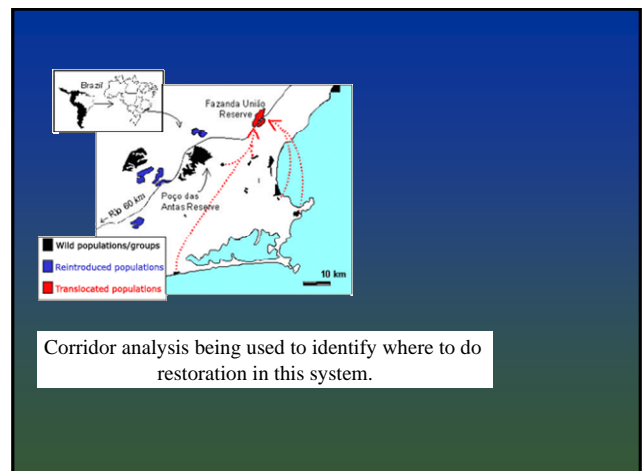
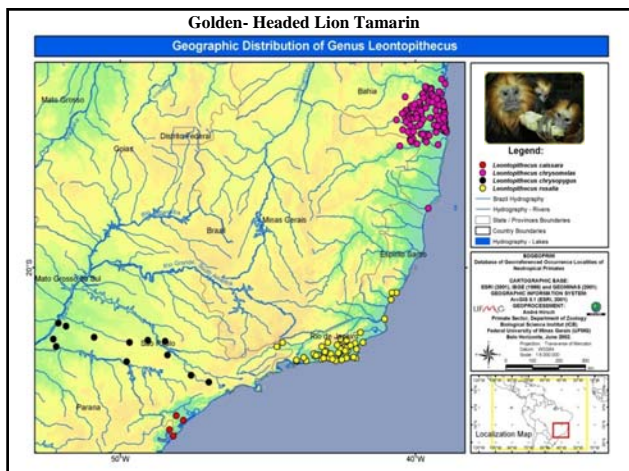


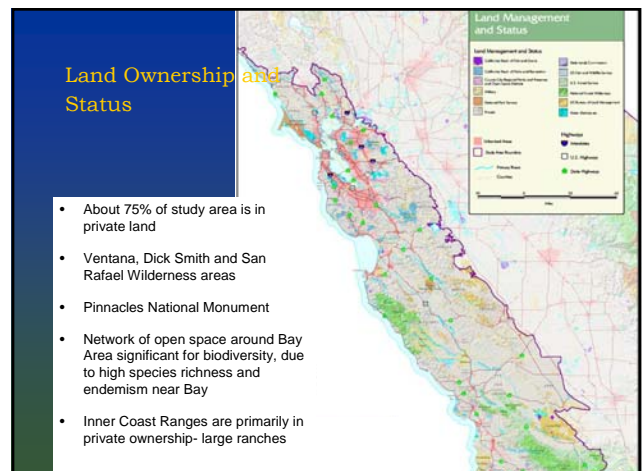
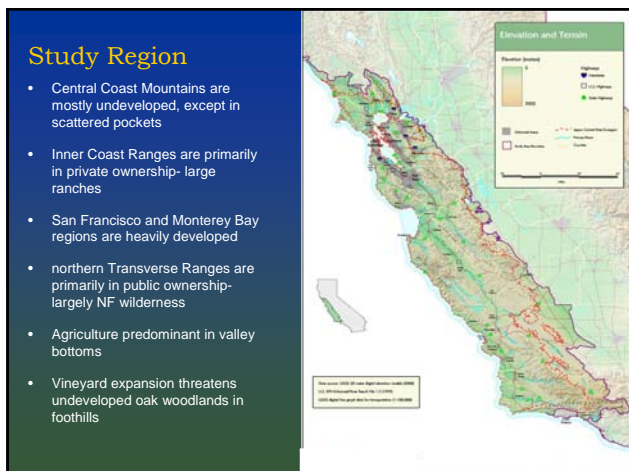
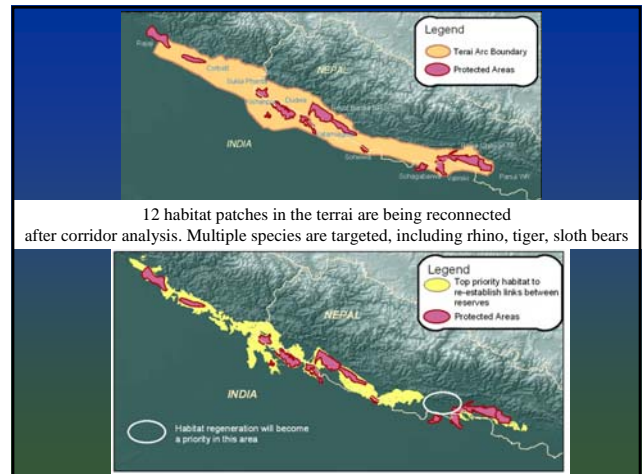
## The Coyote Valley Linkage in the Context of the Central Coast

Jim Thorne

- Corridor analysis is being used in conservation efforts around the world, and is proving an effective restoration tool as well.



Corridor analysis being used to identify where to do restoration in this system.



### Threats to biodiversity and proposed solutions

<u>Threats</u>	<u>Solutions</u>
Reduced habitat	Large sized reserves
Altered Ecosystem Composition and Structure	Restoration of native plants and animals
Fragmented Habitat	Corridors, linked reserves
Ecosystem Dysfunction (loss of process)	Reintroduction of disturbance, watershed restoration

### Primary Goals of a Reserve System

- **Represent** all native habitat types across their natural range of variation
- Maintain **viable populations of all native species** in natural patterns of distribution and abundance
- Maintain ecological and evolutionary **processes** (disturbance, predation, hydrological regimes) that maintain biodiversity
- Design the system to be responsive to long-term **change** (climate change)

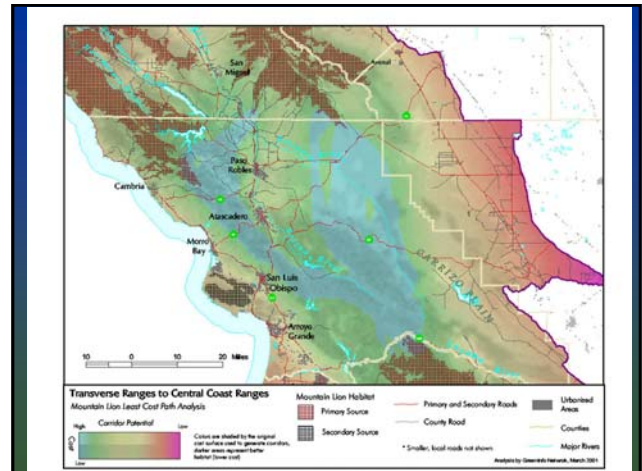
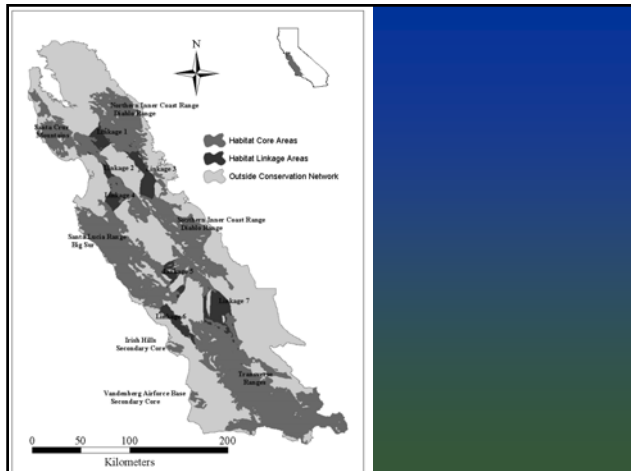
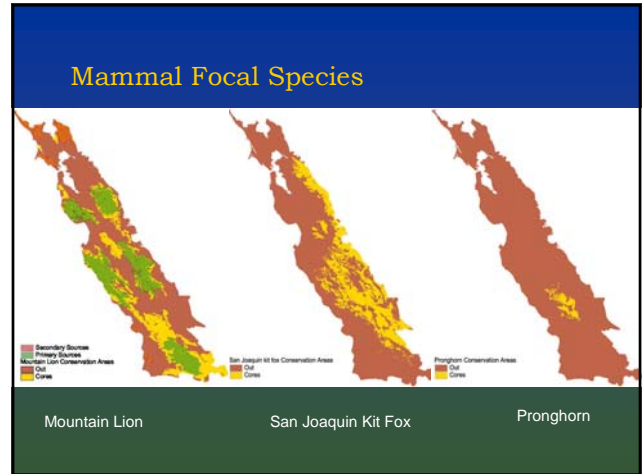
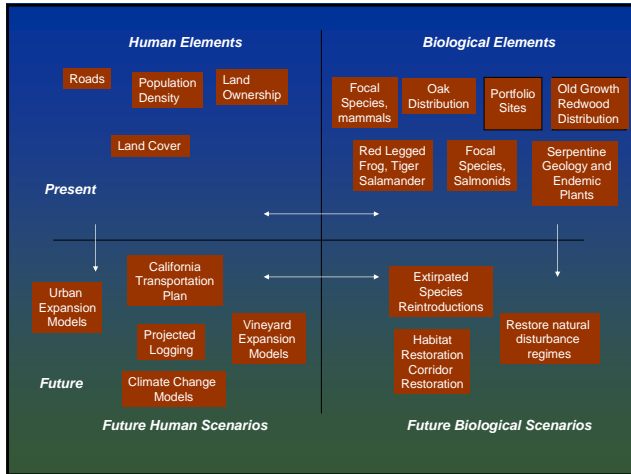
### Focal Species- Conservation Planners' Buzzwords

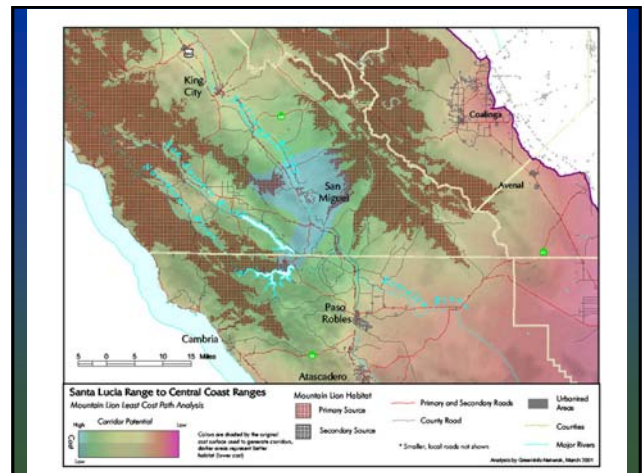
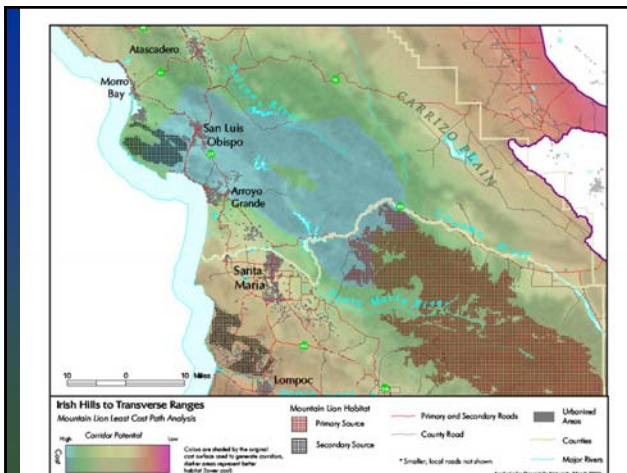
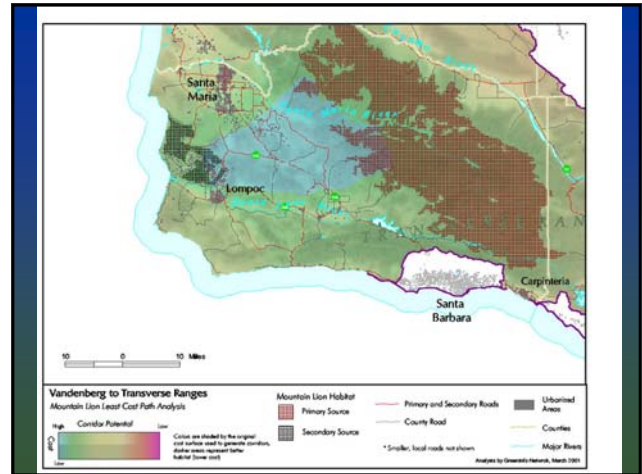
Choose species that live in different habitat types and fill different ecological functions

Umbrella  
Flagship  
Keystone  
Rare/Endemic  
Indicator

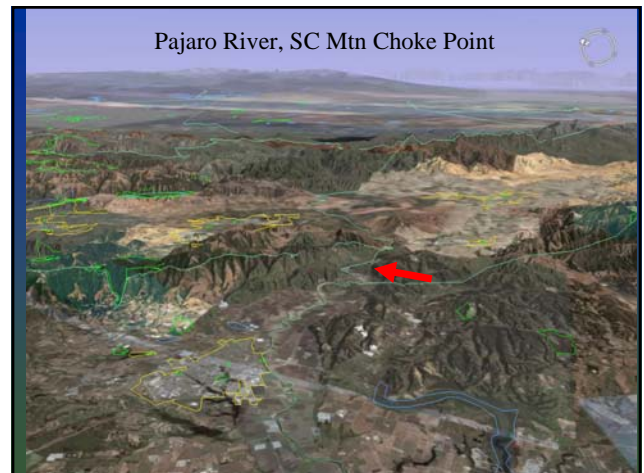
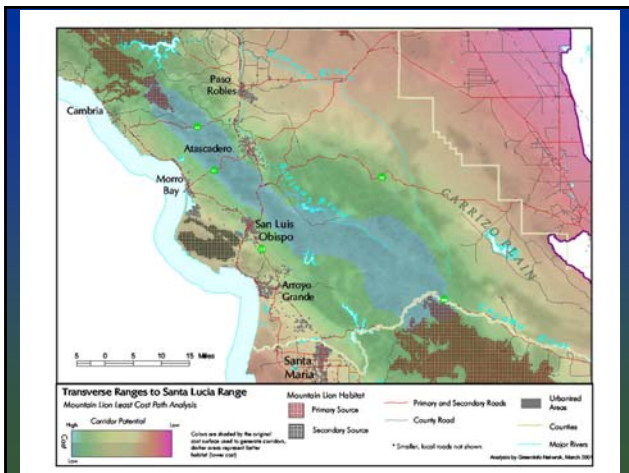
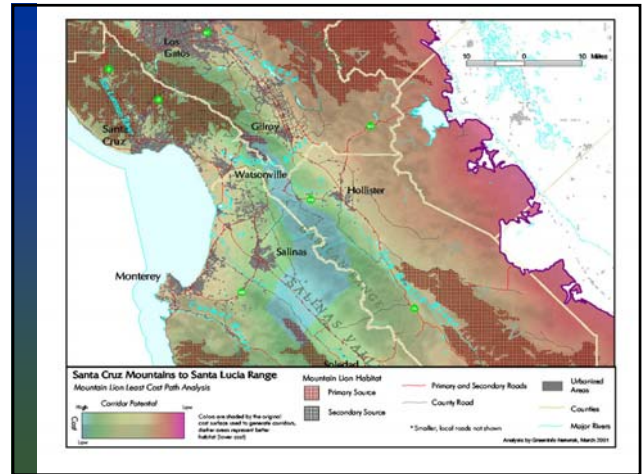
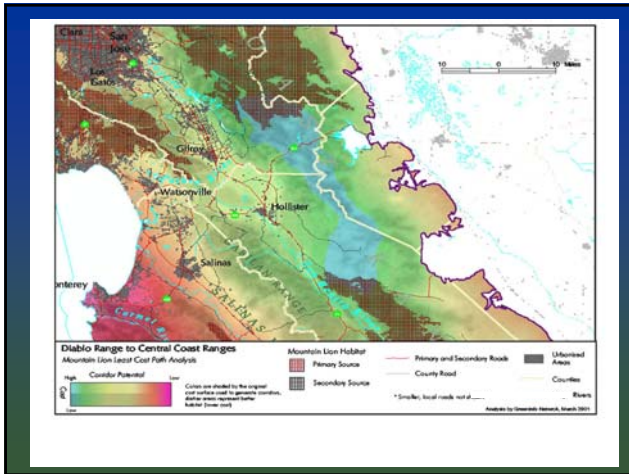
### How to approach such a large and multi-scaled task?

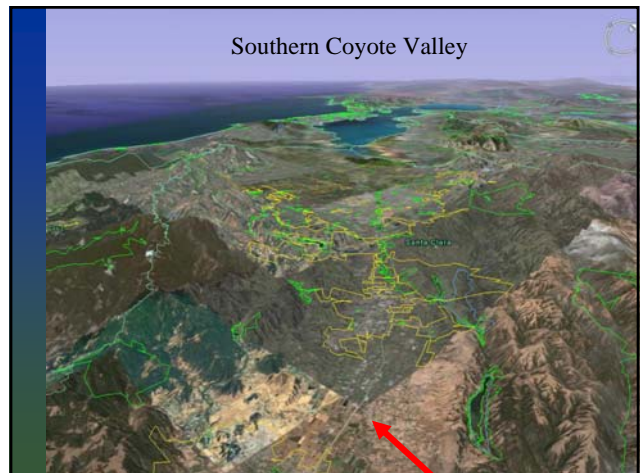
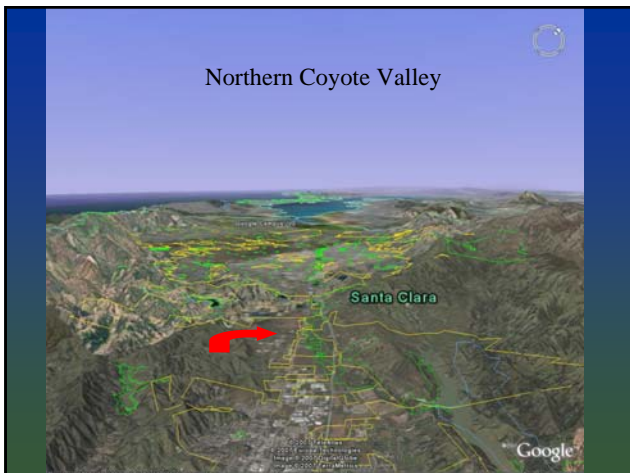
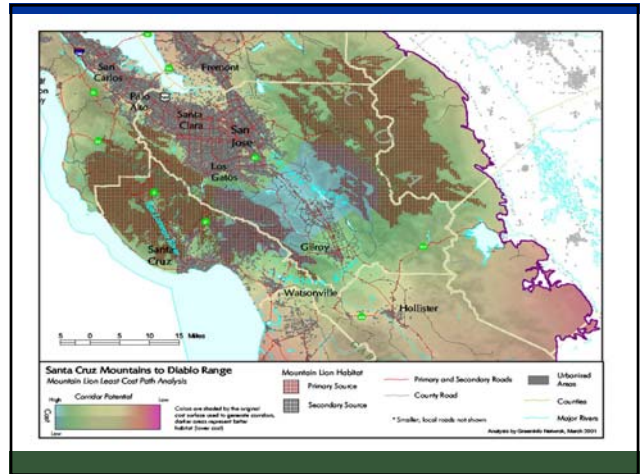
- Focal species and the **Wildlands approach**: Cores, Corridors, Umbrella species.
- Focal species:  
**Mountain Lion, San Joaquin Kit Fox, Pronghorn Antelope, Steelhead.**
- Mountain Lion the **primary focus** due to its extensive spatial requirements.
- **Steelhead database unusual**, developed by grass roots in combination with government employees.





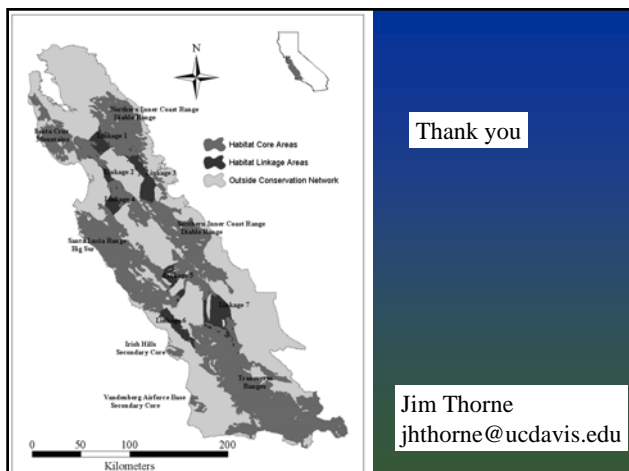
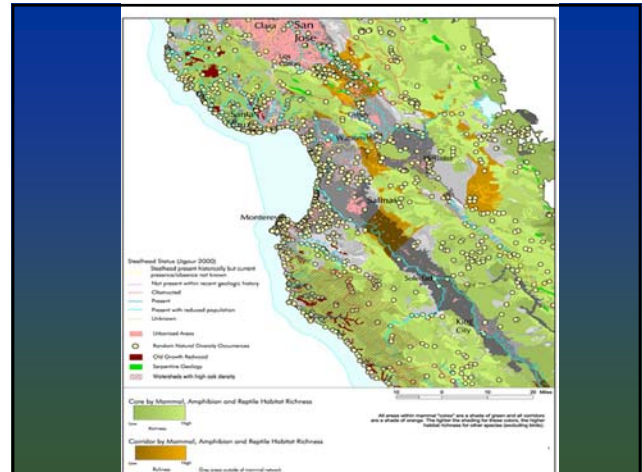
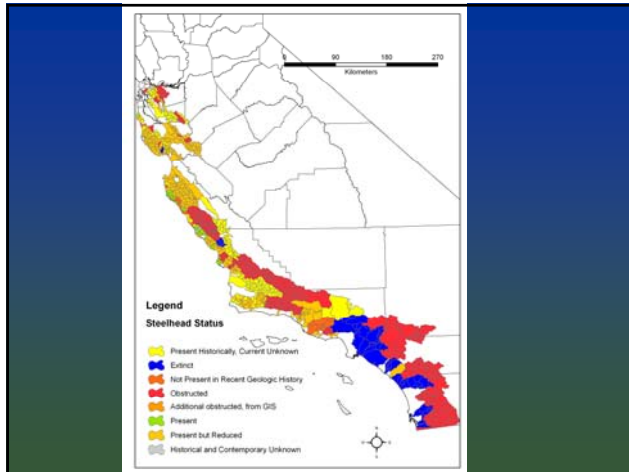












Thank you

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### Interpretation for Conservation Actions.

1. Core areas are mostly on private lands. Conservation Easements are likely the only effective way to protect these. There is considerable difference in habitat quality from Ranch to ranch.
2. Money for acquisition should be spent on smaller sites Closer to development for protection of endemics and species With low dispersal capabilities.
3. Restoration activities for salmon can also be made to Contribute to landscape connectivity issues, such as Re-establishing riparian corridors across the Salinas Valley.

### Conclusions for the Central Coast Region

1. Area north of bay area should be included in northern CA. For mammal network design.
2. Bay Area offers important opportunities to integrate Landscape level design with finer scale, parcel driven Conservation planning (FRAP website).
3. Parcel level data needed for entire region.
4. Despite large numbers of people, good opportunities exist For conservation planning.

### Updates

- CCP project in Santa Barbara working on stream restoration and modeling connectivity at a finer, more applicable scale
- Coyote Valley- CA DFG issued opinion on passage, at least 3 local environmental groups working on issue
- Reports sent to many environmental groups, including several in the SLO area