The Resources Agency Project Tracking & Reporting system (RAPTR)

Workshop Kickoff Event

April 14, 2020

CALIFORNIA natural resources AGENCY

Welcome and Introductions

Bryan Cash

Assistant Secretary for Administration and Finance, CNRA

Amanda Martin

Deputy Assistant Secretary for Administration and Finance, CNRA

Monitoring & Stewardship Unit (MSU)

Gina Ford
MSU Supervisor

CALIFORNIA natural resources AGENCY

The MSU Team

Gina Ford, Sr. Environmental Scientist

Elea Becker Lowe, Environmental Scientist

Brad Juarros, Environmental Scientist

Jim Falter, Environmental Scientist

Maria Lopez-Godoy, Graduate Student Assistant

Rae Eaton, Science Policy Fellow

Mission Statements

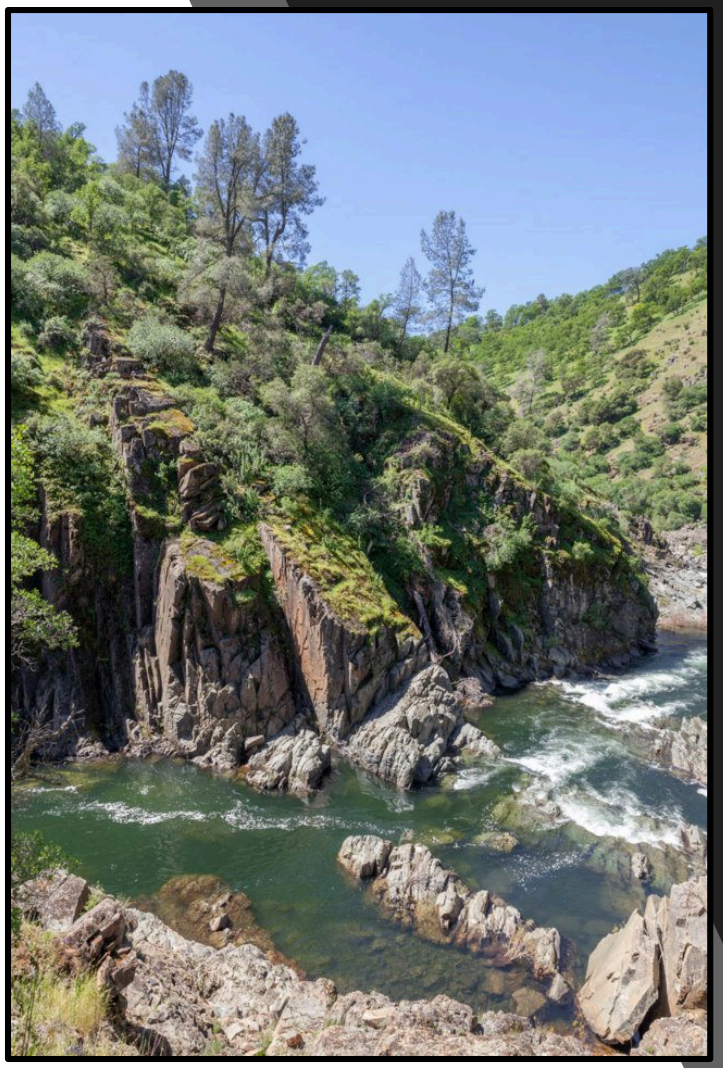
Agency:

"To restore, protect and manage the state's natural, historical and cultural resources for current and future generations using creative approaches and solutions based on science, collaboration and respect for all the communities and interests involved."

Program:

"To track and assess the outcomes of resources-related projects using performance-based criteria to inform California's past, present and future investments in communities and nature."

Kickoff Event Objectives



- Share MSU's purpose and proposed strategy to track the performance of CNRA bond-funded projects.

- Gain shared commitment on the development of the tracking system and incorporate feedback on next steps.

Key Terms

- ✓Monitor – observe or check on the progress or quality of something over a period of time.
- ✓Evaluate – form an idea of the amount or value of something; assess the progress or quality.
- ✓Management Question – questions driven by the goal of improving management decisions.

Bond Accountability: A Perspective from the California Department of Finance (DOF)

Zach Stacy

DOF, Office of State Audits and Evaluations

Zach Stacy is a Manager Financial and Performance Evaluator with the California Department of Finance (Finance), Office of State Audits and Evaluations (OSAE). He has been with Finance for 19 years and currently manages OSAE's Resources bond accountability team. This responsibility includes ensuring Finance meets its bond oversight responsibilities pursuant to former Governor Schwarzenegger's January 2007 Executive Order S-02-07. To this end, Zach coordinates OSAE's efforts to complete performance audits for state, local, and private entities who either administer or receive Resource bond funds. In addition to bond oversight, Zach's responsibilities include overseeing the wind-down of former redevelopment agencies, coordinating the Office of Traffic Safety audits, and managing other non-bond related audits.

Bond Accountability

ZACHARY STACY

DEPARTMENT OF FINANCE
OFFICE OF STATE AUDITS AND EVALUATIONS

APRIL 14, 2020

Agenda

- Finance's Role in Bond Accountability
- Common Audit Issues
- Monitoring and Bond Accountability

Finance's Role in Bond Accountability

The Office of State Audits and Evaluations (OSAE) assists Finance in completing its mission through independent audits, objective evaluations, and other related services.

BOND ACCOUNTABILITY

One of OSAE's primary responsibilities is performing audits of bond funds and providing trainings to enhance Bond Accountability.

Finance's Role in Bond Accountability

Executive Order S-02-07

"Departments shall be accountable for ensuring that bond proceeds are spent efficiently, effectively, and in the best interests of the people of the State of California."

- Increased bond accountability & transparency to ensure bond funds are spent efficiently by state government.
- All bond proceeds subject to audit.

Finance's Role in Bond Accountability

Examples of bond proceeds OSAE has audited.

- Natural Resources Agency
  - Propositions 12, 13, 40, 50, 84, 1E, and 1
- Department of Transportation
  - Proposition 1B
- Office of Public School Construction
  - Proposition 1D

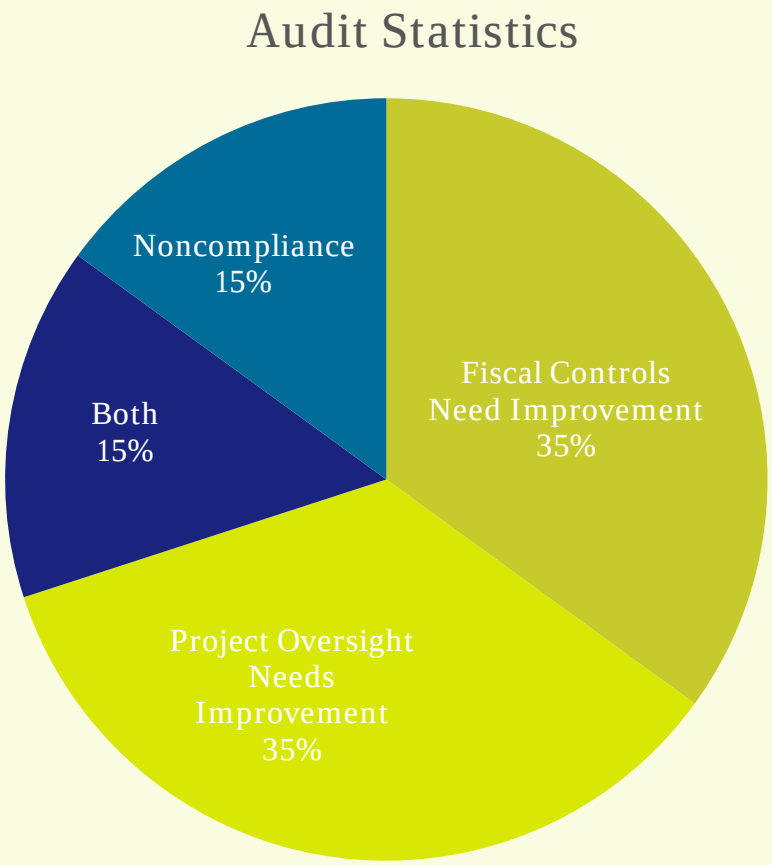
Common Audit Issues

Since January 2015 OSAE has audited:

- Nine grantors under Natural Resources – All had audit findings.
- 116 grantees - 60 percent of grantees had audit findings.

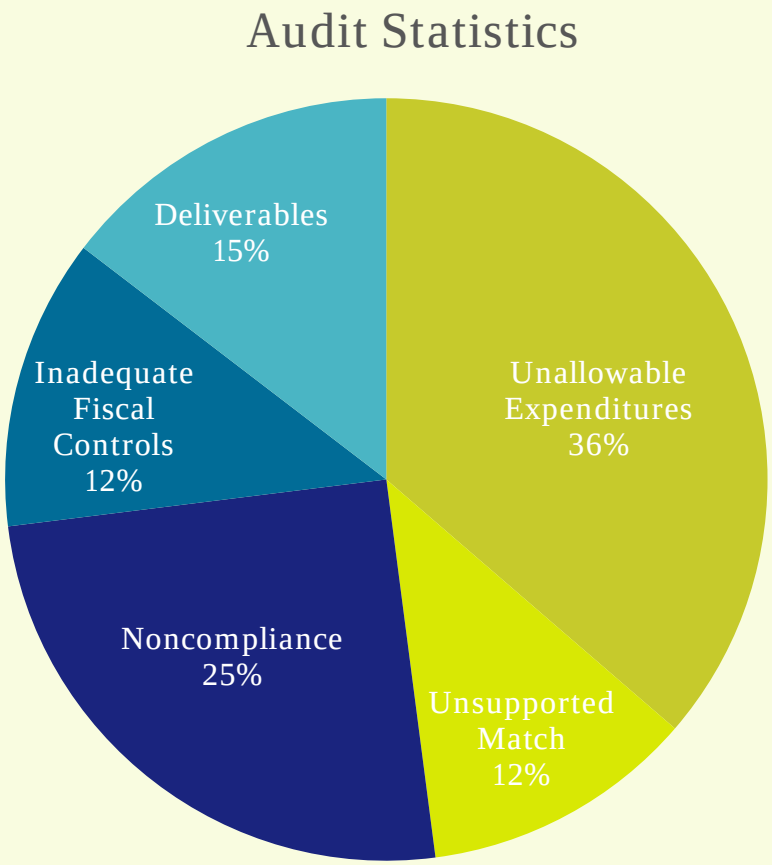
Common Audit Issues (Grantors)

1) Fiscal Controls Need Improvement
2) Project Oversight Needs Improvement
3) Both 1 and 2
4) Noncompliance (awarding requirements, contracting practices, etc.)



Common Audit Issues (Grantees)

1) Unallowable expenditures
2) Unsupported match
3) Noncompliance with grant requirements (contracting, reporting)
4) Inadequate fiscal controls
5) Deliverables (incomplete, lack of oversight)



Monitoring and Bond Accountability

In-progress monitoring:

- Mitigates common grantee audit issues.
- Ensures projects stay within scope and budget.
- Helps to identify and resolve common issues.
- Increases transparency and accountability of the grantees' use of bond funds.

Monitoring and Bond Accountability

Long-term monitoring:

- Maintains grantee accountability for the useful life of the project.
- Assists grantors with decisions on future awards.
- Ensures taxpayers get the intended return on investment.
- Helps track and evaluate long-term performance of projects.
- Assists in the evaluation of long-term benefits from bond funds on a statewide basis.

Resources

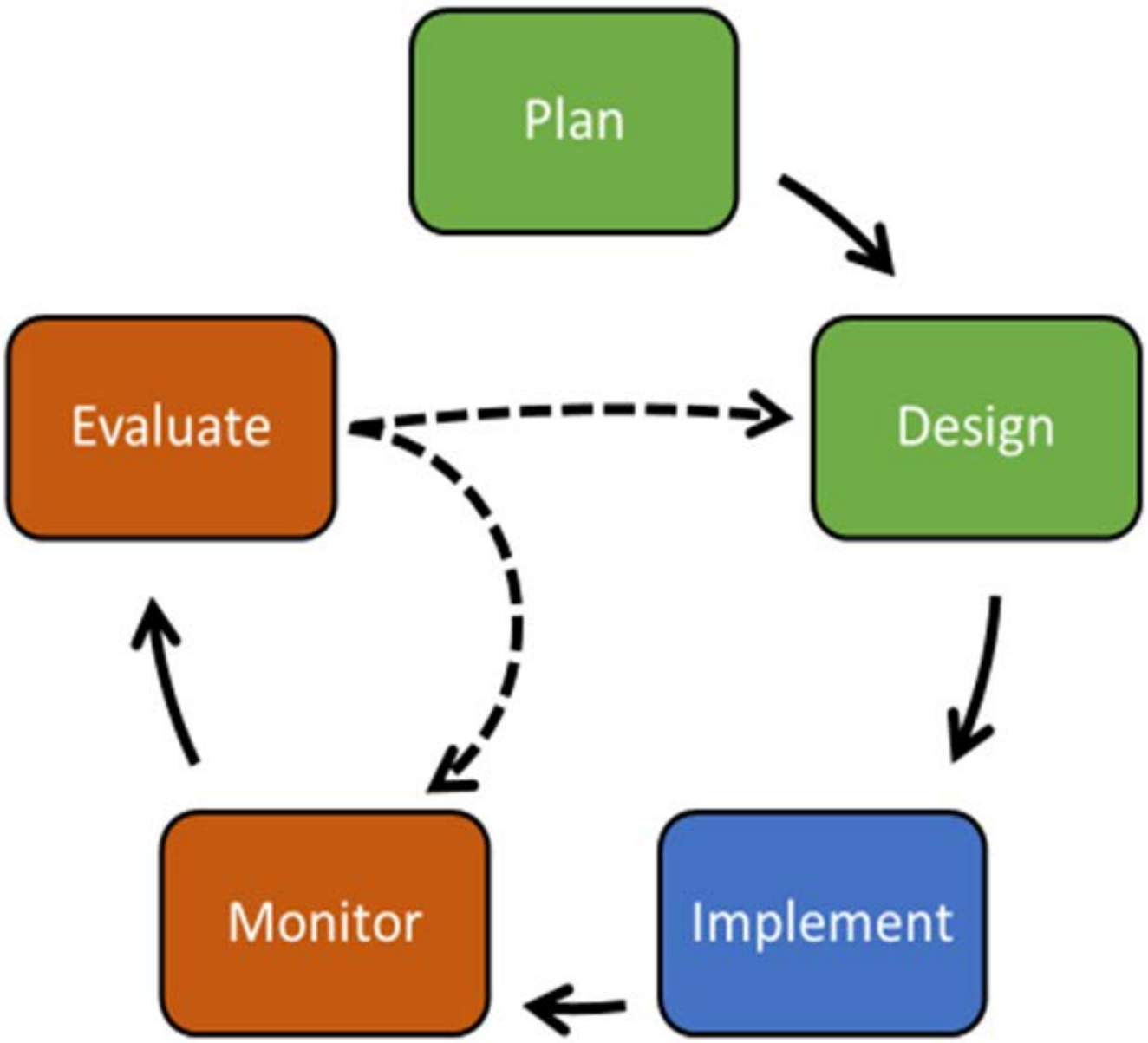
- OSAE Audit Reports and Resources (http://www.dof.ca.gov/Programs/OSAE/Prior_Bond_Audits/)
- Feel free to call or send an email!
  - Zachary (Zach) Stacy
    - Phone: (916) 322-2985 Ext. 3747
    - Email: Zachary.Stacy@dof.ca.gov

The Resources Agency Project Tracking and Reporting System (RAPTR)

Gina Ford

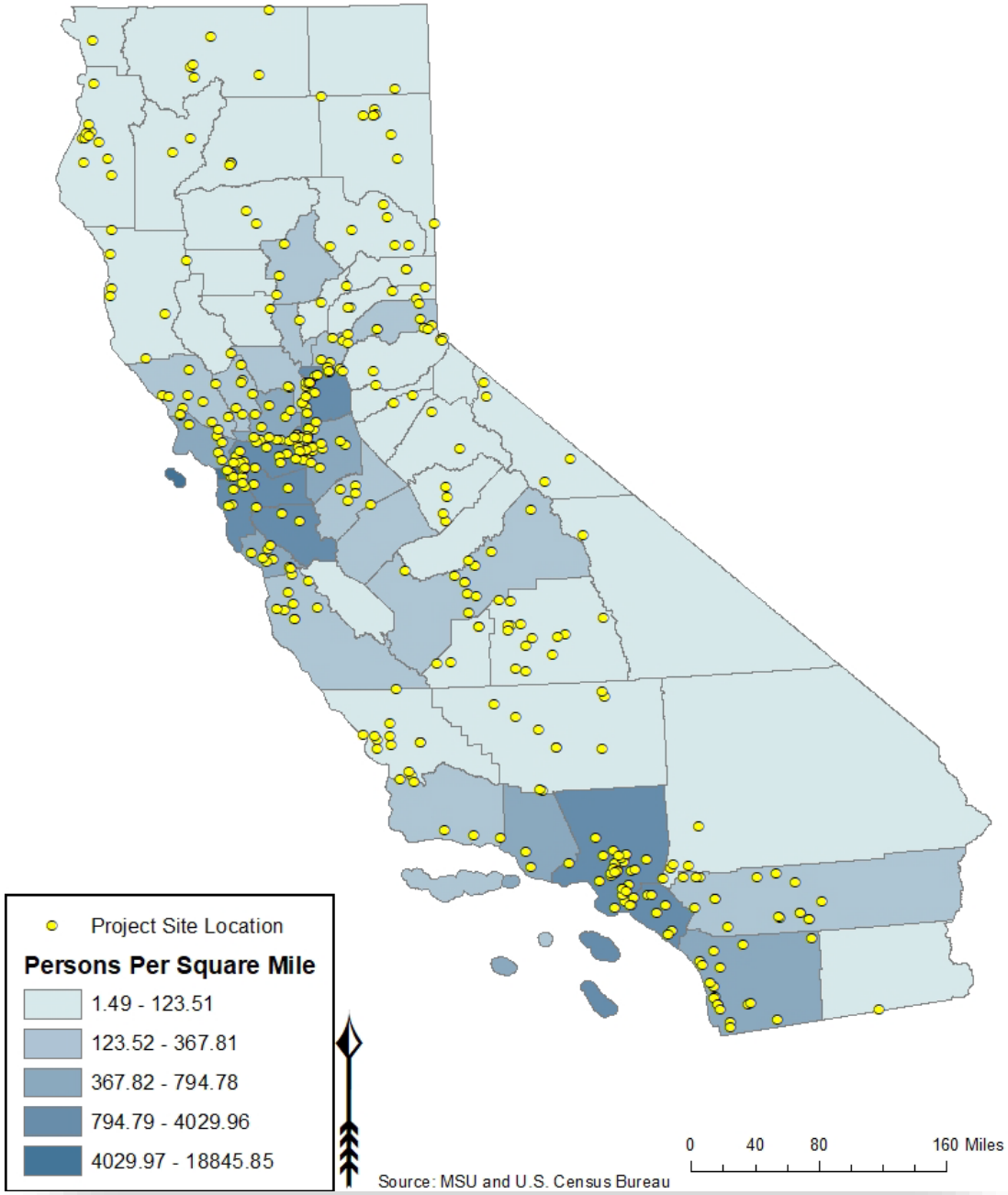
MSU Supervisor

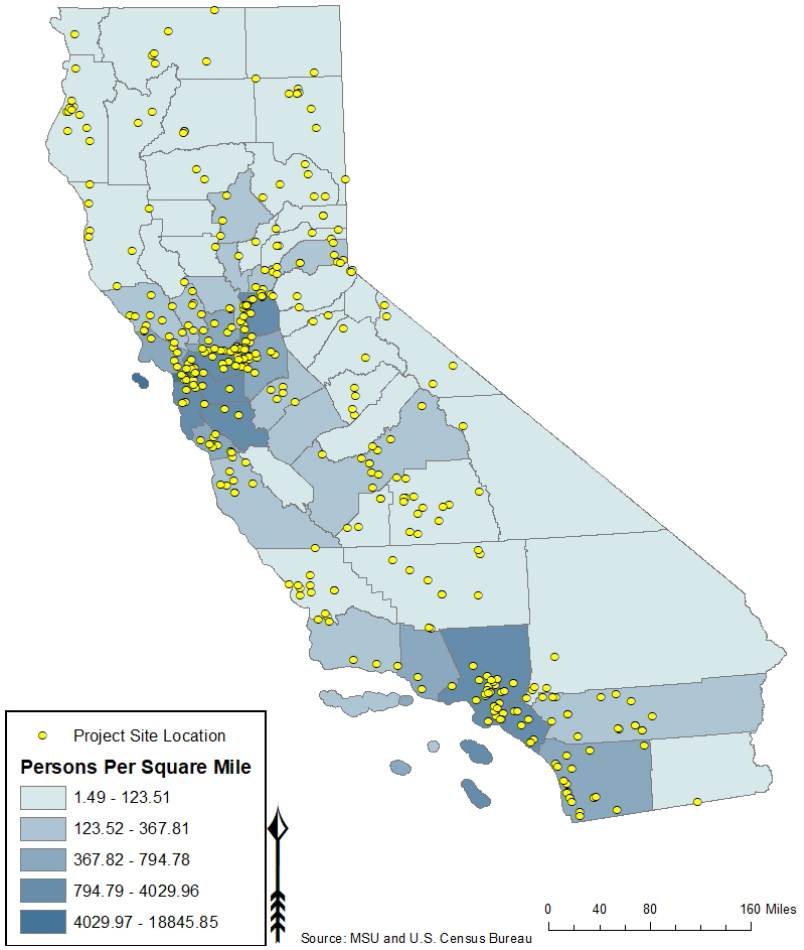
Adaptive Management Cycle



Bond Evaluation

- Did projects meet the goals of the bonds that funded them?
- What did we get for the dollars spent?
- How do we track the long-term performance of projects across diverse programs?
- If this information is collected, how does it inform an adaptive management cycle?





Bond Evaluation

Key Takeaways

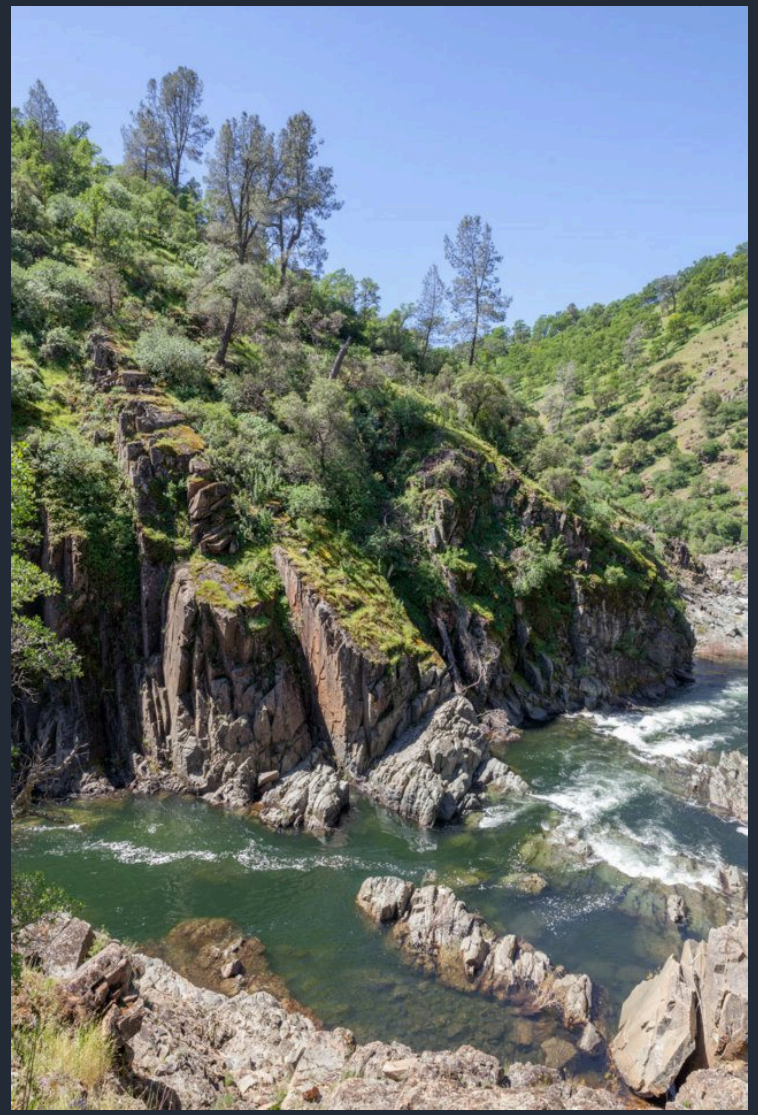
- Monitoring, evaluation, and data management protocols vary widely.
- There is no centralized storage system for post-completion data that are collected.
- Many offices lack the ability to secure funding for long-term monitoring, operations, and maintenance.
- The return on investment is only deducible at the individual project level and only for a subset of all projects funded.

Recommendations for Improvement

- Establish standard protocols for data collection and management
- Provide training
- Leverage existing reporting systems to reduce redundant data entry

Hopes for the Future

- To fulfill our mission, “to track and assess the outcomes of resources-related projects using performance-based criteria to inform California’s past, present and future investments in communities and nature.”
- To use a stakeholder-driven process for selection of performance-based criteria.
- To use state funds more efficiently and effectively to restore, protect and manage the state's natural, historical and cultural resources over the long-term.
- To justify future additional funding and positions for performance-based long-term monitoring.



Known Benefits and Concerns

Benefits

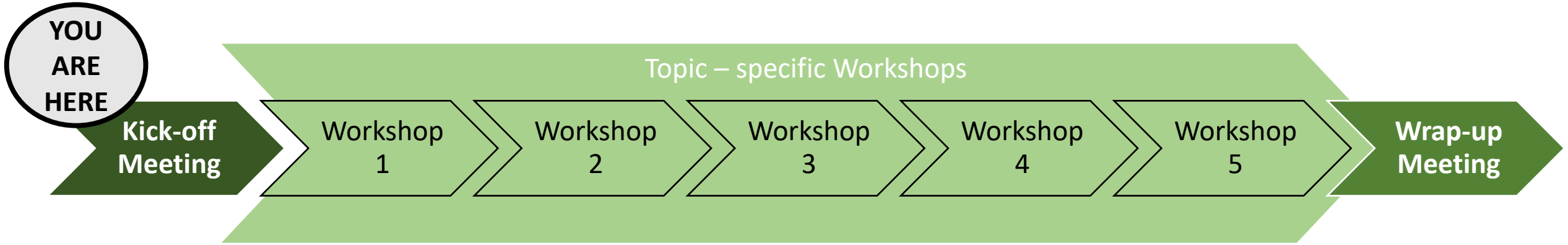
- Improve Adaptive Management
- Increase Transparency
- Inform Decision-making
- Increase Multidisciplinary (and Inter-Agency) Collaboration
- Improve Science
- Enhance Program Efficiencies: Cutting the “Green Tape”

Concerns

- How will we fund this?
- Who will do the work?
- How will this integrate with current systems?
- Is this mandated?
- Is this really possible?

Parallel Strategies

Stakeholder Workshop Series:



RAPTR System Creation:

Conceptual Model: the Resources Agency Project Tracking & Reporting system (RAPTR)

Jim Falter

Environmental Scientist, Monitoring and Stewardship Unit

Desired Attributes

- Make data ***machine-readable*** wherever possible.
  - parse complex project attributes into smaller ‘bites’
  - catalog documents when necessary

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Desired Attributes

- Make data ***machine-readable*** wherever possible.
  - parse complex project attributes into smaller ‘bites’
  - catalog documents when necessary
- Structure, naming, and formatting conventions are ***standardized*** and ***normalized*** across all offices
- Project management work flows are ***harmonized*** across all offices wherever possible
  - → Business Services Solution Team

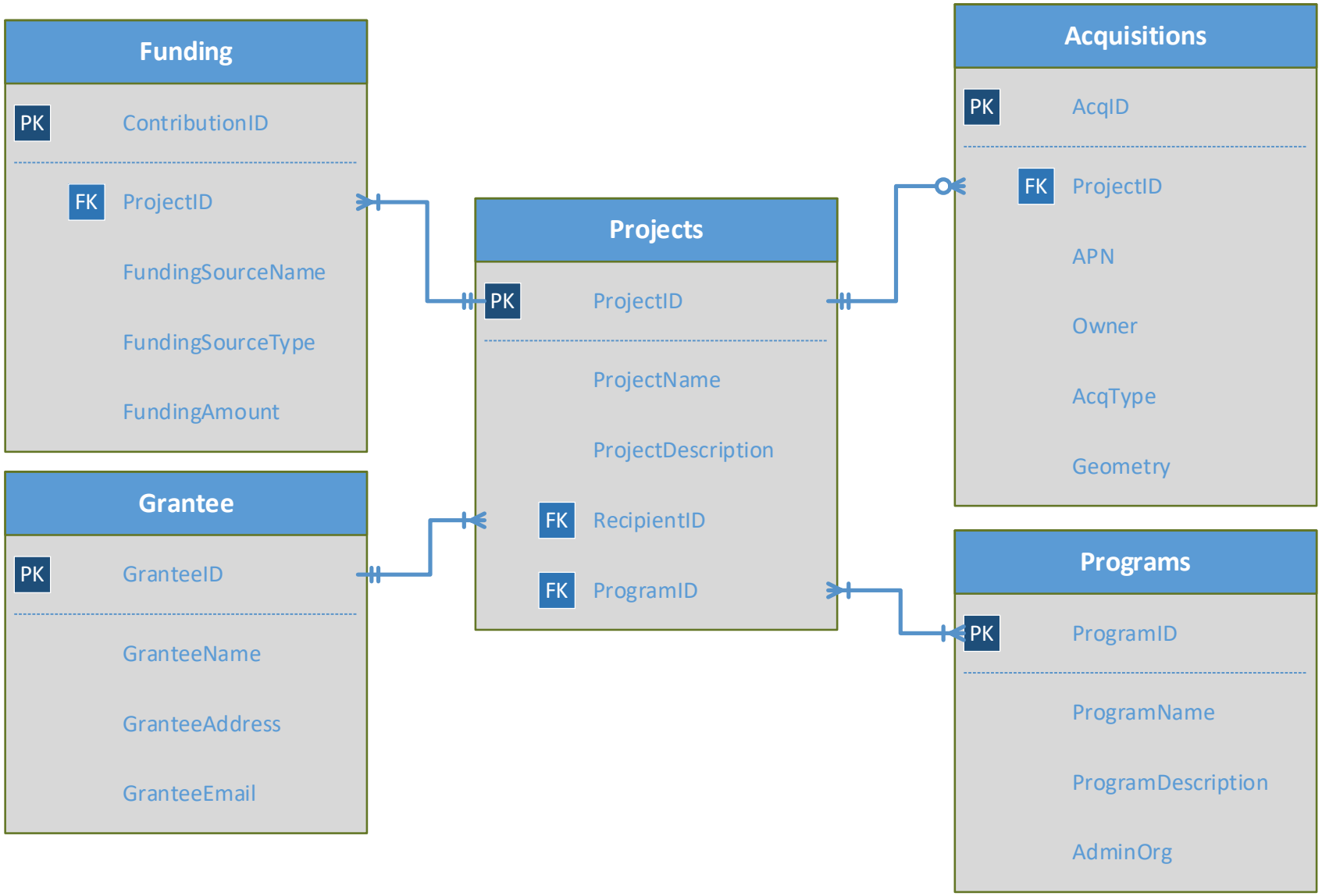
How people describe a project…

'The CNRA Bond Program is overseeing the provision of $500,000 in funding from Prop 27 to Parks 'R' Us to develop the Natomas Bike Park through the Improving Bicycle Health Program. This project will provide bicycle owners living in and around Natomas with a fully secure recreational area where their bicycles are safe to socialize as well as roam free and unencumbered; thus, greatly improving the health of both bicycles and their owners. Completion of the project will further provide a direct link between two high traffic bike paths used by residential commuters; thus, facilitating a reduction in street traffic around Sacramento as well as a reduction in net city GHG emissions. The first phase of the project will involve the fee title acquisition of four ~0.5-acre vacant residential lots (156-201-0743, 156-201-0744, 156-205-0613, 156-205-0617) which will then be used to develop the bike park. The second phase of the project will involve the development of various park features including a paved high-traffic bike path connecting two existing bike commuter paths, a fully enclosed special-use area for bikes to move unencumbered, and an open covered community shop equipped with permanently secured bike stands and tools. Development of the project will also involve the planting of 50 native trees as part of a broader climate-change resilient landscaping plan. The total cost of the project will be $1.2 million with additional contributions of $500,000 and $200,000 being made from Sacramento Parks and Friends of Natomas' Bikes; respectively. Sacramento Parks will further be responsible for management of the park (including all O&M) in perpetuity following completion of the project.'

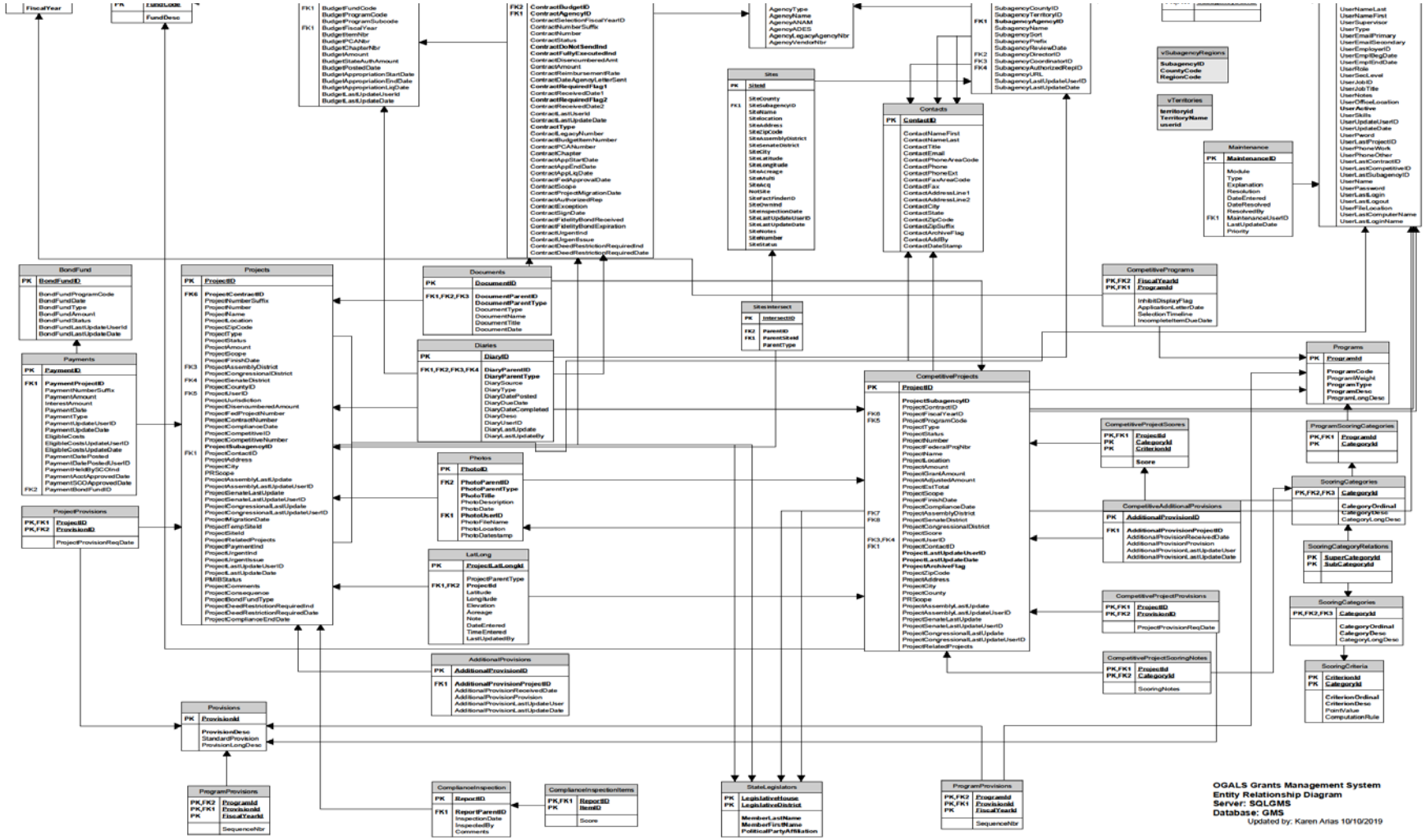
How computers describe a project…

FIELD	VALUE	FORMAT
ProjectID	“CNRA-123-4567”	text
ProjectName	“Natomas Bike Park”	text
GranteeName	“Parks ‘R’ Us”	text
ProgramName	“Improving Bicycle Health Program”	text
AdminOrg	CNRA	system-defined
ProjectDescription	“This project will provide bicycle…”	text
AcqParcels	{156-201-0743, 156-201-0744, 156-205-0613, 156-205-0617}	text
ProjectArea	2.07 [acres]	number
AcqType	{Fee Title, Fee Title, Fee Title, Fee Title}	system-defined
PropertyManager	“Sacramento Parks”	text
TotalCost	1.2e6 [dollars]	number
FundingAmounts	{5e5, 5e5, 2e5} [dollars]	number
FundingSources	{“Prop 27”, “Sacramento Parks”, “Friends of Natomas’ Bikes”}	text

Example Relational Database



Real Example: State Parks



Extracting Information

QUERY [person] →

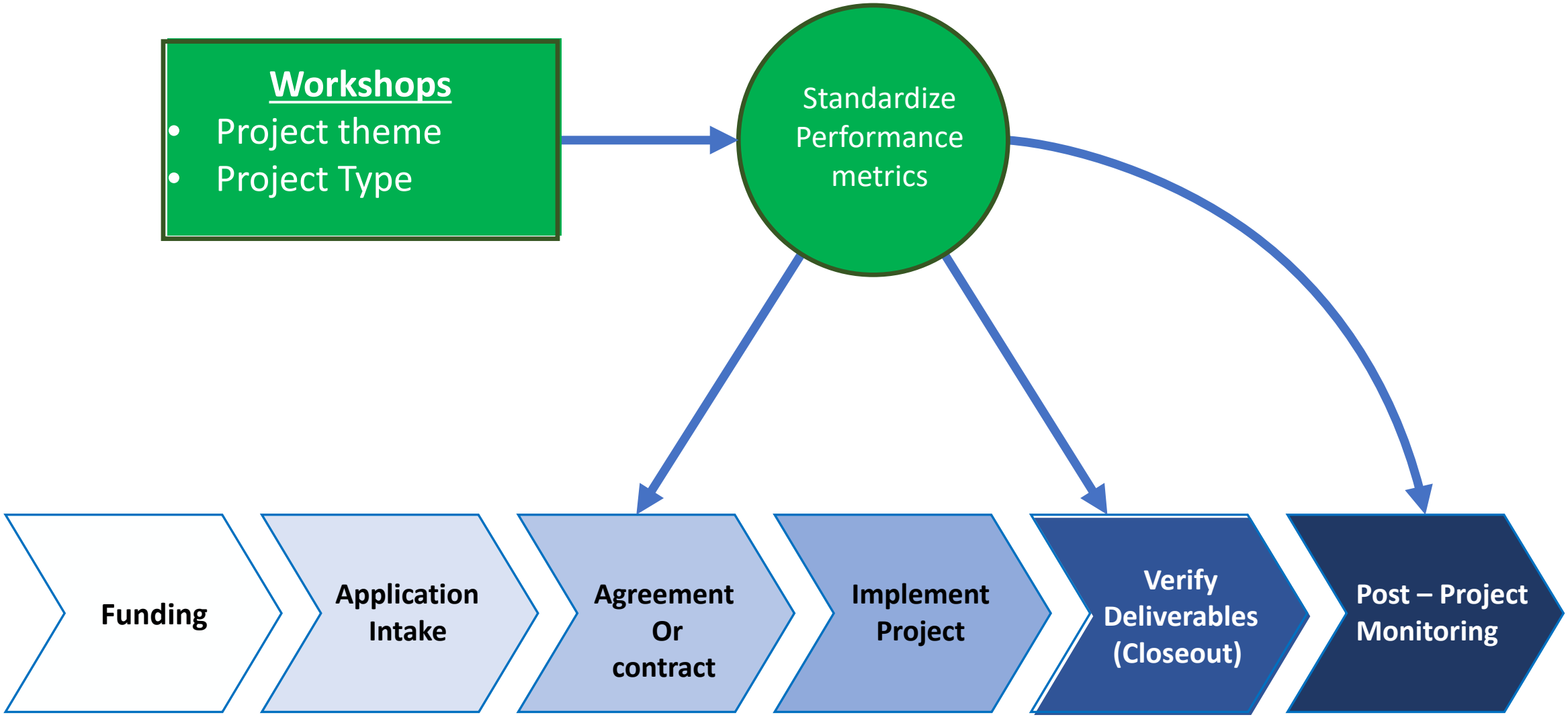
What is the total combined area of all conifer forests found at altitudes of less than 1000 m in areas where the wildfire threat level is “High” or greater and that have benefitted from fuel reduction projects completed within the past 5 years?

Extracting Information

QUERY [*machine*] →

```
SELECT projectGrantNum,
       projectArea,
       fireThreatLevel
  FROM RAPTR*
 WHERE projectType = “fuel reduction”
       projectEndDate ≥ 04/14/2015,
       forestType = “conifer”,
       altitude < 1000,
       fireThreatLevel ≥ 3;
```

Harmonizing Methods & Metrics



Current Efforts in Project Performance Monitoring and Evaluation

Kate Furlong, Ventura Land Trust

Kate Furlong is the Stewardship Director for Ventura Land Trust. She joined the trust as an unpaid intern after graduating from CSUCI with a BS in Environmental Science and Resource Management and a minor in Biology in 2017 and worked her way up the ladder. With years of restoration ecology and non-profit philanthropy under her belt, Kate jumped in to manage restoration projects all over Ventura County.

Ethan Inlander, The Nature Conservancy

Ethan is regional stewardship director for The Nature Conservancy. He has applied geospatial technologies to conservation challenges since 1994. He currently oversees 1/3 of The Nature Conservancy's easement acreage in California, and works with the chapter's Conservation Technology and Science staff to build and deploy stewardship technologies.

Tracking the success of restoration

A presentation by Ventura Land Trust’s Stewardship Director Kate Furlong

Ventura Land Trust

- The Ventura Land Trust, a community based, 501 (c)3 non-profit organization, was established in 2003 to protect the hillsides but over the past 16 years we've expanded our mission
- *The mission of the Ventura Land Trust is to permanently protect the land, water, wildlife and scenic beauty of the Ventura region for current and future generations*

- "Land trusts are community-based, nonprofit organizations dedicated to the permanent protection and stewardship of natural and working lands for the public good"
- PRESERVATION, HABITAT RESTORATION, EDUCATION, OUTDOOR RECREATION

Major Restoration Projects

- Lower Ventura River- Willoughby Preserve
  - Invasive species removal
  - Trash removal
- Big Rock Preserve
  - Invasive species removal

Challenges

- Increasing homeless population
- Funding
- Staffing restrictions
- Invasive species
- Fire
    - Thomas Fire

VENTURA
LAND TRUST
Before: 11/17/17
After: 12/12/17

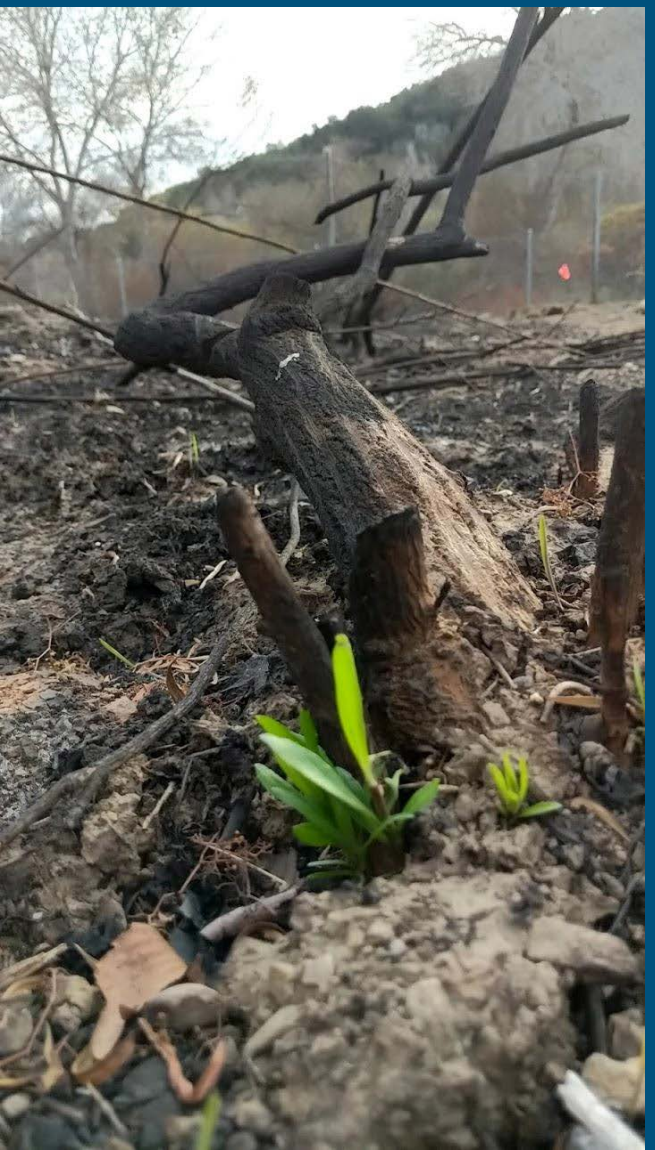
Big Rock Preserve
ALL TRAILS
CLOSED
Until Further Notice
VENTURA LAND TRUST
Visit venturalandtrust.org for information and updates

Qualitative vs. Quantitative Data

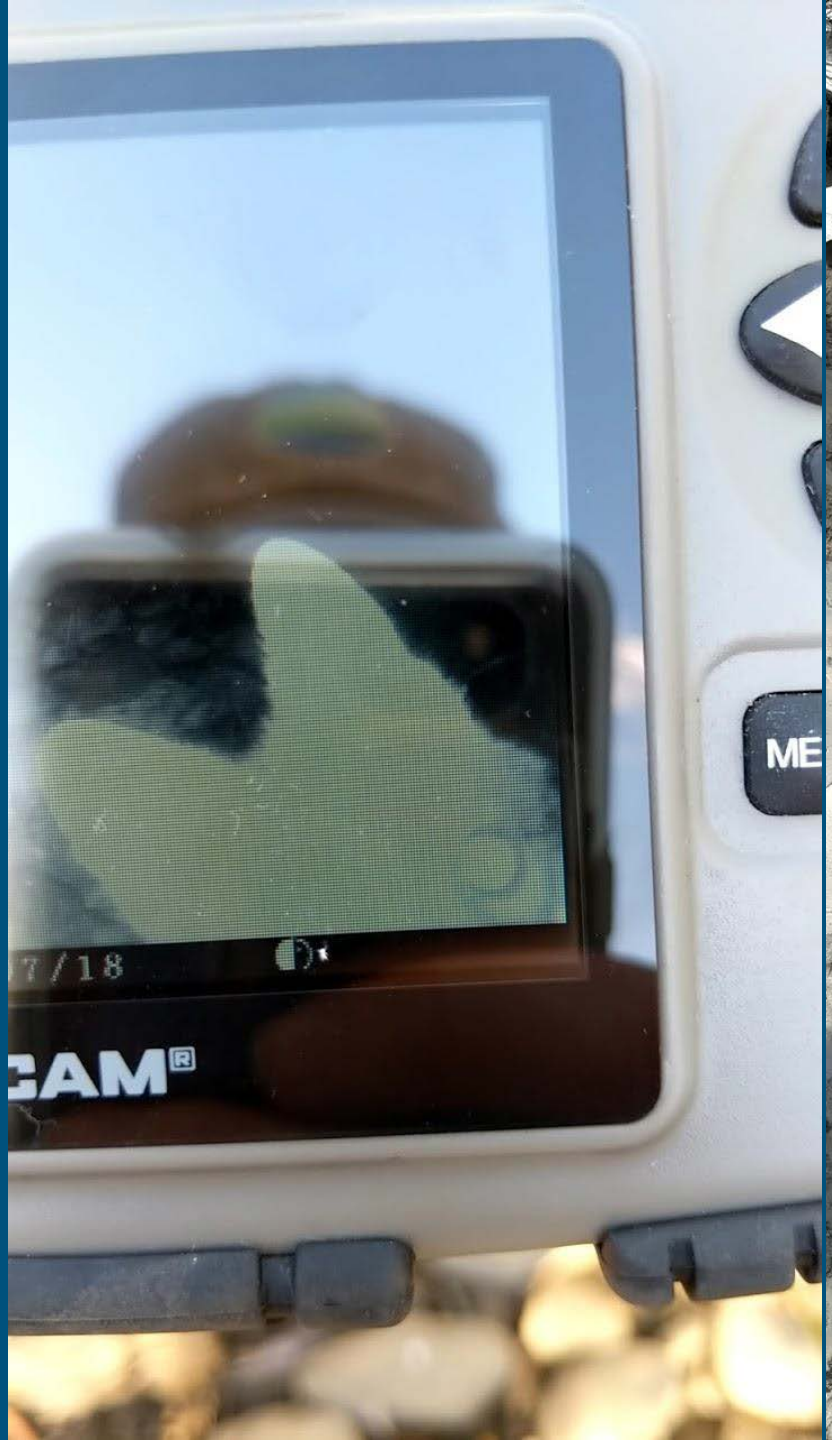
- Qualitative
  - Native vs. invasive plants present
  - Regrowth
  - Animals present
- Quantitative
  - Percent coverage
  - Planting survivorship
  - Biodiversity
  - Weight of trash removed

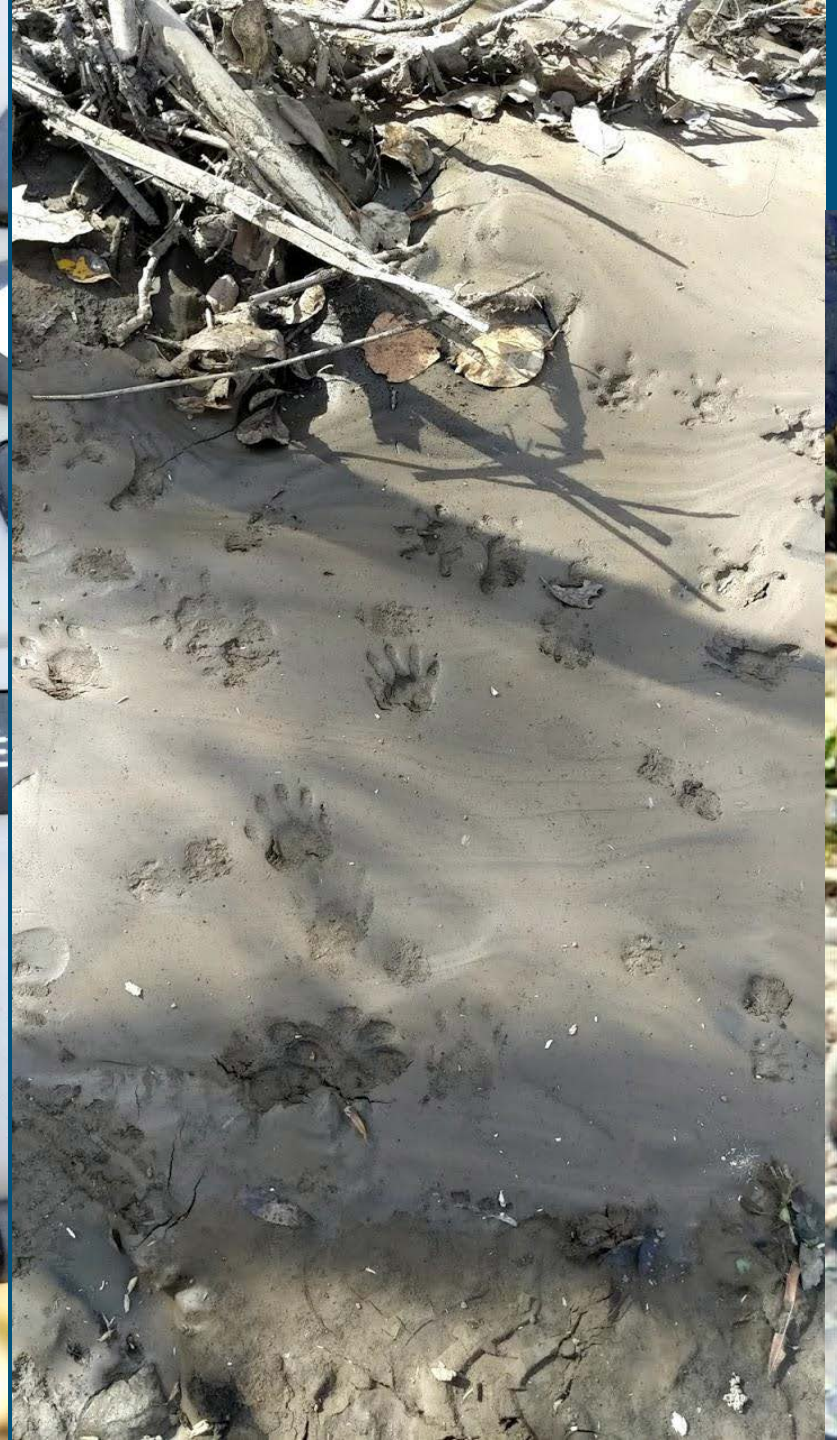
Native plant recovery

Crown Sprouting
'We aren't dead yet'-plants

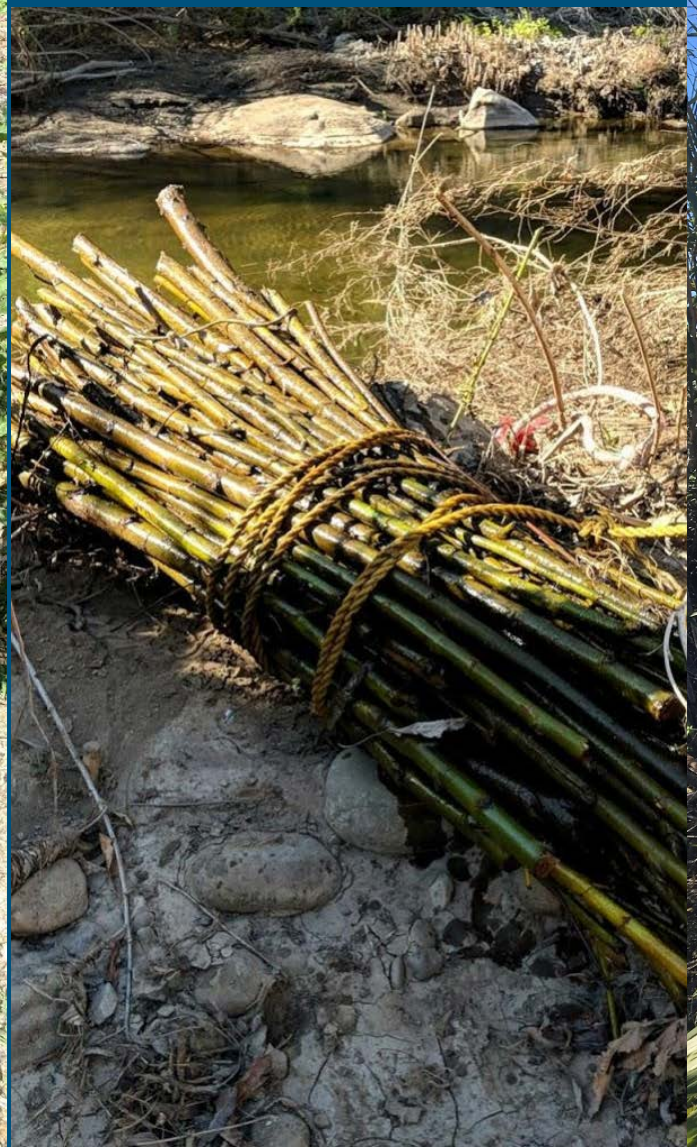


The return of animals: biodiversity, population





Restoration Activities



Students have helped in restoration efforts while learning about fire ecology

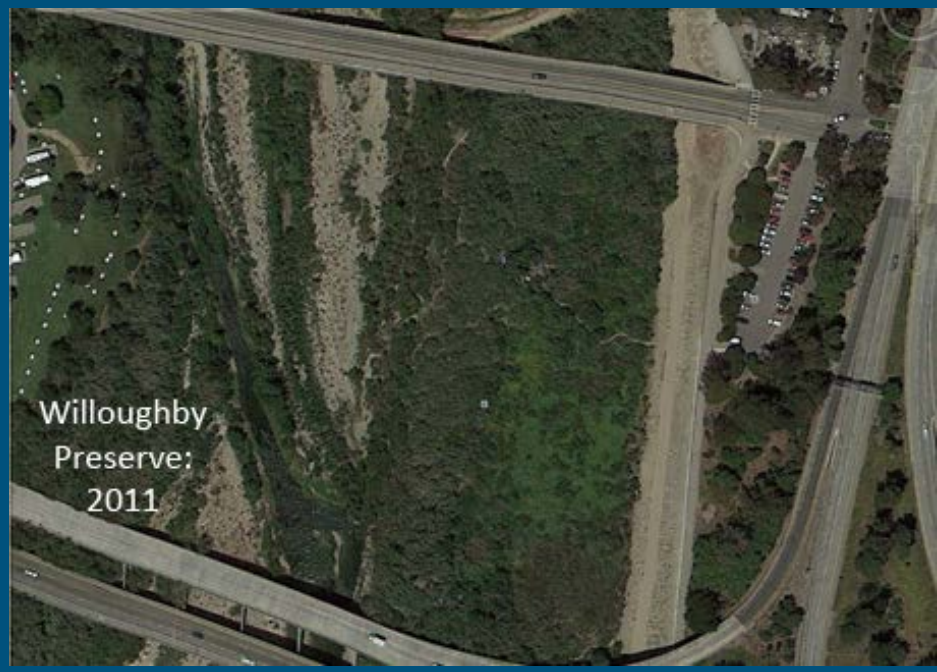
Hundreds of volunteers have worked to repair trails, remove metal discovered by the fire, plant 750 trees and shrubs, spread mulch, and remove invasive species that were trying to take over.

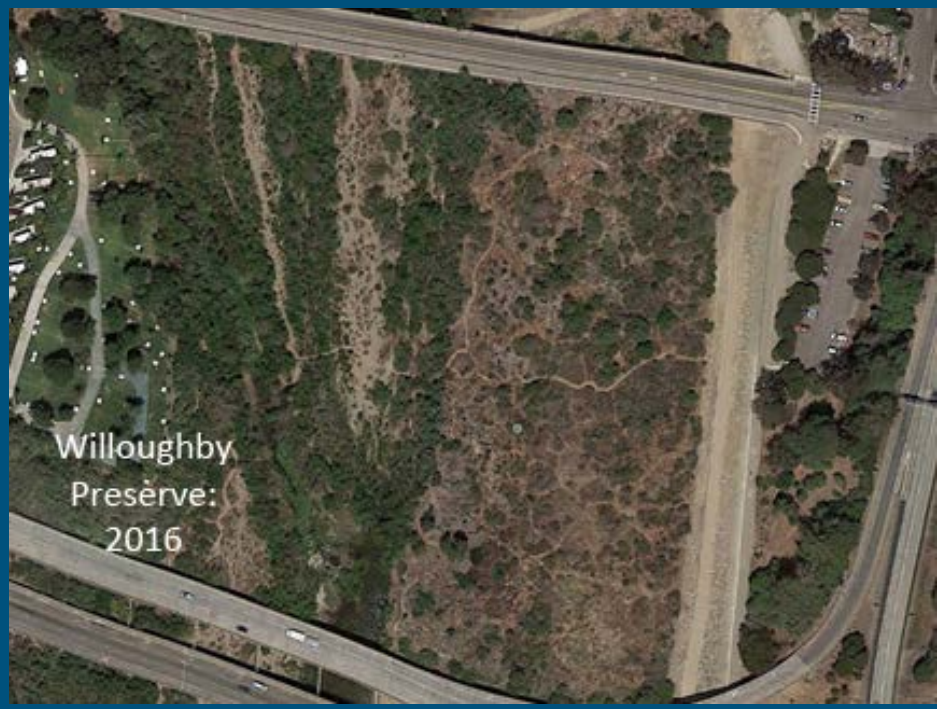
Our Reasoning: Resource Triage

- Financial Constraints
  - Don’t have the funding for soil and plant genetic testing
- Staff limitations
  - Small field staff with thousands of acres to oversee
- Keystone or Endangered Species
  - Indicators of system health and one species can get funding to protect the whole habitat
- Has to be inclusive
  - We rely on help from volunteers so data collection has to be user friendly and easily accessible
  - For long term tracking, simplified metrics (mainly qualitative) have better longevity.

Monitoring Approaches

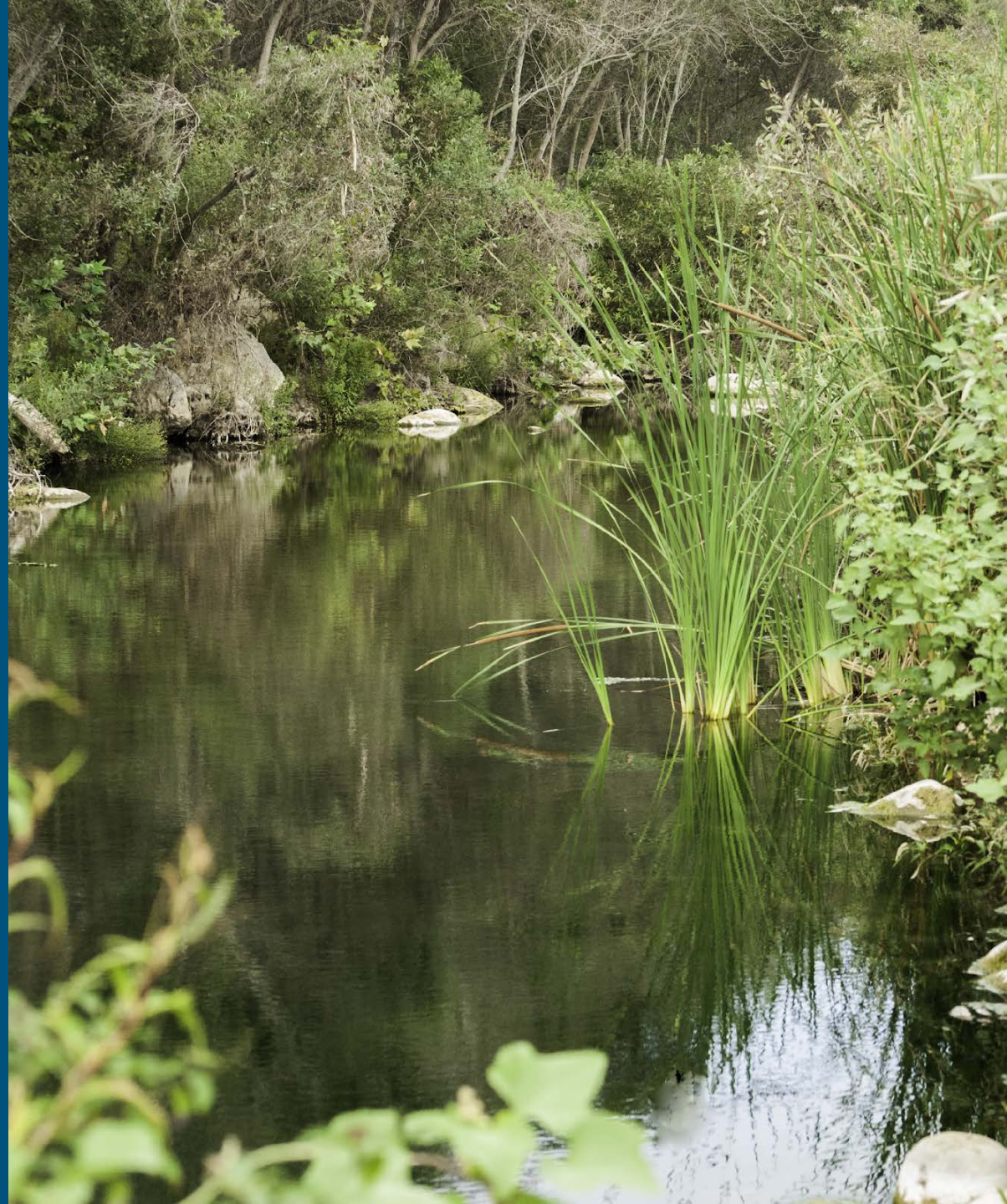
- Preserve annual reports
- Project Reports
- Comparative photos
- Google Earth Images and Drone photography





Defining Program Success

- Grant/contract agreements typically set parameters
- Understanding realities and restrictions
- Set realistic goals, optimism can be a good driver but can also be hazardous if you cannot achieve your goals.
- Industry Standards and Published Research Project results
- Using restoration success standards
    - I.e.: Planting survivorship



Why is it important to monitor and evaluate?

- Always learning! You can use your successes to plan future restoration activities, share your expertise with others, save on resources, and use on future grants.
- You want to respect your grantors! They want their money to go the farthest, to be the most successful, and to spend the least amount of money possible.
    - Increasing communication with grantors increase likelihood of s continued funding
- Long term is just as important. The climate is fluctuating so you need to be creative, responsive, and adaptive. This can only be done if you are actively monitor your projects.

Questions?

Volunteer Restoration Event details on venturalandtrust.org/events (on-hold)

Sponsor a tree, lecture, or restoration event

Membership numbers help show that the community is invested in these projects which is what large grantors look for.

Become a member today!

VENTURA LAND TRUST

Property Management and Monitoring

Ethan Inlander

Project Director – Stewardship and Restoration Team

The Nature Conservancy in California

The Nature Conservancy’s Conservation Estate In California

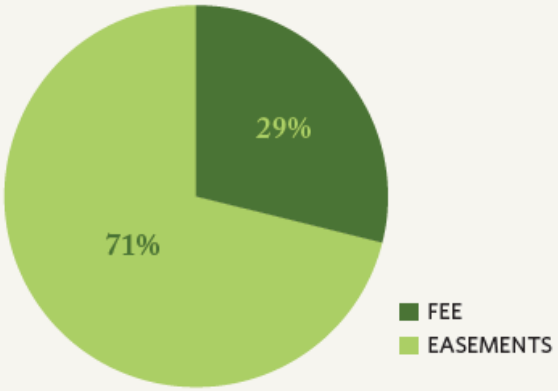
Statewide Snapshot

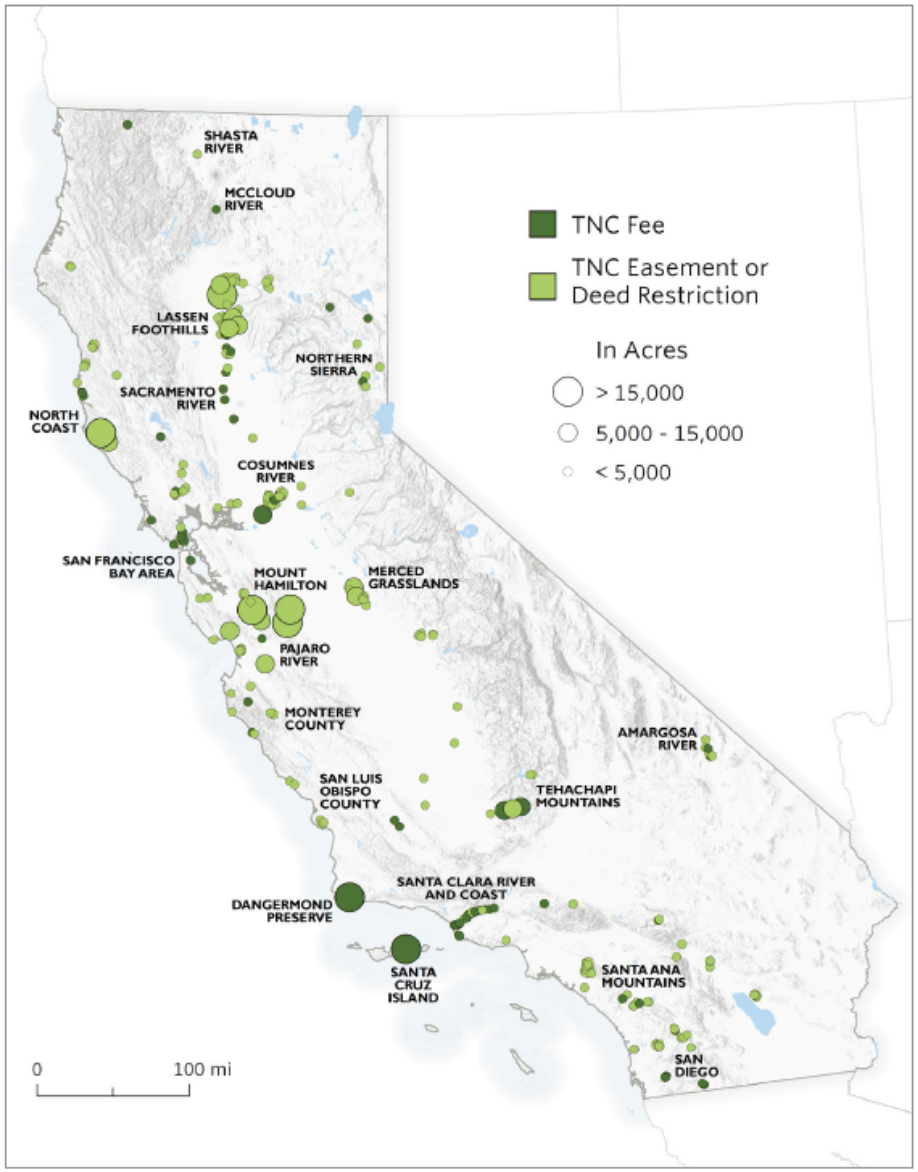
The Nature Conservancy

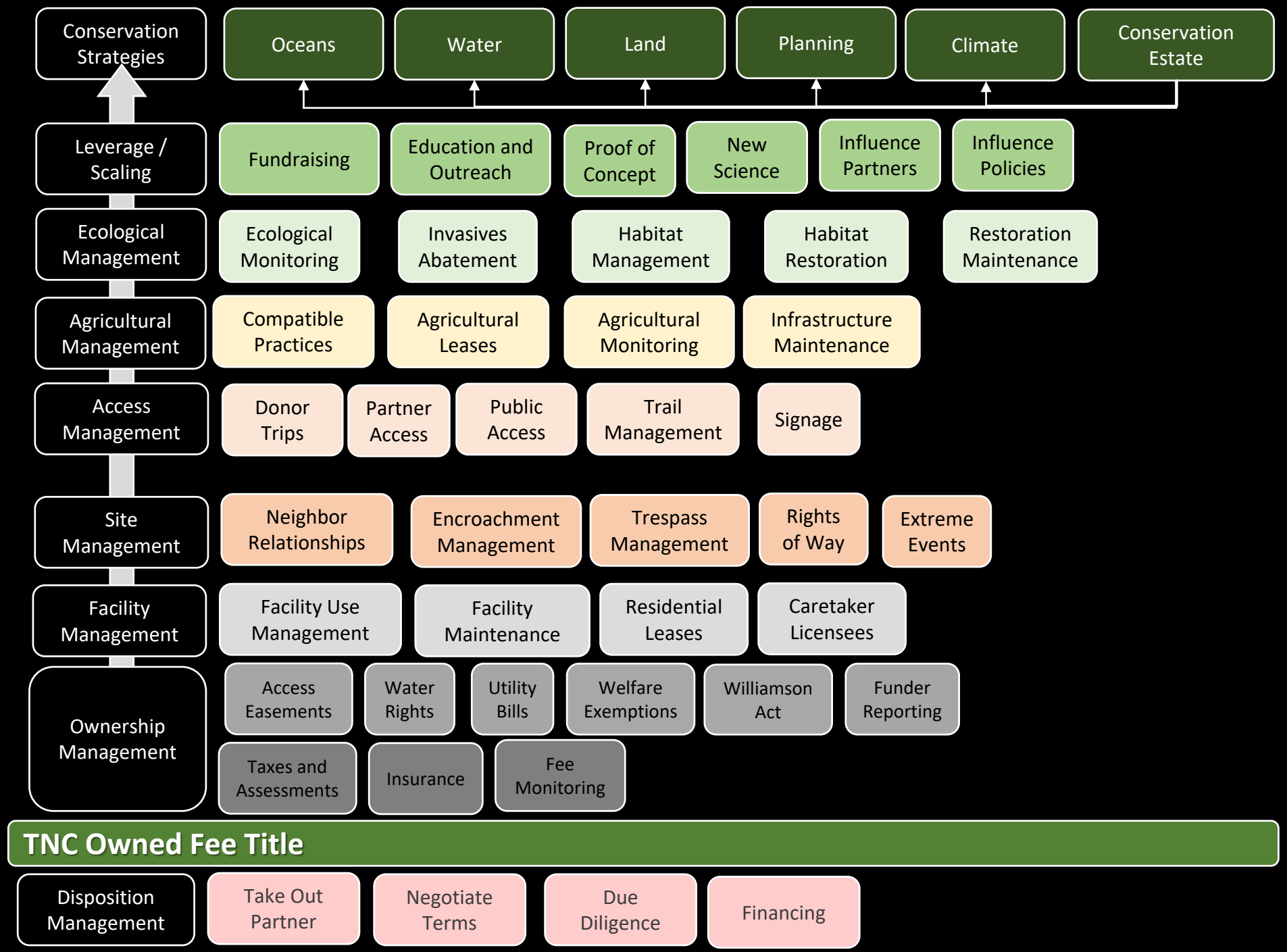
CALIFORNIA CHAPTER SUMMARY

Fee:
103 Properties
136,720 Acres

Conservation Easements and Deed Restrictions:
180 Properties
374,480 Acres



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Water
Land
Planning
Climate
Conservation Estate
Leverage / Scaling
Fundraising
Education and Outreach
Proof of Concept
New Science
Influence Partners
Influence Policies
Ecological Management
Ecological Monitoring
Invasives Abatement
Habitat Management
Habitat Restoration
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Agricultural Management
Compatible Practices
Agricultural Leases
Agricultural Monitoring
Infrastructure Maintenance
Access Management
Donor Trips
Partner Access
Public Access
Trail Management
Signage
Site Management
Neighbor Relationships
Encroachment Management
Trespass Management
Rights of Way
Extreme Events
Facility Management
Facility Use Management
Facility Maintenance
Residential Leases
Caretaker Licensees
Ownership Management
Access Easements
Water Rights
Utility Bills
Welfare Exemptions
Williamson Act
Funder Reporting
Taxes and Assessments
Insurance
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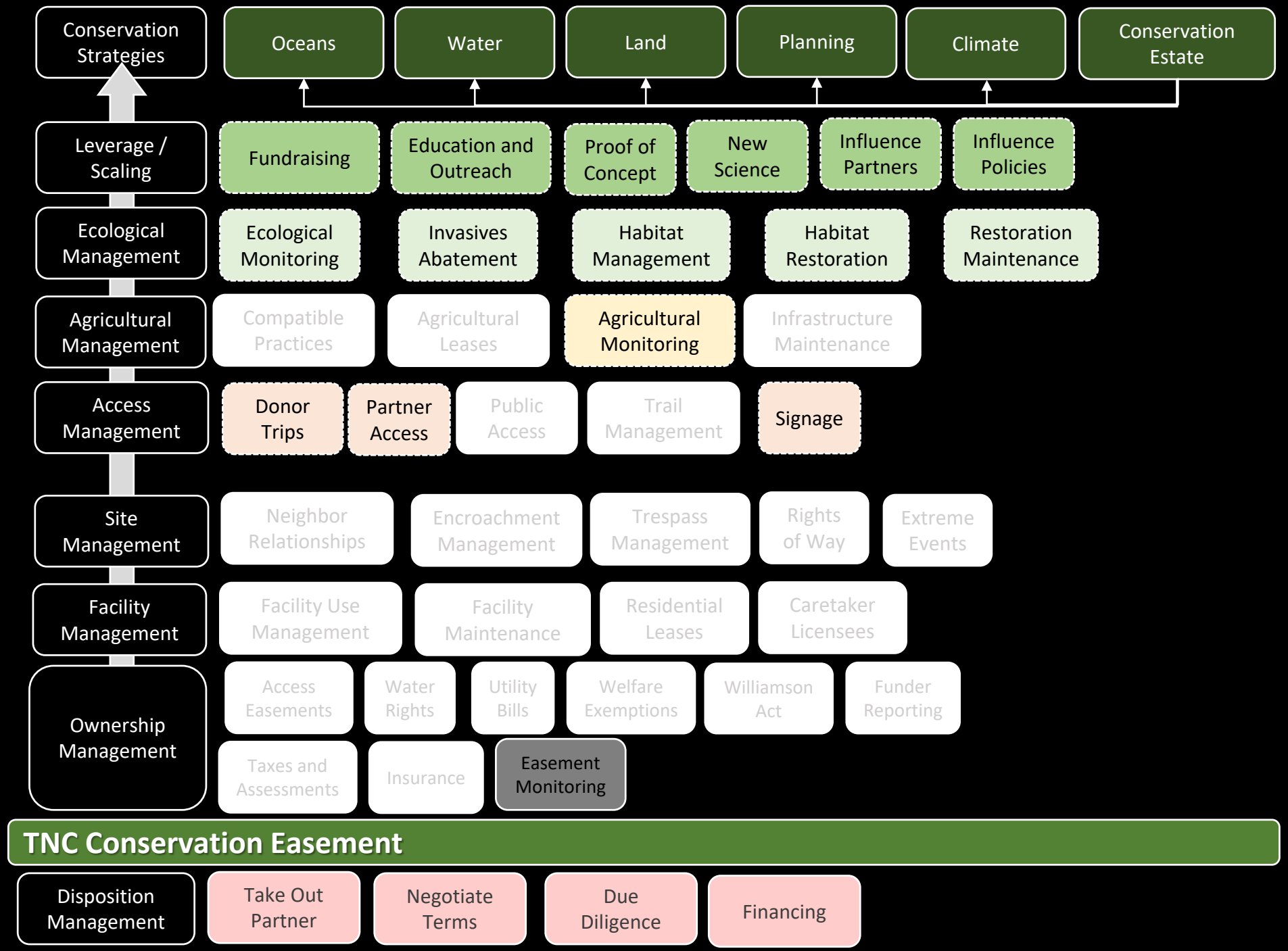
TNC Owned Fee Title
Disposition Management
Take Out Partner
Negotiate Terms
Due Diligence
Financing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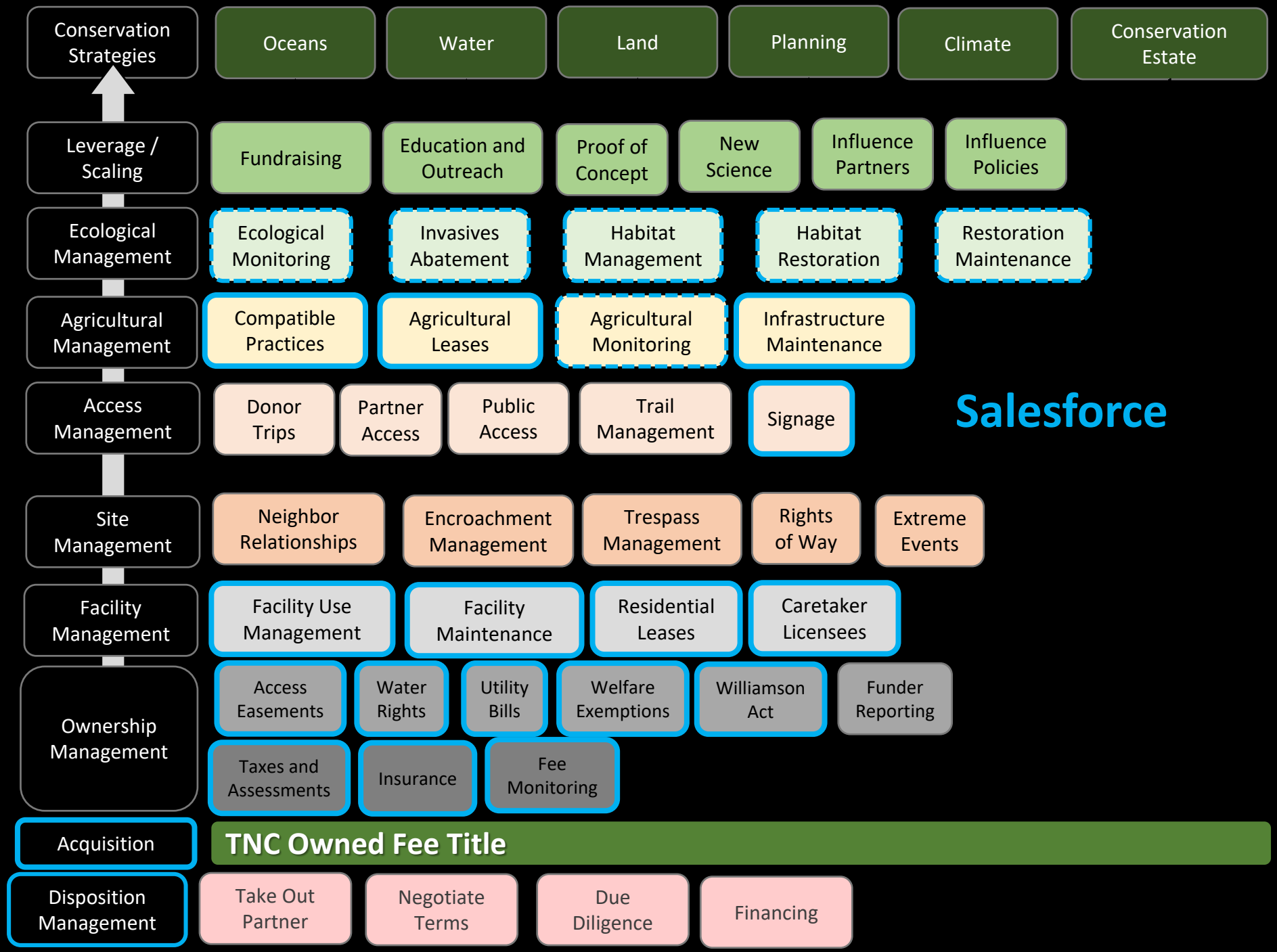
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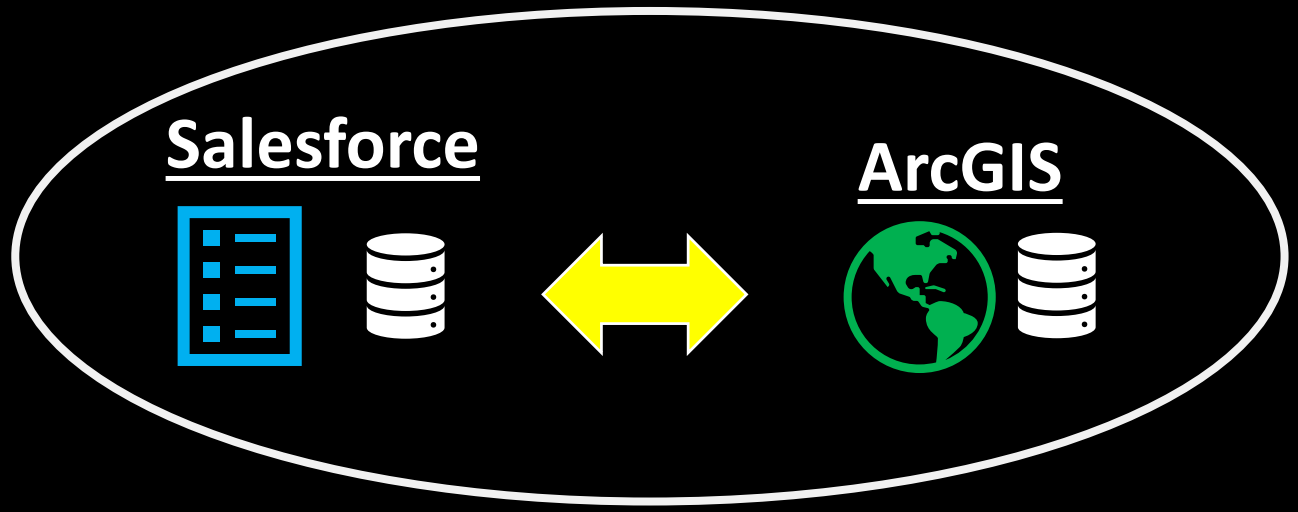
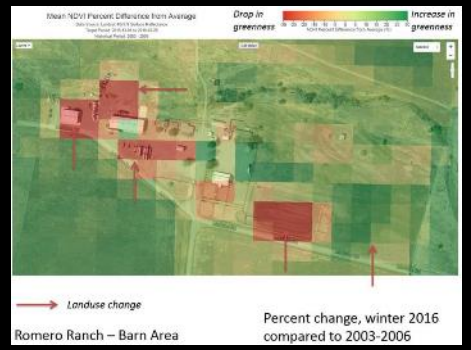
Systems of Record



Compliance Monitoring

Traditional → Mobile

Remote



In-Person — Continuum of Perspective — Remote

Quality / Effectiveness

More — Level of Detail — Less

Less — Area Inspected — More

Less — Frequency of Observation — More

Efficiency

More — Time Spent ($) — Less

Less — Time Saved — More

Cost?

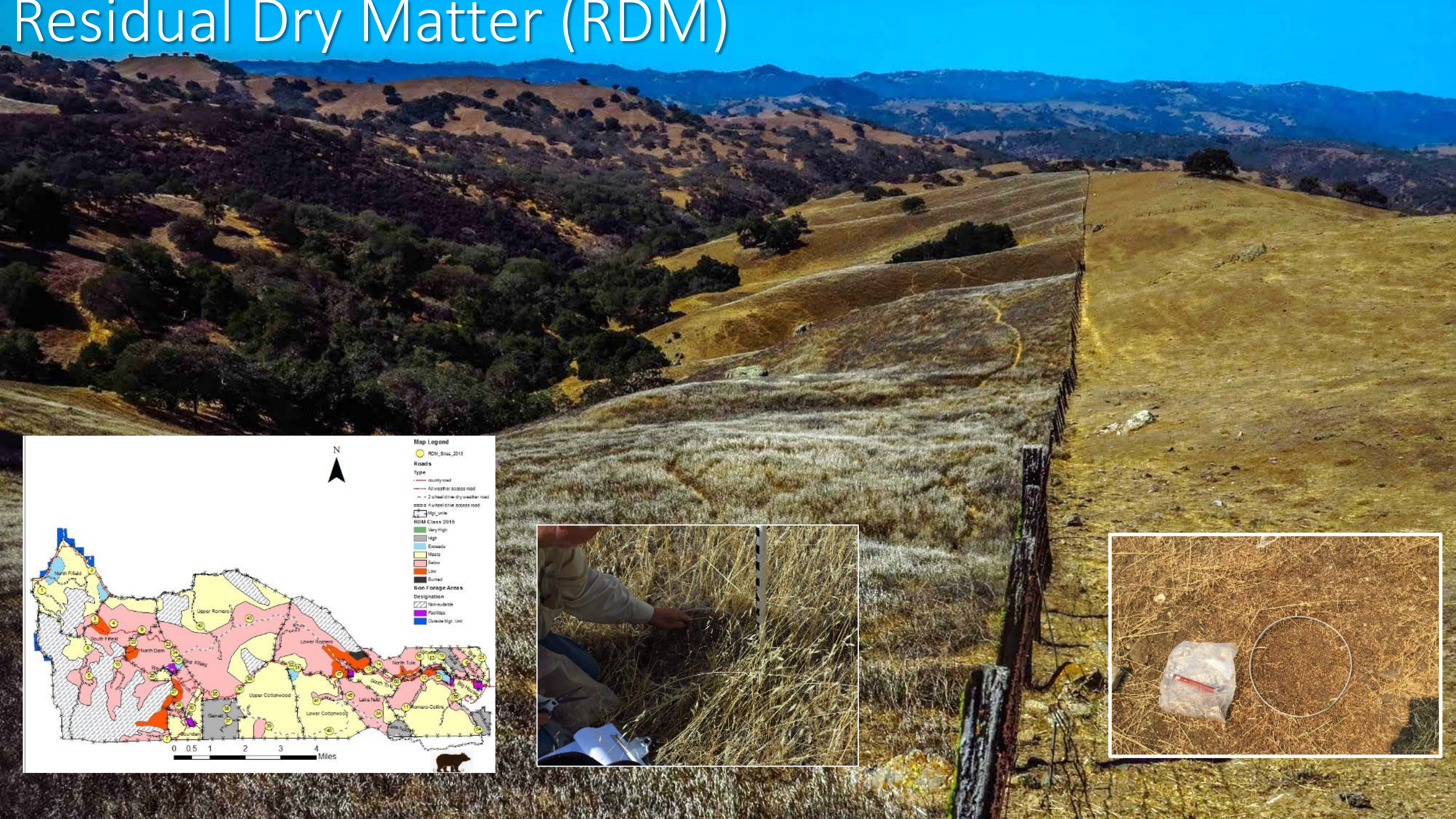
Human Elements

More — Landowner Interaction — Less

Less — Human Safety — More

About 68% of current interest acreage is in Ranch properties

Residual Dry Matter (RDM)



Residual Dry Matter M

Secure | https://rdm.codefornature.org/#ranch/romero/pasture/entire-property/variable/ndvi/view/0

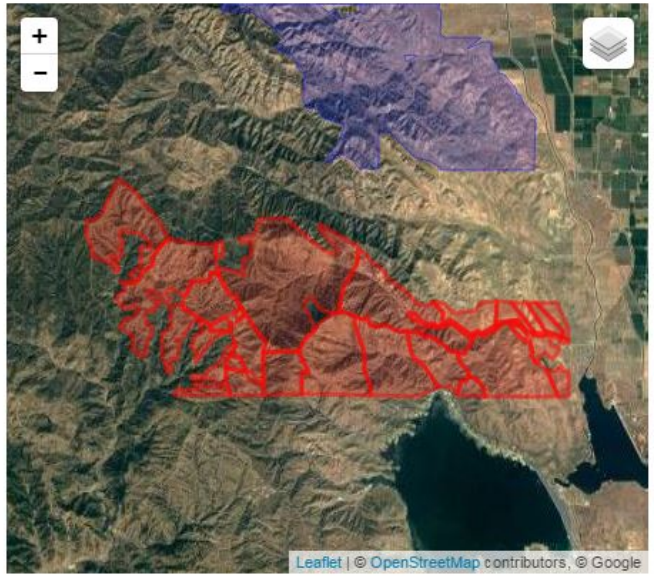
Apps AHPS CPC QPF PQPF RFC AGO Google Earth RDMapper CT California Chapter

Residual Dry Matter Mapper | Home | My properties | Analytics | About | Contact | testuser | Logout

Latest data: May 9, 2017

Romero

Select ranch ▾ Select pasture ▾

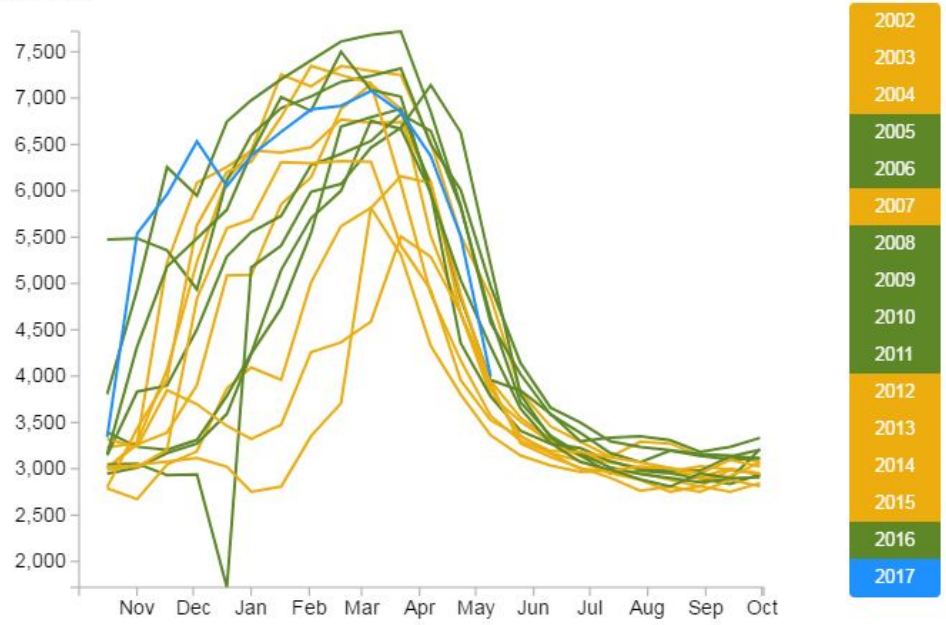


Map Overlay: Selection | Compliance Summary

Variable: MODIS NDVI | MODIS Lai | MODIS Fpar | PRISM Cumulative precipitation

Scale : fitted | fixed

Unit: NDVI



Timeline | Distribution | Annual max | Date of max | Annual mean | Annual sum

no data — in compliance — out of compliance

last complete water year — current year (no monitoring data yet)

average of all data (compliance, non-compliance, no information)

Residual Dry Matter M

Secure | https://rdm.codefornature.org/#ranch/romero/pasture/upper-romero/variable/ppt/view/0

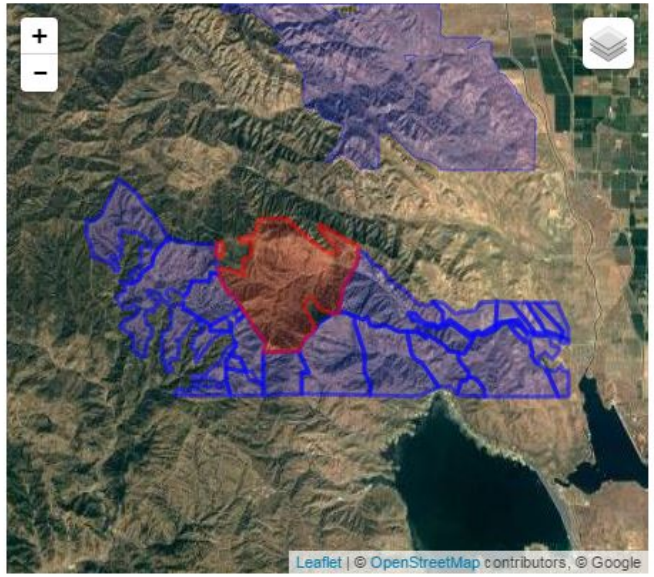
Apps AHPS CPC QPF PQPF RFC AGO Google Earth RDMapper CT California Chapter

Residual Dry Matter Mapper | Home | My properties | Analytics | About | Contact | testuser | Logout

Latest data: April 1, 2017

Romero Upper Romero

Select ranch | Select pasture

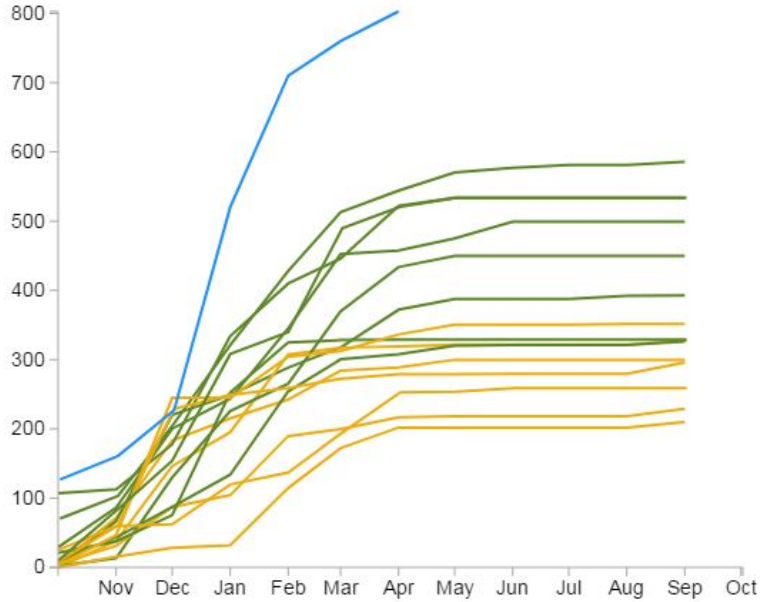


Map Overlay: Selection | Compliance Summary

Variable: MODIS NDVI | MODIS Lai | MODIS Fpar | PRISM Cumulative precipitation

Scale : fitted | fixed

Unit: mm



2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

Timeline | Distribution | Annual max | Date of max | Annual mean | Annual sum

no data | in compliance | out of compliance

last complete water year | current year (no monitoring data yet)

average of all data (compliance, non-compliance, no information)

Residual Dry Matter M

Secure | https://rdm.codefornature.org/#ranch/romero/pasture/upper-romero/variable/ndvi/view/2

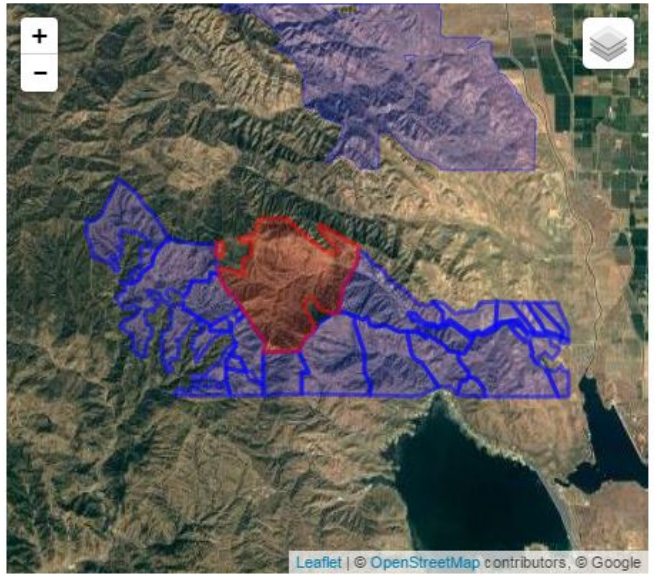
Apps AHPS CPC QPF PQPF RFC AGO Google Earth RDMapper CT California Chapter

Residual Dry Matter Mapper | Home | My properties | Analytics | About | Contact | testuser | Logout

Latest data: May 9, 2017

Romero Upper Romero

Select ranch | Select pasture

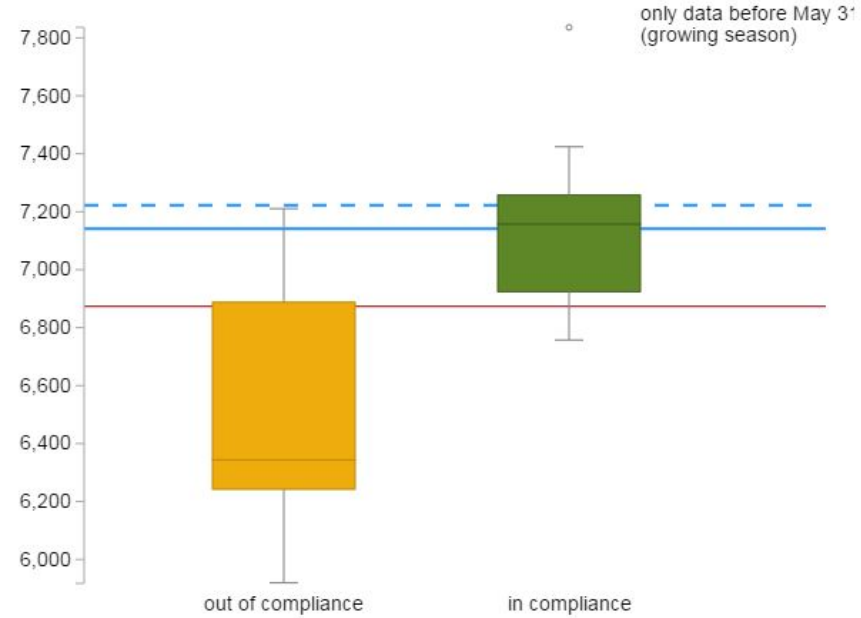


Map Overlay: Selection | Compliance Summary

Variable: MODIS NDVI | MODIS Lai | MODIS Fpar | PRISM Cumulative precipitation

Scale : fitted | fixed

Unit: NDVI



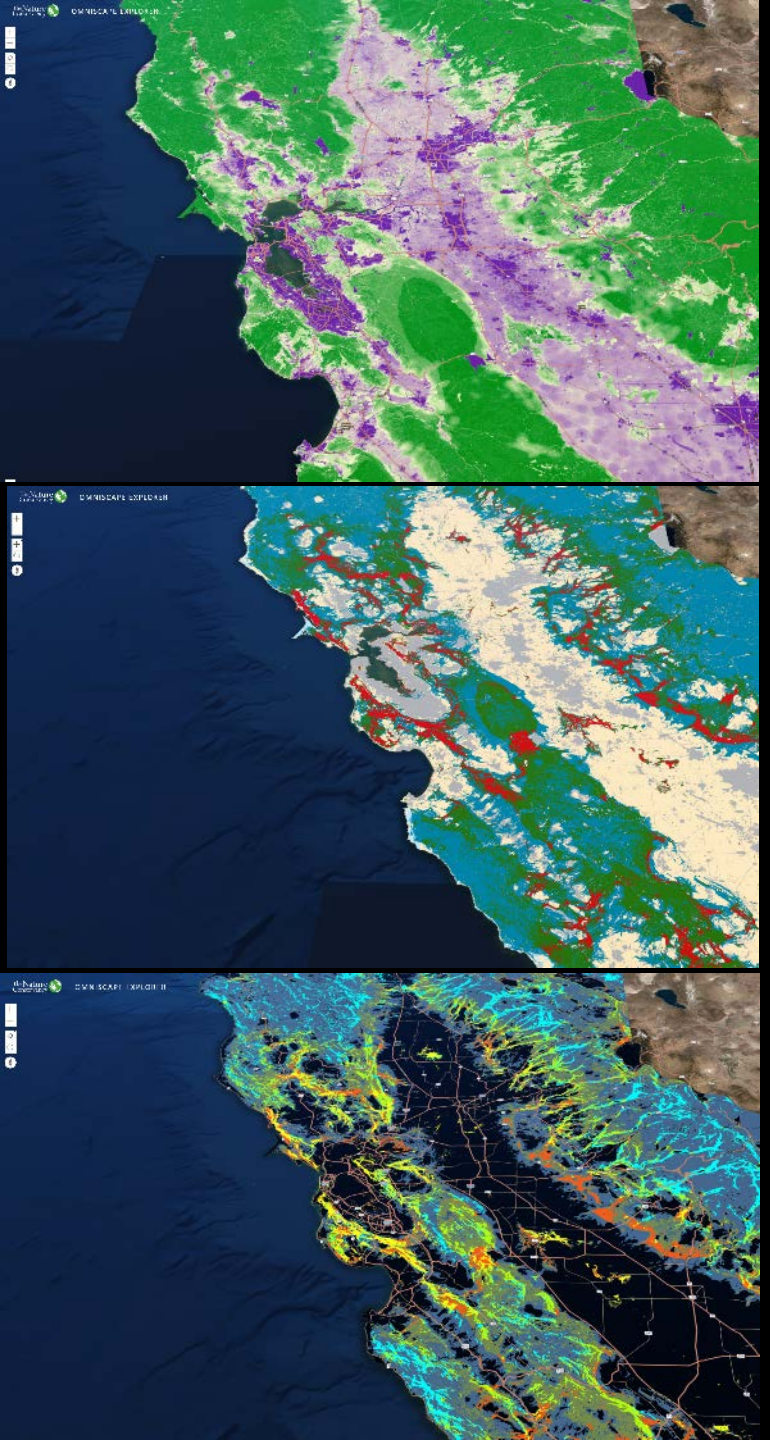
Timeline | Distribution | Annual max | Date of max | Annual mean | Annual sum

no data | in compliance | out of compliance

last complete water year | current year (no monitoring data yet)

average of all data (compliance, non-compliance, no information)

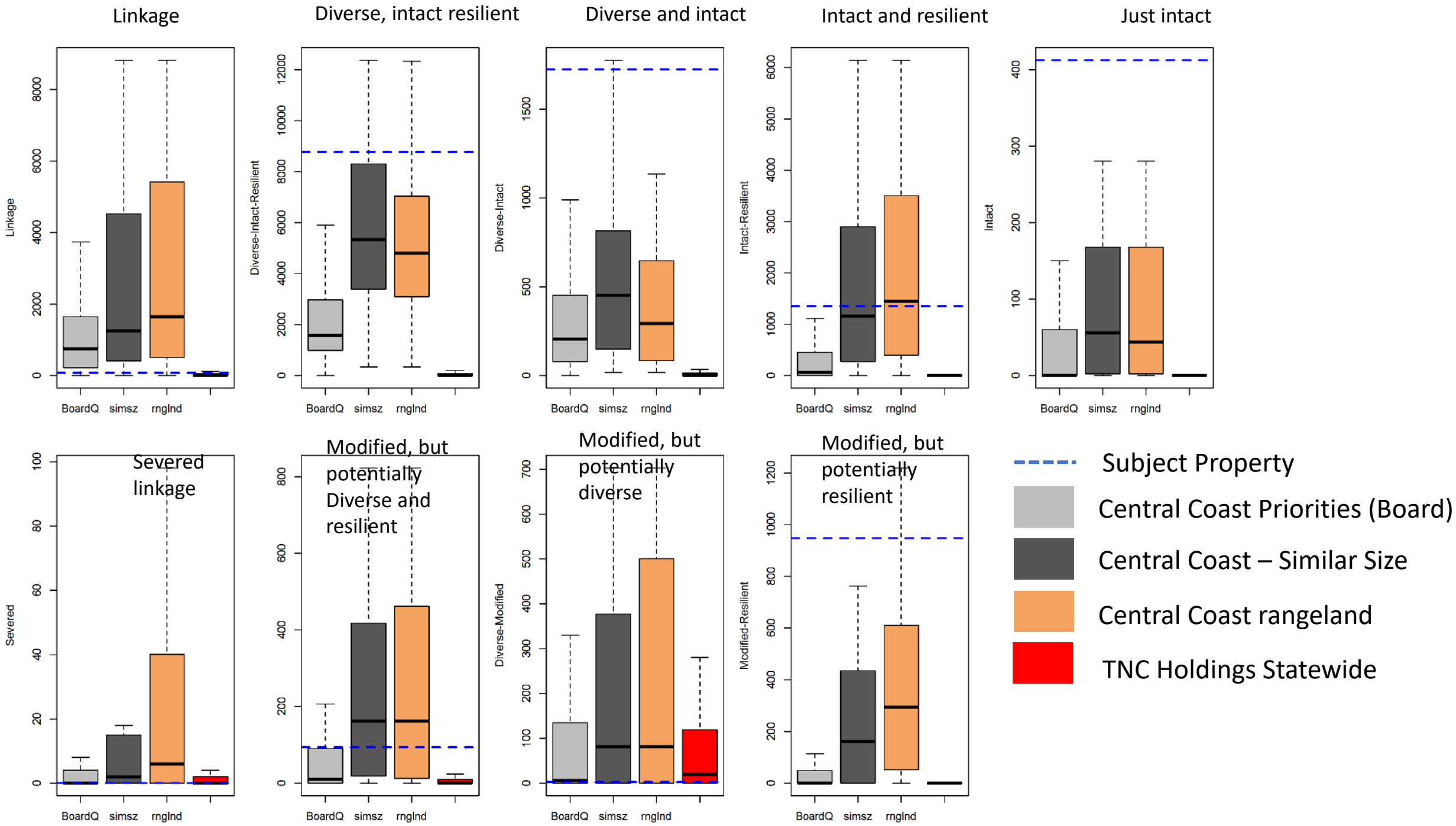
Jack and Laura Dangermond Preserve

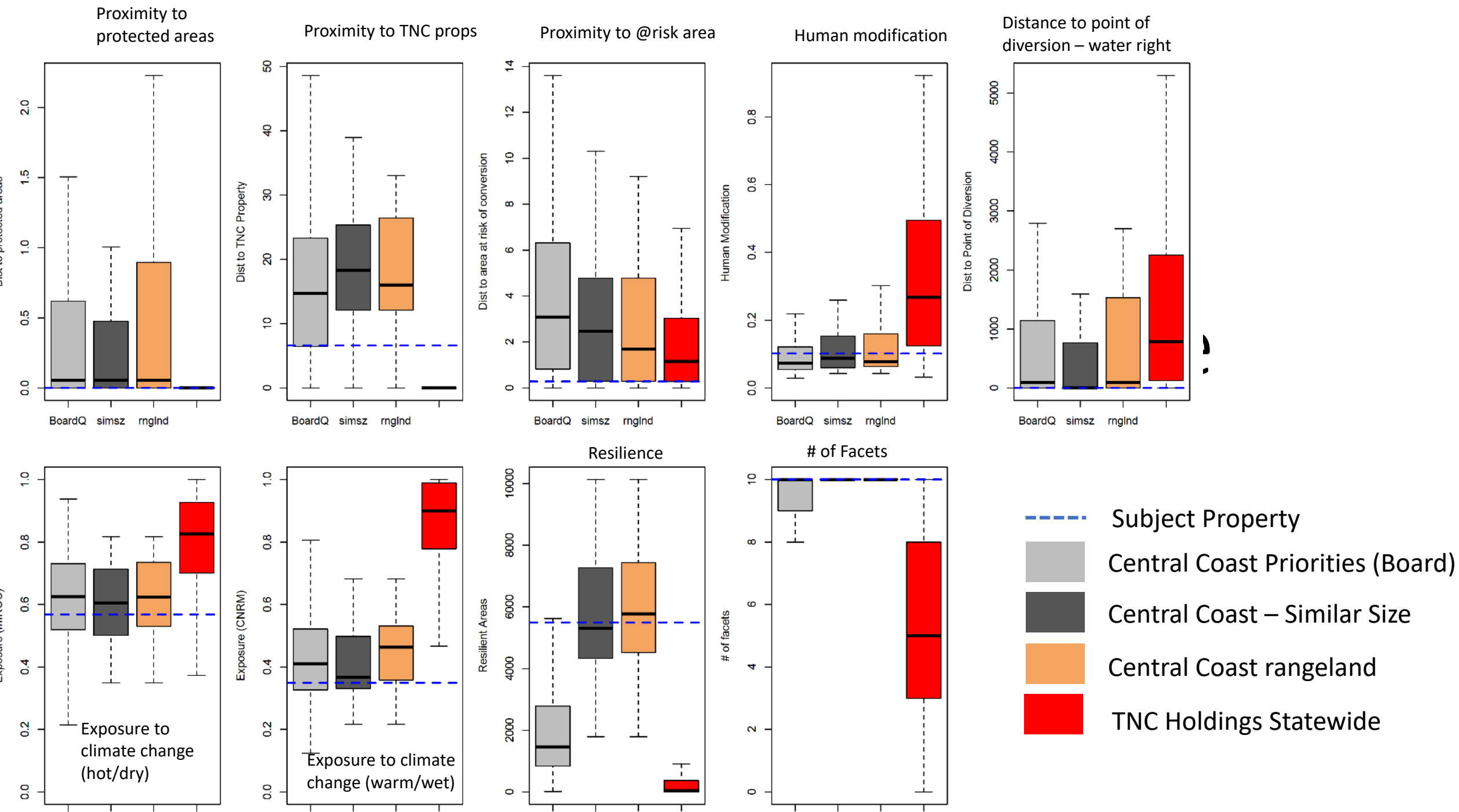


Omniscape: Climate Linkages

https://omniscape.codefornature.org/

Protecting Land and Water


Linkage
Diverse, intact resilient
Diverse and intact
Intact and resilient
Just intact
Linkage
Diverse-Intact-Resilient
Diverse-Intact
Intact-Resilient
Intact
Severed
Diverse-Modified
Modified-Resilient
BoardQ
simsz
rnglnd
Severed linkage
Modified, but potentially Diverse and resilient
Modified, but potentially diverse
Modified, but potentially resilient
Subject Property
Central Coast Priorities (Board)
Central Coast – Similar Size
Central Coast rangeland
TNC Holdings Statewide


Proximity to protected areas
Proximity to TNC props
Proximity to @risk area
Human modification
Distance to point of diversion – water right
Dist to TNC Property
Dist to area at risk of conversion
Human Modification
Dist to Point of Diversion
BoardQ
simsz
rnglnd
Exposure to climate change (hot/dry)
Exposure (CNRM)
Exposure to climate change (warm/wet)
Resilience
Resilient Areas
# of Facets
# of facets
Subject Property
Central Coast Priorities (Board)
Central Coast – Similar Size
Central Coast rangeland
TNC Holdings Statewide

General

Size	##### acres
Ecoregion	Central Coast

Land Cover

Hardwood Woodland	21%
Herbaceous	53%
Shrub	23%
Agriculture	3%

Assets - PLW Mapping

Linkage	1.4%
Diverse , Intact, Resilient	87%
Diverse, Intact	5%
Intact, Resilient	2%
Intact	0%
Severed Linkage	0
Potentially diverse, Modified, Potentially resilient	0.1%
Potentially diverse, Modified	4%
Modified, potentially resilient	0

Threats and Opportunities

Distance to protected lands	Adjacent
Distance to TNC current holdings	10 Miles
At risk of future development or distance to risk of development	3.5 mi from areas at risk of development
Fire risk	16% very high 73% high
Distance to a disadvantaged community	In or adjacent to
Likelihood of having a water right	Point of diversion 180m from property
Human modification	0.07 (natural)

Ecosystem Services

100 acre floodplain	363 Acres
Drinking water source watershed	0 Acres
Above ground carbon	4033 Metric Tons
Soil carbon	340712 Metric Tons
Important Farmland	1236 Acres

Connectivity

Climate linkage	0.9%
Channelized linkage	.5%
Intensified connectivity	11%
Diffuse connectivity	82%

Climate change

Veg exposure to climate change (warm, wet future)	On average, not exposed (.26)
Veg exposure to climate change (hot,dry future)	On average, not exposed (.43)
Resilient areas	60%

Carrizo Plain

The Stakeholder Engagement Process

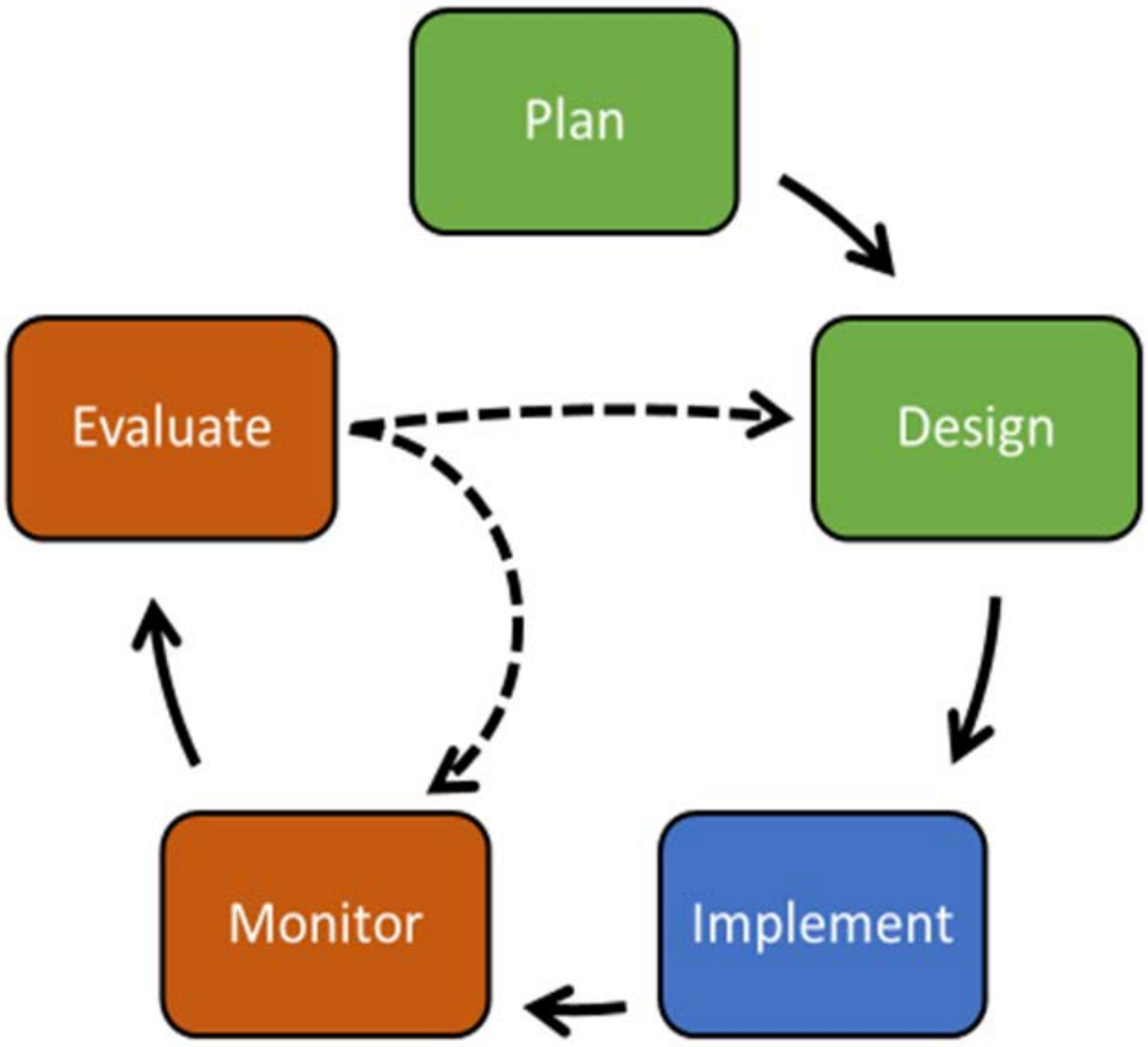
MSU
Elea Becker Lowe & Brad Juarros

Key Terms

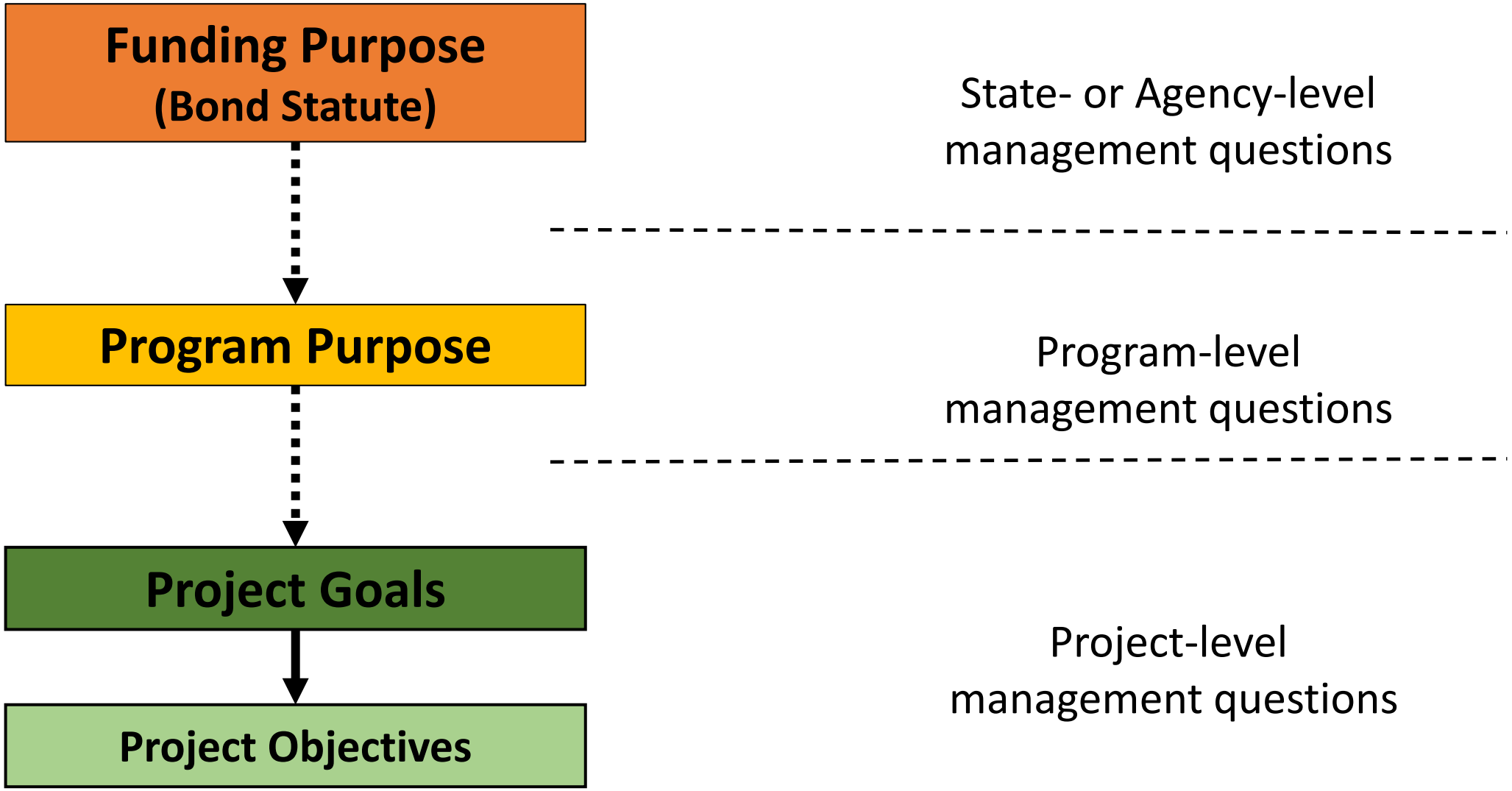
- ✓ ***Goal**: a desired state or status of a situation that depicts realistic outcomes.
- ✓ ***Objective**: specific actionable goal that explicitly describes a realistic and measurable attribute.
- ✓ ***Indicator**: a general gauge used to evaluate, and answer questions related to the achievement of an objective.
- ✓ ***Metric**: a unique parameter of interest that can be measured to obtain information about the subject(s) of study.
- ✓ **Management Question** – questions driven by the goal of improving management decisions.

**As defined in our White Paper*

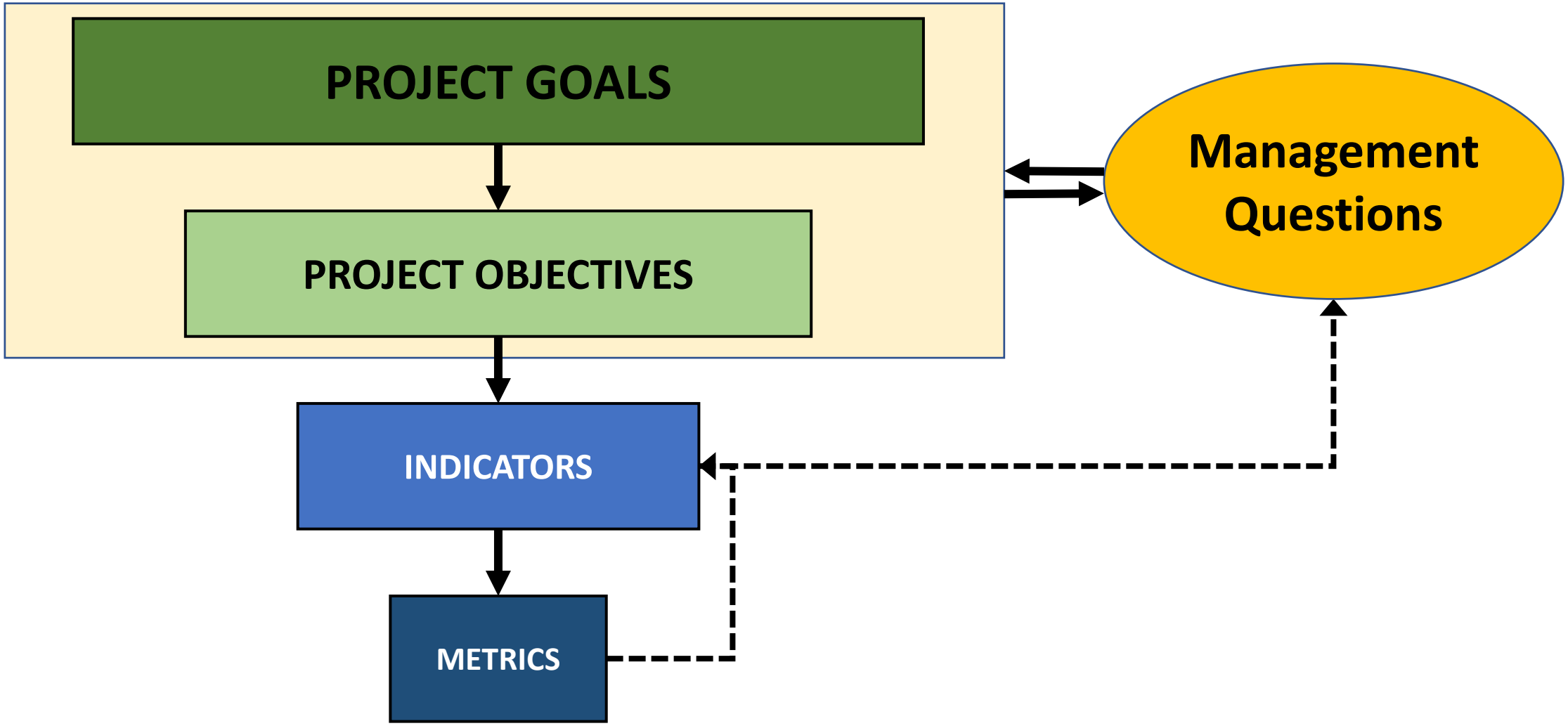
Adaptive Management Cycle



Connection between State and Program Purposes



Developing Monitoring and Program Evaluation Metrics: Fundamental Monitoring Elements



Developing Monitoring and Program Evaluation Metrics: Example

***Funding Purpose*:** Improve the sustainability and livability of California communities while improving quality of life in those communities (Prop 84)

***Program Purpose*:** Assist in the restoration and protection of critical habitat and improve public access to nature.

***Project Goal*:** Public has access to protected and restored riparian habitat in the California Creek Park District.

Developing Monitoring and Program Evaluation Metrics: Example

Project Goal: Public has access to protected and restored riparian habitat in the California Creek Park District.

Objective 1: Protect and enhance native habitat in and around the California Creek Park District

Objective 2: Ensure safe transportation options to the California Creek Park from California Creek Downtown

Objective 3: Develop ADA-compliant park infrastructure and facilities

Objective 4: Provide educational and interpretive signage throughout the Park District

Developing Monitoring and Program Evaluation Metrics: Example

Project Goal: Public has access to protected and restored riparian habitat in the California Creek Park District.

Objective 1: **Protect and enhance native habitat in and around the California Creek Park District**

Objective 2: Ensure safe transportation options to the California Creek Park from California Creek Downtown

Objective 3: Develop ADA-compliant park infrastructure and facilities

Objective 4: Provide educational and interpretive signage throughout the Park District

Developing Monitoring and Program Evaluation Metrics: California Creek Park District

Objective 1: Protect and enhance native habitat in and around the California Creek Park District

Indicator 1.1: Population of fish and wildlife species within the California Creek Park District project area

Metric 1.1.1: Number of "X" species counted within [wildlife observation area 1] on the first of each month at XX:XX time of day

Developing Monitoring and Program Evaluation Metrics: California Creek Park District

Objective 1: Protect and enhance native habitat in and around the California Creek Park District

Indicator 1.2: Abundance of plant species in California Creek Park District project area

Metric 1.2.1: Number of "X" plant species counted within [observation site 1] on the first of each month.

Metric 1.2.2: Area of vegetative cover of "X" plant species within [observation site 1] on the first of each month.

Developing Monitoring and Program Evaluation Metrics: California Creek Park District

Objective 1: Protect and enhance native habitat in and around the California Creek Park District

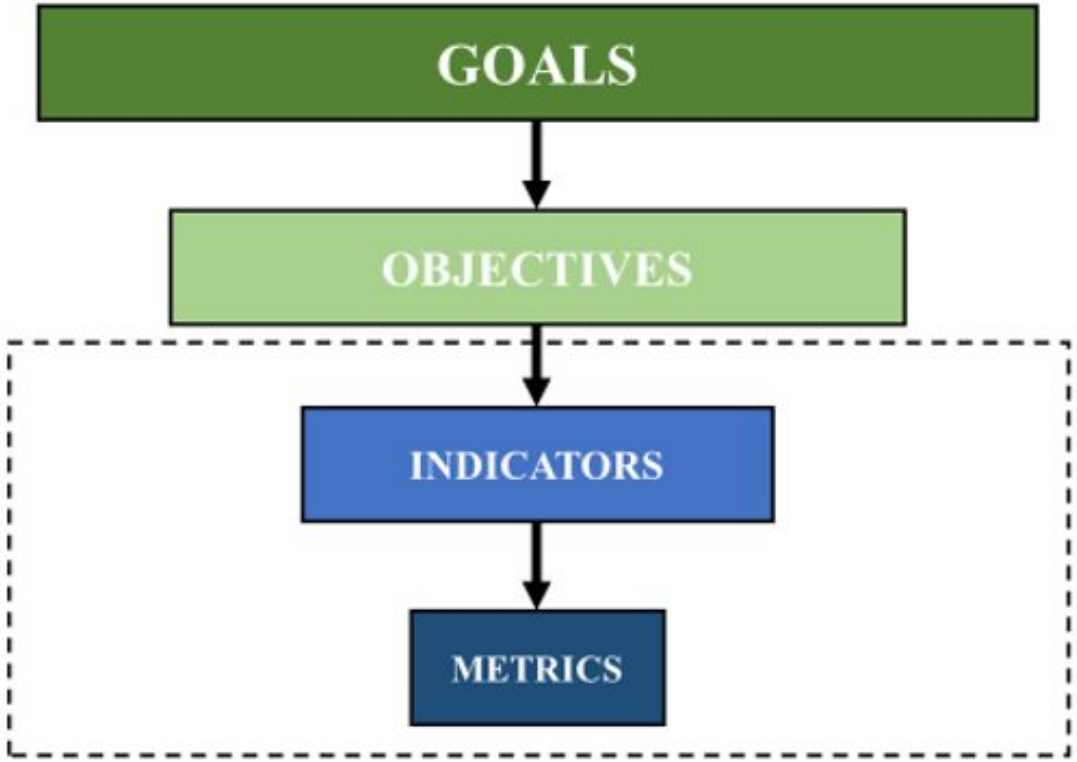
Indicator 1.3: Water quality at California Creek Park district

Metric 1.3.1: Percent oxygen content at [water quality testing site 1] on the first of each month at XX:XX time of day

Metric 1.3.2: Turbidity at [water quality testing site 1] on the first of each month at XX:XX time of day

Metric 1.3.3: Percent shade cover at [water quality testing site 1] on the first of each month at XX:XX time of day

How are we going to make this happen?



SMART Criteria

Specific

Measurable

Achievable

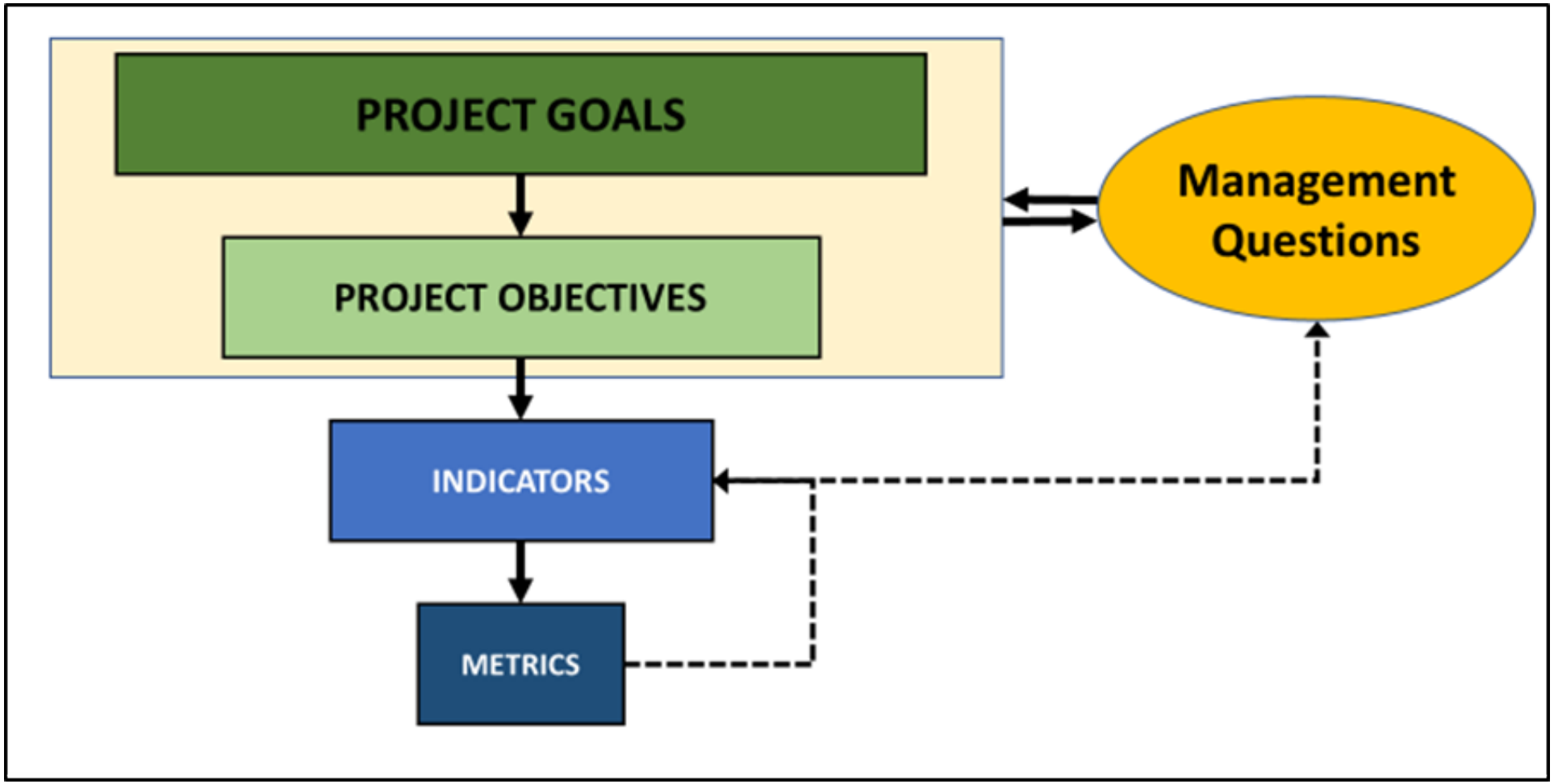
Representative

Time-sensitive

Organizing Workshop Discussions

Acquisitions and Easements	Projects that acquire property or establish a conservation, flood, or agricultural easement on some property.
Recreation and Access	Projects to increase access to nature and recreational or cultural opportunities, access for severely disadvantaged and disadvantaged communities, access to museum or heritage trails and sites, and park safety.
Habitat (Aquatic)	Projects include work related to removal of non-native/invasive species, reintroduction of native species, restoration of physically or biologically degraded habitat, improving or maintaining acceptable levels of water quality and environmental flow, facilitating the natural migration of fish, and other wildlife, and other relevant topics.
Habitat (Terrestrial)	Projects that include work related to land conversion, removal of non-native/invasive species, reintroduction of native species, and restoration of physically or biologically degraded habitat.
Capital Improvements	Projects that consider capital outlay including hard infrastructure (bathrooms, benches, interpretive signage, levees, bridges, building renovations), erosion control and bank stability, and urban green infrastructure (e.g. bioswales, rain gardens, urban tree planting, projects relating to aquifer recharge).

Today's Focus: Management Questions



Questions That Will Be Addressed In the Workshops

Based on the management questions that are determined in this kickoff meeting,

- What common metrics could be tracked across similar project types to inform project-, program-, and bond-level analysis ?
- Which metrics are most appropriate and realistic to track in a central system ?

Discussion Questions

1. What **additional projects** should be considered as part of this category?

2. What are the important **management questions** that should be addressed through RAPTR to promote project success?

Wrap Up and Next Steps

Gina Ford & Rae Eaton

Workshop Series Timeline

Thank you for joining us today!

Please feel free to contact us at:

MSU@resources.ca.gov

Or visit our webpage for more information:

https://resources.ca.gov/Initiatives/Monitoring-and-Stewardship-Unit