Early Planning Tool for HabitatRestoration





and



Early Planning Tool for Habitat Restoration

On-line, GIS-based mapping tool

 Customizable layers for watershed-specific planning

 Collaboration among government agencies, contractors, and land owners



Purpose

- Improve communication among stakeholders
- Provide the public with a tool for watershed-wide planning
- Improve connectivity of existing project sites
- Provide a source of information on past and present projects
- Provide up-to-date spatial data of existing restoration projects



Who can benefit from an online mapping tool?

Government Agencies

- Agencies involved in large scale planning, restoration, or mitigation efforts
- Consulting and Contracting Organizations
 - Identify existing projects, review information on past projects
- Universities
 - Source of watershed-wide restoration project information
- Private Landowners
 - Work in partnership with other land owners for management purposes



Planning Ahead

- Identify potential sites for future restoration projects
- Utilize layers to identify ideal locations
- Review status of existing projects
- Improve Project Site Connectivity







Enhancing Continuity of Restoration Projects

- Benefits of site continuity
 - Continue efforts of upstream or nearby restoration projects
 - Increase chances of successful restoration project
- Upstream to downstream restoration approach
- Decrease downstream colonization of non-native invasive species
 - Arundo donax
 - Tamarisk sp.



Avoiding Costly Overlap of Restoration/Mitigation Projects

- Ideal location for restoration projects
 - Near, but not overlapping
- Location of existing projects is not always known
- Disturbance of existing mitigation sites
 - Can be costly
- Including a buffer space



Preparing for the Future

Rising sea level and changing climate

Reclaiming land

- Recreating historical habitats
- Discouraging development in high-risk areas



Sea Level Rise Scenario







Land Use Layer -Green= Agricultural



Historical Habitat and Agriculture



Wildscape

Analysis of Multiple Variables

 Many factors influence restoration

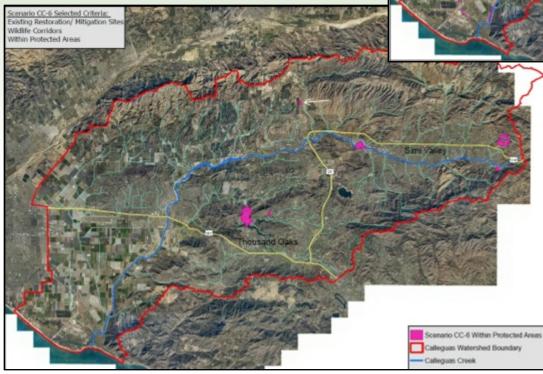
- Improve chances of restoration project success
- Prepare for potential project problems

- Layers available
 - Watershed
 - Invasive Species
 - Plant
 - Animal
 - Protected Areas
 - Vegetation Communities
 - Land Use Types
 - Floodplains
 - 100 year
 - 500 year
 - Wildlife Corridors
 - Critical Habitats
 - Projected Sea Level Rise



Sample Scenario: Avoid New Zealand Mudsnail





Sample Scenario: Improve project connectivity and wildlife corridor integrity



Accessibility

- Available to the public
- On-line
 - Still in development
- Easy to use
 - Intuitive drop down menus for layers (filters)
- Output is a .kml (Google Earth) format
 - Can be translated in to .shp for use in GIS & drafting programs



Questions





Contact Us

Wildscape Restoration

2500 Channel Drive, Suite A-1, Ventura, CA 93003-4560

Telephone: 805-644-6852

Fax: 805-642-3164

casey@wildscaperestoration.com info@wildscaperestoration.com

