapter 6 - Significant Effects and Growth Inducing Impacts
- Chapter 7 - Project Scale Analysis
- Chapter 8 - List of Preparers
- Chapter 9 - References/Work Cited
- Appendices

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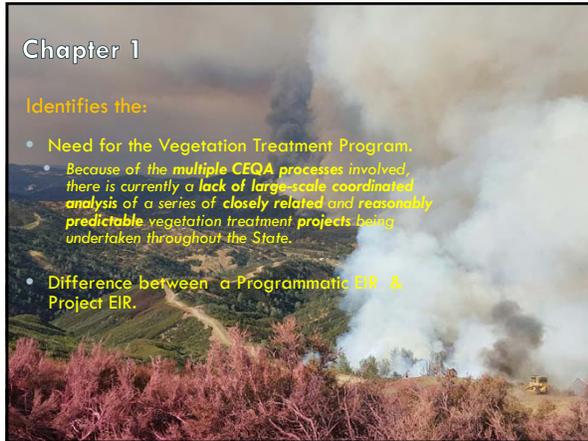
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### Chapter 1

Identifies the:

- **Need for the Vegetation Treatment Program.**
  - *Because of the multiple CEQA processes involved, there is currently a lack of large-scale coordinated analysis of a series of closely related and reasonably predictable vegetation treatment projects being undertaken throughout the State.*
- **Difference between a Programmatic EIR & Project EIR.**



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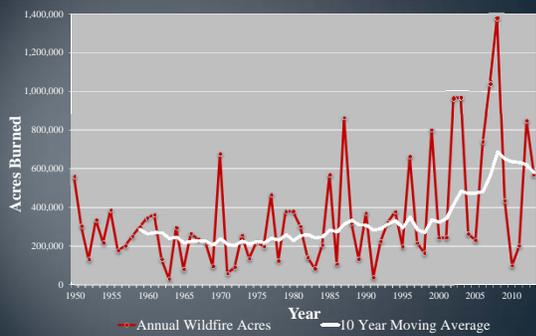
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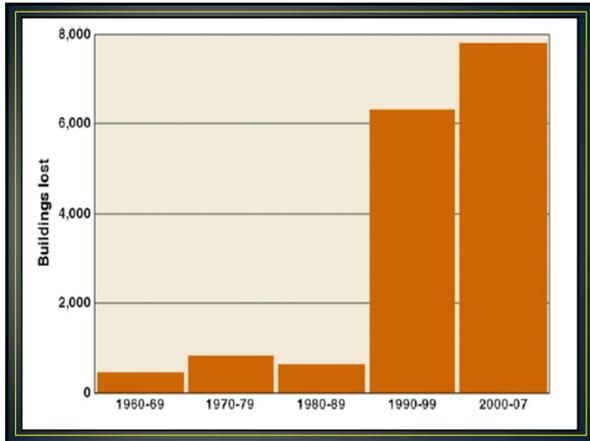
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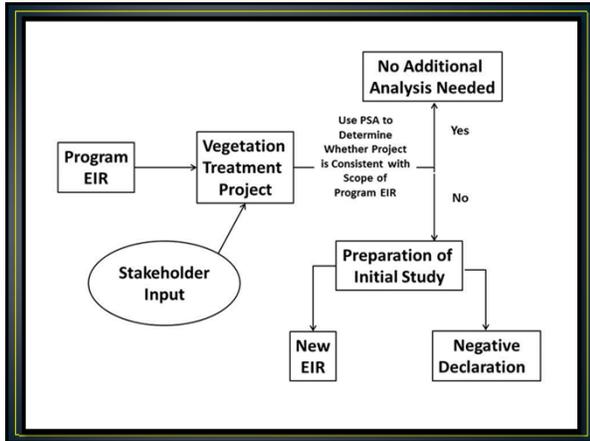
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**Chapter 2**

2.1 Program Overview  
2.2 Conceptual Framework of the VTP

- **Major Revisions** covering the Scope of the PEIR
  - 80% of requested changes are shared between **Chapter 2** and **Chapter 4**.
- Introduce the Objectives: Provide a brief description of their purpose
- Implementation Strategy
- Discuss the conceptual basis
- Outline the prioritization process for VTP projects

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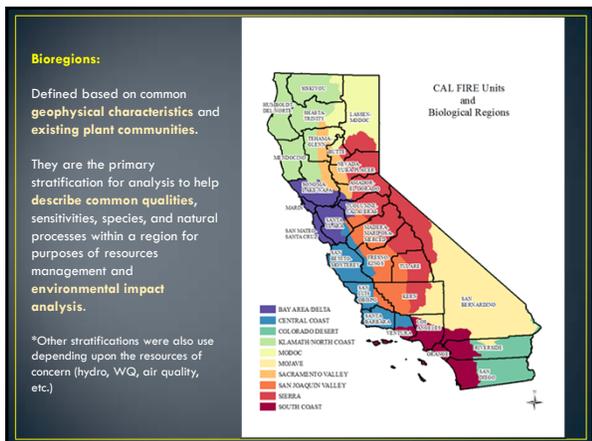
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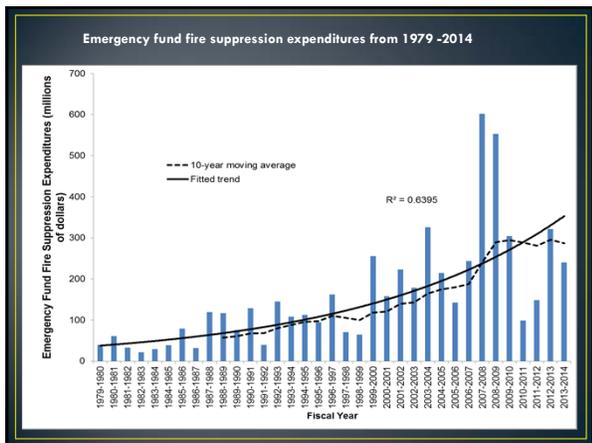
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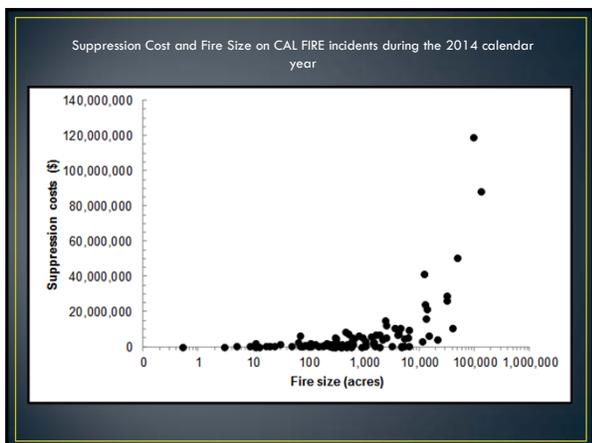
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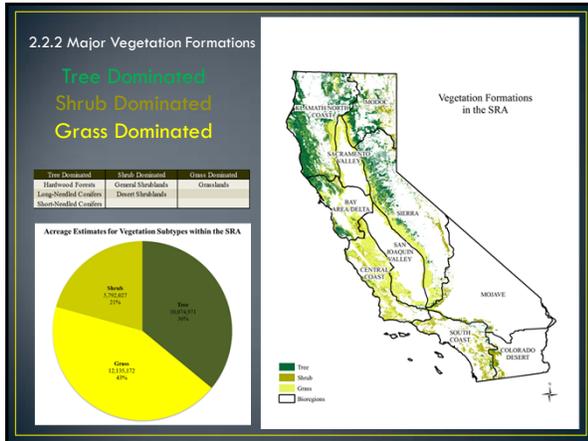
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### 2.2.3 Program Treatments:

These are delineated by the focus of the project or treatment

- **Wildland-Urban Interface (WUI)**
- **Ecological Restoration**
- **Fuel Breaks**

All project level applications must be part of a comprehensive strategy included in a local **CAL FIRE Unit Fire Plan** or **Contract County Strategic Fire Plan**

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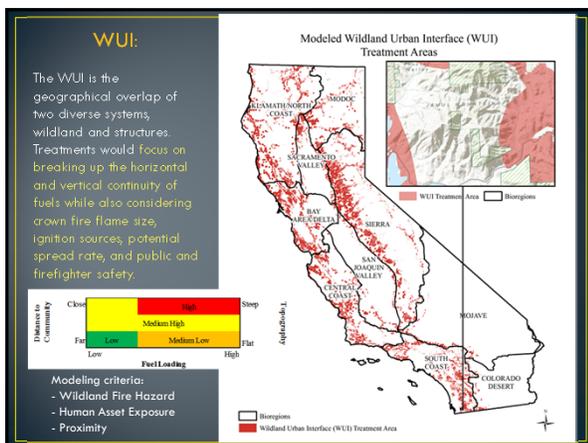
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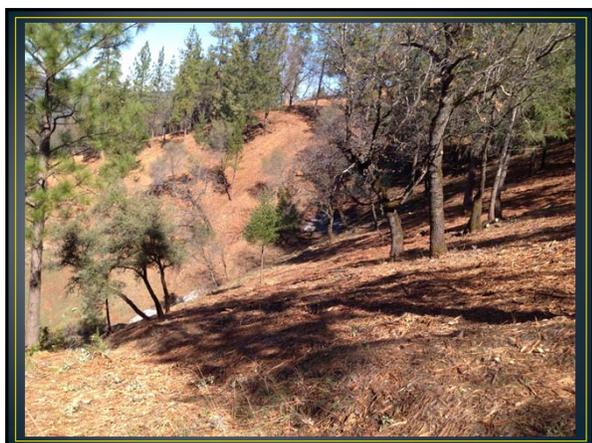
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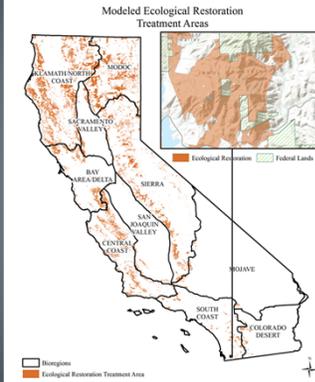
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### Ecological Restoration:

Ecological Restoration is the re-establishing of the composition, structure, pattern, and ecological processes necessary to facilitate terrestrial and aquatic ecosystem sustainability, resilience, and health under current and future conditions.

- Modeling Criteria:
- Condition Class: Departure from the natural fire regime.
  - 3 levels = Low(1), Moderate(2) & High (3)
  - The PEIR only focus on treating Moderate and High



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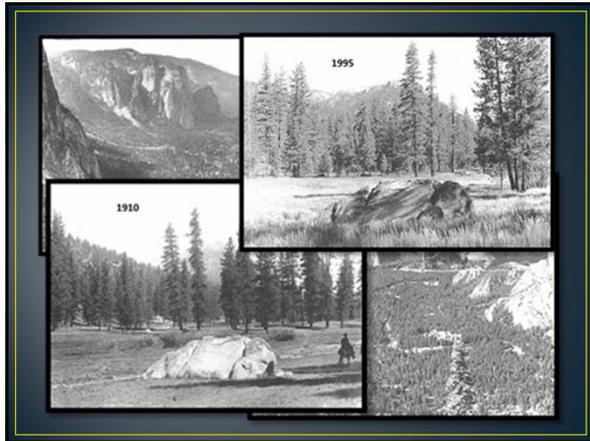
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**Fuel Break:**

Fuel breaks are an area in which flammable vegetation has been modified to create a defensible space in an attempt to reduce fire spread to structures, natural resources, other values at risk and to provide a safer location to fight fire. These treatments can be a part of a series of fuel modifications strategically located along a landscape.

Modeling Criteria:

- Condition Class
- 300' strips along ridgelines and roads.

**Modeled Fuel Break Treatment Areas**

The map shows the state of California divided into several regions: Klamath/North Coast, Modoc, Sacramento Valley, Bay Area/Desert, Sierra, San Joaquin Valley, Central Coast, Nevada, South Coast, and Colorado Desert. A legend indicates that dark grey areas represent 'Modeled Fuel Breaks' and green areas represent 'Federal Lands'. An inset map shows a topographic view of a mountainous region.

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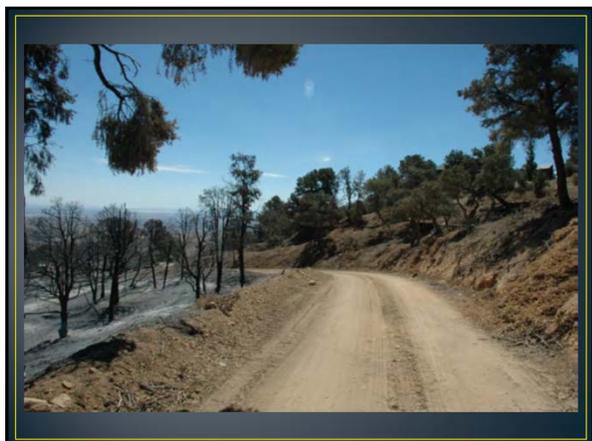
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**Project Examples and Case Studies**

**CASE STUDY**  
Peterson Fire: July 12-15, 2004

**July 12, 2004**

On July 12, 2004 in Eastern Fresno County a wildfire broke out near the town of Peterson. The fire quickly spread through the area and on the 13th it was a large, well-developed fire. The fire was contained on the 15th. The fire was quickly extinguished by the nearby community fire department.

**Before Treatment**

**After Treatment**

**Before Treatment**

**After Treatment**

The purpose of this project was to reduce the fuel of slash for the Peterson fire and to reduce the risk of future fires. The project was completed in 2004. The project was completed in 2004. The project was completed in 2004.

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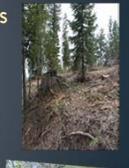
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**2.2.4 Description of Activities**

- Prescribed Fire –
  - Pile & Broadcast burns
- Mechanical
- Manual
- Herbicides
- Prescribed Herbivory




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### 2.3 Scope of the VTP

- Total acres in CA = 101,450,537
- SRA = 31,098,109 acres
- VTP area available for treatment under this PEIR = 24,878,369 acres

WUI = 11,724,246 acres  
 Fuel Break = 4,536,236 acres  
 Ecological Restoration = 8,617,787 acres

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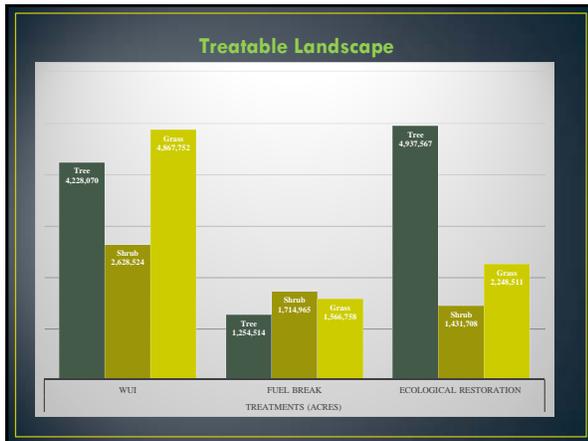
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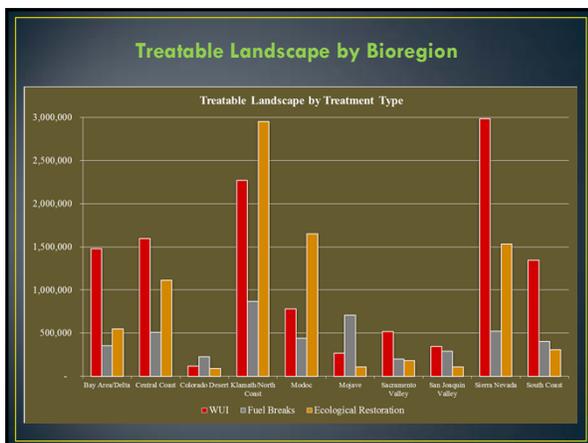
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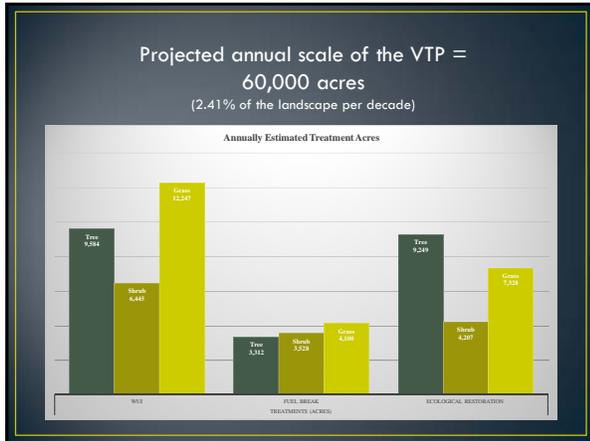
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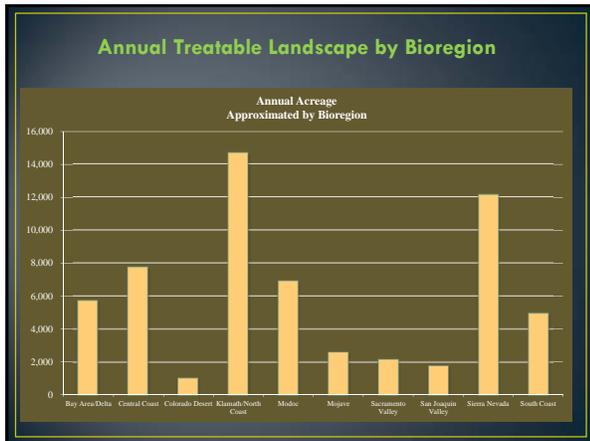
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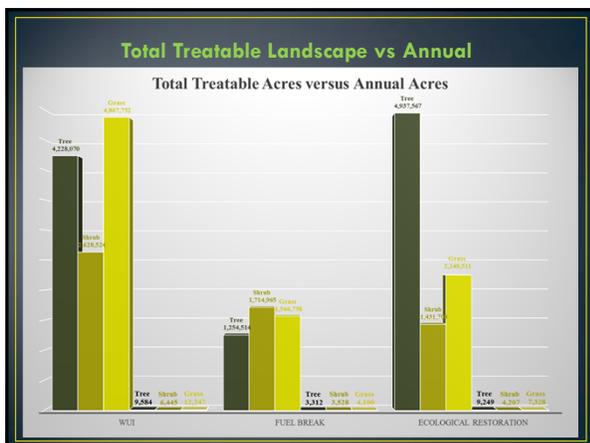
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### Estimated number of projects each year by treatment type in each vegetation type

Vegetation Type	Treatments (projects)		
	WUI	Fuel Break	Ecological Restoration
Tree dominated	37	13	36
Shrub dominated	25	14	16
Grass dominated	47	16	28

Estimate approximately 231\* projects/year –

WUI = 109 treatments year      Tree dominated = 86  
 Fuel Break = 43 treatments year      Shrub dominated = 55  
 Ecological Restoration = 80 treatments year      Grass = 91

\* Numbers may not add correctly due to rounding.

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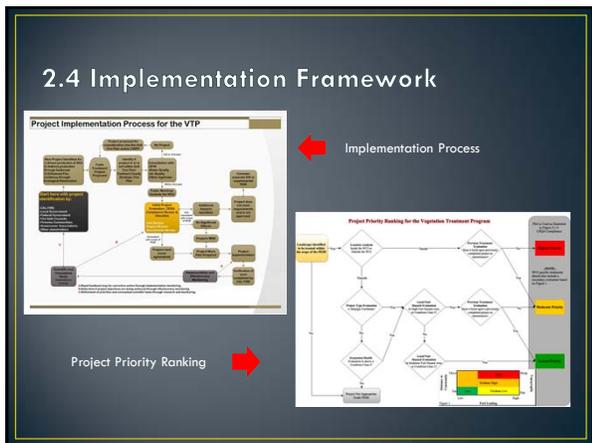
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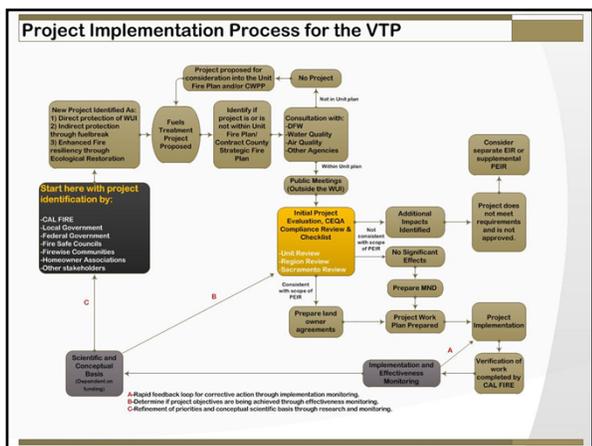
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## 2.6 Areas of Controversy

- Impacts to air quality
- Impacts to chaparral communities
- Impacts to water quality, biological resources and human health
- Impacts to geological features and soils erosion
- Impacts from herbicide applications
- Spread of invasive plants
- Potential for loss of life, property and resource values due to escaped prescribed fire
- Increasing the amount of treated acres to help mitigate climate change
- Meeting the diversity and complex needs of the state
- Impacts to cultural resources.




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## Chapter 3 - Alternatives

**No Project:** This alternative represents the "No Project" alternative required by CEQA. Focus on using existing programs.

**Proposed Program:** WUI, Fuel Breaks, and Ecological Restoration

**Alternative A: WUI Only:** The WUI Only Alternative would focus vegetation treatments specifically in areas that would protect assets within the WUI.

**Alternative B: WUI and Fuel Breaks:** In addition to vegetation treatment efforts designed specifically to protect values within the WUI, fuel breaks would also be maintained or installed in favorable topographic locations to aid in wildland fire control efforts outside of the WUI.

**Alternative C: Very High Fire Hazard Severity Zone:** CAL FIRE is mandated by Public Resources Code 4201-4204 and Government Code 51175-89 to identify fire hazard severity zones statewide. To reduce the wildland fire threat in high hazard areas, fuel treatments under Alternative C would focus specifically on areas that are classified as a "Very High Fire Hazard Severity Zone."

**Alternative D: Treatments that Minimize Potential Impacts to Air Quality:** Limiting prescribed fire.

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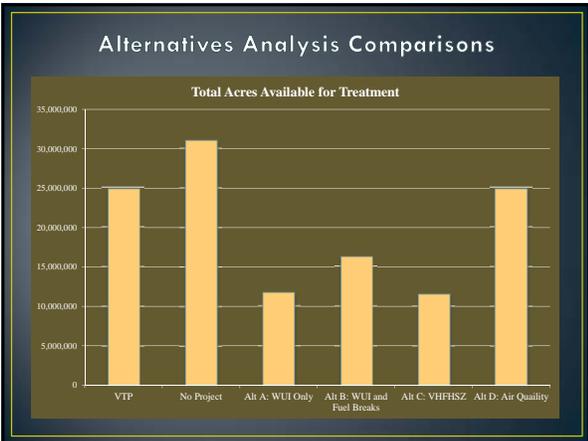
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### What is covered under the analysis –

**Discussion of:**

- Affected Environment (legal driving force and general current condition)
- Environment effects (environmental impact analysis of the proposed program on various resources)
  - Follows CEQA Appendix G
    - **Significance criteria** we are required to address
    - Identify **Thresholds** that are applicable to analyzing the significance criteria.

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### Chapter 5 – Cumulative Effects Analysis

Summary of Significant Cumulative Effects Potential for the Proposed Program

Resource Area	Proposed Program		
	Yes after mitigation	No other mitigation	No reasonably potential significant impacts
Biological Resources			X
Geology, Hydrology, and Soils			X
Hazardous Materials			X
Water Quality			X
Archaeological, Cultural and Historic Resources			X
Noise			X
Recreation			X
Utilities and Energy			X
Transportation and Traffic			X
Population, Employment, Housing, & Socio-economic Wellbeing			X
Air Quality		X	
Aesthetics and Visual Resources			X
Climate Change			X

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### Chapter 6 - Significant Effects and Growth Inducing Impacts

The VTP is projected to treat **0.2%** of SRA/year & **2%** within a 10-year planning horizon.




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## Monitoring & Communication Plan

The MCP includes the following basic components:

- A mechanism for **introducing independent science** into the VTP;
- A **requirement to geospatially track project implementation over time**;
- **Implementation monitoring** to provide a rapid feedback loop for corrective action at the project scale;
- **Qualitative project effectiveness monitoring** to communicate **"lessons learned"** during VTP implementation;
- **Post-incident effectiveness monitoring**;
- An **annual workshop** in each CAL FIRE Region to communicate Program implementation, effectiveness, and "lessons learned" to stakeholders;
- A **goal to implement "active" adaptive management** by securing dedicated funding for research effectiveness and validation monitoring.

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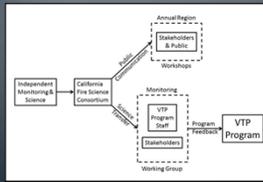
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Resource monitoring is generally broken into the following categories:

- **Program Trend Monitoring**
- **Implementation Monitoring**
- **Photo-Point Effectiveness Monitoring**
- **Post-Incident Effectiveness Monitoring**



VTP Treatment Example (Prop 40 funds):  
Musick Creek Fuel Treatment Project  
(Fresno County near Shaver Lake)

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## Implementation Checklist -

California Department of Forestry and Fire Protection  
**VTP Implementation Monitoring Checklist**  
 The purpose of this checklist is to determine if the Standard Project Requirements (SPR) and any Project Specific Requirements (PSR) have been properly incorporated into the project.

Project Name: \_\_\_\_\_  
 CAL FIRE Unit: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Project Coordinator and Contact Information: \_\_\_\_\_

Treatment Type:  R/G  Fuel Treats  Ecological Restoration

Notes: \_\_\_\_\_

SPR #	Description	Addressed	Project Stage	SPR #	Description	Addressed	Project Stage
1	Design Features & Standard Project Requirements (SPR)			1	SPR 1: "California's forests are state-owned and state-managed. Forests are a public resource and are managed for the benefit of the people of California."		
2	Does the administrative framework implemented in the project?			2	SPR 2: "Forest management plans shall be developed and approved by the Board of Forestry and Fire Protection."		
3	Is the project consistent with applicable laws and regulations?			3	SPR 3: "Forest management plans shall be developed and approved by the Board of Forestry and Fire Protection."		
4	Do the project objectives adequately describe the impacts to be avoided?			4	SPR 4: "Forest management plans shall be developed and approved by the Board of Forestry and Fire Protection."		

This type of monitoring determines whether management actions were carried out as planned.

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### PHOTO-POINT EFFECTIVENESS MONITORING

Photo-point monitoring is a standardized procedure for documenting rates of change, and is an effective communication tool for education and public outreach.

All projects under the VTP will require at least two pre- and post-treatment photos for each activity type (e.g., prescribed fire, mechanical, etc) in the project.



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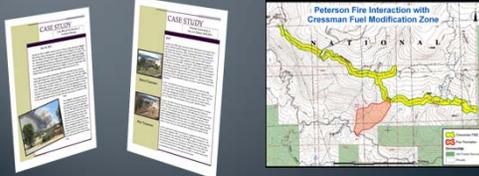
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### POST-INCIDENT EFFECTIVENESS MONITORING

- **Option 1:** An additional element of reporting will be added to the post incident action summary (PIAS) to detail if and how existing fuel treatments are used in fire suppression activities.
- **Option 2:** Unit SRA/VMP Foresters and Pre-Fire Engineers (PFEs) will report to VTP administrators when fuels treatments are used in fire suppression activities.



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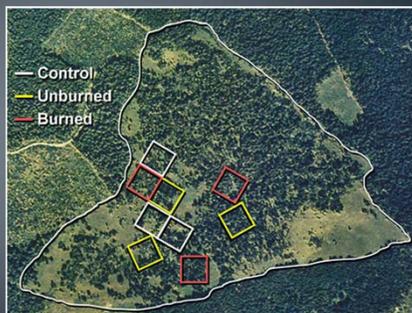
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### Commitment to Pursue Funding for Formal Adaptive Management



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### Communication

- PROJECT NOTIFICATION AND PUBLIC MEETINGS FOR PROJECTS OUTSIDE THE WUI
- PROJECT IMPLEMENTATION NOTIFICATION FOR PRESCRIBED BURNS
- ANNUAL REGION WORKSHOPS
- VTP MONITORING WORKING GROUP
  - Stakeholder driven process to identify critical questions to answer through adaptive management



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CAL FIRE Commitment – Sac, Region and Unit

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### Commitments under this proposed program

- **Unit Level**
  - First level of project review (SRA/VMP Forester, Unit Chief)
  - Project development (SRA/VMP Forester)
  - Unit Fire Plan updates (Unit Chief, PFE)
  - GIS data entry and updates (SRA/VMP Forester or PFE)
  - Implementation monitoring (SRA/VMP Forester)
  - Project Notification & Public Meeting (SRA/VMP Forester)
  - PIAS Fuels Treatment Report
- **Region Level**
  - Second level of project review
  - Work with Sacramento on annual regional workshops
- **Sacramento Level**
  - Third level of review
  - Program oversight
  - Work with Region on annual regional workshops
  - VTP Monitoring Working Group

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## Summary

- Revised objectives
- More realistic set of Alternatives
- Redesigned Conceptual Framework
  - Built upon the vegetation typing and treatment/project types (WUI, Fuel Break and Ecological Restoration)
- The program is tied into the State and Unit Fire Plans
- Program supports planning and collaboration with all stakeholders
- Built upon increasing public transparency
  - Comprehensive Implementation process, priority ranking and public outreach.
- Comprehensive Project Scale Analysis.
- Stronger monitoring requirements

Every project must be part of a comprehensive and strategic plan accounted for in a CAL FIRE Unit Fire Plan or Contract County Fire Plan

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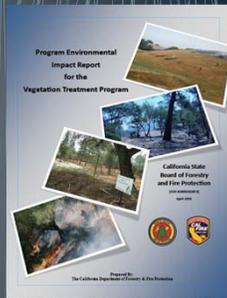
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Questions?



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