Enhancing the Persistence of Narrow Endemic Plant Species:

research to inform adaptive management

San Diego Zoo Beckman Center November 21, 2013









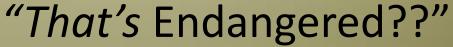
Charismatic Megaflora?





"Aw, how cute!"









"Aw, how cute!"

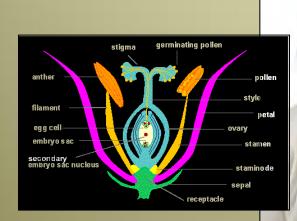




"Whatever....."

Priorities?



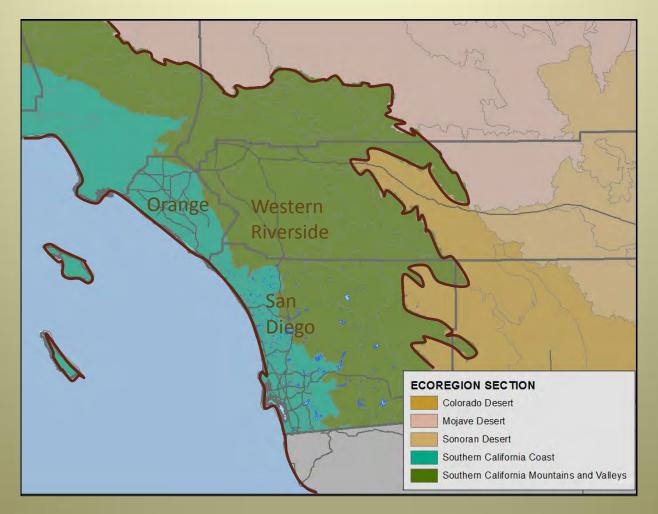






South Coast Ecoregion NCCPs

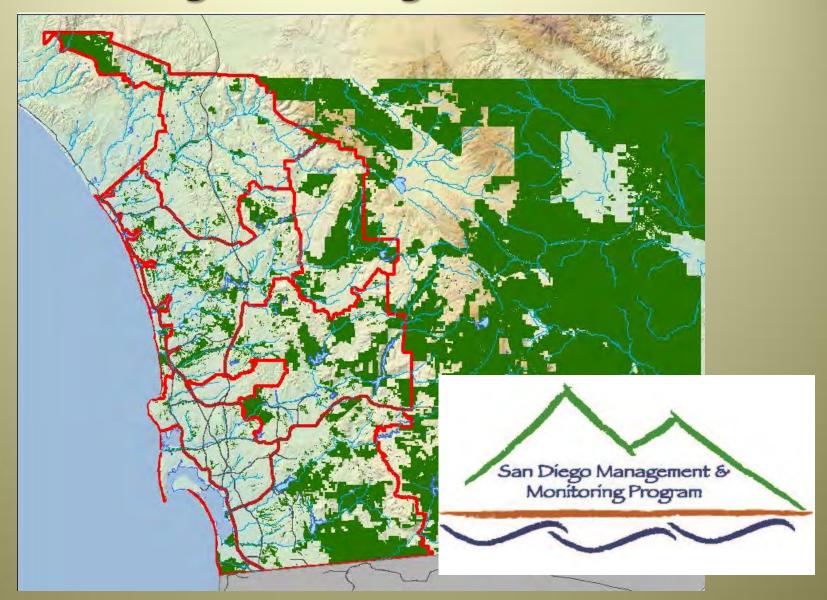
A pilot program that has become a model for the rest of the state.

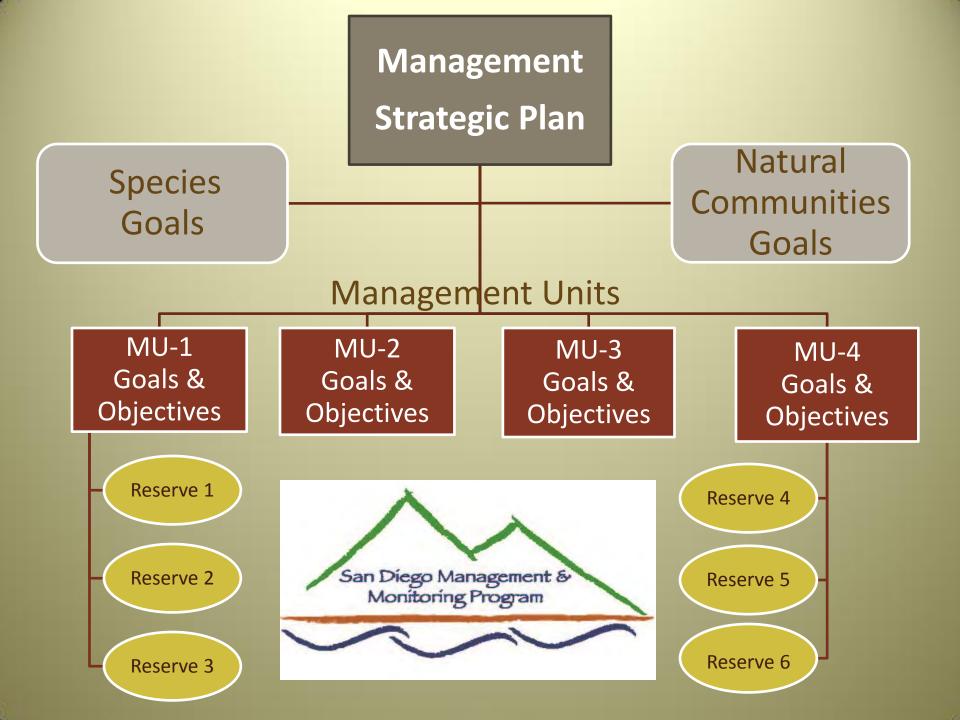




in planning, management, and monitoring.....

San Diego Management Units





Prioritizing Adaptive Management Actions for Endemic Plant Species both regionally and between populations

- Large fluctuations in population size
 - Year-to-year variation in annual precipitation
 - Invasive species
 - Size of the seed bank
- Fragmented landscape and geographic isolation
 - Refugia vs source populations
 - Loss of pollinators
- Small population sizes
 - Loss of genetic diversity
- Climate change and an altered fire regime



Tools and Approaches for Making Informed Decisions on Management

- Tools for assessing threats and instituting management actions in urban reserves
- Role of research facilities in plant conservation
- LUNCH
- Population dynamics with respect to fire, precipitation, and climate change
- Incorporating habitat suitability modeling into an approach for identifying enhancement opportunities
- Panel discussion—have your questions ready!



Focus for Discussion Today

- Framework of ideas, approaches, and management tools that transcend individual species and individual preserve boundaries.
- Restoring a trajectory of resilience, rather than focusing on a specific population target.
- Context for setting priorities, both at the regional level and population level.

