<b>Docket Number:</b>	17-MISC-03				
Project Title:	Environmental Information for Energy Planning				
TN #:	216874				
<b>Document Title:</b>	Presentation by Scott Flint				
<b>Description:</b>	This document Supersedes TN 216828. Revised to correct typo on report title in slide 4.				
Filer:	Misa Milliron				
Organization:	California Energy Commission				
<b>Submitter Role:</b>	Commission Staff				
Submission Date:	4/7/2017 11:45:08 AM				
<b>Docketed Date:</b>	4/7/2017				



# **California Energy Commission**

# **Environmental Information for Energy Planning**

# Data and Applications to Examine Assumptions and Outcomes

Scott Flint

California Energy Commission

Staff Workshop April 6, 2017

# **Science Based Planning**

Use of high-quality science results in -

- Policy implementation in a fully informed manner
- Effective and efficient planning
- Empowered decision making
  - Natural resource conservation and management
  - Smart <u>development</u> for sustainable communities and economies

# **Science Based Planning**

RETI 2.0 Environmental and Land Use Technical Group – Report Recommendations and Next Steps:

- Assemble accurate and representative datasets, keep them available online for use by the agencies, stakeholders, and the public
- Periodically update and work to fill data gaps to provide a basic set of information that can be used as an input to agency planning and regulatory processes
- Agencies and stakeholders should work together to complete the Environmental Report Writer that uses the data in landscape-scale planning processes so that the data and information could be easily used in planning and decision making.

# **Science Based Planning**

2016 Integrated Energy Policy Report Update – Recommendations for Statewide Energy Planning and Permit Coordination:

- Continue to apply proactive tools and approaches like landscape-scale planning, to help meet renewable energy and GHG reduction goals.
- Integrate information gathered and produced from energy planning efforts, including DRECP, San Joaquin Valley Identification of Least Conflict Lands, and the Renewable Energy Transmission Initiative (RETI) to inform energy planning.
- Expedite permitting of the highest priority transmission projects.

### **Data Basin as a Service**

#### The Platform

**Ecological** 

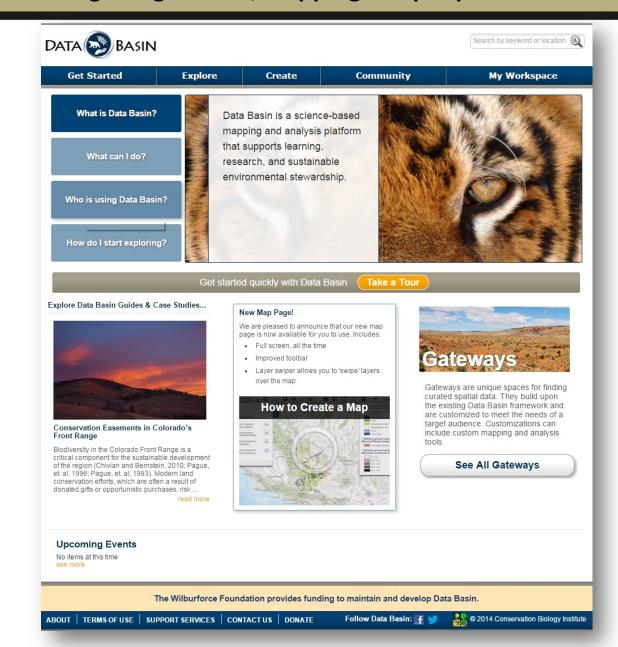
Models



Science Interpretation Support **Tools** 



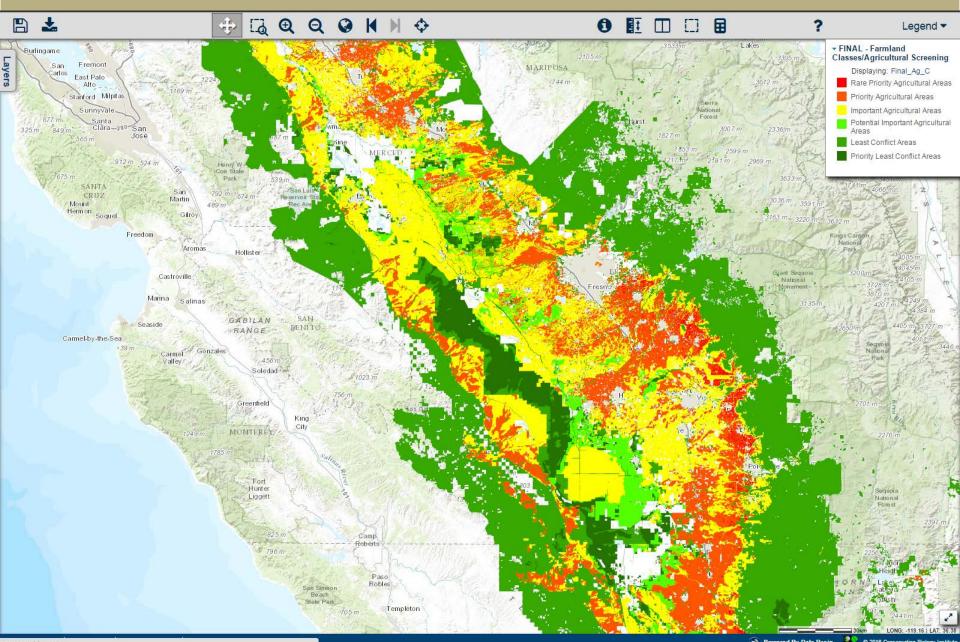
# A web-based mapping and analysis platform that enhances knowledge sharing by integrating science, mapping and people



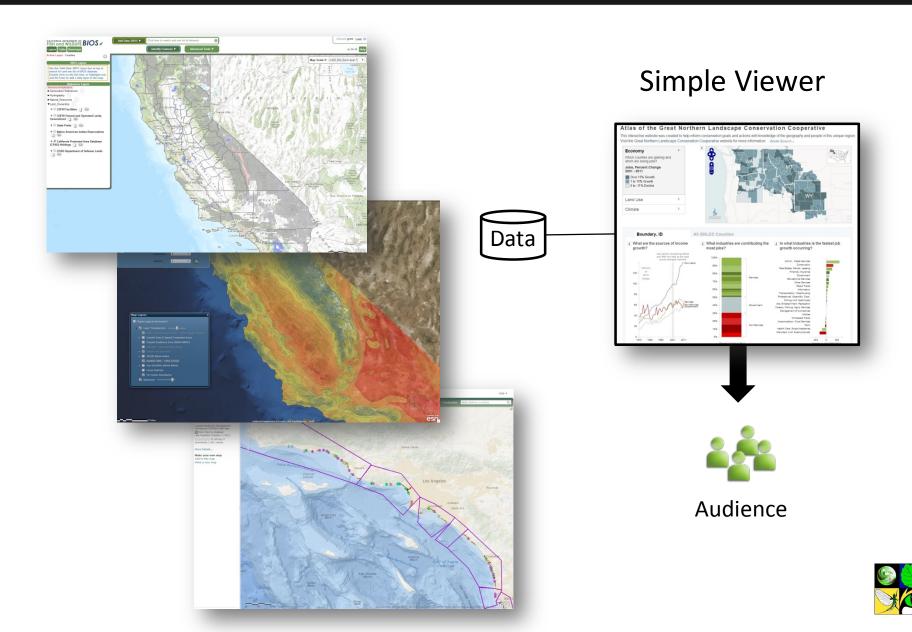
Internet Explorer



## **Powerful Viewer**



### All Platforms & Viewers are NOT the Same



# **Data Basin - Managed Content**

#### NOT JUST DATA



DATASETS – individual spatial data files (or layers)



MAPS – customized maps made by members using the platform



GALLERIES – collections of datasets and/or maps



GUIDES and CASE STUDIES – explanations and examples of using data



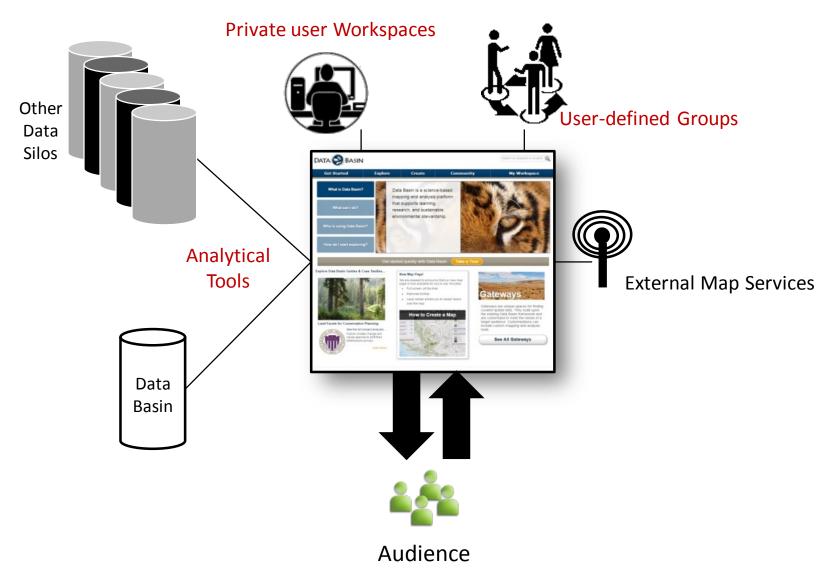
GROUPS – created by members to address specific issues



MEMBERS – individuals with platform accounts

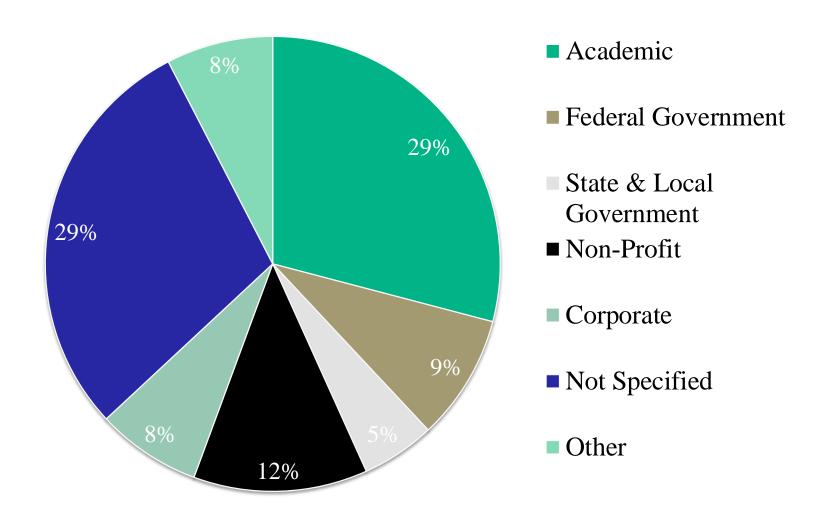


### **Data Basin - Platform**





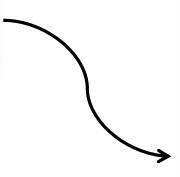
### **Data Basin - Users**

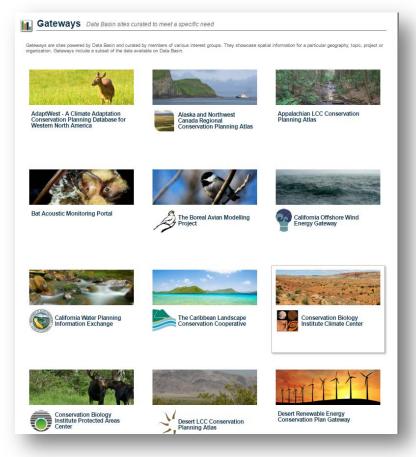






databasin.org





#### **DRECP** Gateway



#### Terrestrial intactness



#### Site Survey Analyst





drecp.databasin.org



reti.databasin.org



sjvp.databasin.org

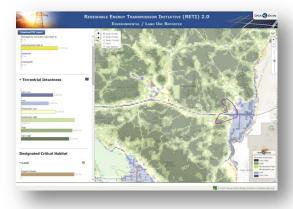


Careful Foliation

Constitution of Constitution

Constitution of C

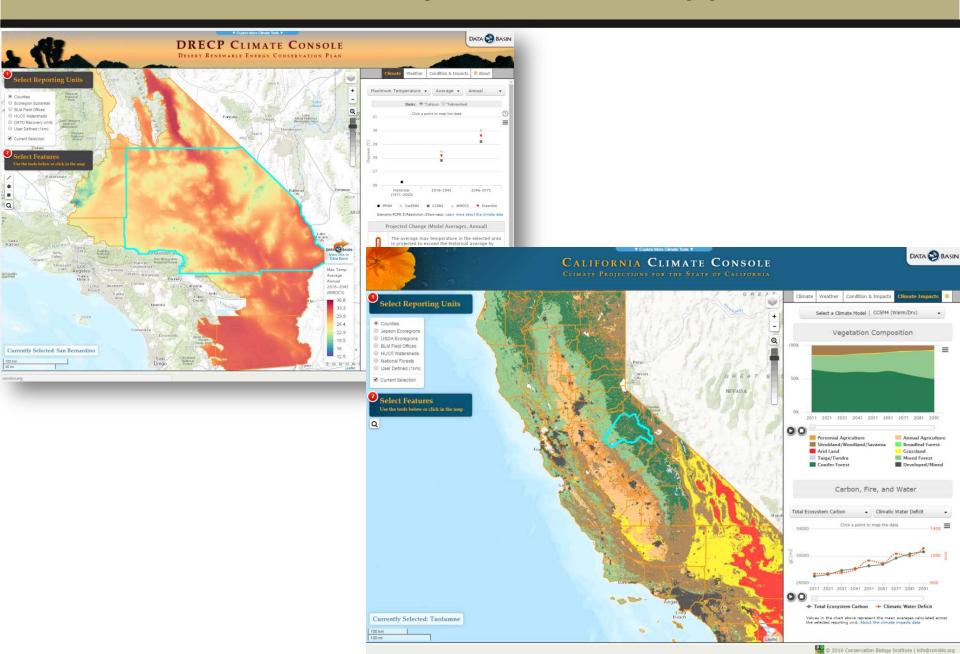
caoffshorewind.databasin.org climateconsole.org/ca

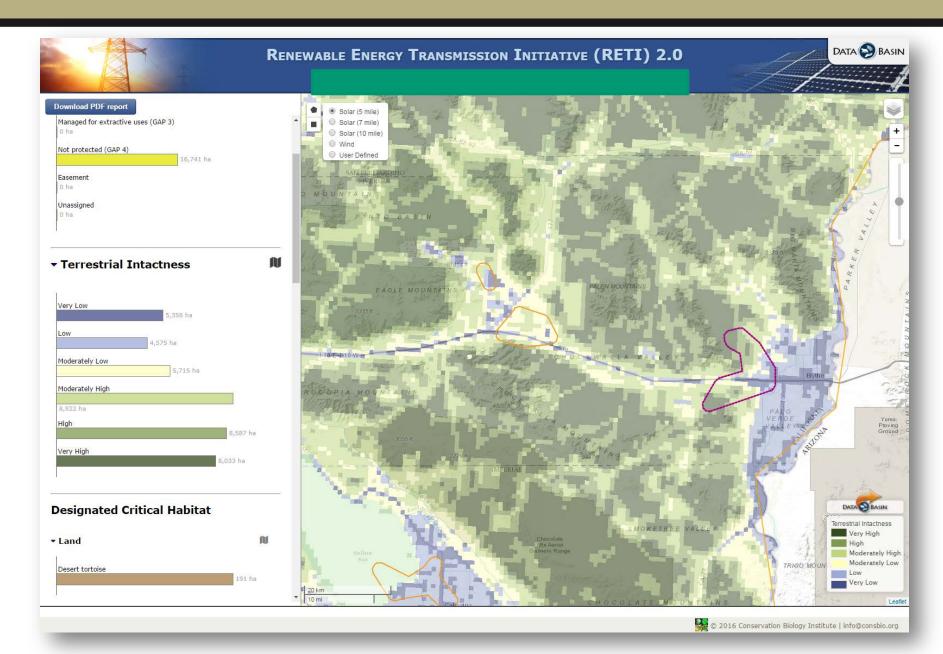


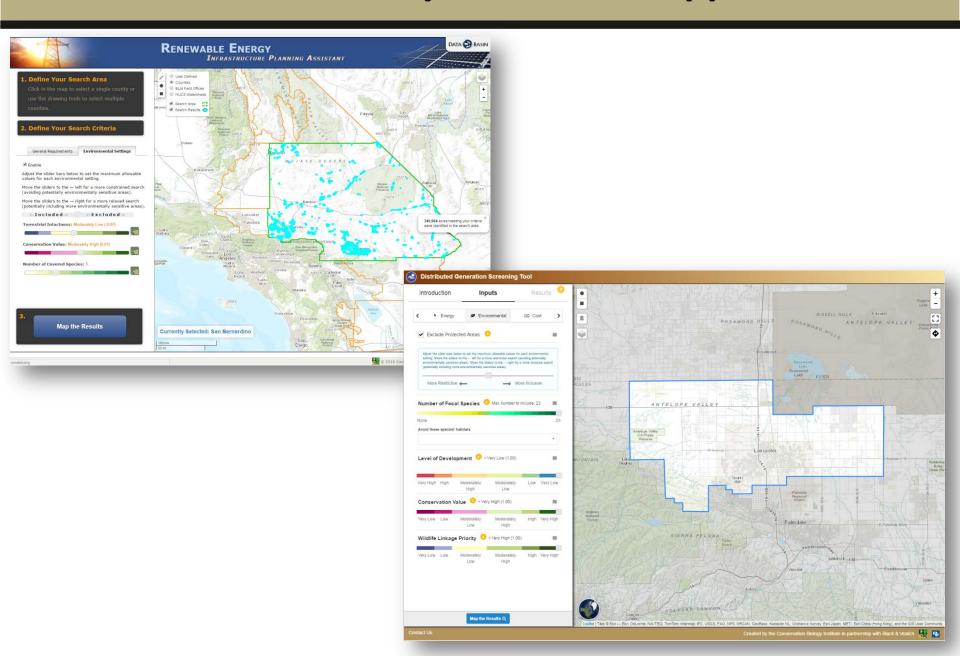
energy planning applications



**Applications** 



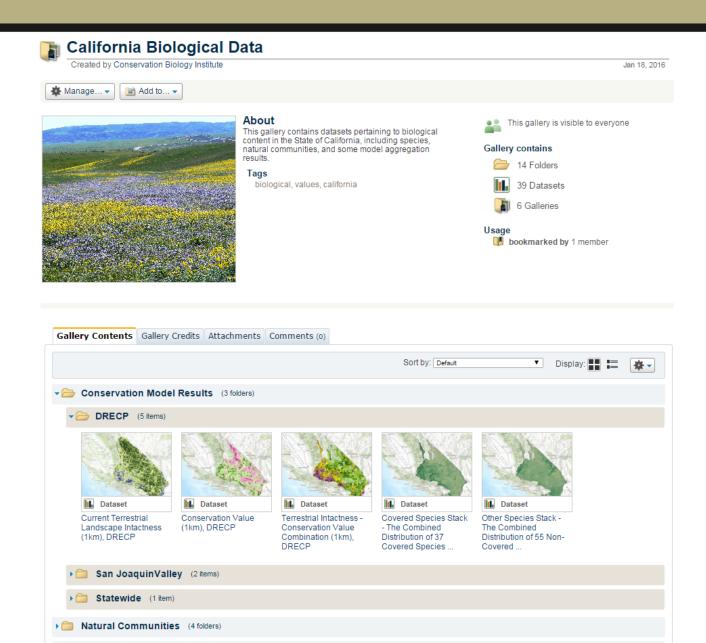




## **Data Categories – Environmental Conservation**

- Conservation Lands
- Conservation Elements
   Species occurrences
   Natural communities occurrences
- Land Cover GAP Analysis/Special Communities
- Focal Species Distributions
- Connectivity Corridors/Landscape Permeability
- Landscape Condition Terrestrial and Aquatic Intactness
- High Conservation Priorities

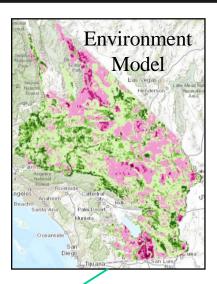
### **Data Sources**



▼ Species (4 folders)

# Statewide and Regional Data - DRECP Example

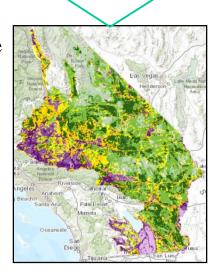




Agriculture Model Now Have

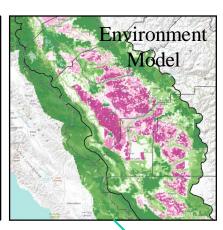
Aquatic Intactness Model

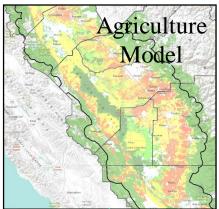
Composite Model



# Statewide and Regional Data – SJ Example

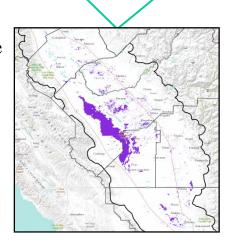
Terrestrial Intactness Model Now Have



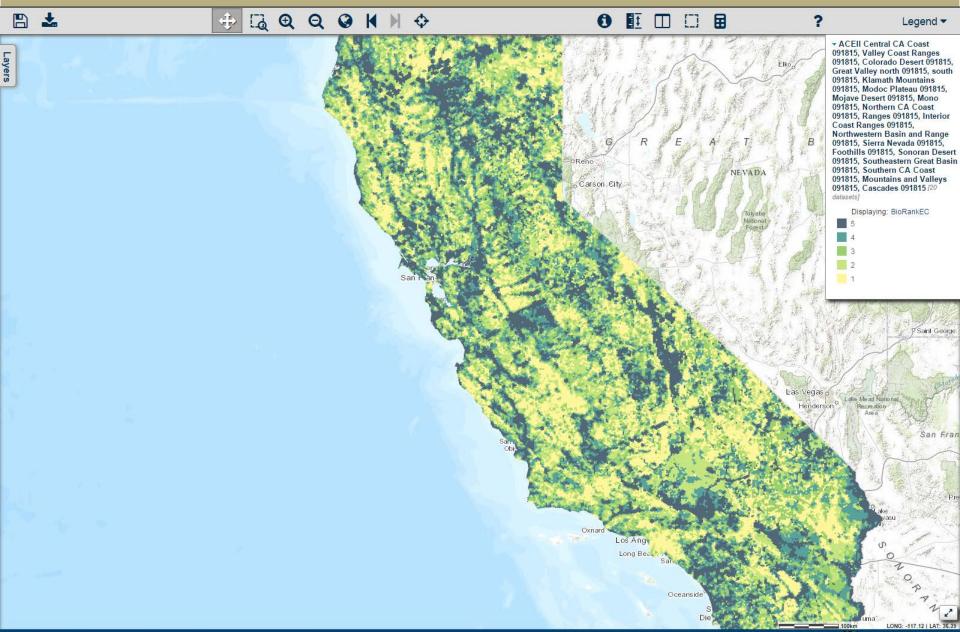


Aquatic Intactness Model

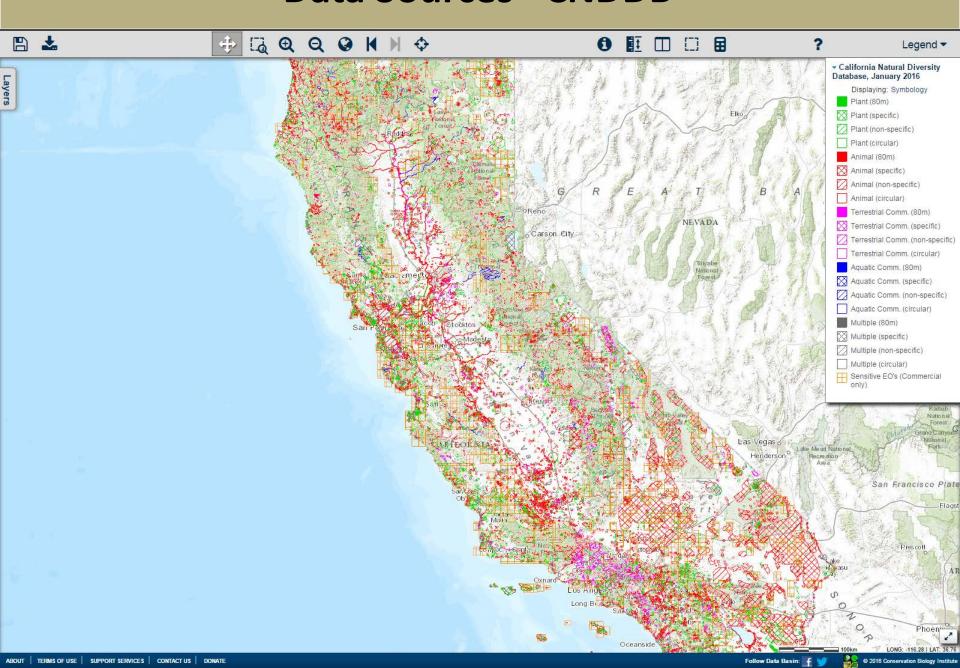
Composite Model



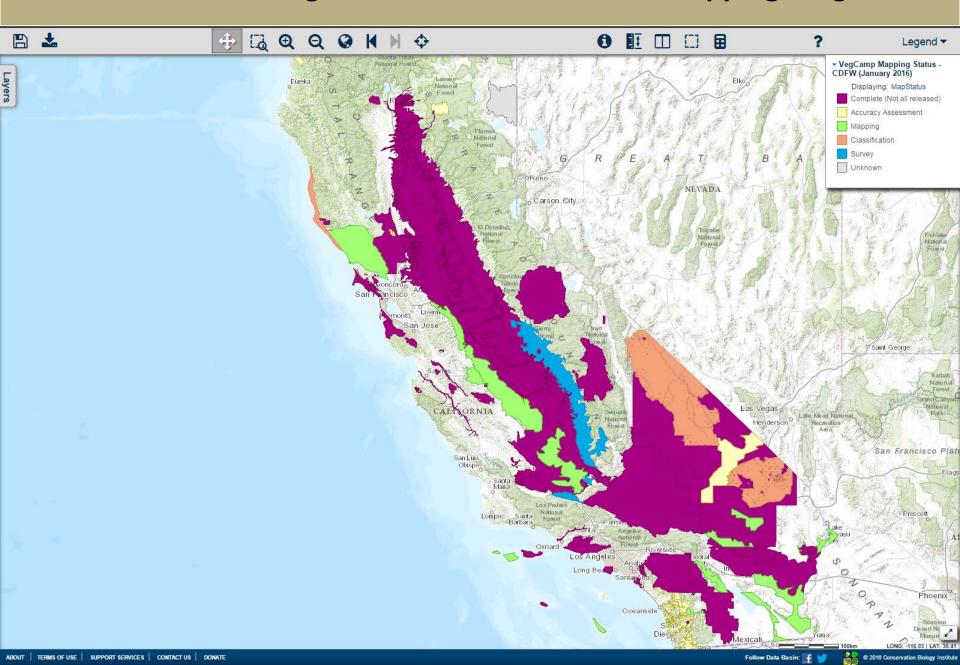
### Data Sources - ACE II



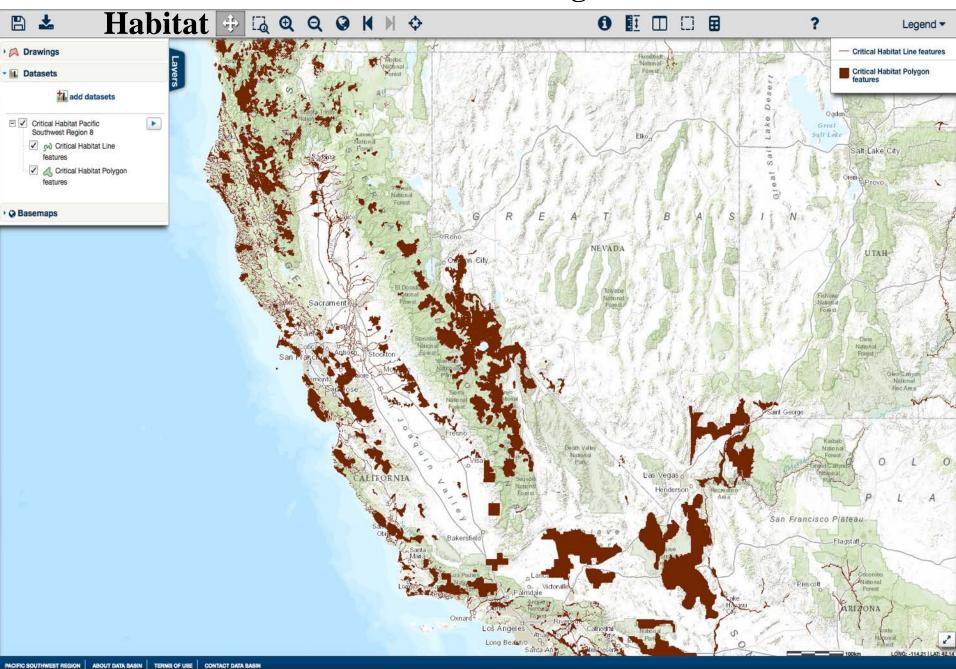
### **Data Sources - CNDDB**

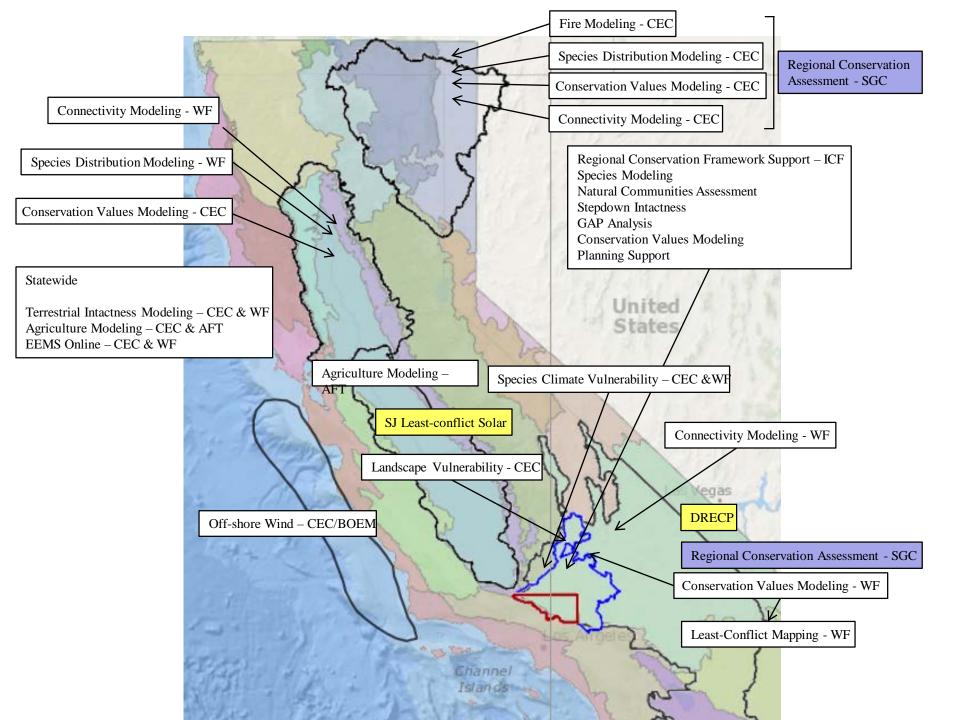


### **Data Sources – Vegetation Classification and Mapping Program**

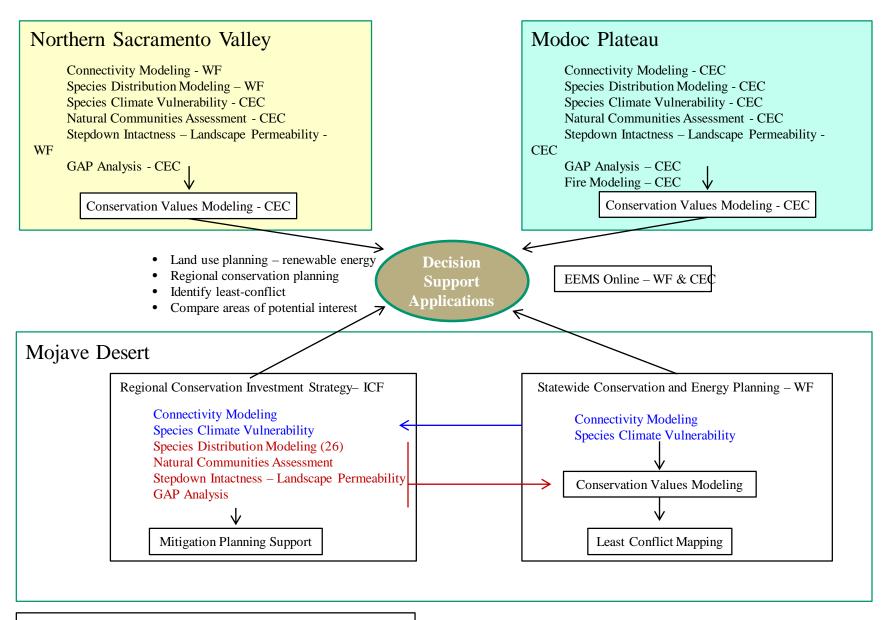


### U.S. Fish & Wildlife Service - Designated Critical





#### Relationship between Conservation and Energy Planning Projects - Windward Fund, CEC and ICF



Terrestrial Intactness Modeling and Agriculture Modeling – CEC & WF Statewide



### **Website and List Serve**

- Sign up to receive workshop notices and materials, announcements, and other documents on this topic.
- Go to: http://www.energy.ca.gov/ renewables/enviro\_infoenergy\_planning/ and enter your info into the boxes indicated.
- Confirm your subscription by following instructions in the automated email to complete sign-up process.

