Putting Nature on the Map

Greenprints to RAMP: A Multiple Benefit Approach



Liz O'Donoghue The Nature Conservancy California Chapter January 31, 2015



Outline of Talk

- Setting the stage
- Trends
- Regional Greenprints
- RAMP
- San Francisco Bay Area as a model

The Challenge

- Population increase
 - Infrastructure development
 - Increased demand for natural resources
 - Growth patterns
- Climate change
 - Stress on ecosystems



 Land use and infrastructure planning focuses primarily on the built environment

Goal and Hypothesis

 Goal: to protect California's natural resources and working lands in growing communities, thereby preserving the benefits they provide to people and the environment

• By:

- Integrating conservation early in the process
- Demonstrating the value

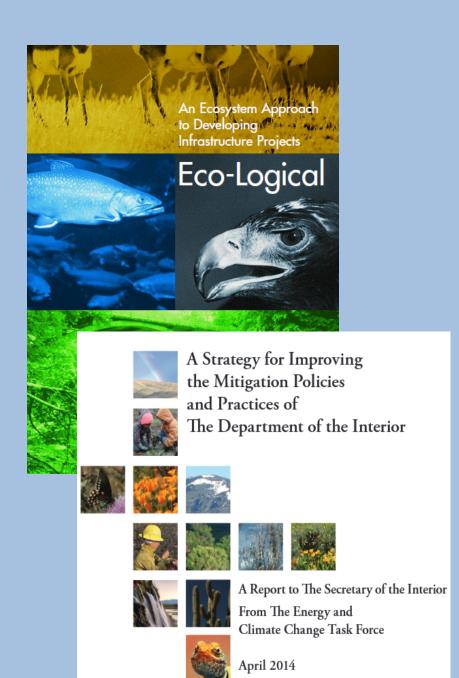
• Through:

Regional greenprints and strategic mitigation

Trends

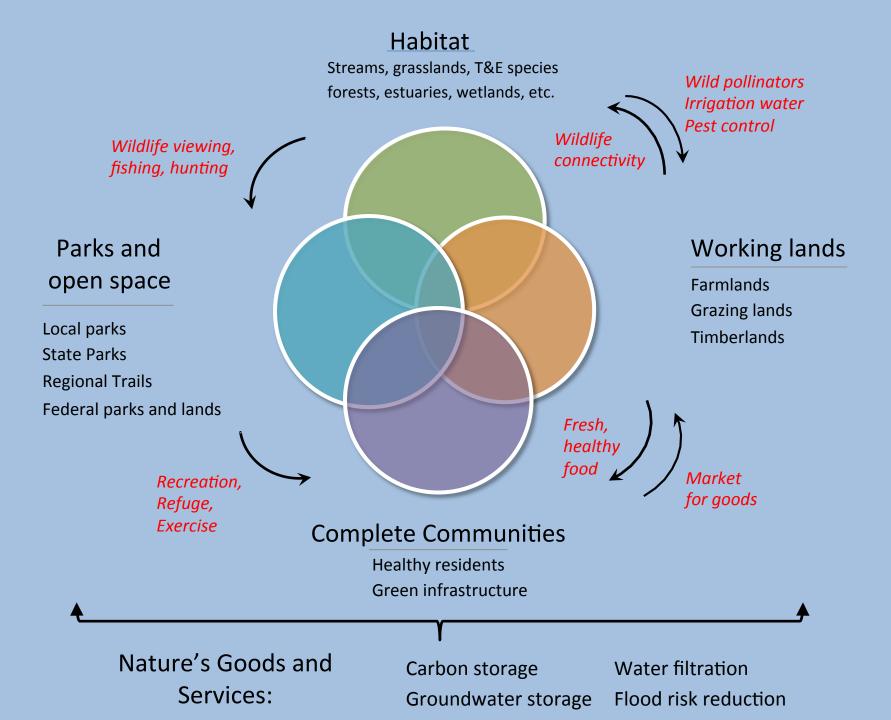
- Integrated Regional Planning
 - Assessment of growth and potential impacts
 - Conservation greenprints

Landscape Scale Mitigation



Conservation as Land Use/Climate Driver

- Encourage compact development that focuses growth in developed areas, and preserves the natural lands/waters and farms/ranches for:
 - Nature's benefits to healthy communities
 - Green infrastructure solutions
 - Carbon sequestration
 - Avoided GHG emissions from
 - Avoided Vehicle Miles Traveled
 - Avoided conversion
 - Quality of life and economic vitality

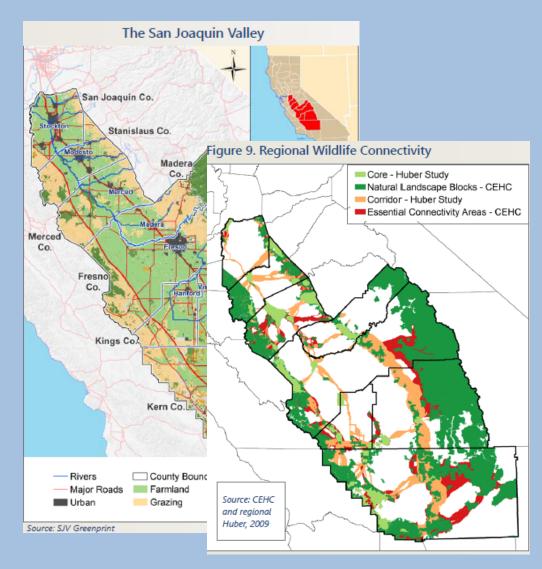


Regional Greenprint

 Strategic Growth Council Regional Greenprint Plan

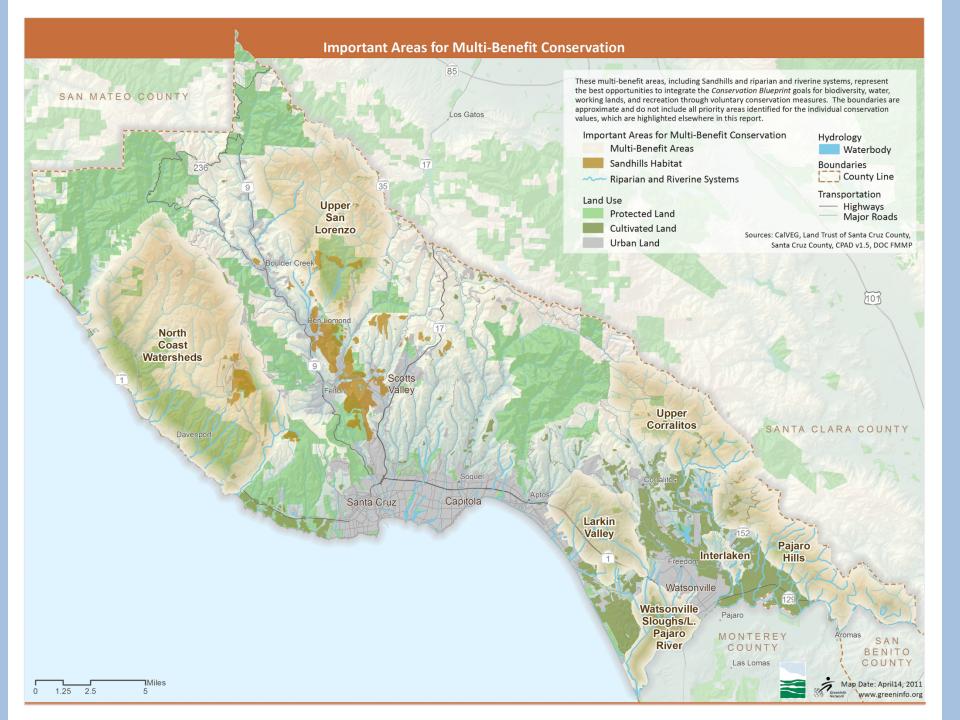
 San Joaquin Valley Regional Greenprint

Mid-South (TN)Regional Greenprint

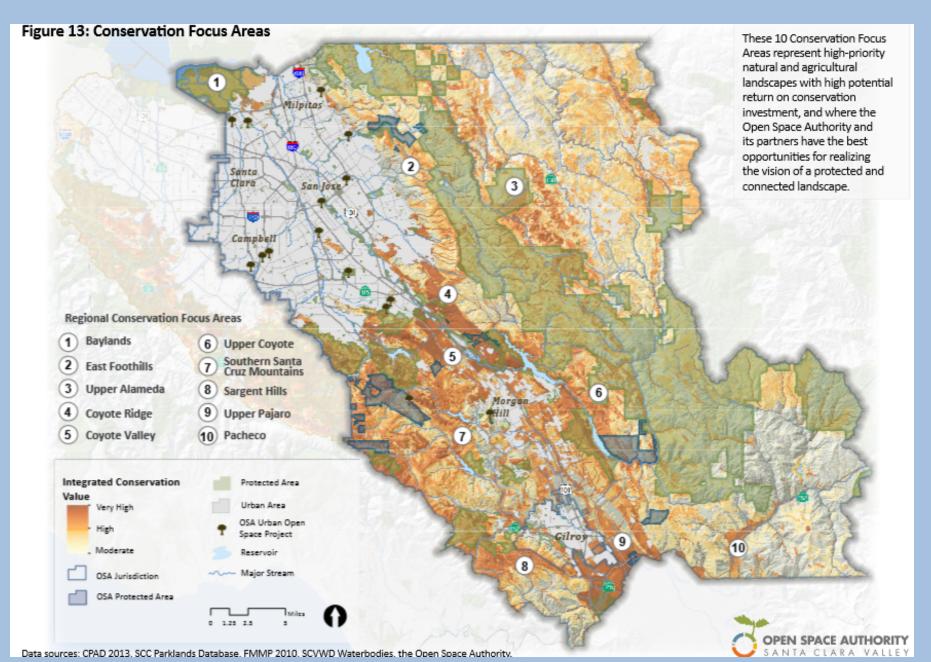


What does it do?

- Integrates conservation with other community values and plans
- Demonstrates the value of nature to communities
- Provides a baseline of information for decisions
- Reduces risk of infrastructure development
- Guides mitigation decisions
- Provides a roadmap for conservation investment



Santa Clara Valley Open Space Authority

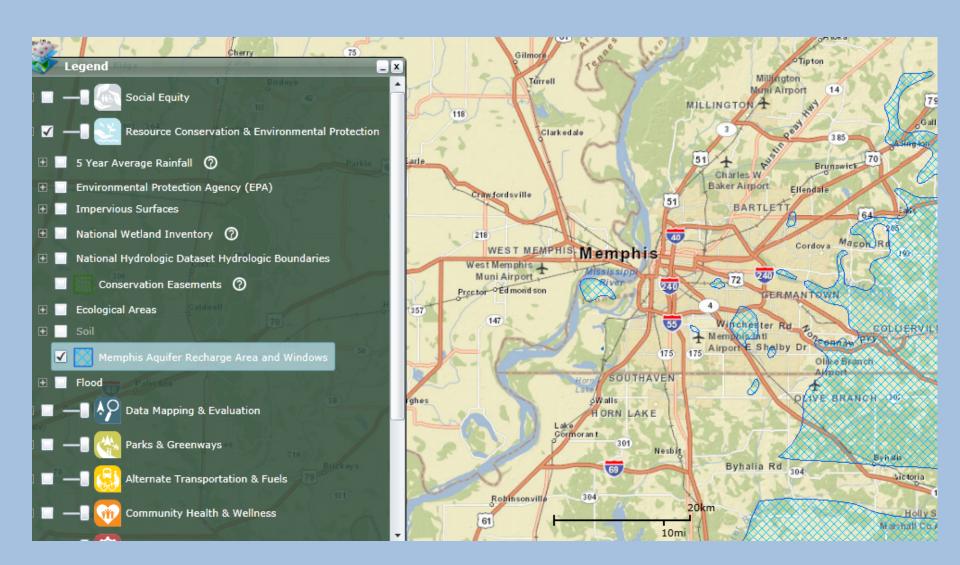


Maryland's "Smart, Green and Growing"

GreenPrint
AgPrint
GrowthPrint



Shelby County TN Regional Greenprint



Implementation Opportunities

- County General Plans
- Land use decisions

Regional Transportation Plans/SB 375
 Sustainable Communities Strategies

- Infrastructure Mitigation:
 - Regional Advance Mitigation Planning

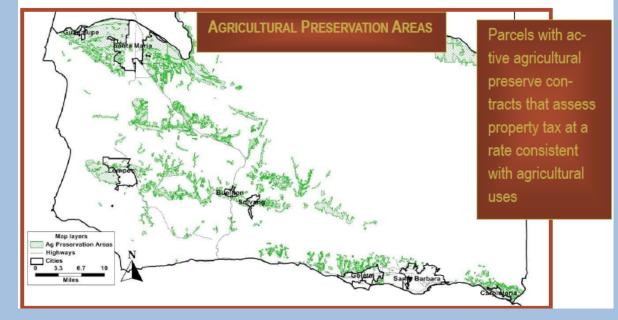
Regional Transportation Plans/ Sustainable Community Strategies

Santa Barbara RTP/SCS

The result: infill/ transit oriented development plan

SANTA BARBARA COUNTY REGIONAL GREENPRINT

The regional Greenprint spatially analyzes open space, agricultural, and habitat resources as constraints to growth of urbanized areas.



Regional Advance Mitigation Planning

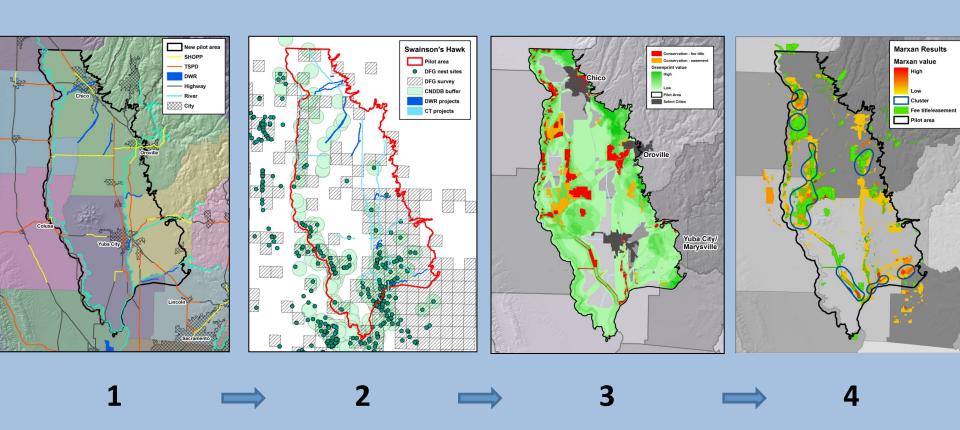
Problem:

Traditional or Unplanned
 Mitigation Approaches
 are ineffective,
 expensive and risky



Courtesy of Chicago Metropolitan Agency for Planning

RAMP Methodology



































RESOURCES LEGACY FUND

DRAFT STATEWIDE FRAMEWORK FOR

Regional Advance Mitigation Planning

Prepared for:

California Department of Water Resources FloodSAFE Environmental Stewardship and Statewide Resources Office P.O. Box 942836 Sacramento, CA 94236-0001

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California Department of Water Resources
California Department of Transportation
California Department of Fish and Game

California State Parks

California Wildlife Conservation Board

U.S. Environmental Protection Agency

U.S. Fish and Wildlife Service

U.S. Army Corps of Engineers

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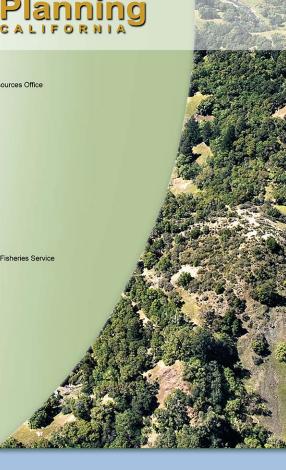
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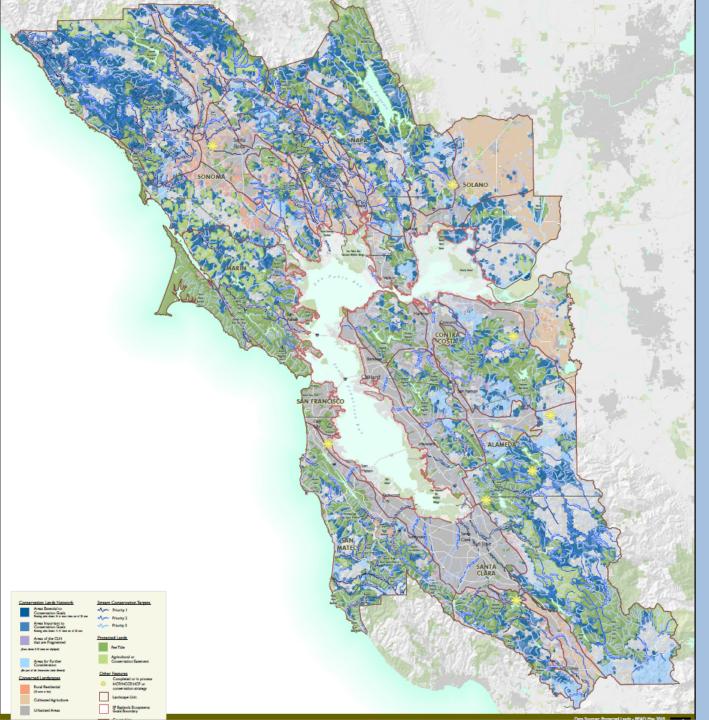
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San Francisco Bay Area

- Conservation in the Regional Transportation Plan
 - -2013
 - Growth assumed to be held to urban growth boundaries
 - Investment in Priority Conservation Areas

- -2017
 - Build on the successes
 - Frame as tools to achieve goals



Basis for Regional Greenprint:

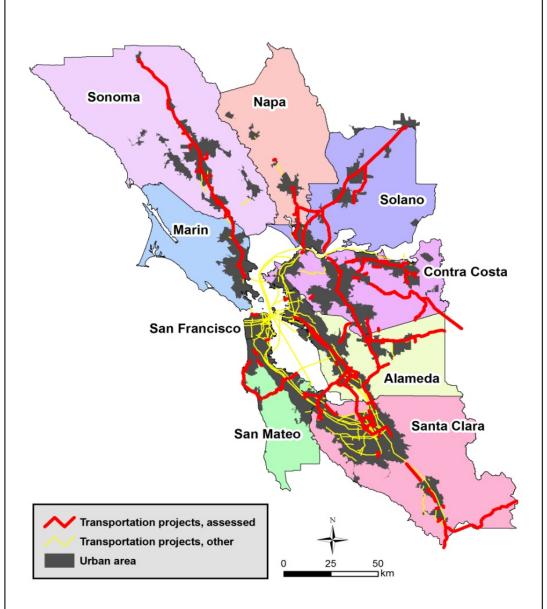
- PCA's
- Mitigation greenprint
- Tool development
- Climate assessments

Priority Conservation Areas



- Revamp to be science based and collaborative
- Investment to promote smart growth vision
- Leverage other funding sources for conservation
- Guide infrastructure and land use planning decisions

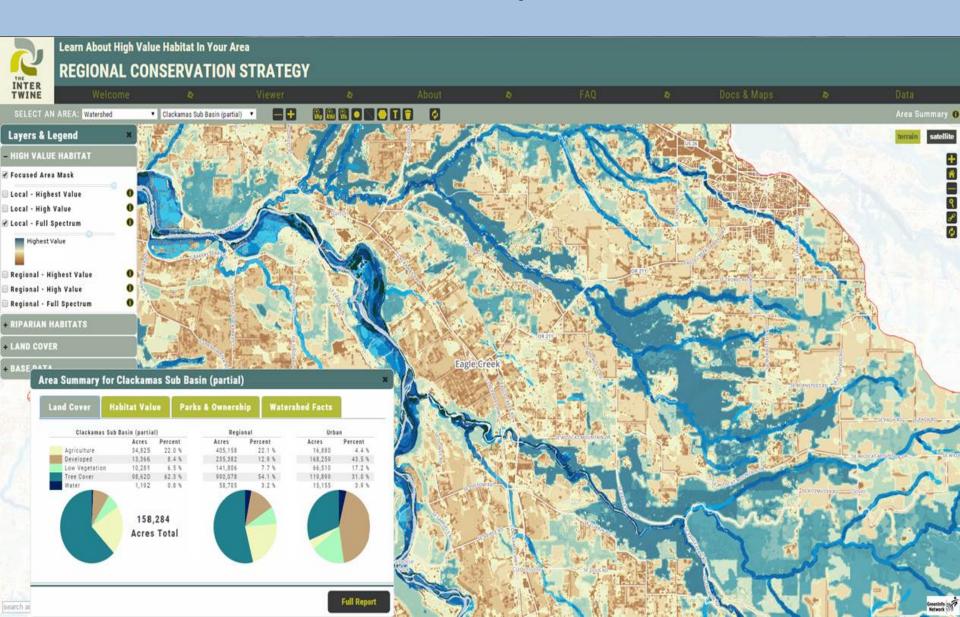
BAY AREA TRANSPORTATION ENVIRONMENTAL IMPACT ASSESSMENT PROJECT



			Projected
	Number	Number	Total
	of	of	Costs for
	Projects	Projects	Selected
	Listed in	Included	Projects
Region or Type of	MTC	in	(in
Project	Report	Analysis	millions)
Bay Area Region/			
Multi-County	72	20	5,882
Alameda County	117	36	4,752
Contra Costa			
County	106	39	2,158
Marin County	29	*	
Napa County	20	15	299
San Francisco			
County	54	*	
San Mateo County	58	15	733
Santa Clara County	155	33	10,989
Solano County	46	10	989
Sonoma County	31	13	614
Total	688	181	21,623

Source: Jim Thorne, Patrick Huber, UC Davis

Tool development



Climate Adaptation



Climate Change Adaptation Pilot Project
December 12, 2014

Questions?

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