DOCKETED

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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 development 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.

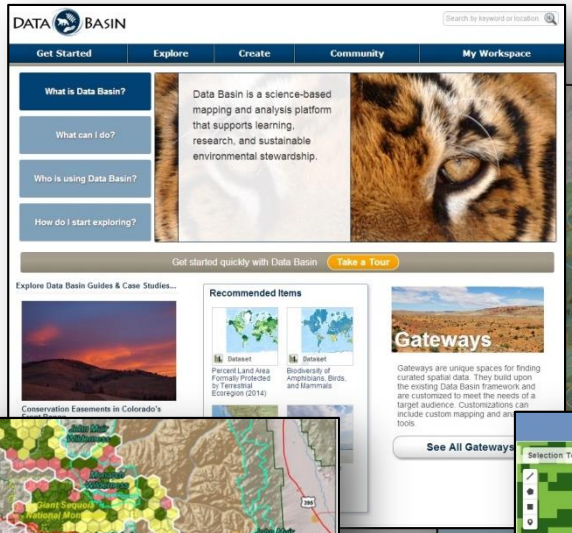
Science Based Planning

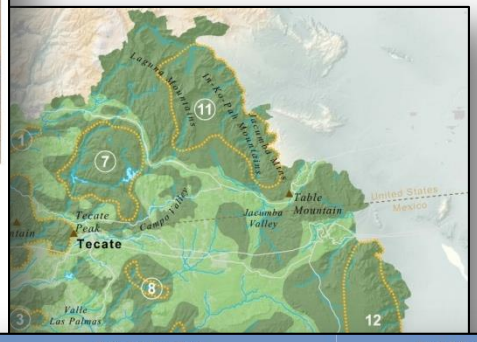
2017 Integrated Energy Policy Report – Recommendations for Statewide Energy Planning and Permit Coordination:

- 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

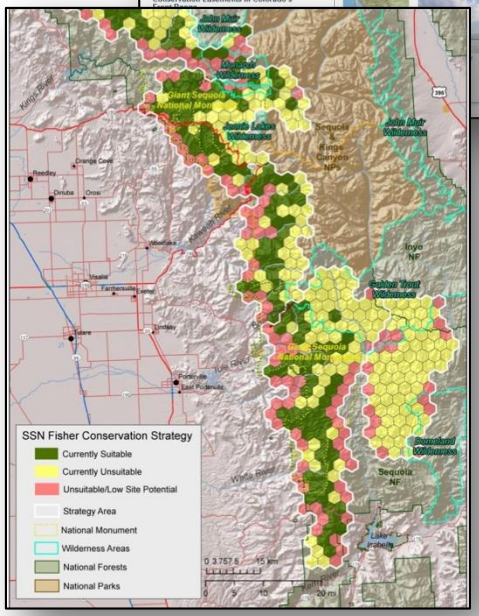
The Platform

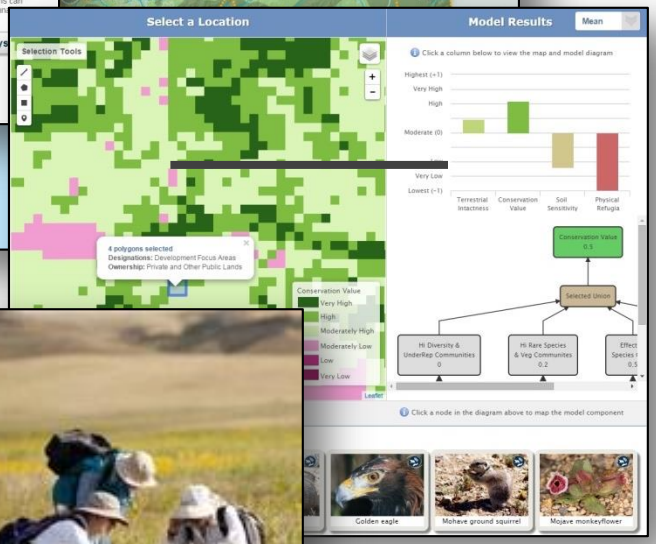




Conservation Planning & Assessments

Ecological Models





Science Interpretation Support Tools

Monitoring & Management

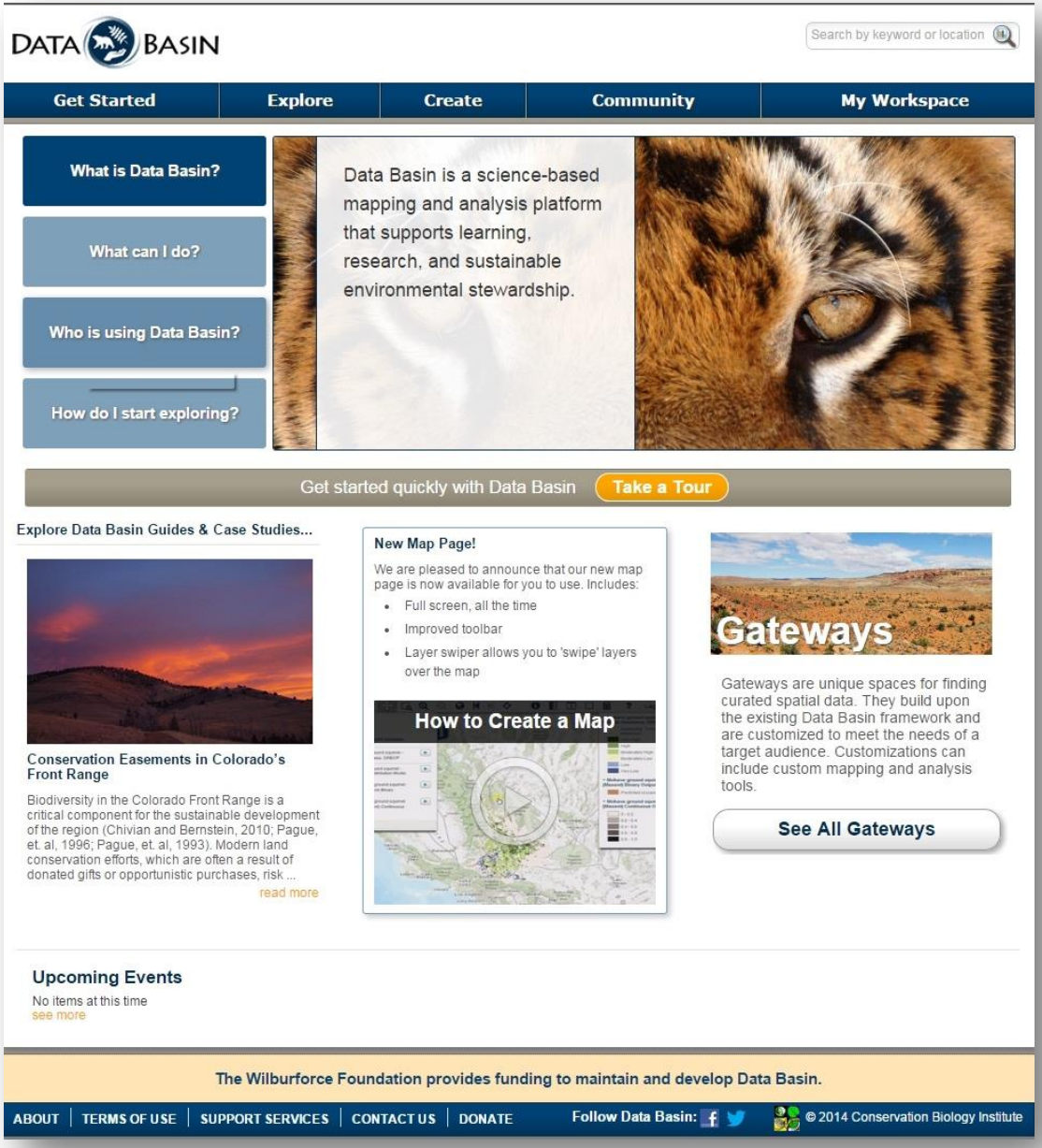
A web-based mapping and analysis platform that enhances knowledge sharing by integrating **science**, **mapping** and **people**

Chrome

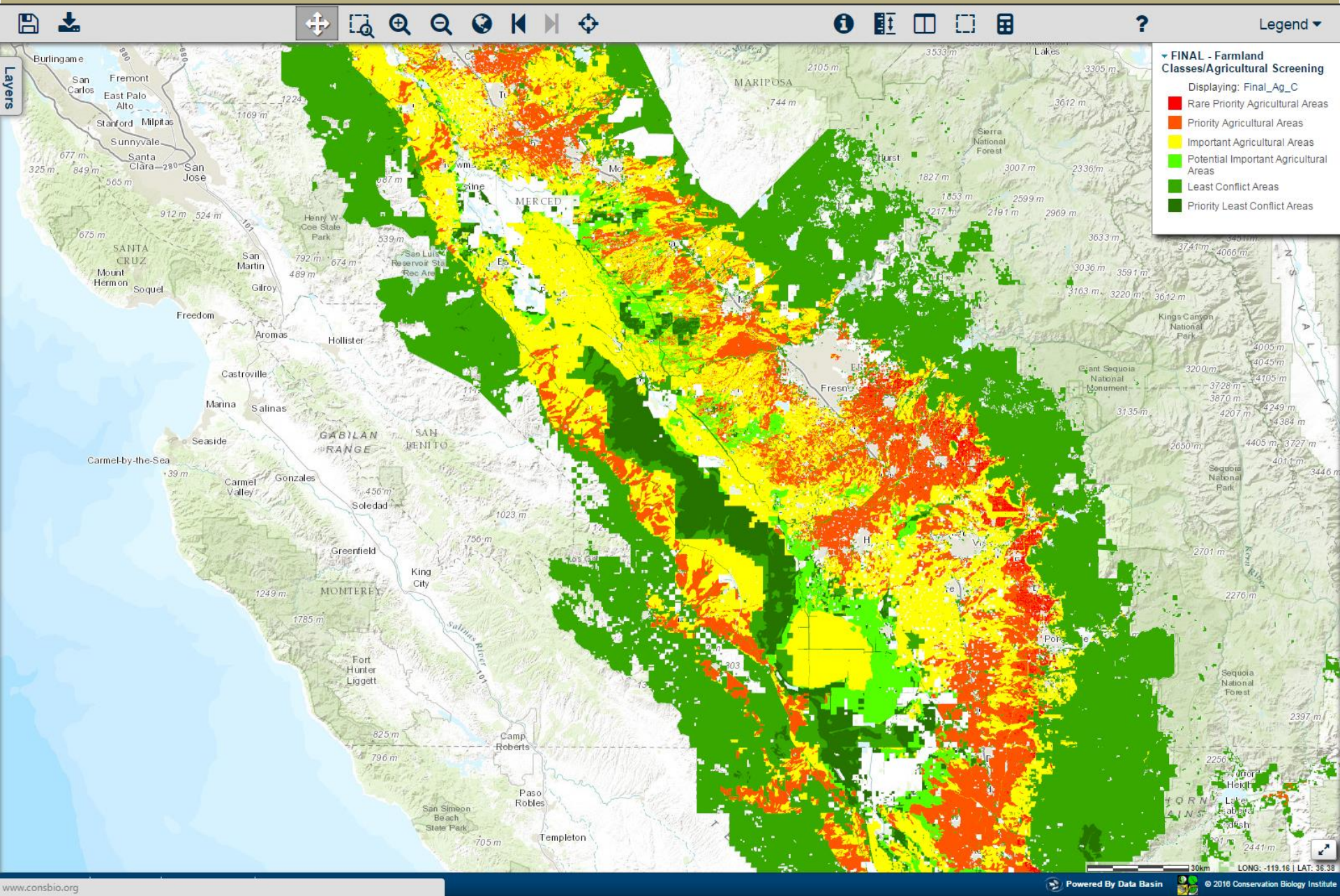
Firefox

Safari

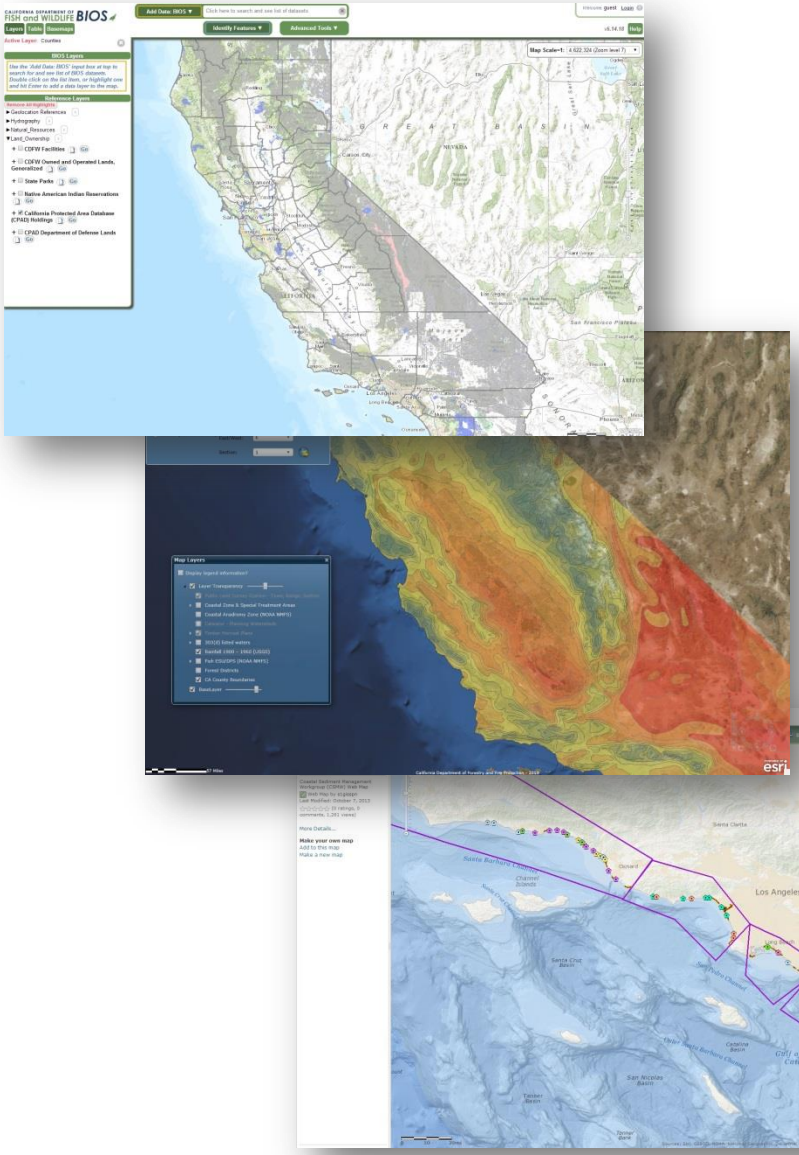
Internet Explorer



Powerful Viewer

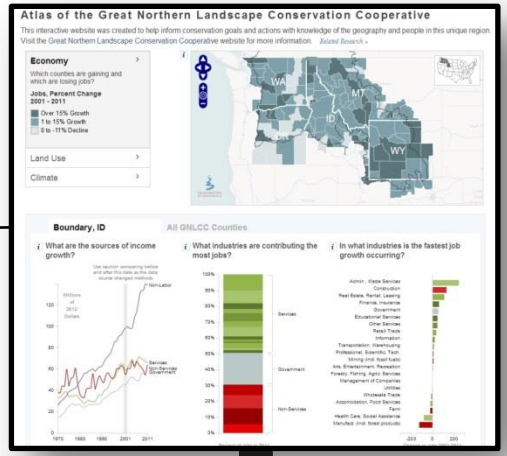


All Platforms & Viewers are NOT the Same



Simple Viewer

Data



Audience

Data Basin - Managed Content

NOT JUST DATA

DATASETS – individual spatial data files (or layers)

MAPS – customized maps made by members using the platform

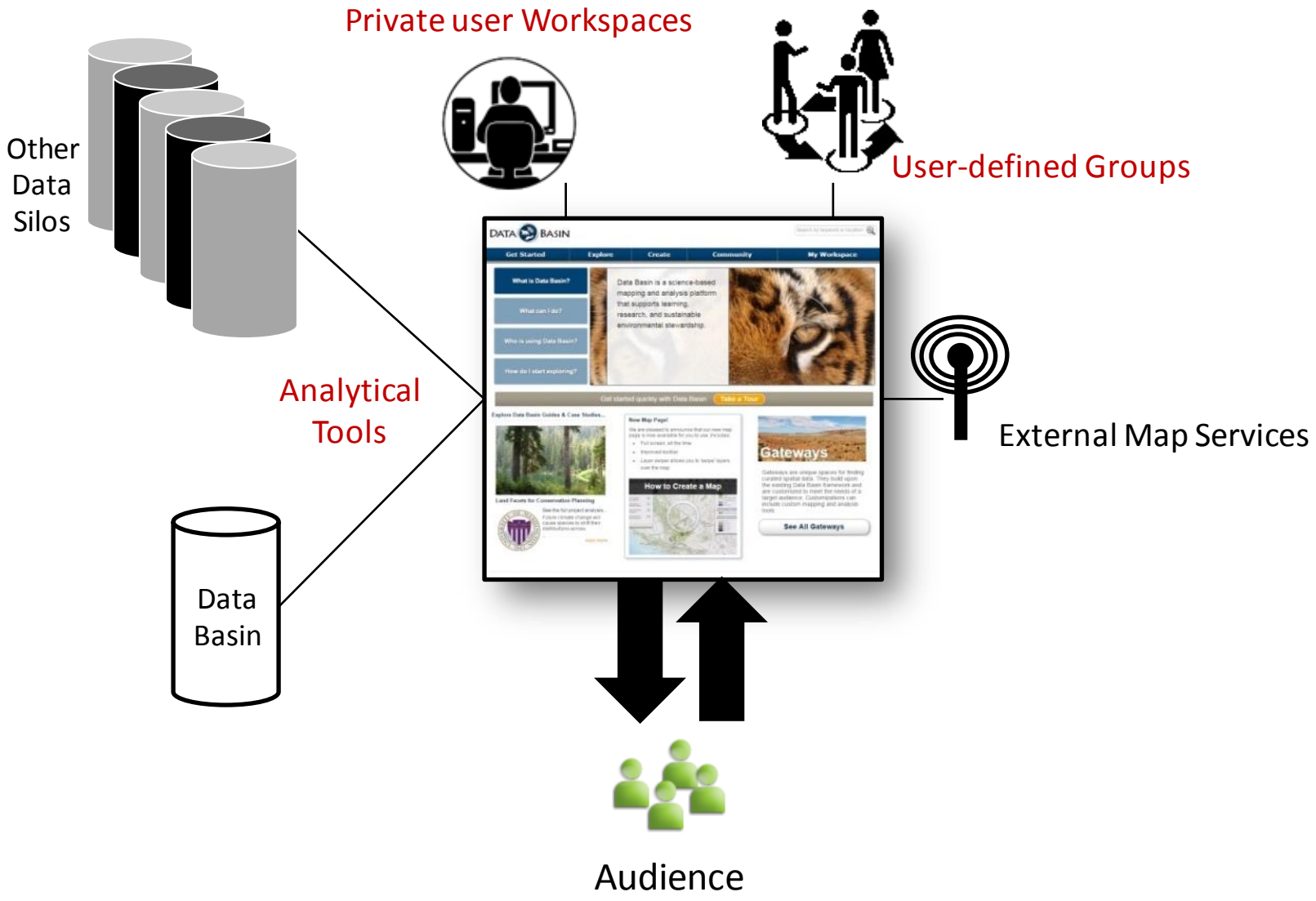
GALLERIES – collections of datasets and/or maps

GUIDES and CASE STUDIES – explanations and examples of using data

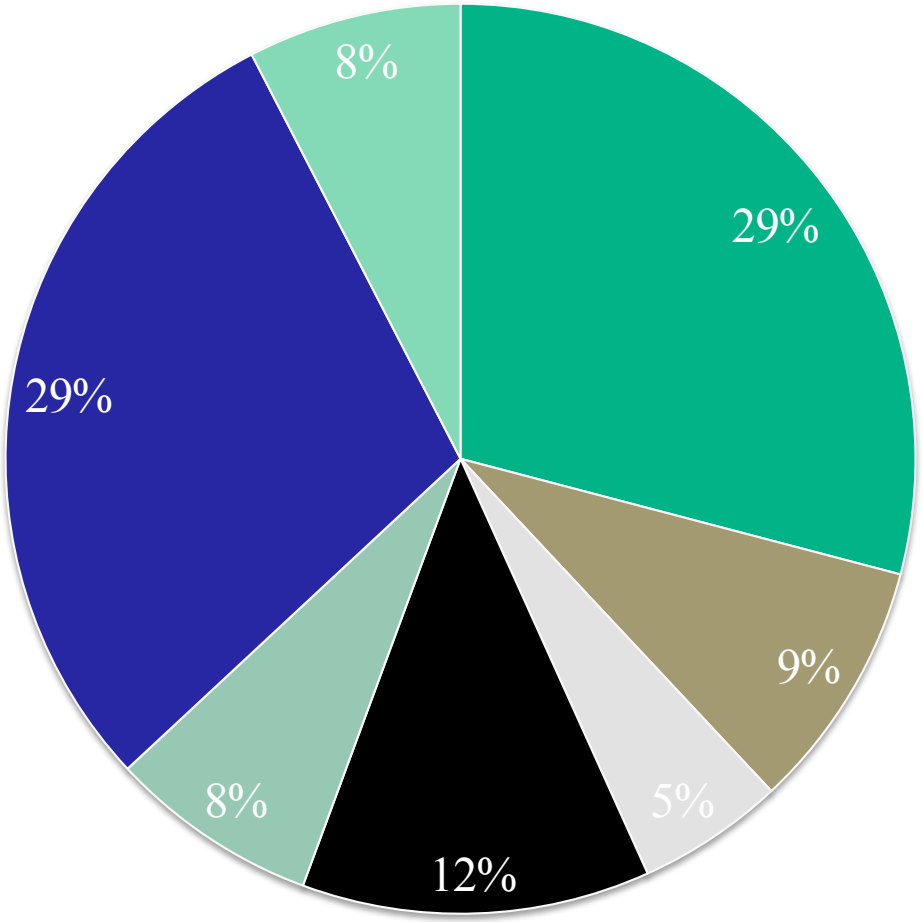
GROUPS – created by members to address specific issues

MEMBERS – individuals with platform accounts

Data Basin - Platform

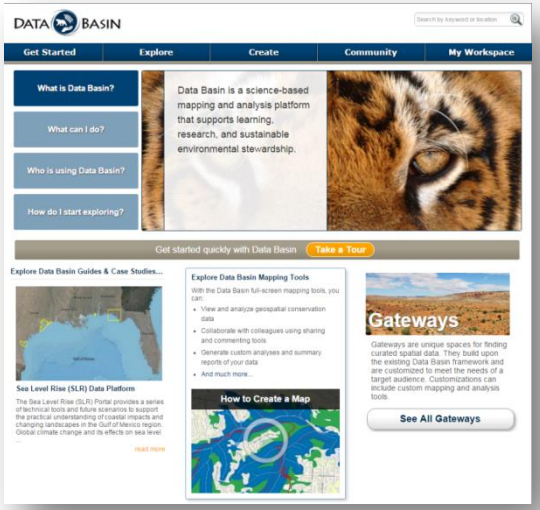


Data Basin - Users

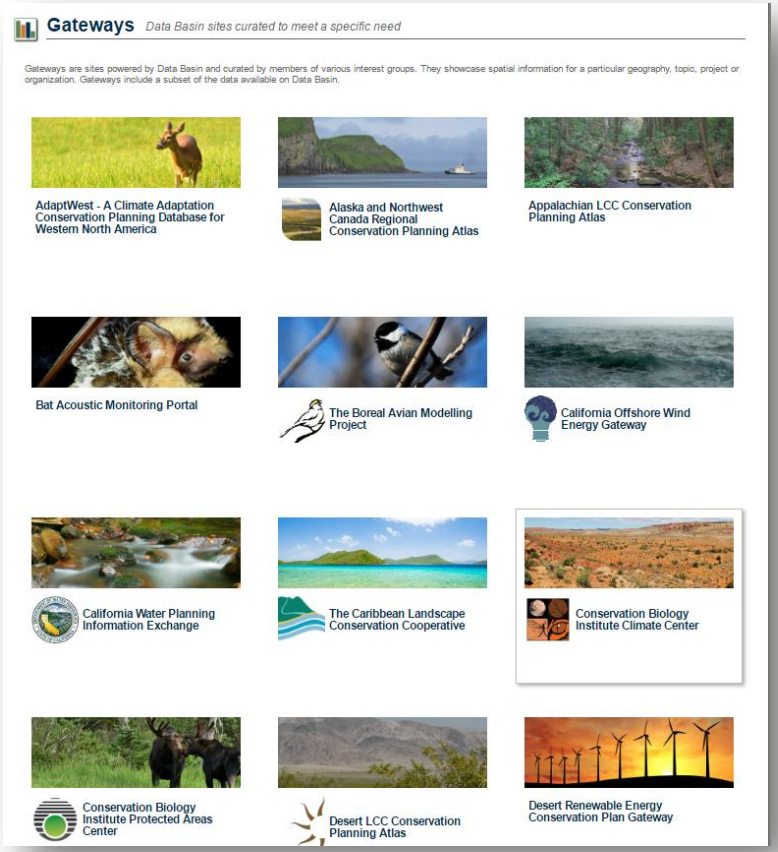


- Academic
- Federal Government
- State & Local Government
- Non-Profit
- Corporate
- Not Specified
- Other

Data Basin, Gateways, Models & Applications

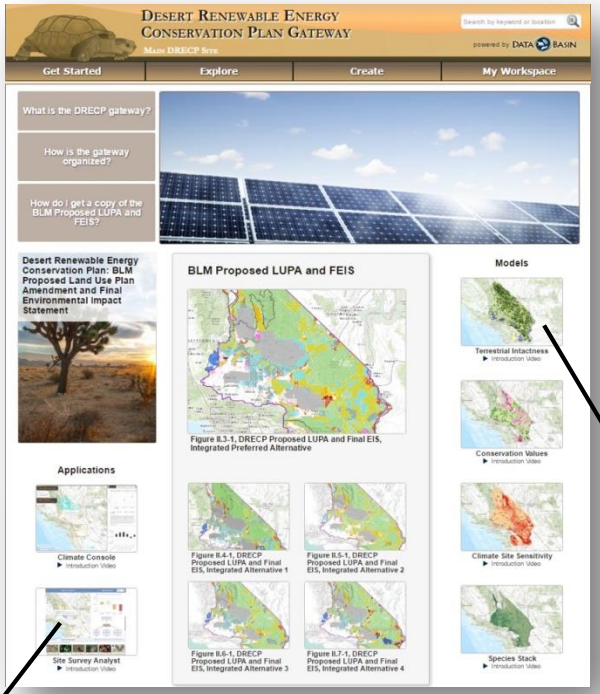


databasin.org



Data Basin, Gateways, Models & Applications

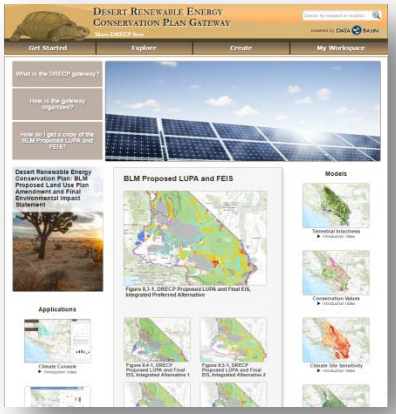
DRECP Gateway



Site Survey Analyst

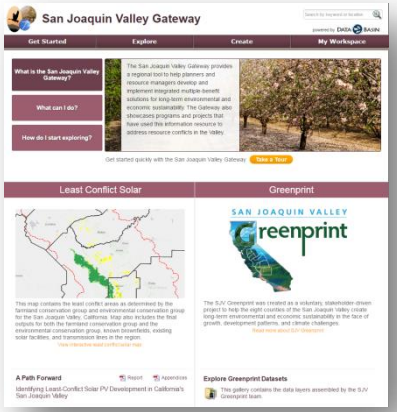
Terrestrial intactness

Data Basin, Gateways, Models & Applications



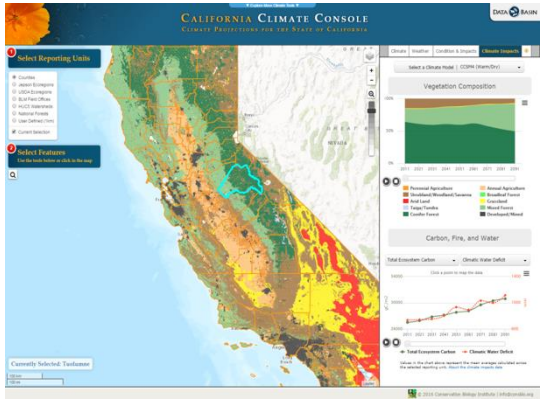
drecp.databasin.org

reti.databasin.org

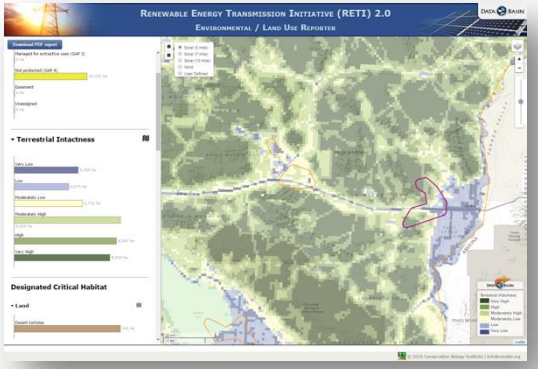


sjvp.databasin.org

caoffshorewind.databasin.org



climateconsole.org/ca



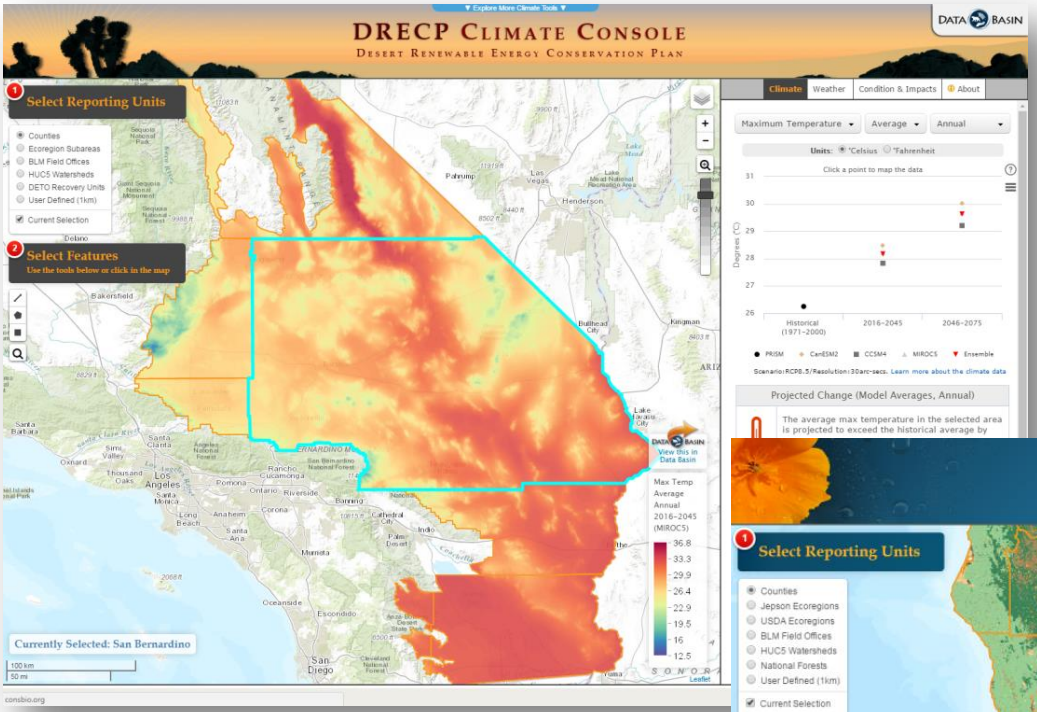
energy planning applications

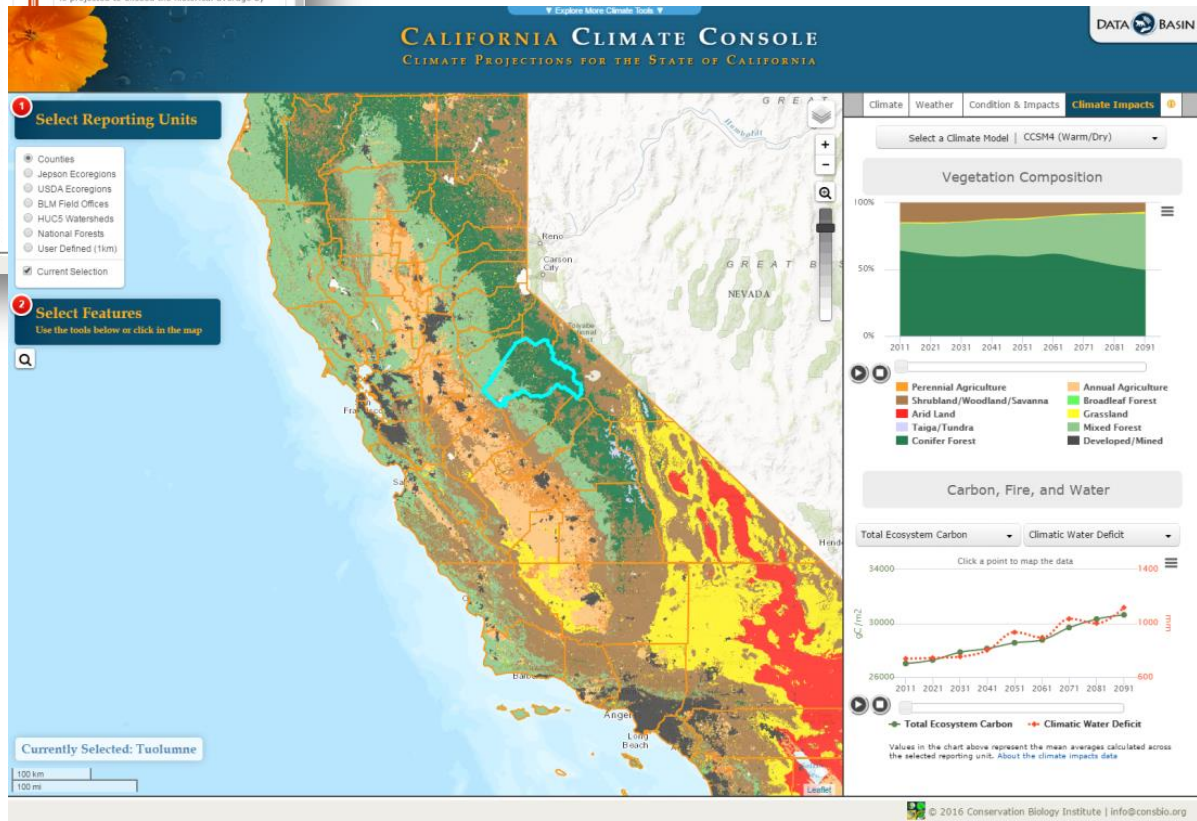
Data Basin, Gateways, Models & Applications

Gateways

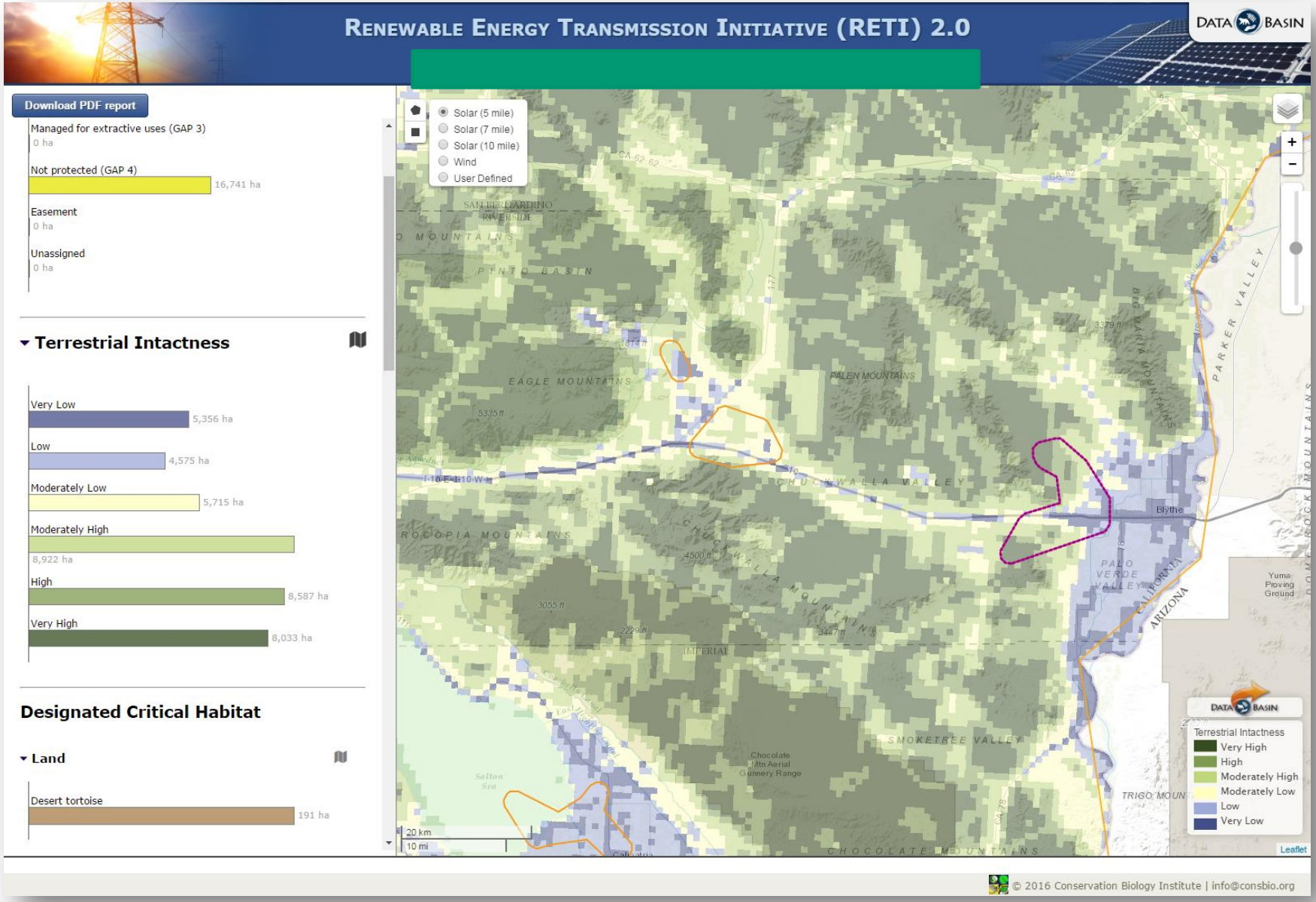
Applications

Data Basin, Gateways, Models & Applications

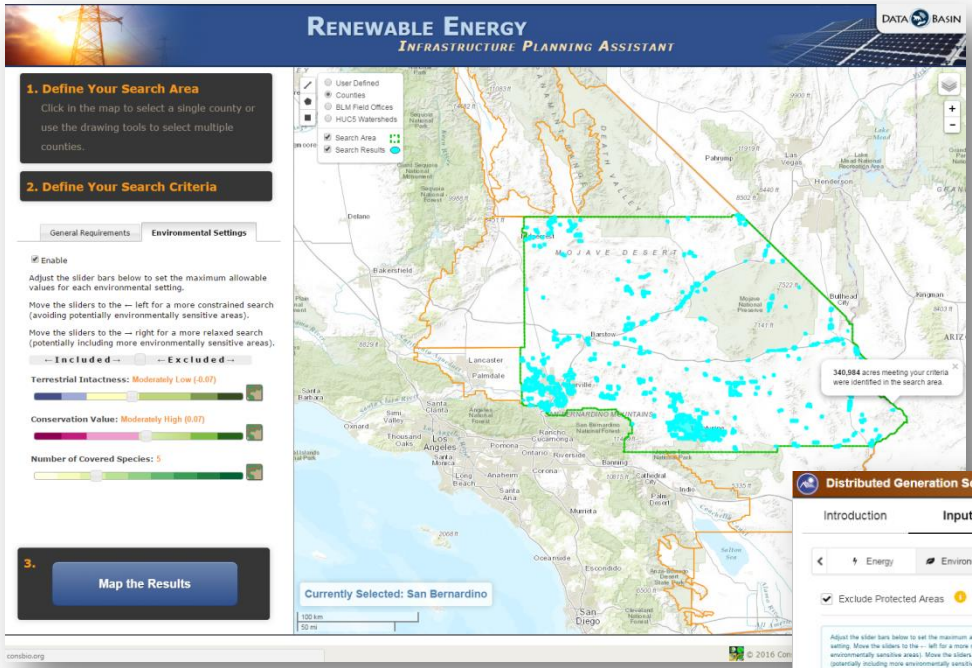


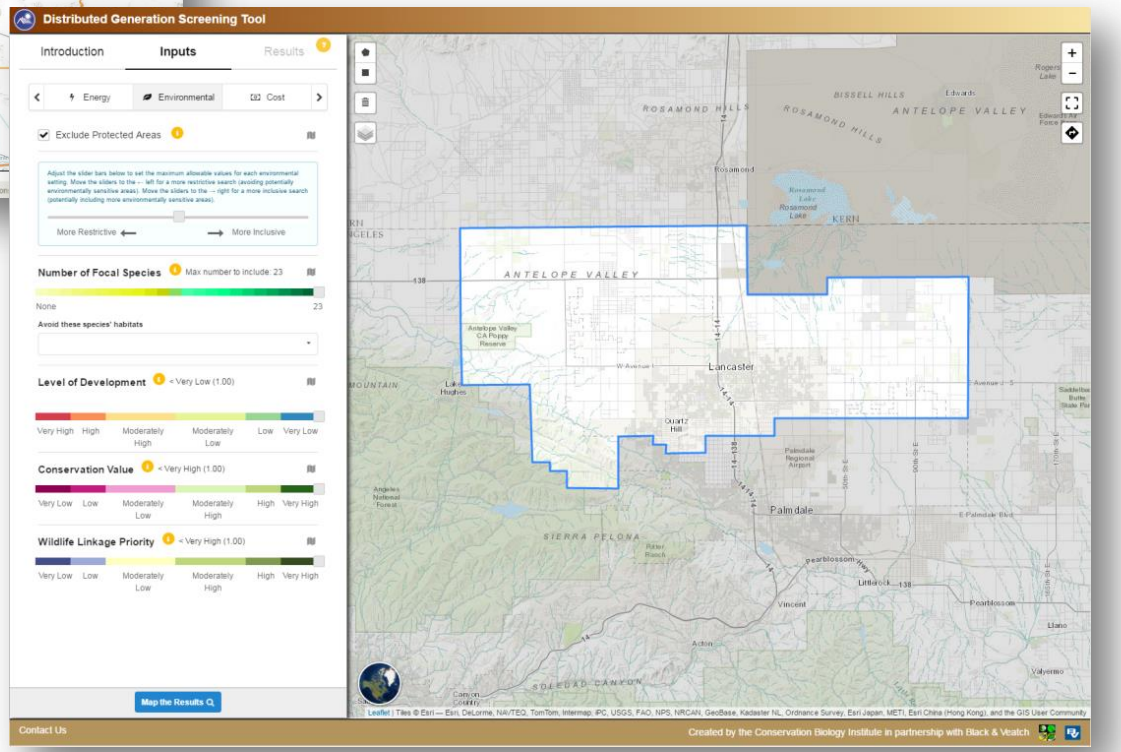


Data Basin, Gateways, Models & Applications



Data Basin, Gateways, Models & Applications





Data Categories – Environmental Conservation

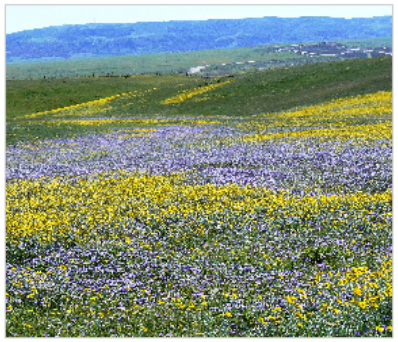
- Conservation Lands
- Conservation Elements
  - Species occurrences
  - Natural communities occurrences
- Land Cover – GAP Analysis/Special Communities
- Focal Species Distributions
- Connectivity – Corridors/Landscape Permeability
- Landscape Condition – Terrestrial and Aquatic Intactness
- High Conservation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

Data Sources

California Biological Data

Created by Conservation Biology Institute — Jan 18, 2016

Manage... | Add to...



About

This gallery contains datasets pertaining to biological content in the State of California, including species, natural communities, and some model aggregation results.

Tags

biological, values, california

This gallery is visible to everyone

Gallery contains

14 Folders
39 Datasets
6 Galleries

Usage

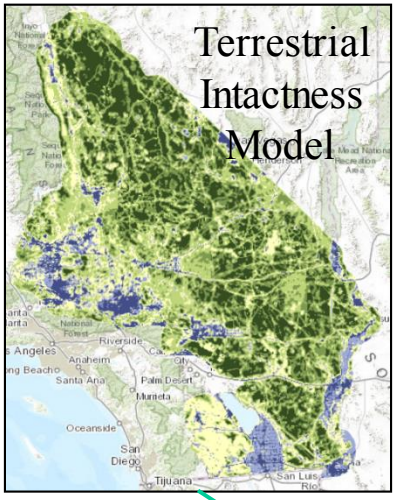
bookmarked by 1 member

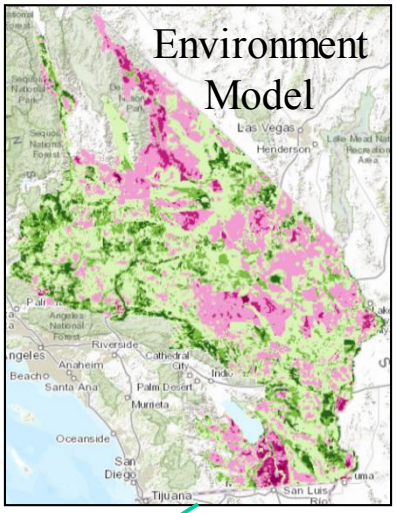
Gallery Contents | Gallery Credits | Attachments | Comments (0)

Sort by: Default — Display:

- **Conservation Model Results** (3 folders)
  - **DRECP** (5 items)
    - Dataset — Current Terrestrial Landscape Intactness (1km), DRECP
    - Dataset — Conservation Value (1km), DRECP
    - Dataset — Terrestrial Intactness - Conservation Value Combination (1km), DRECP
    - Dataset — Covered Species Stack - The Combined Distribution of 37 Covered Species ...
    - Dataset — Other Species Stack - The Combined Distribution of 55 Non-Covered ...
  - **San JoaquinValley** (2 items)
  - **Statewide** (1 item)
- **Natural Communities** (4 folders)
- **Species** (4 folders)

Statewide and Regional Data – DRECP Example

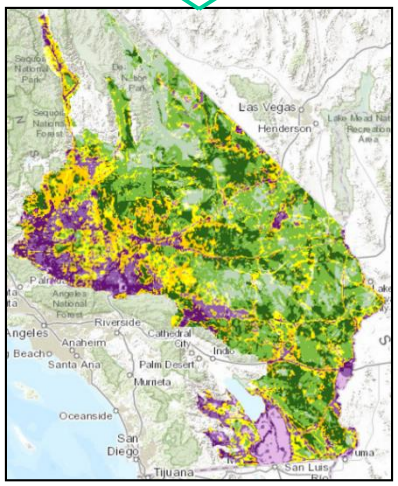




Agriculture
Model
Now Have

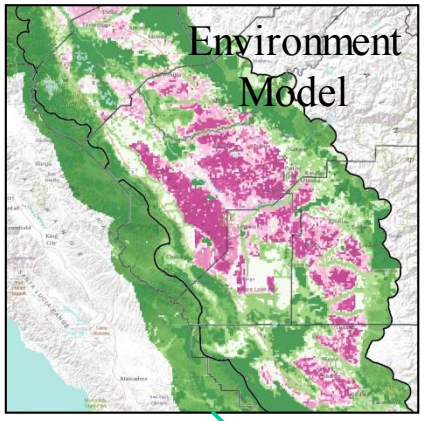
Aquatic
Intactness
Model

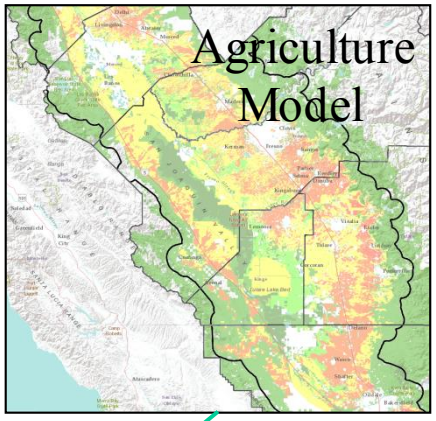
Composite
Model



Statewide and Regional Data – SJ Example

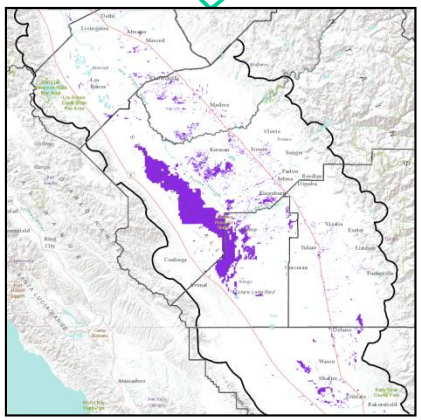
Terrestrial Intactness Model
Now Have



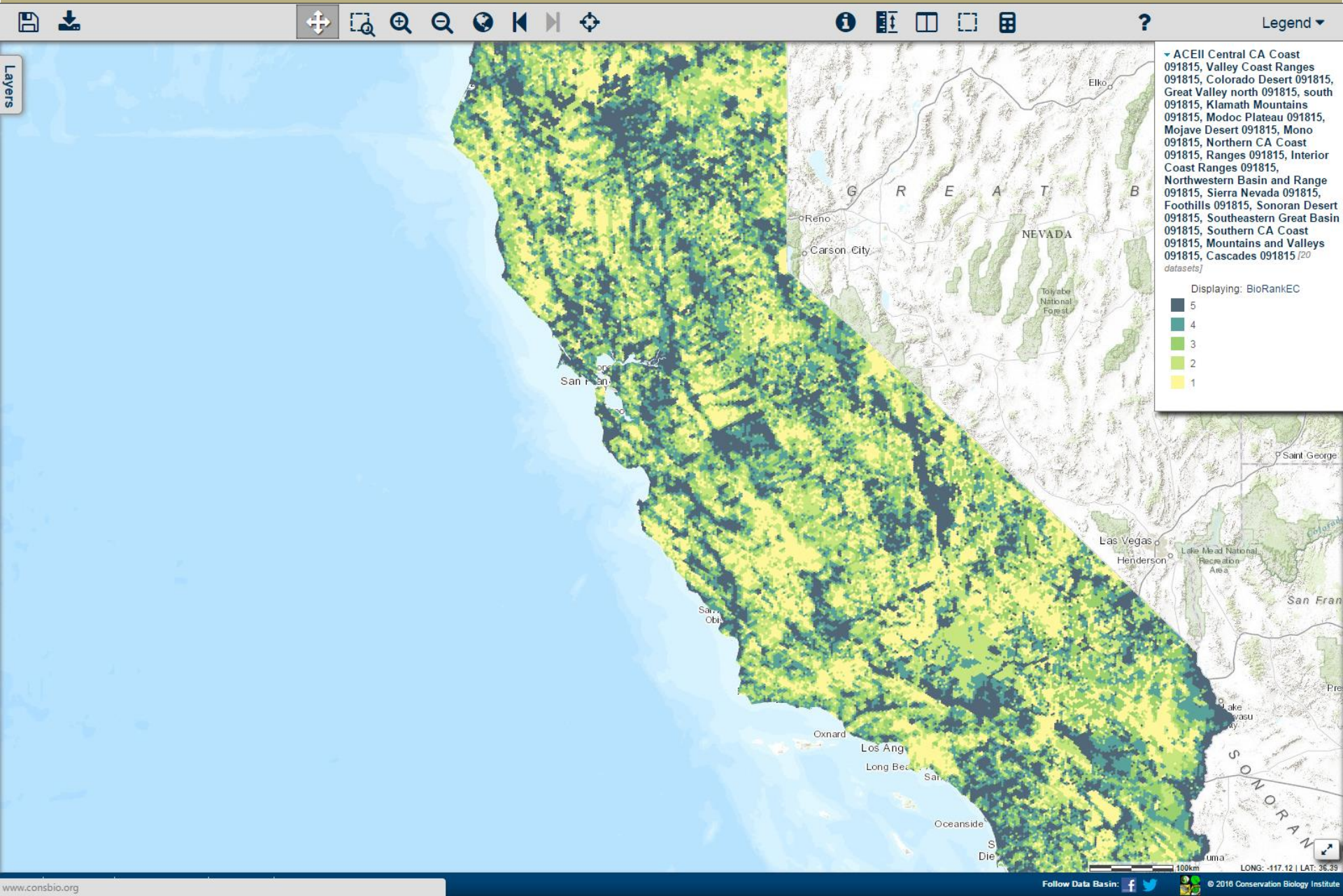


Aquatic Intactness Model

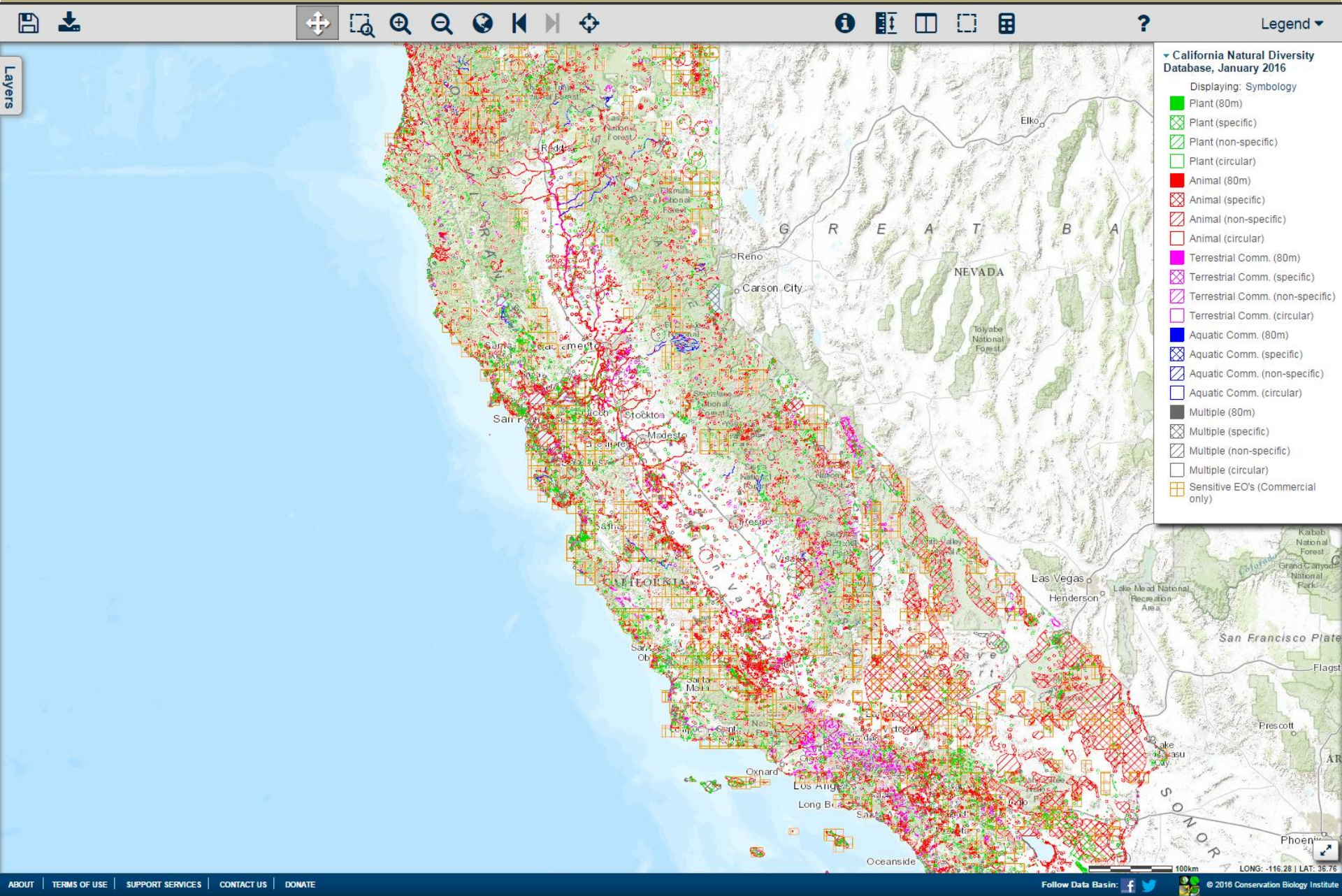
Composite Model



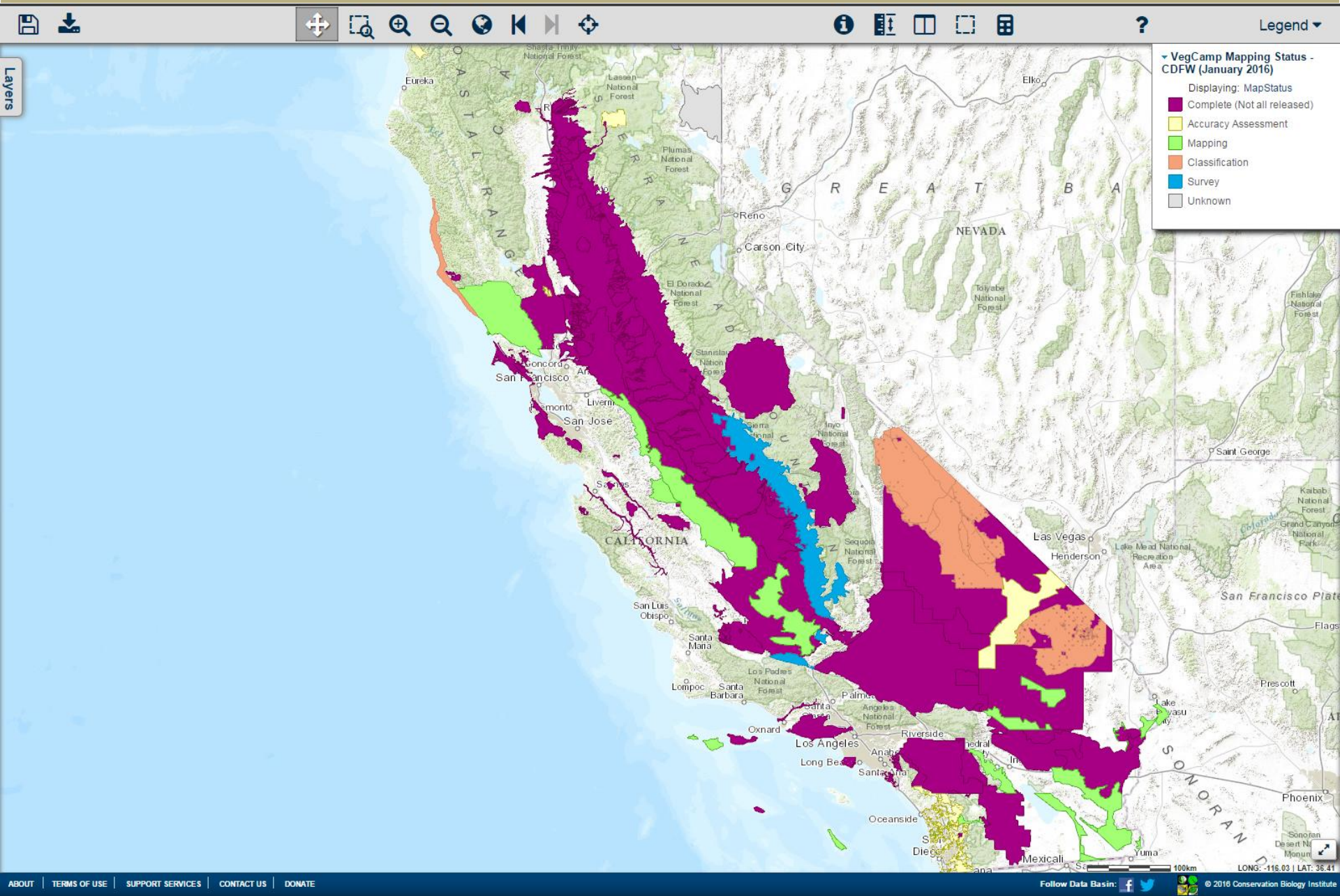
Data Sources – ACE II



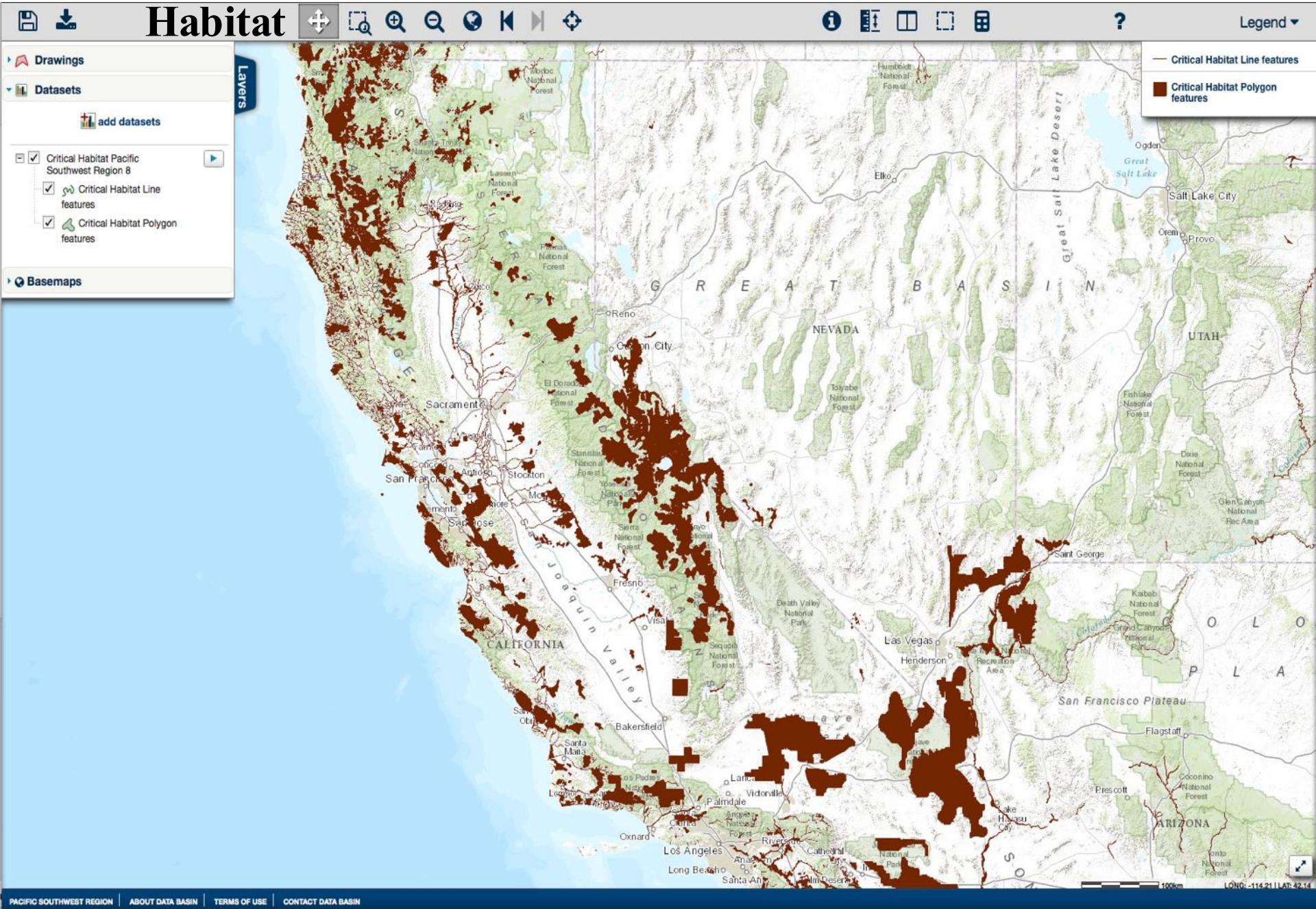
Data Sources - CNDDB

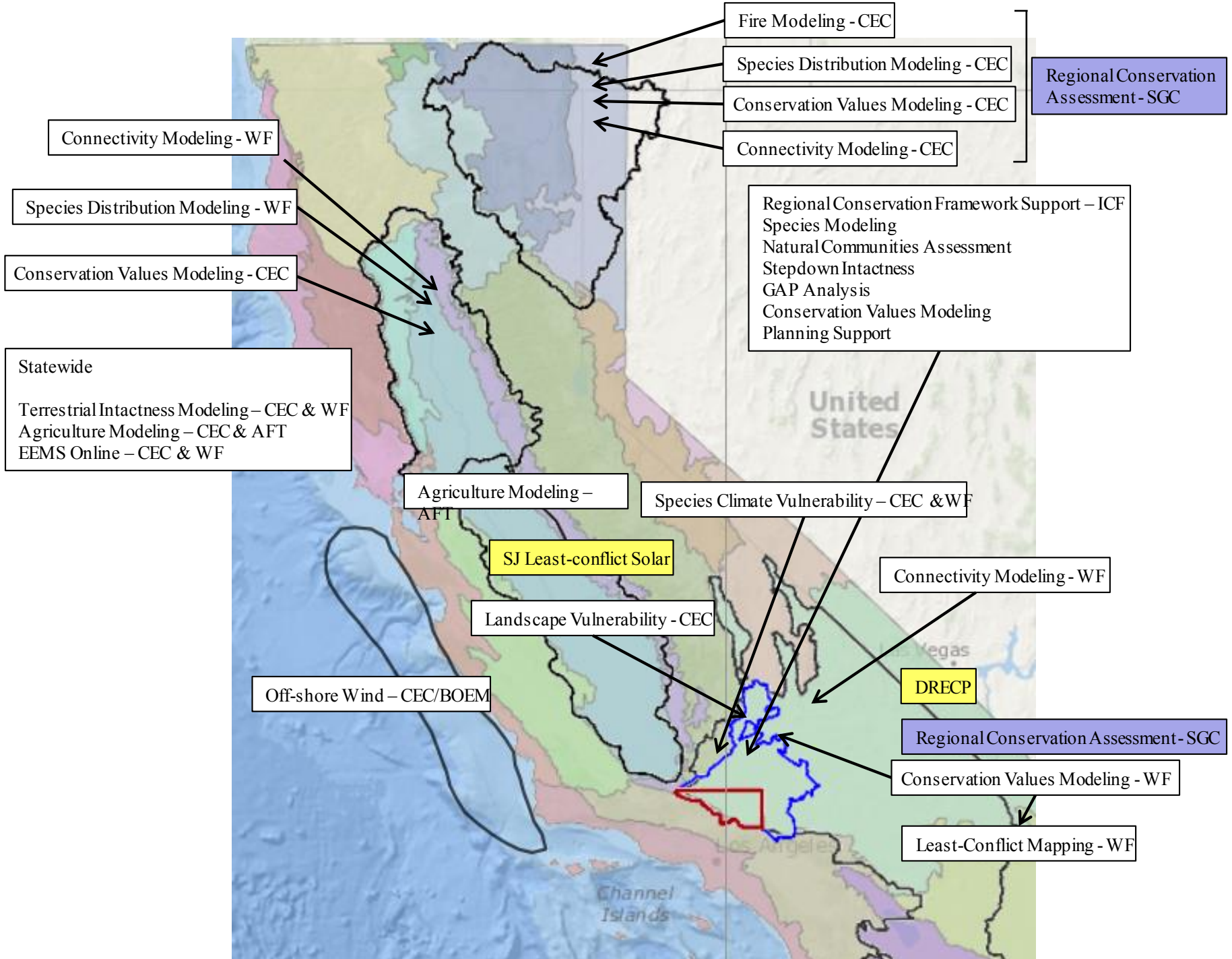


Data Sources – Vegetation Classification and Mapping Program

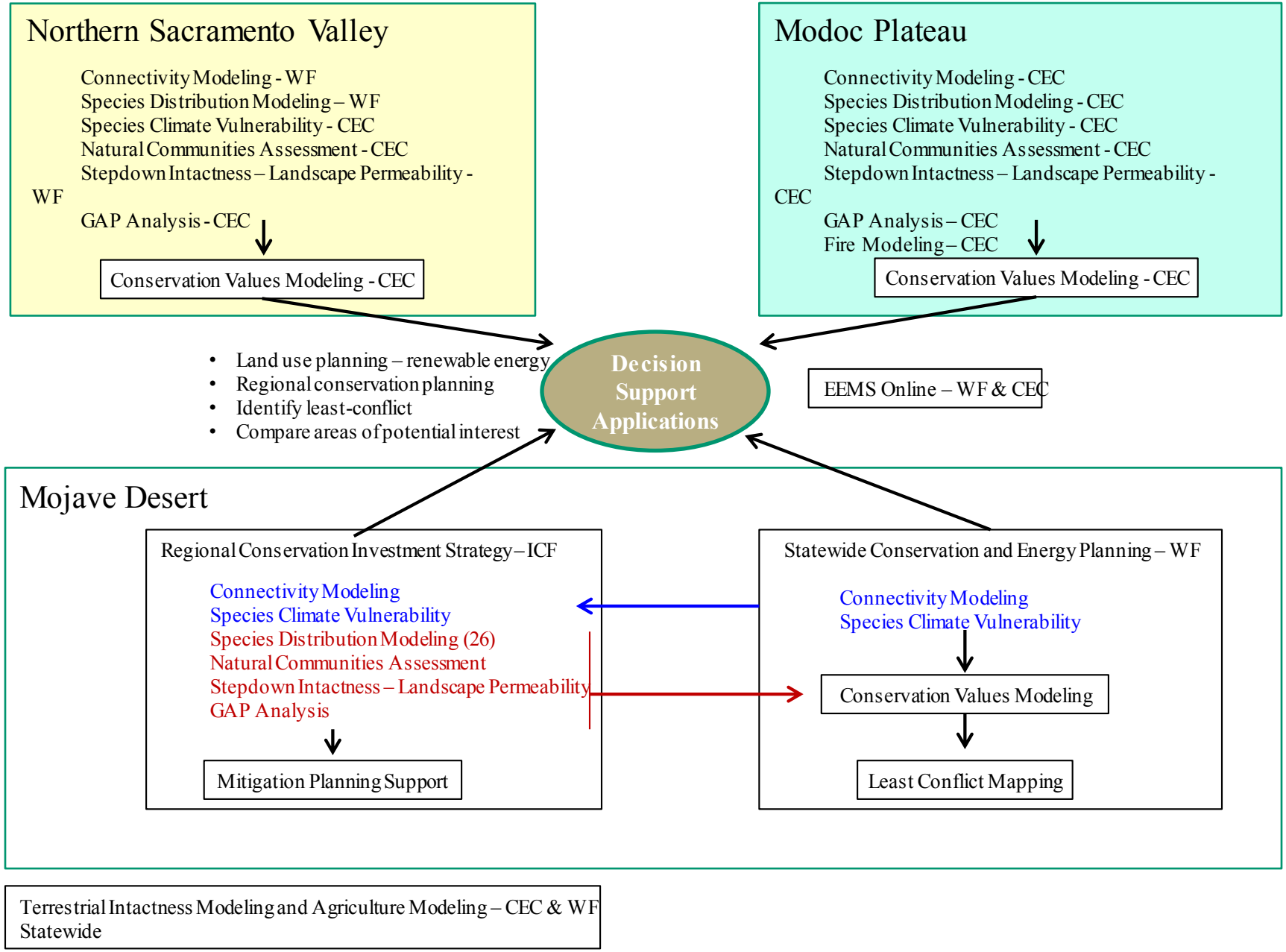


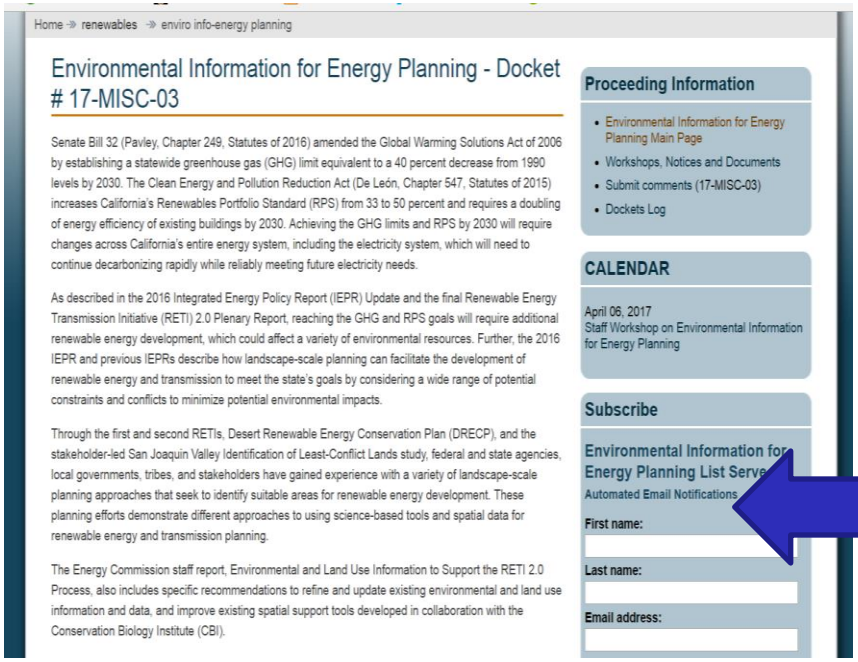
U.S. Fish & Wildlife Service - Designated Critical Habitat




Fire Modeling - CEC
Species Distribution Modeling - CEC
Conservation Values Modeling - CEC
Connectivity Modeling - CEC
Regional Conservation Assessment - SGC
Connectivity Modeling - WF
Species Distribution Modeling - WF
Conservation Values Modeling - CEC
Regional Conservation Framework Support – ICF
Species Modeling
Natural Communities Assessment
Stepdown Intactness
GAP Analysis
Conservation Values Modeling
Planning Support
Statewide
Terrestrial Intactness Modeling – CEC & WF
Agriculture Modeling – CEC & AFT
EEMS Online – CEC & WF
United States
Agriculture Modeling – AFT
Species Climate Vulnerability – CEC &WF
SJ Least-conflict Solar
Connectivity Modeling - WF
Landscape Vulnerability - CEC
Las Vegas
Off-shore Wind – CEC/BOEM
DRECP
Regional Conservation Assessment - SGC
Conservation Values Modeling - WF
Los Angeles
Least-Conflict Mapping - WF
Channel Islands

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



Website and List Serve

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