

Sierra Nevada Carbon Cooperative

Sierra Nevada Alliance
Annual Conference
09.14.08

SBC Mission



Pioneering innovative approaches and solutions to foster community vitality, economic prosperity, environmental quality, and social fairness in the Sierra Nevada

Voluntary Carbon Markets

STANDARDS

- Chicago Climate Exchange (CCX)
- Voluntary Carbon Standard 2007
- California Climate Action Registry
- The Gold Standard
- Climate, Community, and Biodiversity Standard

SELLERS

- TerraPass
- Native Energy
- Carbon Fund
- EcoSecurities
- Live Neutral
- Sterling Planet



Voluntary Carbon Market Growth

VOLUME

VALUE

	2006 (Mt CO ₂ e)	2007 (Mt CO ₂ e)	2006 (\$ million)	2007 (\$ million)
CCX	10.3	22.9	38.3	72.4
OTC	14.3	42.1	58.5	258.4

California Climate Action Registry Forest Protocols



KEY CONCEPTS

- Real reductions
- Baseline
- Additional
- Leakage
- Permanence
- Serial numbers for each ton
- 3rd party verified
- Native forests
- Natural forest management
- Co-benefits
- Maintain forestland
- Conservation easement

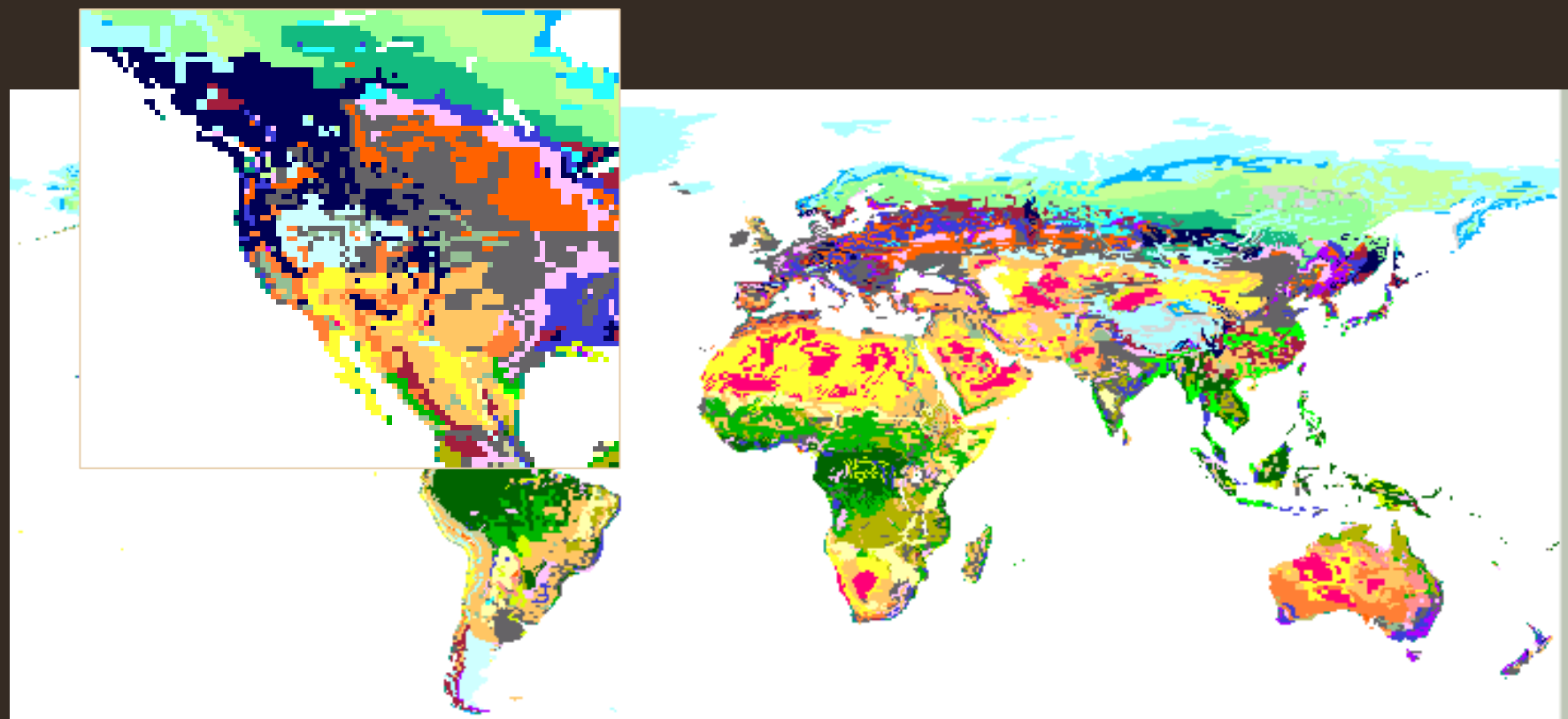


Project Types

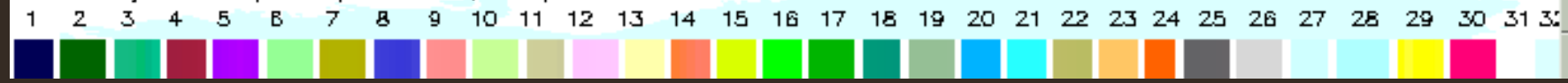


1. Conservation management
2. Reforestation
3. Avoided Conversion

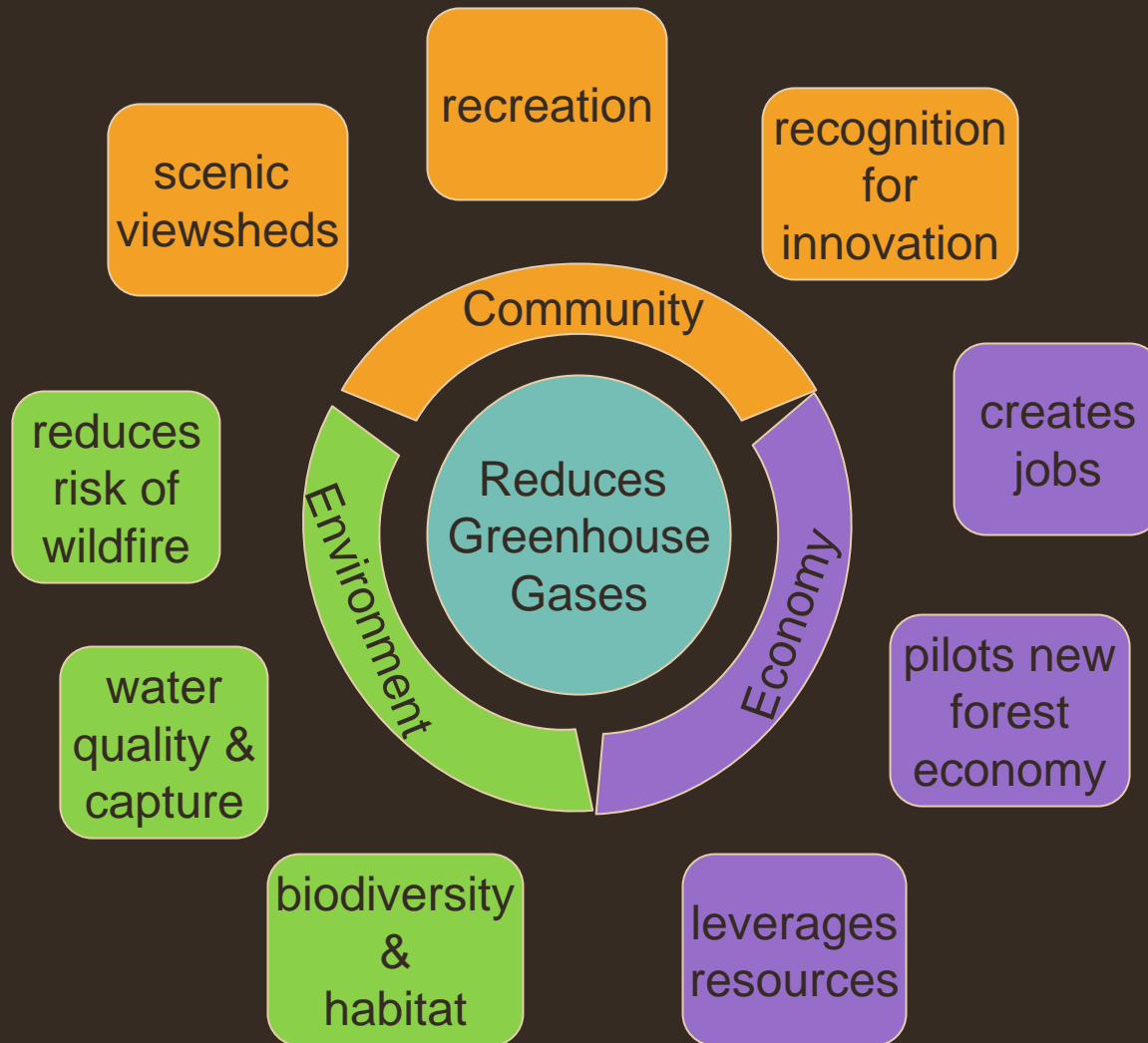
Carbon Density



World Ecosystem Complexes (Olson et al., 1985)



Benefits of Forest Carbon Sequestration



Sierra Nevada Carbon Cooperative

GOAL: to capture the opportunity for the Sierra Nevada to mitigate and adapt to climate change in a way that promotes ecological integrity and brings economic prosperity to the region.

WHY: To reinvest in the Sierra and develop a conservation and restoration economy

HOW: Reduce barriers of participation in emerging carbon market for individual landowners

Carbon Market Barriers

- Conservation easements
- Conceptual project development
- Upfront costs (inventory, registration, reporting, verification)
- Ongoing costs
- Risk of loss (fire, pests, pathogens, etc.)

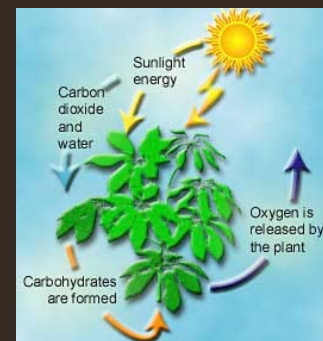
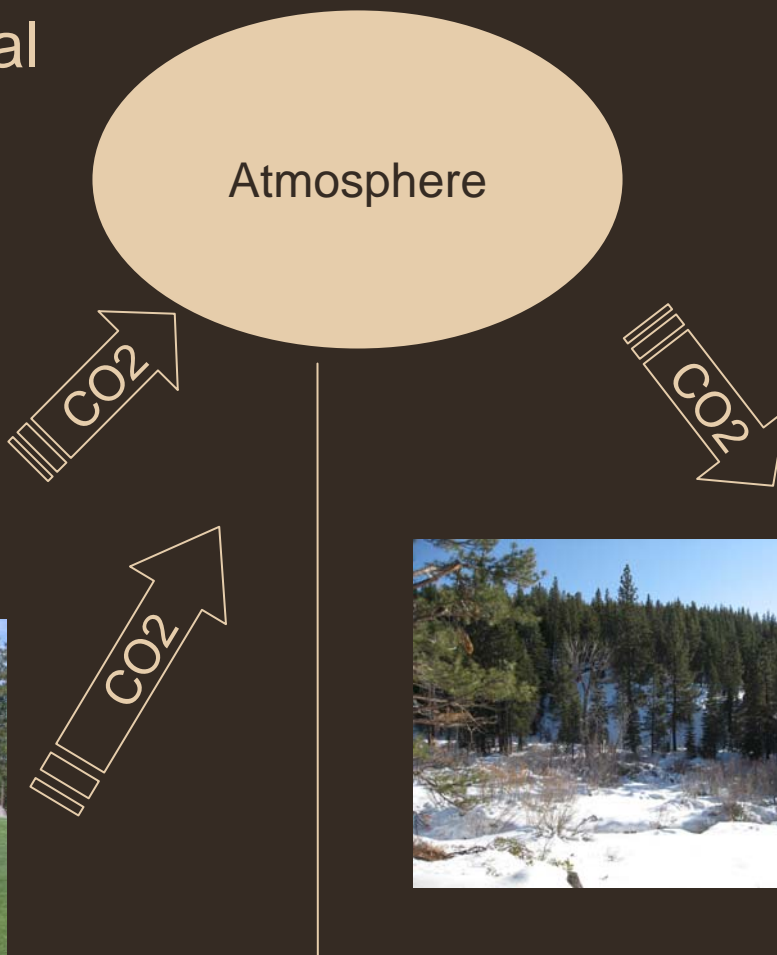
Waddle Ranch 1,462 acres Martis Valley, CA



Waddle Ranch- project activity

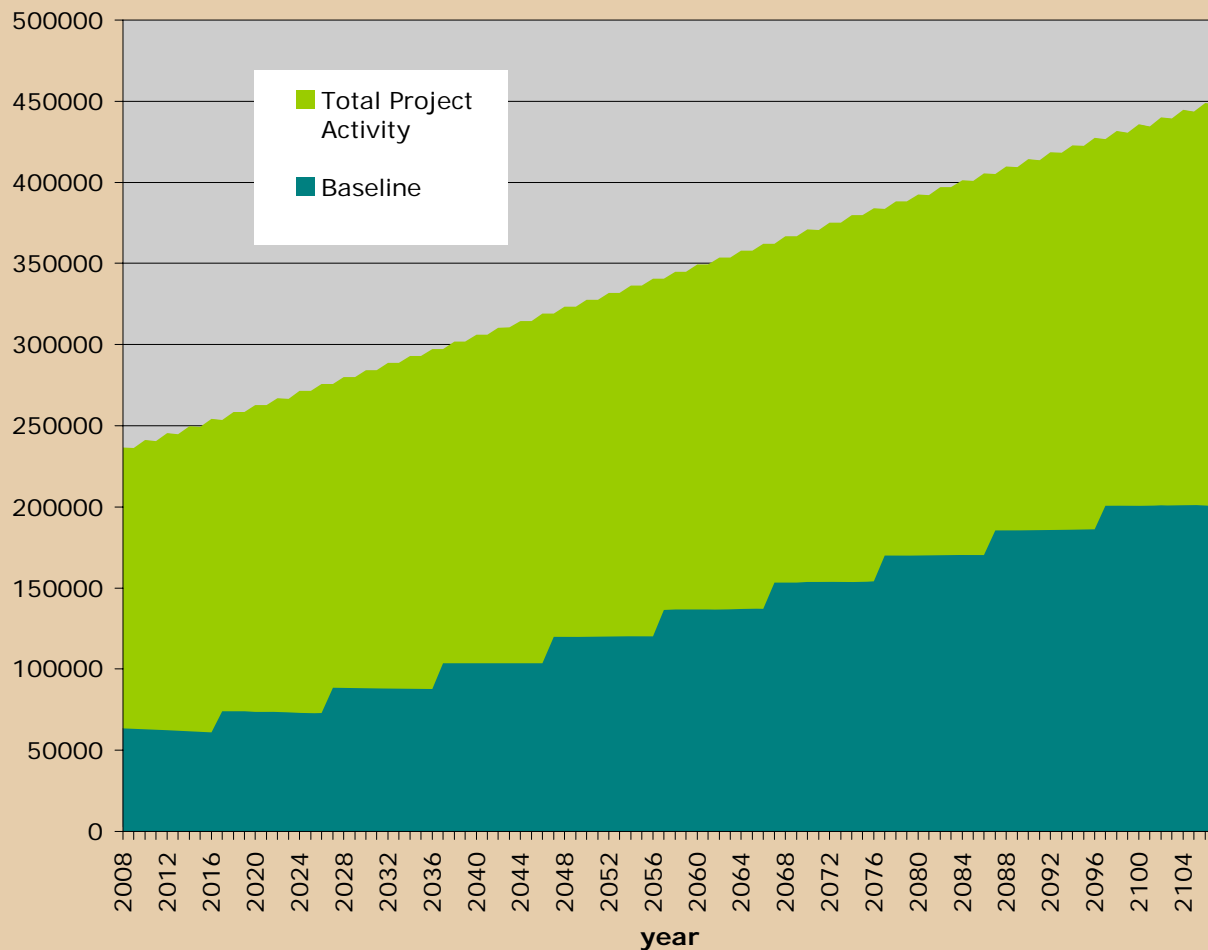
Avoided Conversion

Business As Usual



Project Baseline

Waddle Ranch Project Activity and Baseline



Calculations

- 1100 acres of forestland
- Over 200,000 metric tons of CO2 emissions avoided
- Today's price \$10-14 per ton
- \$2 - 2.8 million dollars for long-term stewardship and monitoring



What's Next?

- Heart K Ranch (under development)

EXPAND:

- 8-10 projects in three years
- 5000 acres
- 1 million tons of CO2 emission reductions
- \$10 million leveraged through carbon sales for stewardship activities

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