Climate Smart Approach to Adaptive Management in the Central Valley

Welcome!

to the

First Workshop

on the

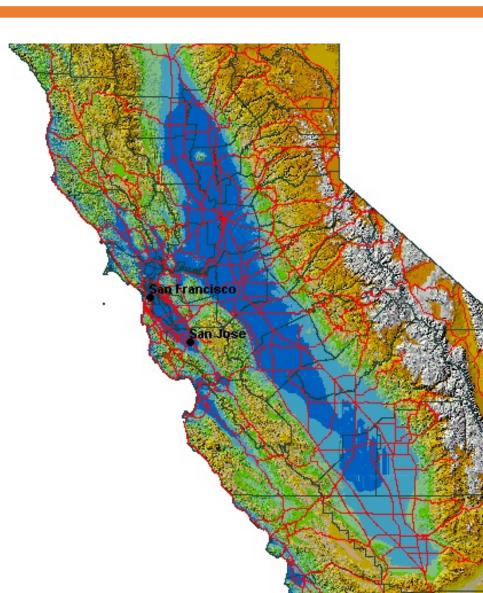
CV Landscape

Conservation Project

October 7, 2014

Debra Schlafmann
CA LCC Coordinator

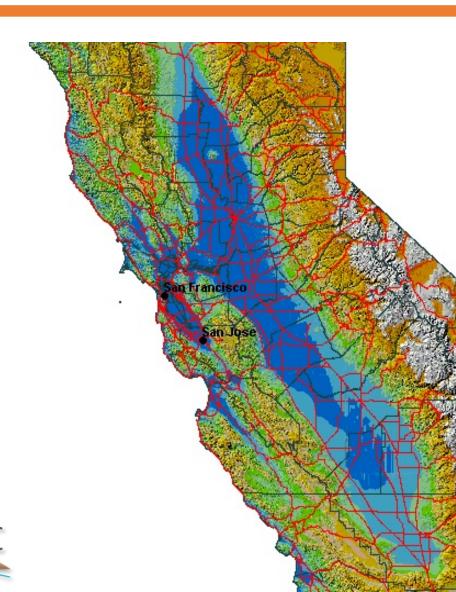




Addressing climate change in the Central Valley

Longterm, place-based strategies developed by partners will lead to:

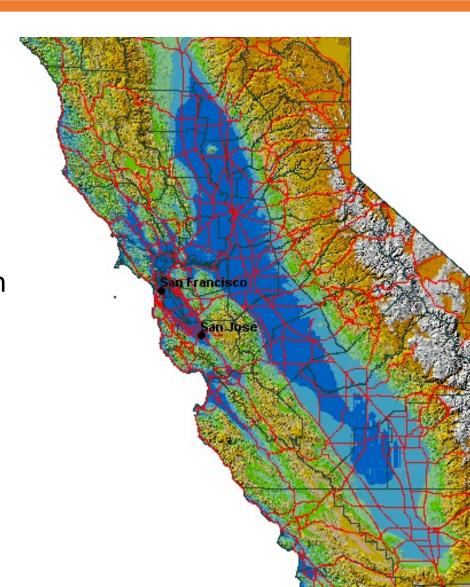
- Shared goals and objectives for Central Valley
- Adaptation actions that complement each other
- Shared resources
- Application of lessons learned to existing & future efforts



Addressing climate change in the Central Valley

Longterm, place-based strategies developed by partners will address:

- Management Decisions
- Restoration & protection
- Research & monitoring

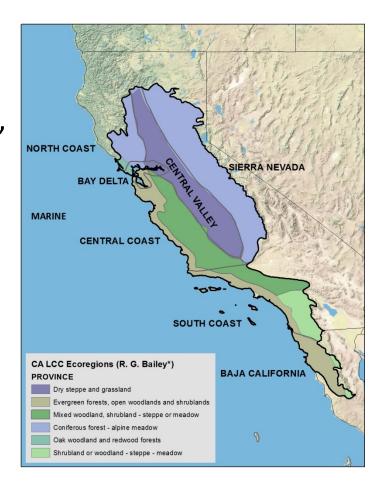






California Landscape Conservation Cooperative

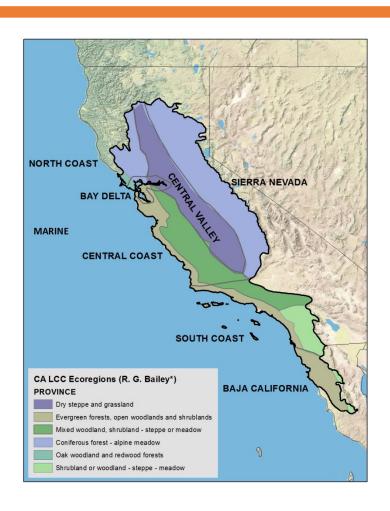
A management-science partnership created to inform and promote integrated science, natural resource management and conservation to address impacts of climate change and other stressors within and across ecosystems.





California Landscape Conservation Cooperative

- ✓ Self-directed public-private partnerships that inform management actions
- ✓ Develop jointly established conservation goal & objectives
- ✓ Provide science and technology support on a landscape scale
- ✓ <u>Links science with</u> <u>conservation delivery</u>





California Landscape **Conservation Cooperative**









■USGS

science for a changing world



























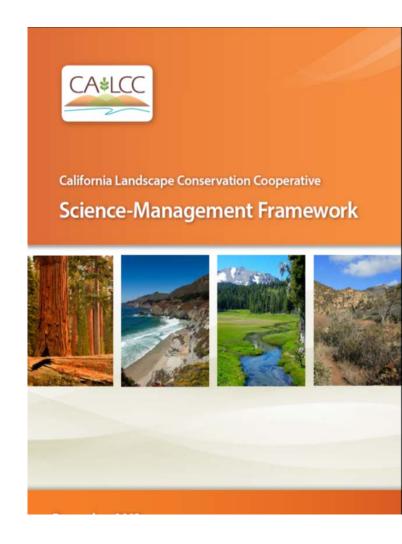






Science-Management Framework

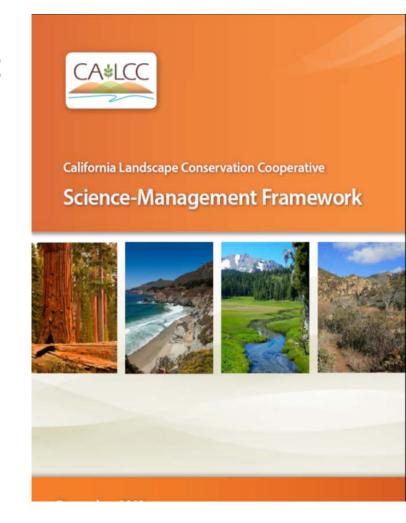
- 1. Support place-based projects across the CA LCC ecoregions
- 2. Implement ecosystem processes projects at landscape scales
- 3. Develop landscape conservation designs across the ecoregions
- 4. Evaluate and adjust based on outcomes & lessons learned





Science-Management Framework

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Central Valley Landscape Conservation Project

Debra Schlafmann, CA LCC Coordinator

Rebecca Fris, CA LCC Science Coordinator

Deanne DiPietro, CA LCC Data Manager

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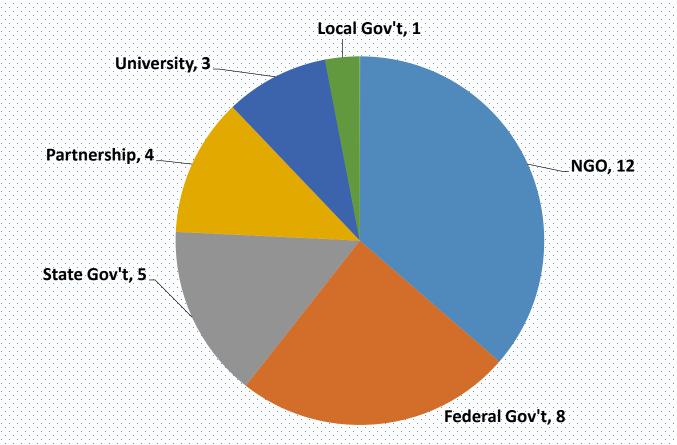
Andrea Graffis, CA LCC Communications Coordinator

Dorian Fougeres and Meagan Wylie, Center for Collaborative Policy and Facilitators of this Project

Organizations in Attendance	
Federal Government	NGO
National Park Service	American Rivers
Natural Resource Conservation Service	Audubon California
US Bureau of Land Management	California Trout
US Bureau of Reclamation	Conservation Biology Institute
US Fish and Wildlife Service	Consultant
US Forest Service	Defenders of Wildlife
US Geological Survey	Environmental Defense Fund
USDA Climate Hub	Point Blue Conservation Science
	River Partners
	The Nature Conservancy
	Tulare Basin Wildlife Partners
	Vollmar Consulting
State Government	Partnership
CA Department of Fish and Wildlife	CA Fish Passage Forum
CA Department of Water Resources	CA Landscape Conservation Cooperative
CA State Parks	California Rangeland Conservation Coalition
CA Strategic Growth Council	Central Valley Joint Venture
CA Wildlife Conservation Board	Riparian Habitat Joint Venture
University	Local Government
Sac State - Center for Collaborative Policy	CA Assn. of Resource Conservation Districts
UC Stanislaus -Endangered Spp Recovery Prgm	
UC Davis	

Categories of Organizations in Attendance

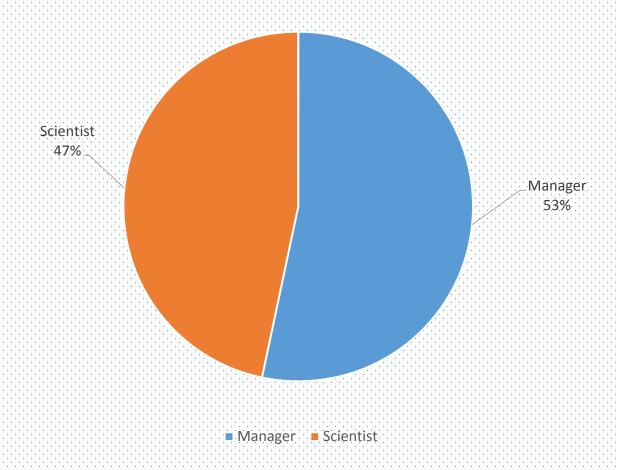
October 7, 2014



(Number indicates number of organizations in category, n=33)

Disciplines from Survey

Oct 7, 2014



(Number of responses, n=33)

Central Valley Landscape Conservation Project

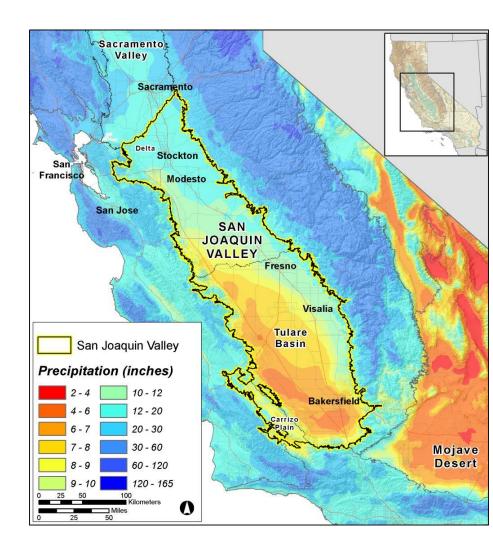
- 1. Review climate-smart process, define the project purpose, expected outcomes and deliverables
- 2. Review the projects organizational structure and work plan
- 3. Discuss and receive recommendations on how to make deliverables most useful



Climate Smart Adaptation



Assess resource vulnerability and develop adaptive management actions to address climate change impacts



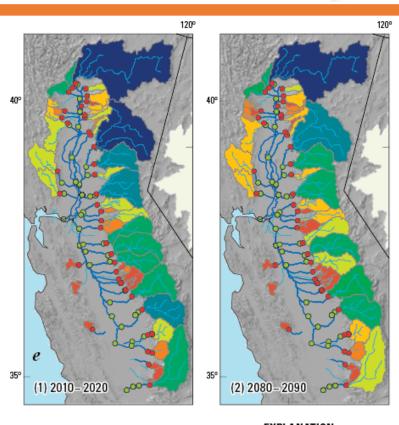
Sentral Valley Landscape

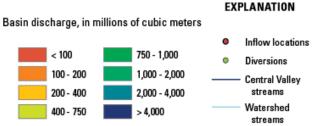
Climate Smart Adaptation



Principles:

- Future-focused
- Ecosystem context
- Adaptive and flexible
- Intentional, deliberate review of goals
- Manage for change, not persistence





Climate Smart Adaptation



Principles:

- Prioritized actions
- Partnership led
- Shared resources
 - Efficient
 - Greater progress
 - Avoid duplication
 - Synergies in actions



Why address climate change in the Central Valley?

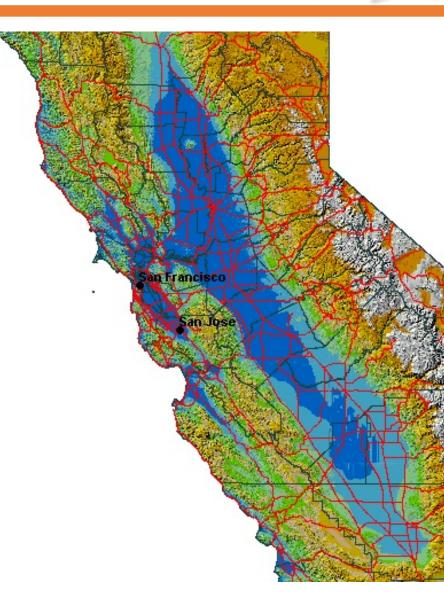


Conservation Project

Attributes of the CV:

- Intense use of resources - many in conflict with each other
- CV expected to have greatest impact from climate change
- Strong set of existing partners

....that don't always work together

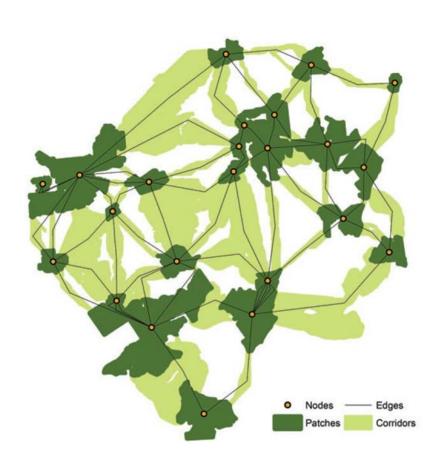


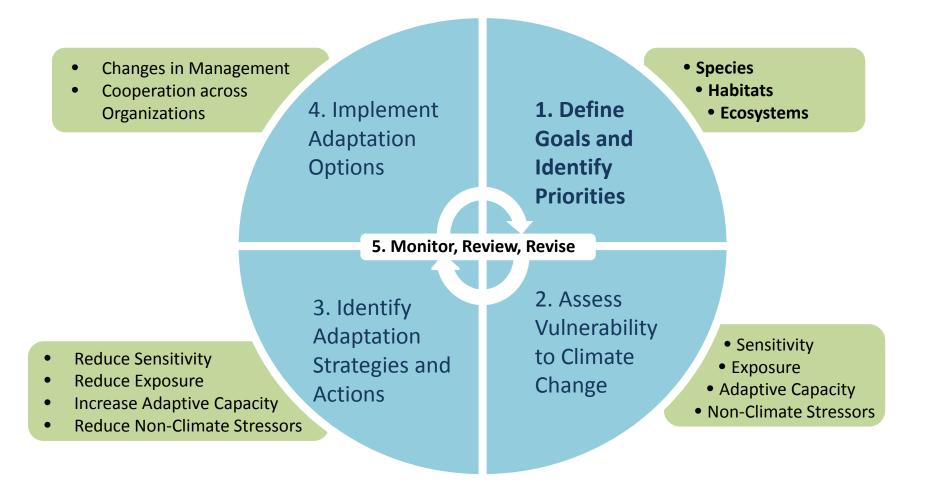
Project is Addressing



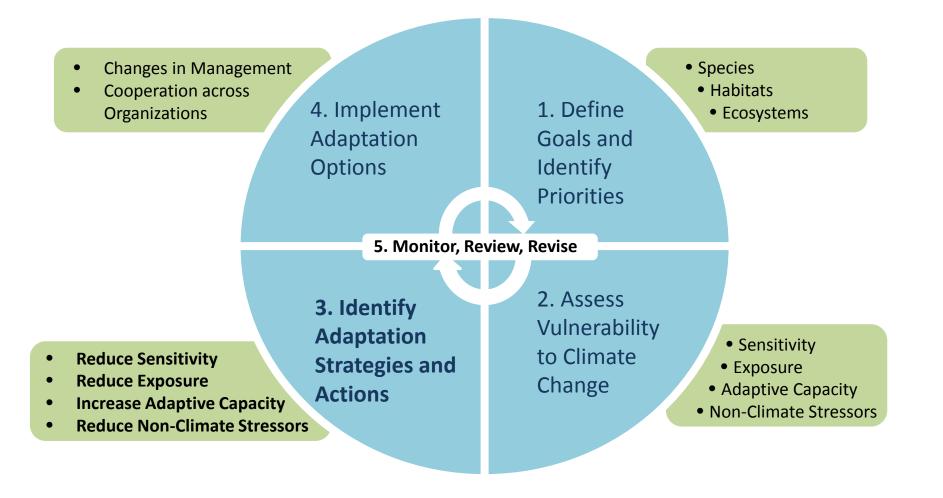
 How vulnerable to climate change are the species, habitats, and ecosystem that we manage?
 [Vulnerability Assessment]

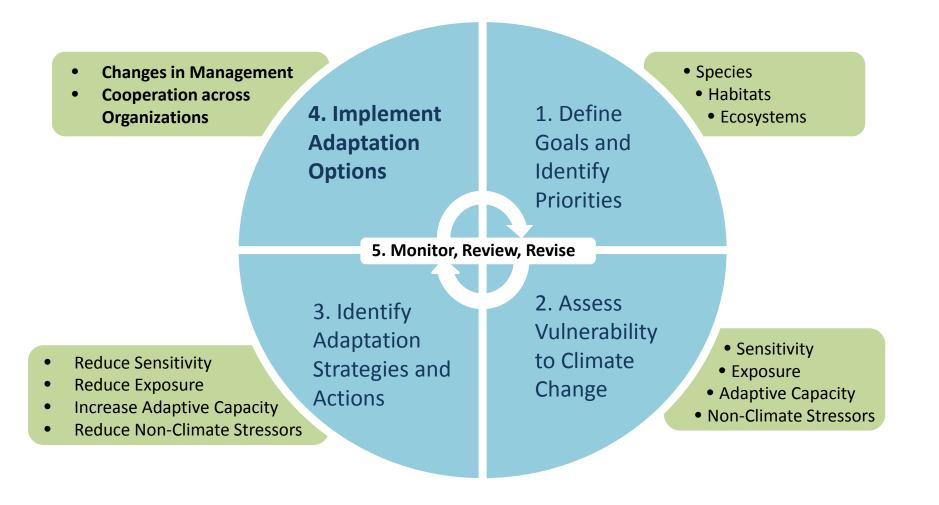
 What can we do to limit or reduce vulnerability?
 [Adaptation Planning]













What this Project Does *Not* Do



- Duplicate existing efforts
- Implement defined strategies and actions
- Generate regulatory guidance



Expected Outcomes



Adaptation strategies will help us identify:

- Where do we invest in land protection, restoration?
- What are critical areas for connectivity?
- What type of resource management is necessary in face of climate







- 1. Climate-smart conservation objectives developed across a broad set of partners for priority resources.
- 2. An assessment of current and anticipated future natural resource conditions





- 3. A spatially explicit description of desired future natural resource conditions.
- 4. A set of adaptive strategies and actions for achieving those conditions.





5. Integrated data for the Central Valley and an online toolbox and outreach plan to help partners use and apply the adaptive strategies for their organization.





6. A "lessons learned" document to inform similar efforts within the CA LCC and other regions.



Conservation Lands Network



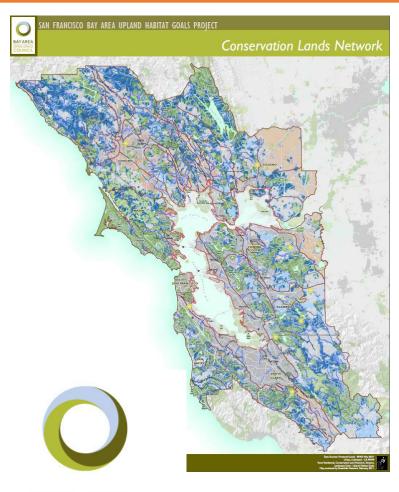
Purpose Identify

Identify the most essential lands needed to sustain biological diversity

Deliverables

Decision support tool including:

- Areas essential to conservation goals
- Areas that are fragmented
- Recommended conservation actions.



BAY AREA

OPEN SPACE COUNCIL

Connecticut River Watershed Pilot

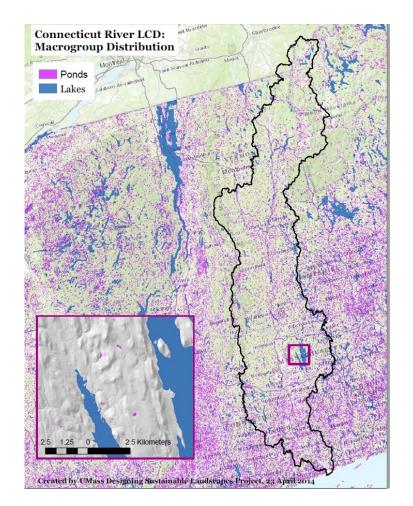
North Atlantic Landscape Conservation Cooperative

Purpose

Help partners set goals and objectives for species and translate those into projections of the amount, type and distribution of habitat needed

Deliverables

Information, maps, and tools that show landscape conservation design options for prioritizing conservation actions



Columbia Plateau Conservation Blueprint



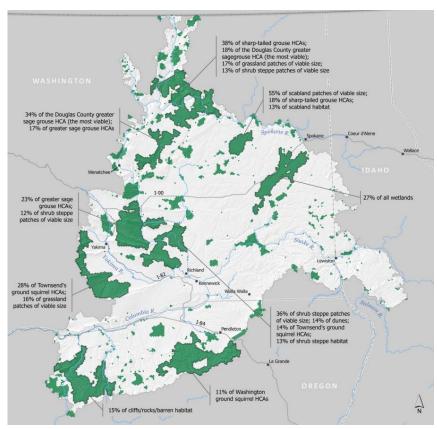
Purpose

Allow partners to work from a common blueprint for conservation actions and develop adaptation strategies

Deliverables

- Synthesis of climate change knowledge
- Vulnerability assessment of priority resources
- Spatially explicit adaptation strategies





Sierra Nevada Vulnerability Assessments and Adaptation Strategies

CA LCC Project (2012-2014):

With 30+ partners:

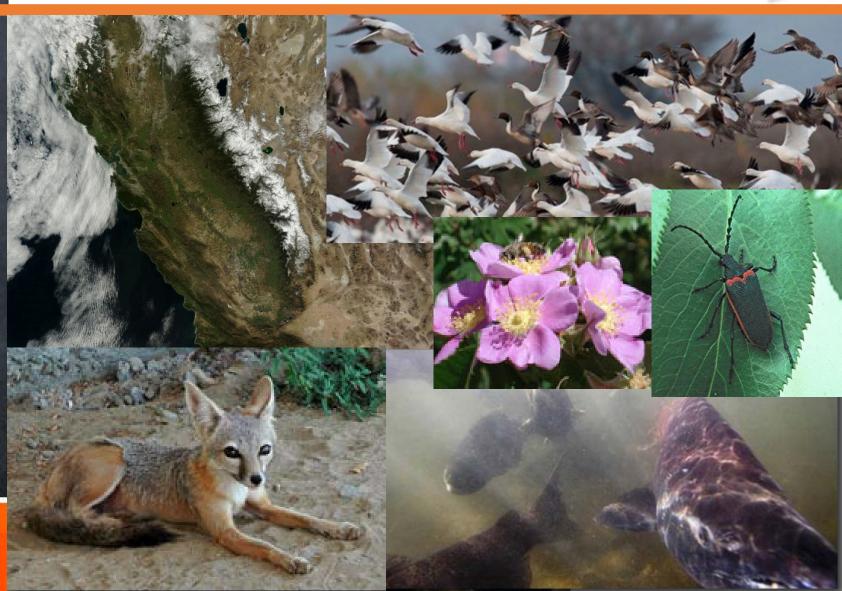
- Identified focal resources (species, habitats and ecosystems) across the Sierra Nevada.
- 2. Conducted vulnerability assessments on focal species.
- 3. Developed strategies and implementable mgmt actions
- 4. Mapped areas most suitable to focus efforts



Questions?



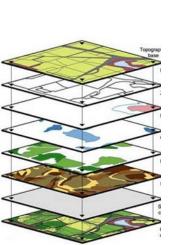
Central Valley Landscape Conservation Project



Next Steps



- Build project teams and schedule initial meetings
- Develop agreed to goals and objectives.
- Project inventory please provide us feedback!
- Next workshop: Identify priority resources (Winter 2015)





Project Outline

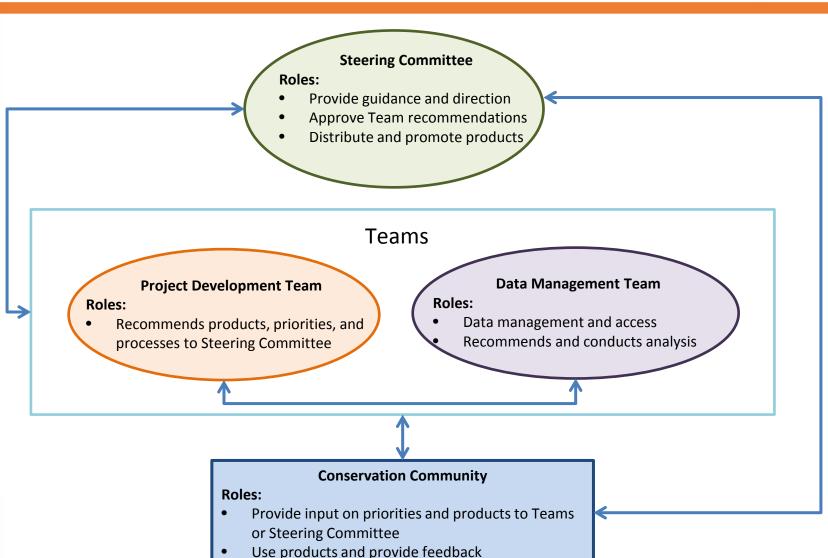


- Project Organizational Structure
- Work Plan
- Pre-workshop survey results



Organizational Chart





Two-Year Work Plan

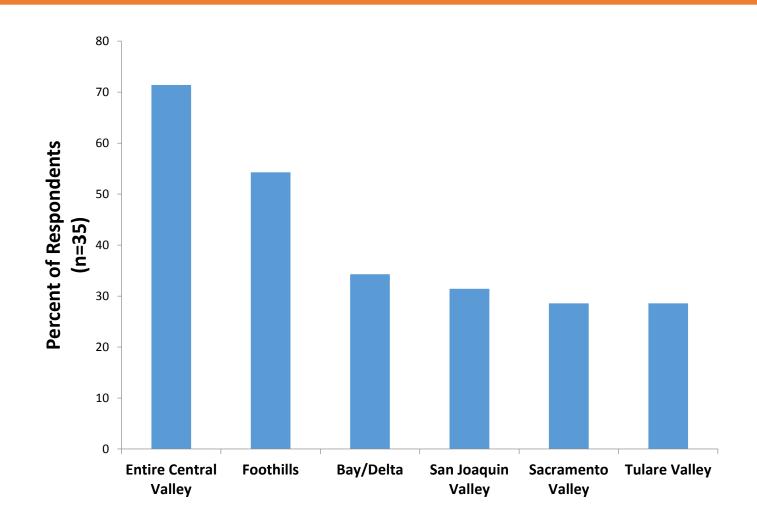


Conservation

Survey Results Where you work







Survey Results What you focus on



- Adaptation &/or conservation planning (n=30)
- Habitat connectivity (n=29)
- Habitat restoration (n=26)
- Threatened and endangered species (n=25)
- Water availability for natural resources (n=25)



Survey Results What you focus on



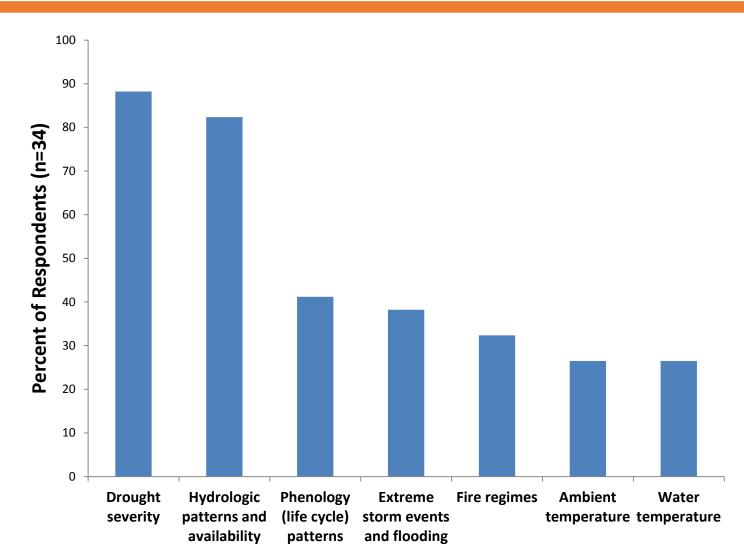
- Riparian areas (n=24)
- Migratory birds (n=23)
- Seasonal wetlands (n=21)
- Agriculture or rangeland sustainability (n=19)
- Natural resource policy (n=15)



Central Valley Landscape Conservation

Survey Results Major climate impacts

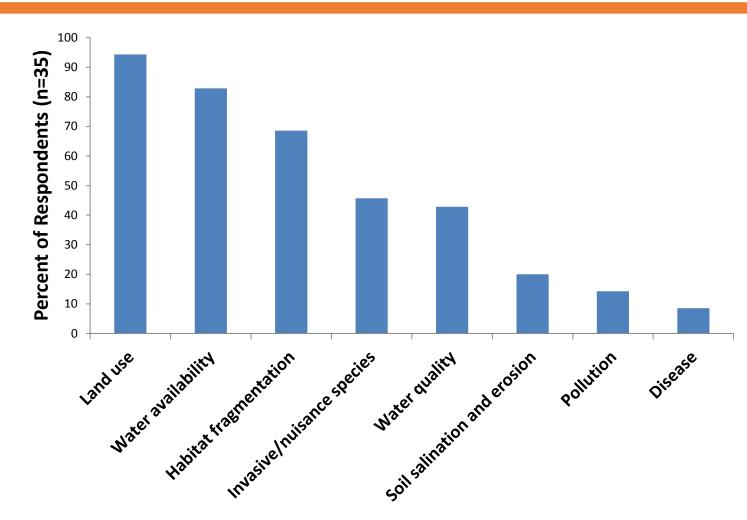




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Survey Results Major non-climate stressors

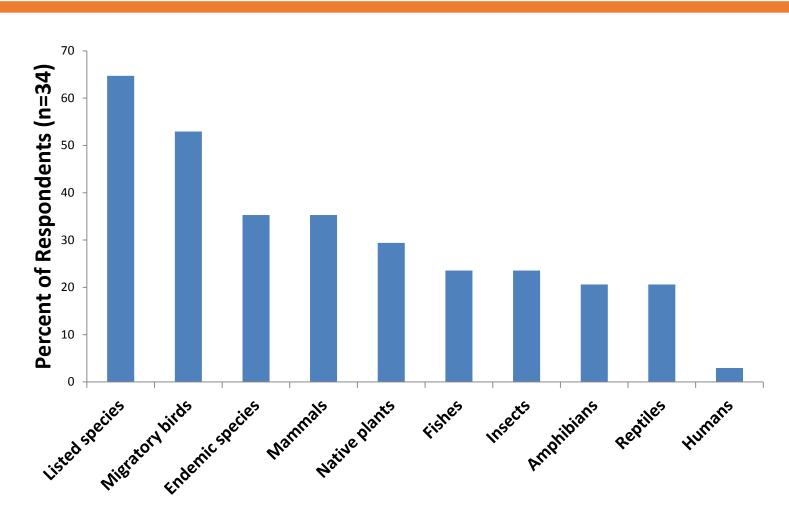




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Survey Results Highest Priority Species

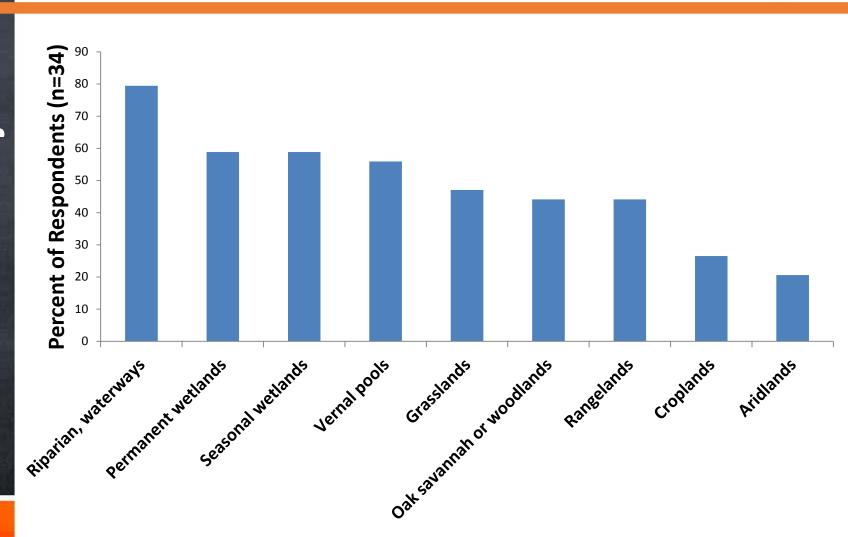




Survey Results Highest Priority Habitats



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Survey Results Information you want



- Landscape scale adaptation strategies in the Central Valley (n=27)
- Climate information to incorporate into existing planning processes (n=24)
- Maps depicting priority areas for adaptation actions (n=24)



Survey Results Information you want



- Ecosystem services analysis (or other economic information) (n=18)
- Vulnerability assessments of focal resources (n=17)
- Tailored decision support tools (n=17)
- Site specific adaptation strategies (n=16)



Questions?



Central Valley Landscape Conservation Project

