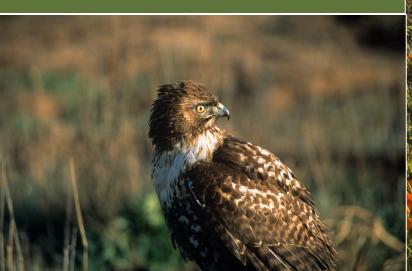




## Climate Action through Conservation

Capital Region Climate Readiness Collaborative June 9, 2015





### A Landscape Approach to Climate Change Solutions



Sonoma County Agricultural Preservation and Open Space District

- Can reduce GHG emissions through changes in land use, management and conservation
- GHG reductions can be quantified
- Counties can make a difference

## **Project Goal and Objectives**

# Enable local governments to reduce GHG emissions through changes in land use, management and conservation

- Developing GHG accounting method and tools
- Align with other public and environmental benefits
- Align county (landscape) scale GHG reductions with climate policy incentives

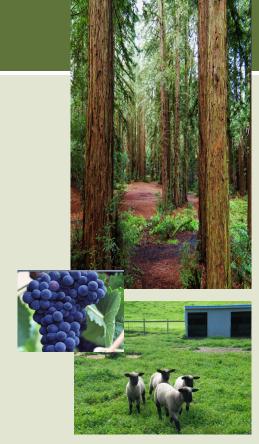
## **Sonoma County Context**

- Strong focus on GHG emissions reduction
  - Regional Climate Protection Authority
  - Climate Action 2020 (Multiple Sectors )

Quarter Cent Sales Tax – leverage other investments







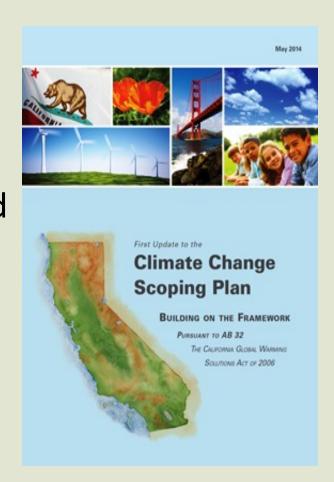


#### Incentives for Natural Resources and Climate Benefits

California's climate law (AB 32)

- GHG cap & trade program:
   Greenhouse Gas Investment Fund
- Post 2020 GHG reduction goals

 Policies emphasize need to include natural resources, establish goals and develop GHG accounting tools



### **GHG Reductions in a Multi-benefit Context**

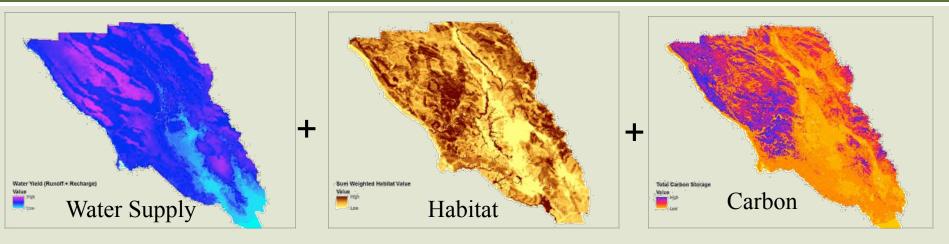
### Two integrated analysis elements

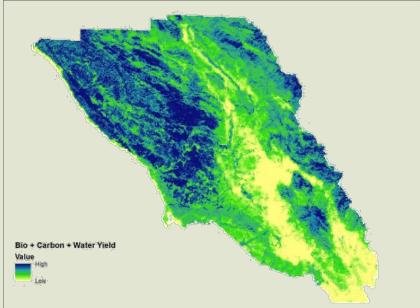
Land-based carbon inventory and accounting framework



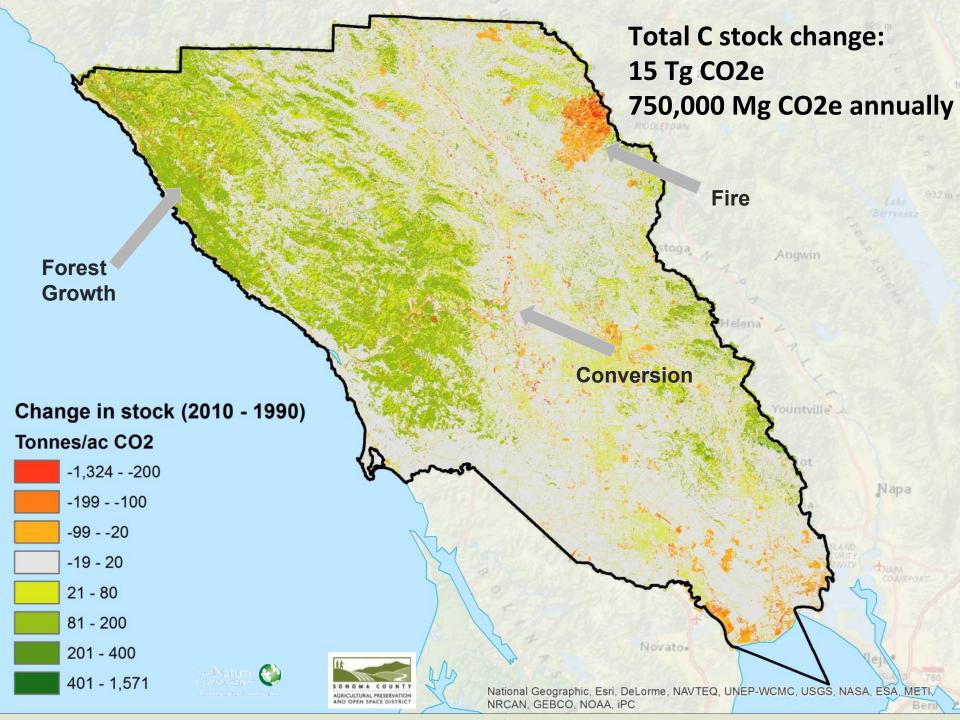
Conservation values assessment (habitat, ecosystem services)

## Conservation Values Assessment: Defining Multi-Benefit Areas



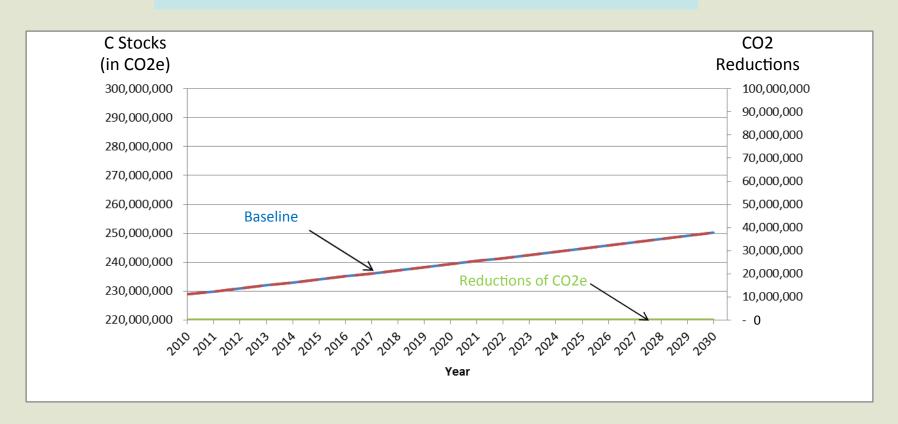


Combined Value



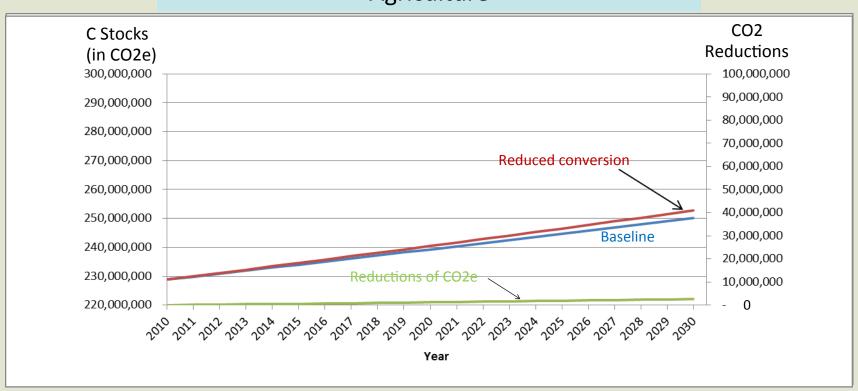
### **Example of GHG Baseline**

#### **Baseline Scenario**



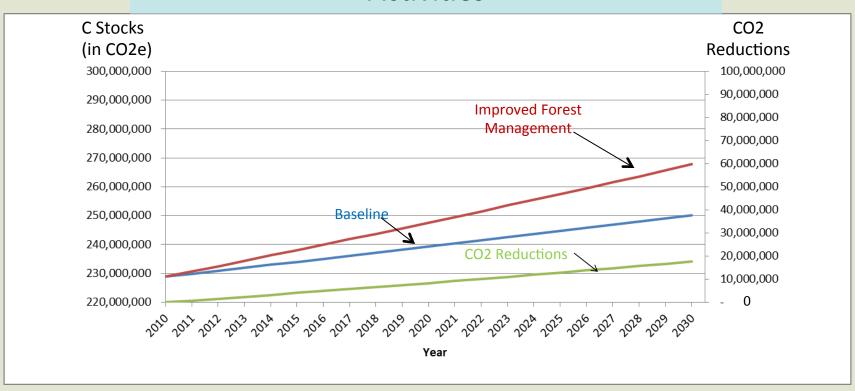
## Example of GHG Baseline and Reduction Scenarios

## Scenario: Reduced Conversion of Shrublands to Agriculture

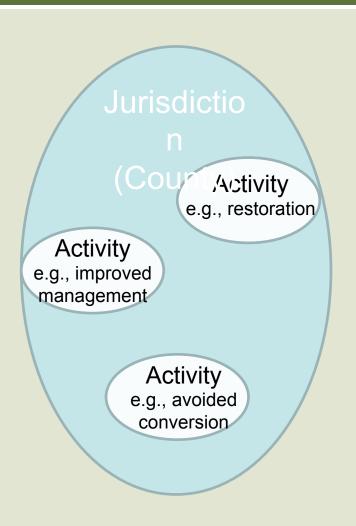


## **Example of GHG Baseline and Reduction Scenarios**

## Scenario: Improved Forest Management Activities



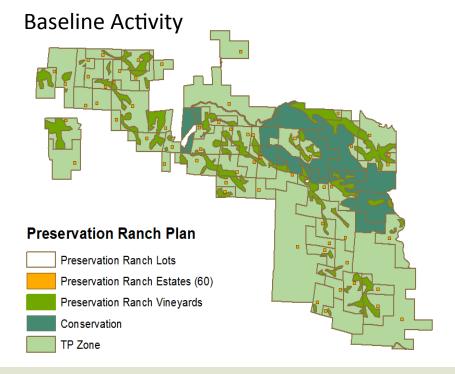
## **County Jurisdiction Accounting and Activities**

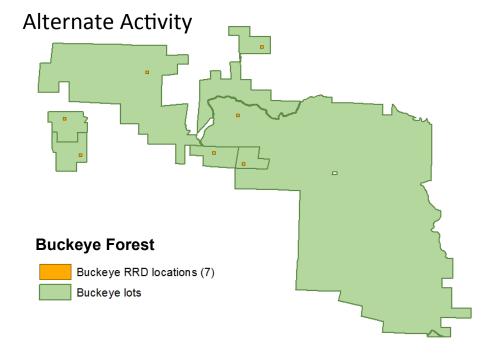


Quantifies GHG effects of activities across jurisdiction

Jurisdictional-scale GHG Accounting

- Carbon inventory
- GHG baseline and reduction scenarios
- Ongoing monitoring and reporting at different scales
- Verification





## Activity Example: Avoided Conversion

Tonnes CO2e
2010
Tonnes CO2e
2030

Baseline Activity **Preservation Ranch Scenario** 

8,685,577 8,516,019

Alternate Activity

Buckeye Forest Scenario

8,685,577 9,491,862

**Total Reductions (CO2e)** 

975,843

### **Climate Policy Progress**

- Green House Gas Reduction Fund Budget Process
  - \$92 million for 2014/15
  - Potential \$175+ million for 2015/16
- GHG Investment Plan Update

Post-2020 GHG reduction goals

Other opportunities – CEQA?

## **Project Status and Next Steps**

- Summer 2015:
  - Finish urban forest module
  - Augment and road test GHG tool
- Early Fall 2015:
  - GHG tool and template available
  - Report/"How to" guide
- Ongoing:
  - Outreach and climate policy alignment

### **Discussion and Questions**

- How would this tool be valuable in your work?
- How could this tool/project be made more valuable?

Other questions?

