



U.S. Department of the Interior
Bureau of Land Management

Northern California Climate Adaptation Project Webinar 2022 05 03

STRENGTHS ASSESSMENT

CLIMATE ADAPTATION PRODUCTS

PROCESS: Systematic Assessment by Affected Ecosystem Stewards

SYNTHESES for 15 Species Groups and 18 Key Ecosystems

54 STRATEGIES for Adaptation to Climate Change

145 POSSIBLE ACTIONS: A Portfolio of Options

6 MODEL ADAPTATION PLANS



CLIMATE CHANGE RESPONSE

Goals

- Reduce carbon emissions in agency operations
- Increase carbon storage in agency ecosystems
- Maintain productivity of ecosystem services (e.g., water supply)
- Conserve climate-threatened biological and cultural diversity
- Safeguard everyone's health
- Communicate: Learning, Accountability, Effectiveness

Context

- Environmental Justice
- Equity
- Departmental Climate Action Plans



FRAMEWORKS

Climate Change Vulnerability Assessment

Climate Change Performance Score Card

R A D: Decision Making for an Uncertain Climate

Nature-Based Solutions

Creative Partnership Development



USFS Office of Sustainability and Climate

OSC Data and Tools Desk Guide

Integrating Climate Change
Information Into Land
Management Planning

August 3, 2021

A Guide for Forest Planning
Specialists, Analysts, and Coordinators





Efforts from the State of California



NATURAL AND WORKING LANDS CLIMATE SMART STRATEGY



FOCUS on

Forests

Chaparral and Other Shrublands

Wetlands

Grasslands

Sparse Vegetation: Coastal Dunes

Regarding

Native Biodiversity

Restoring Vulnerable Ecosystems

Ecological Connectivity

Carbon Storage

Avoidance of Catastrophic Fire



California Climate Change Assessment

from the California Energy Commission



CALIFORNIA'S FOURTH
CLIMATE CHANGE
ASSESSMENT

North Coast Region Report



CALIFORNIA'S FOURTH
CLIMATE CHANGE
ASSESSMENT

Sacramento Valley Region Report



+ Tools and Technical Reports of Original Research and Analysis for Climate Action

Source: <https://www.climateassessment.ca.gov>



US Global Climate Change Program

JUMP TO →
Understand
Climate Change

Assess
National Climate Assessment

Key Federal Resources
Explore
USGCRP Highlights

Reports Library
Browse
Reports & Resources

Indicators
Engage
Connect & Participate

Key Federal Resources

- **Fourth National Climate Assessment, Vol. II: Impacts, Risks, and Adaptation in the United States (2018)**
- **Fourth National Climate Assessment, Vol. I: the Climate Science Special Report (2017)**
- **State Climate Summaries** 
- **U.S. Climate Resilience Toolkit**
- **Climate Data Initiative**
- **Federal Climate Adaptation Plans**



Global Change Information System

A web-based portal serving structured global change data and information from Federal sources, with an emphasis on the National Climate Assessment.

[VIEW](#)

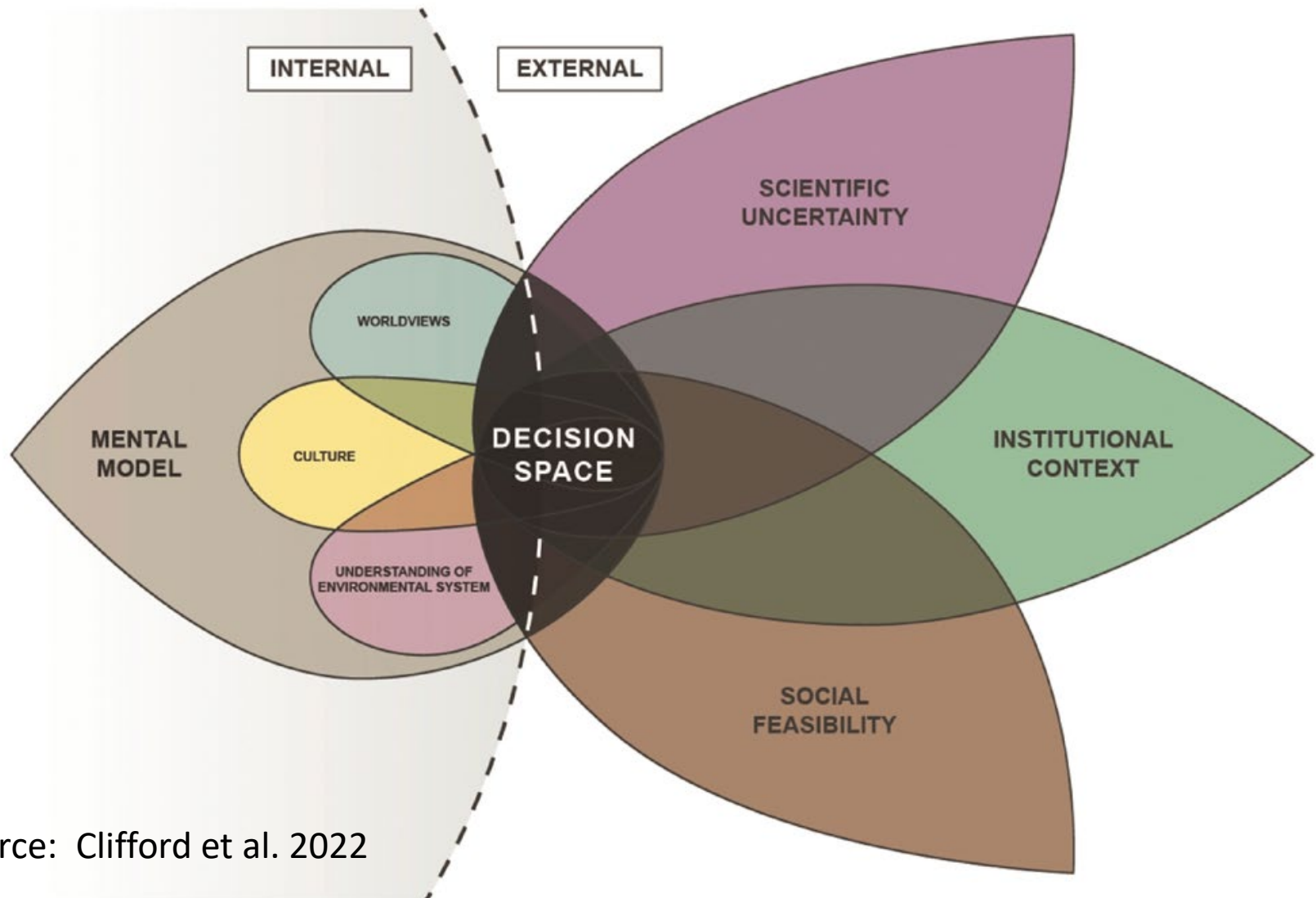
For Federal Agencies

US Global Change Research Program: <https://www.globalchange.gov/browse>

US Climate Resilience Toolkit: <https://toolkit.climate.gov/#expertise>



MANAGERS' DECISION SPACE

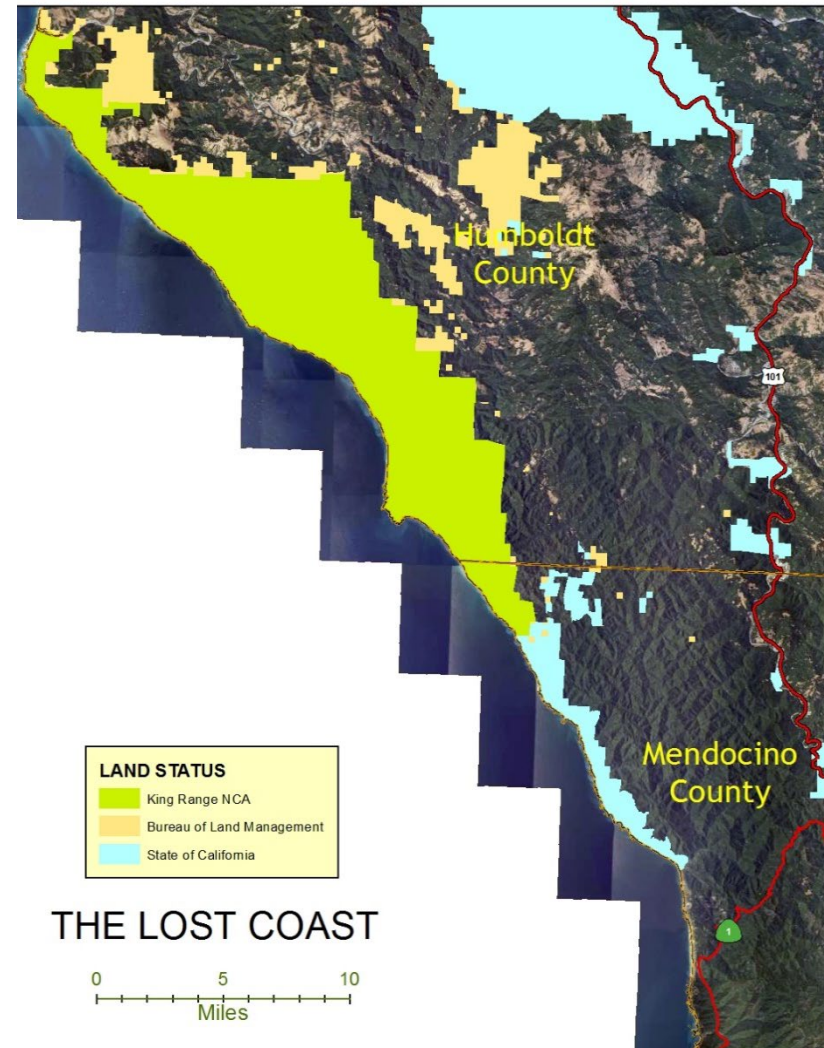


Source: Clifford et al. 2022



THINK BROADLY

- Aim to accomplish at scales larger than a single agency jurisdiction: a watershed, a landscape, a biome
- Leverage fragmentation to create partnerships to accomplish what you can't do alone
- Consider where can USFS and BLM work jointly for climate change response in northern California





BLM Land Use Planning

- Provide for BLM management actions and land use decisions that best meet principles of multiple use and sustained yield under Federal Land Policy & Management Act of 1976, as amended
- Identify goals, objectives, administrative designations, allocations for allowable resource use, and management direction

Administration and DOI Priorities

- Executive Order 14008: Tackling the climate crisis at home and abroad
 - Department of the Interior Climate Action Plan
- Conserving 30% of lands and waters by 2030
- Strengthening government-to-government relationships with Tribes
- Centering equity and environmental justice



Northwest CA Integrated RMP

- Revise the existing Arcata RMP (1992) and Redding RMP (1993) to address scientific developments, resource conditions, social trends, and Federal policy
- Planning area crosses 8 counties, nearly 400,000 acres of public lands

Preliminary Planning Issues

- Wildfires and fuels reduction
- Special-status species recovery
- Wilderness management
- Land tenure patterns and access
- Recreation uses
- Increasing population and changing land use patterns
- *Climate change, sea level rise, and ecosystem resiliency*

<https://eplanning.blm.gov/eplanning-ui/project/2012803/510>



Planning & Climate Adaptation

Connections

- Landscape-level, long-term planning
- Participatory collaboration across boundaries and scales
- Consideration of big picture tradeoffs and opportunities

Opportunities

- **Scoping:** identify relevant issues and management scenarios, stakeholder coordination
- **Alternatives:** evaluate opportunities under different management scenarios, identify range of adaptation strategies
- **Analysis:** understand big picture impacts and tradeoffs
- **Decision-making:** prioritize adaptation strategies, management framework for BLM-administered lands



NEPA & Climate Adaptation

Connections

- Site-specific resource analysis and decision-making
- Identify adaptation strategies best suited to the project location
- Weigh local tradeoffs thorough resource impact analysis

Opportunities

- **Scoping:** identify relevant issues and range of project alternatives, stakeholder coordination
- **Alternatives:** evaluate and prioritize location-specific adaptation strategies
- **Analysis:** understand project-specific impacts and tradeoffs within the larger planning context
- **Decision-making:** implement appropriate adaptation strategies



Takeaways

- Climate vulnerabilities as adaptation opportunities to build ecological and social resiliency
- Planning and NEPA processes as participatory opportunities to inform BLM's land management decisions
- Vulnerability assessment & EcoAdapt products as key tools to inform Northwest CA Integrated RMP and NEPA in Northern CA