SoCal Greenprint
Natural and Working Lands Working Group

The Nature Conservancy and Southern California Association of Governments

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www.scag.ca.gov
Multi-benefit Asset Mapping

• What is Multi-benefit Asset Mapping?
• Why is it useful?
• How do we implement this in the SoCal Greenprint?
Multi-benefit Asset Mapping

A wall-to-wall **characterization** of the overlap of **resources**

- **Agriculture and Working Lands**
- **Built environment**
- **Habitat and Biodiversity**
- **Climate Vulnerabilities and Resilience**
- **Environmental Justice, Equity, and Inclusion**
- **Water Resources**

**Climate Action Through Conservation**

**Santa Clara Valley Greenprint**

**Pajaro Compass**
Multi-benefit Asset Mapping

Six thematic asset mapping indices by theme, supported by multiple datasets

- Agriculture and Working Lands
- Habitat and Biodiversity
- Environmental Justice, Equity, and Inclusion
- Built environment
- Climate Vulnerabilities and Resilience
- Water Resources

Highlight the multiple benefits of each theme

Enables multiple users to use their unique perspective
What are the benefits of multi-benefit asset mapping?

Highlights areas of high or low resource overlap
- No surprise reporting
- Areas where protection may benefit multiple resources
- Areas where development may have less conflict

Increases knowledge and awareness
- Facilitate cross-sector partnerships and coalitions
- Increase advocates for projects
- Help to identify alternate funding sources
Bay Area Greenprint Demonstration

The multi-benefit conservation assessment maps the degree of overlap of nature’s values and benefits. Darker areas have more resources. Use the sliders to adjust the relative influence of each item.

**Biodiversity**
- Prioritized Habitats
- Habitat Connectivity
- Species & Habitat Mitigation

**Water Resources**
- Water Yield
- Water Quality
Data elements are aggregated to a regional fishnet grid cell with geographic coverage for the entire SCAG Region.

If underlying dataset intersects with fishnet, data is transferred and summarized at fishnet grid level.

When developing multi-benefit asset layers based on the six themes, grid cells intersecting with more underlying data elements will appear darker.

There is no rescaling, weighting of underlying data elements, or alteration of native data sources (as developed by local, state, and federal data authors).

Fishnet Grid Scale = 30 Meters x 30 Meters
Asset maps will be:

- Curated, existing, publicly available datasets
- User-driven
- Adjustable by transparency between sub-themes
- Clear about which datasets are used

Asset maps will not:

- Not be available for download as a static map
- Not be weighted or scored
- Not combine data measured in different units
- Will not be used in the Greenprint report for an area-of-interest