

STORMWATER AND LANDSCAPE SPATIAL ANALYSIS (SALSA)

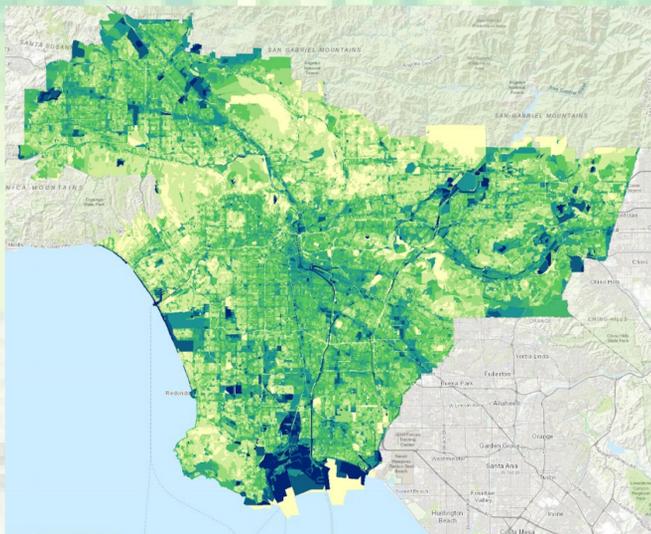
NATURE-BASED SOLUTIONS FOR HEALTHIER AND GREENER CITIES

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¹The Nature Conservancy

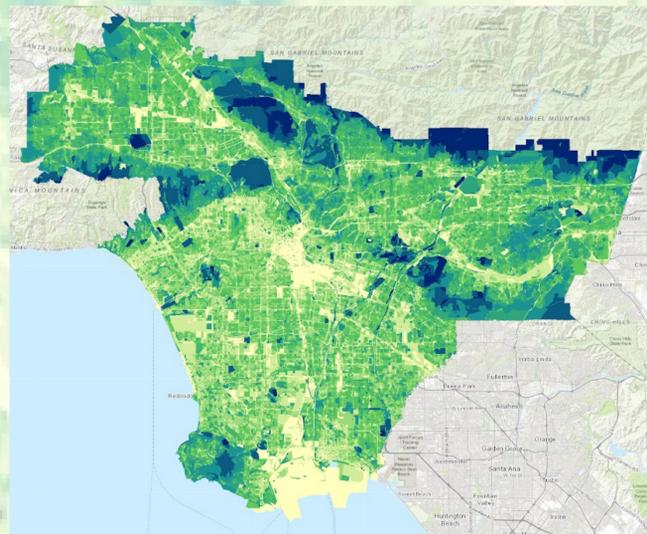
The Nature Conservancy's spatial analysis tool, SALSA, can help prioritize where to site stormwater management projects to increase biodiversity, habitat, and human well-being.

The maps below show priority areas for siting stormwater infrastructure using nature-based solutions (in dark blue) depending on desired benefits.



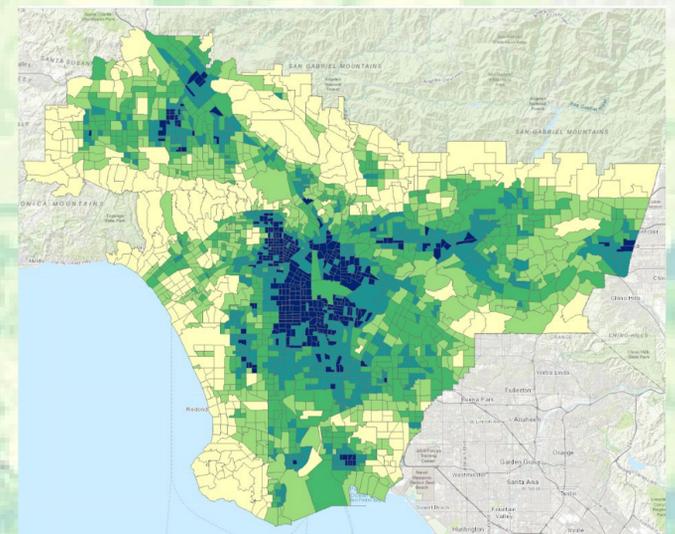
Map 1: Where to site stormwater infrastructure that benefits biodiversity by **ADDING** habitat.

The dark blue census blocks on this map have the highest proportion of land that could readily be converted to nature-based solutions and does not adjoin any existing habitat. Nature-based solutions sited in these blocks would be most likely to add new "islands" of habitat. The light yellow census blocks have the lowest proportion of such land.



Map 2: Where to site stormwater infrastructure that benefits biodiversity by **EXPANDING** habitat.

The dark blue census blocks on this map have the highest proportion of land that could readily be converted to nature-based solutions and adjoins existing habitat areas. Nature-based solutions sited in these blocks would be most likely to expand existing habitat areas. The light yellow census blocks have the lowest proportion of such land.



Map 3: Optimal locations for siting nature-based solutions that could yield multiple potential public health benefits.

The dark blue census tracts on this map have the highest scores for potential to provide multiple public health benefits based on environmental and socioeconomic factors (e.g. air quality, urban heat, race, density, and economic hardship). Nature-based solutions sited in these tracts are most likely to produce multiple public health benefits. The light yellow census tracts have the lowest scores for this metric.

THE NATURE CONSERVANCY IN CALIFORNIA:

To ensure California's cities become more sustainable, climate resilient, and support greater human well-being and biodiversity, TNC is driving change in four major areas:

1. Policy
2. Market solutions
3. Science
4. On-the-ground projects

THE CHALLENGE AND THE OPPORTUNITY:

Cities across Southern California are investing in new infrastructure to address the challenges of stormwater management. We promote the use of nature-based solutions to ensure projects both treat stormwater and yield multiple additional benefits, such as improved air quality, reduced urban heat, enhanced wildlife habitat and biodiversity.

THE NATURE CONSERVANCY'S SOLUTION:

Limited resources mean municipalities have to prioritize where they site projects. So TNC developed the **Stormwater and Landscape Spatial Analysis (SALSA)** to help determine the best places to site nature-based solutions to manage stormwater and provide a variety of additional benefits to nature and people. TNC is offering results from SALSA to help guide siting and implementation of projects across the region through the Safe Clean Water Program (SCWP). We are now working on SALSA Phase II, building tools to assess specific stormwater project proposals for their potential to enhance wildlife habitat and biodiversity. We will offer this for use in evaluating proposals submitted for SCWP funds.

Contact us for more information on how to use SALSA to:

- Site projects in areas that will most benefit from decreases in urban heat, improvements in air quality, and increases in biodiversity.
- Determine project attributes that will create the most benefits for people and nature.



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