SoCal Greenprint

Background & Status Update

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INNOVATING FOR A BETTER TOMORROW

Integrating Nature into the Region's Future

- Healthy, sustainable communities are Connect SoCal goals

- Nature is essential to future growth and development

- Creates first conservation-focused data tool for SCAG's six counties

- Built for stakeholders shaping the region's future

- Converts existing data into interactive, user-friendly maps

- Balance growth while protecting biodiversity

- Resource for SCAG member agencies and stakeholders

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Greenprints Plan with Nature

Greenprints Nationally

Greenprint Resource Hub

Goal of the SoCal Greenprint

To protect, restore, and enhance

natural lands, public greenspace, working lands,

and water resources

and the benefits they provide to

people and nature throughout the SCAG region

What a Greenprint is and is not

WHAT IT IS	WHAT IT IS NOT
A framework to advance the pace and scale of voluntary conservation in a region.	An acquisition map or regulatory plan that puts constraints on land use for any public or private entity.
An assessment that identifies landscape features that are important to residents and communities, like recreation, habitat, water resources, habitat, climate change resiliency or community.	A complete inventory of everything important within an area or new data set.
An analysis that illustrates how conservation values may work in concert with each other and with other values.	A comprehensive solution for natural resource protection.
A resource that helps stakeholders understand shared priorities and facilitates collaboration.	A requirement that stakeholders engage in projects.
A tool that addresses the needs and opportunities for keeping working and agricultural lands viable.	An effort to subvert private property rights.

Infrastructure Goals of the SoCal Greenprint

- Encourage early consideration of nature in project planning
- Reduce risks to projects
- Generate support for projects
- Support strategic mitigation investments
- Foster a sustainable region

Key Users of the SoCal Greenprint

Infrastructure Agencies

Conservation Practitioners

Community-Based Organizations

Developers

Planners (Town, City, County, Tribal)
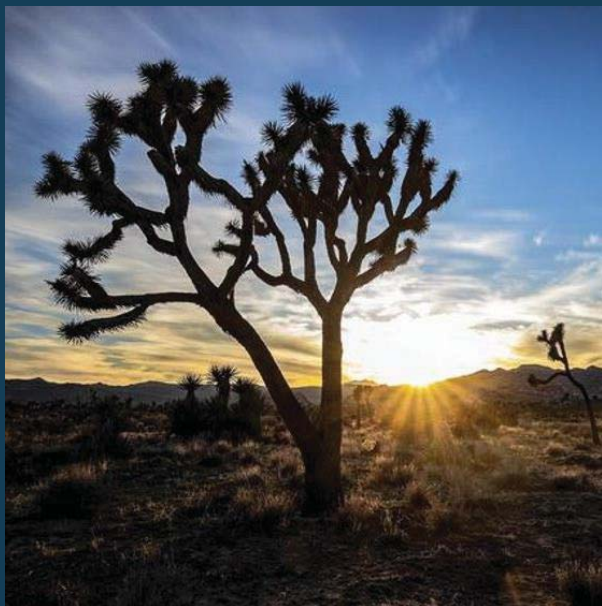
Outreach & Rapid Assessments

- Working Groups & Advisors
- Early case-study exercise
- Uses real project data
- Meet the needs of targeted user groups
- Gather feedback on:
    - information proposed to be in the Greenprint
    - how that information is analyzed and communicated

The Nature Conservancy
#82895024

Milestones

2020 · 2021 · 2022

Where we are today

SCOPING

STRATEGIC OUTREACH

- Connect with stakeholders
- Intersect with SCAG working groups
- Gain insights on tool uses and datasets
- Conduct rapid assessments
- Develop case studies

DATA GATHERING & TOOL DEVELOPMENT

- Develop themes, goals and objectives
- Gather datasets
- Connect with science advisers
- Develop reporting framework
- Wireframe/mockups

LAUNCH & EVALUATION

- Website and Greenprint tool
- Report on funding and implementation
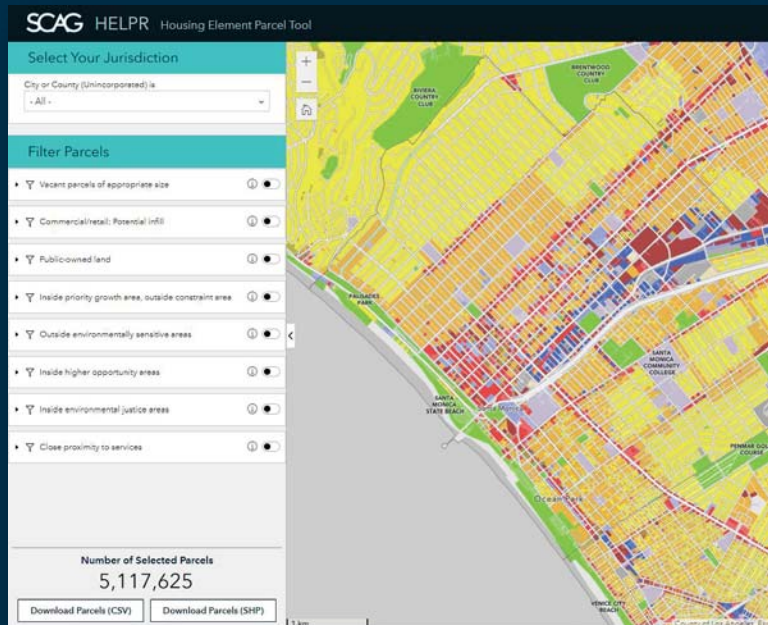
Outreach Activities - Overview

- Steering committee includes outside experts
- 60+ advisors/4 interactive workshops
  - Multiple sectors and diverse geographies
  - Public agencies and municipalities
  - Building and development community
- Ongoing conversations and small working groups
- 8 Rapid assessment interviews
- Developed 6 user profiles
- Pre-launch testing
- Case studies

Outreach Activities – Rapid Assessments

Organization Name	Organization Type	Housing-related?	County	Project Specifications	Greenprint Advisor?
Pacoima Beautiful	Community Based Organization	No	Los Angeles	Interest: Identifying opportunities to expand greenspace	No
Riverside Corona Resource Conservation District	Agriculture Governmental Agency	No	Western Riverside and San Bernardino	Interest: Highlighting the co-benefits of protecting agricultural lands.	Yes
Clean Power Alliance	Infrastructure Conservation Organization	No	Ventura	Interest: Understanding the impacts and resources on a proposed project site for renewable energy.	Yes
San Bernardino County Transportation Authority	Transportation Agency	No	San Bernardino	Interest: Identifying the impacts of a potential transportation corridor.	Yes
LA County Planning	Planning Agency	Yes	Los Angeles	Interest: Identifying the environmental resources on a site proposed for housing development.	Yes
Building Industry Association of Southern California	Developer Organization	Yes	Los Angeles	Interest: Understanding the potential opportunities and benefits of a proposed housing development.	Yes
Sierra Club – Santa Clarita Chapter	Conservation Organization	Yes	Los Angeles	Interest: Understanding the environmental impacts of a proposed housing development.	No
Placeworks	Planning Consultant	Yes	San Bernardino	Interest: Understanding how the Greenprint can be used to inform General Plan updates.	No

Technical Contributions

- SoCal Greenprint Data contributed to the HELPR tool
- Data flow between SoCal Greenprint and other SCAG tools
- Data in the SoCal Greenprint utilizes publicly available resources

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SoCal Greenprint Data Review Process

1. **Compilation:** TNC Science team compiled lists of publicly-available data and developed metrics for each theme; used in rapid assessments.

2. **External Review:** Advisors with expertise for each theme reviewed data, outputs, and provided feedback + rapid assessment interviews with representative projects.

3. **Internal Review:** TNC Science team is reviewing recommendations and SCAG staff will make final decisions about data inclusion.

Example Greenprint Data Layers

Agricultural and Working Lands

- Farmland Mapping & Monitoring Data
- Agritourism
- Crop production

Environmental Justice, Equity, and Inclusion

- DAC, CalEnviroscreen, Com. of Concern
- Public Open Space (CPAD)
- Tree Canopy

Habitat & Biodiversity

- Endangered Species
- Habitat Connectivity
- High Biodiversity Areas

Built Environment

- Roads
- Transit stops
- Sewer Lines

Climate Vulnerabilities & Resilience

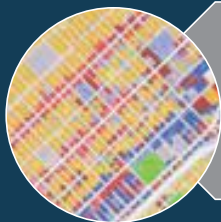- Seismic hazards
- 100 & 500 year flood plains
- High fire-risk

Water Resources

- 303d Listed Impaired water bodies/streams
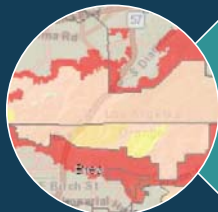- Water quality index
- Groundwater recharge

Context

- City/County boundaries
- Land use (SCAG Data, 2016)
- Land Cover

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Greenprint Data Visualizations & Tools

Interactive Web Map

- Displays local, state, and federal datasets
- Users can turn-on or turn-off layers
- Data layers will be downloadable

Multi-Benefit Asset Maps

- Combines data layers from the Web Map based on central themes
- Transparencies allow users to customize how data is shown
- For visualization purposes only, and not downloadable

Customized Reporting

- Users can draw a boundary and create a report summarizing data outputs
- Users can compare outputs for two different areas
- Reports & data layers will be available for download

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GIS Data Name	Source Name	Data Layers Used	Metric Type
Farmland Mapping and Monitoring Program 2016	California Department of Conservation	2016 Prime Farmland; 2016 Important Farmland; 2016 Farmland of Statewide Importance; 2016 Farmland of Local Importance; Grazing Land	Tabular: Acres in project area/region
Farmland Mapping and Monitoring Program 1984	California Department of Conservation	1984 Prime Farmland	Descriptive/Graphic: Change in area of prime farmland between 1984 and 2016 (historic trend)
Soil Agricultural Groundwater Banking Index (SAGBI)	California Soil Resource Lab at UC Davis and UC-ANR	Groundwater recharge	Tabular: Acres of soils suitable for groundwater recharge in the project area/region
Crop production	USDA	Agricultural production by CWHR 13 Agriculture Types	Descriptive: Dollar value of crops grown in the project area/region
Projected Change in Climate Water Deficit	USGS-BCM (Flint and Flint)	Climate water deficit	Descriptive: Additional water needed for irrigation under climate change (cross-cutting metric)
CA Storie Index	USDA - Soil Survey Geographic Database	Soil rating	Tabular: Acres of project area with high Storie Index score in project area/region – indicator of soil health
Class 1 and 2 lands that are of high value for food production.	USDA - Soil Survey Geographic Database	Irrigation capability of soil	Tabular: Acres in project area/region
Williamson Act properties	County by county data		Protection metric: Number of properties in the project area or region enrolled in the Williamson Act
Farmland Under Threat	American Farmland Trust		Descriptive: Information about the types of threats to farmland and action-oriented metric about the importance of conserving agricultural lands

DRAFT - San Bernardino County Transportation Authority - DRAFT

Length: 49.3 miles
Area (quarter-mi buffer): 15,898 acres
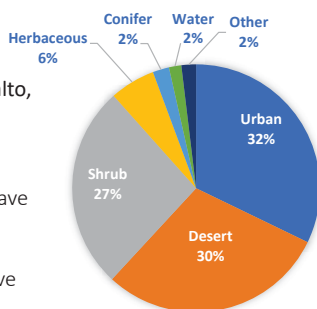**Area (half-mi buffer):** 32,038 acres
Cities: Apple Valley, Fontana, Hesperia, Rancho Cucamonga, Rialto, San Bernardino, Victorville, Unincorporated
Counties: San Bernardino

Watersheds: Lytle Creek, Chino Creek, Bell Mountain Wash-Mojave River, Middle Santa Ana River
Air Basin: Mojave Desert Air Basin, South Coast Air Basin
Air Districts: South Coast Air Quality Management District, Mojave Desert Air Quality Management District

Pie chart: Urban 32%, Desert 30%, Shrub 27%, Herbaceous 6%, Conifer 2%, Water 2%, Other 2%

Map legend:
- - - Proposed Rail Line
☐ Half-mile buffer
Major Roads
— Interstate
— State Highway
☐ Protected Lands
N 0 4 8 Miles

Rare Species and Habitats

• USFWS Critical Habitat for **3 threatened & endangered species:** Arroyo toad, San Bernardino Merriam's kangaroo rat, Southwestern willow flycatcher

• Locations of **14 rare species** within 0.5 miles of your project site (CNDDB): arroyo toad, California glossy snake, Parry's spineflower, San Bernardino kangaroo rat, slender-horned spineflower, southwestern willow flycatcher, desert tortoise,

Transportation & Built Environment

Roads
• **1,679 roads** are within 0.5 miles of your project area (484 miles).
• **39 highway** is within 0.5 miles of your project area (61 miles).

Public Transit
• **2 miles** of public transit (Metrolink) within a half mile of your project area.

Transit Priorities
• **<1%** of your project area is in a transit priority area.
• **<1%** of your project area is in a high-quality transit area.

Average Vehicle Miles Traveled
• **48.2** average weekday household vehicle-miles traveled
• **68.9** average weekday household person-miles traveled

Questions & Discussion

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