



Presenter:

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April 7th, 2022

UCLA Sustainable LA Grand Challenge (SLA GC)

An interdisciplinary, university-wide initiative aimed at applying UCLA research, expertise and education to help transform Los Angeles into the world's most sustainable megacity by 2050.

Our vision is to make Los Angeles the most livable, equitable, resilient, clean and healthy megacity, serving as an example for the world.

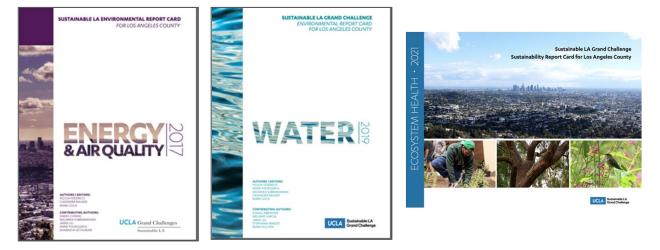


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SLA GC Report Cards for L.A. County



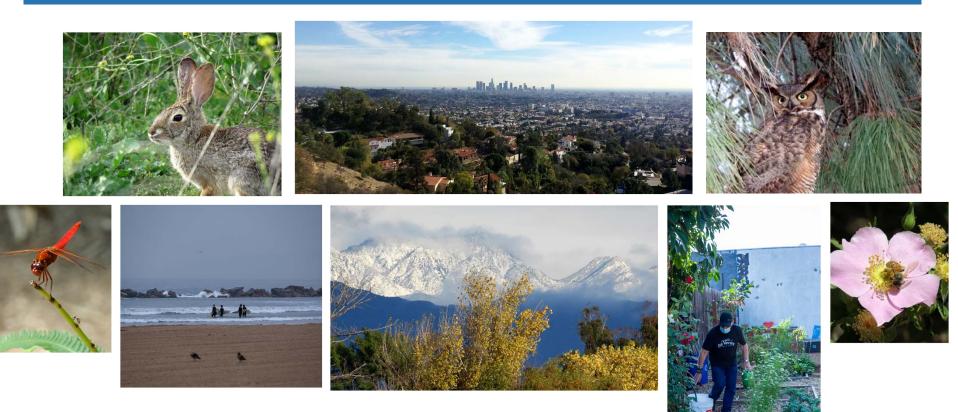
Established baseline + informed SLA GC goals/ targets



Topic-specific comprehensive reports to track progress on goals/ targets



Ecosystem Health Report Card for L.A. County



Photos: Ashley Kruythoff, Nurit Katz, National Park Service

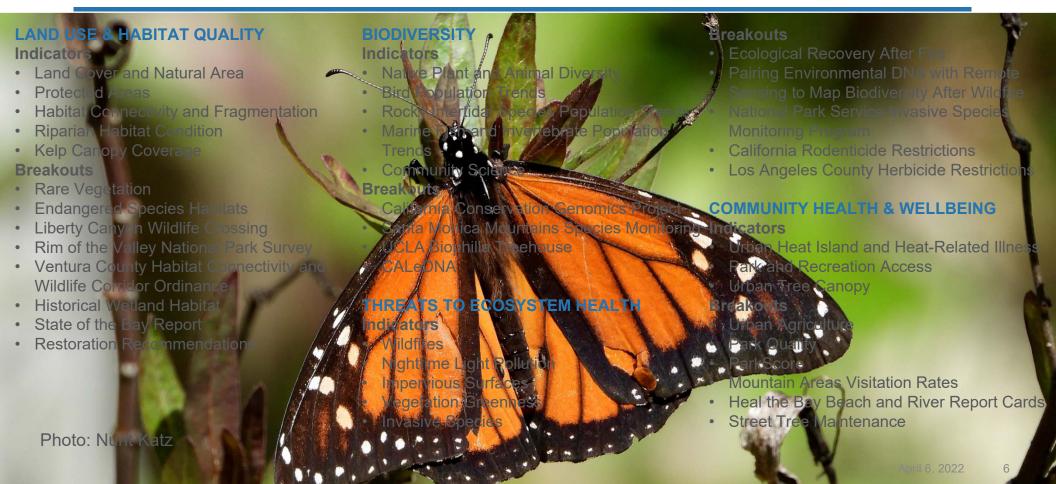
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Our Ecosystem Health Report Card Team

AUTHORS/EDITORS: CONTRIBUTING AUTHORS: Elizabeth Reid-Wainscoat Porter Margolis Anne Youngdahl **Lindsay Liegler** arrica Mason Casandra Rau Camila Bautista Eric Hoek Funding for the development of this report was generously provided from the Anthony and Jeanne Pritzker Family Foundation ky Kruythoff

Indicators and Breakouts



Data Criteria

- Ideally the data is:
 - Collected countywide
 - Easily obtainable
 - Quantifiable
 - Published by agencies, universities, or non-profit organizations
 - Updated on at least an annual basis.
- Breakouts: data that did not meet our indicator criteria, but that we deemed important.
- Recommendations include improved data collection and monitoring

Summary of Grades

Ecosystem Health Report Card for Los Angeles County		
Subject Area	Grade	
Land Use and Habitat Quality	C/Incomplete	
Biodiversity	В	
Threats to Ecosystem Health	C	
Community Health and Well-being	C III	

Grading Rubric

Category	Sub-Category	A+ (100%)	F (50%)
Data Availability	Temporal	Collected and reported on re-occuring basis	Available, but 15 or more years out of date
	Spatial		Collected and reported for select cities within the county
	Financial	Free and accessible to the public	Costs money to gain access
Data Alignment	NA	,	Does not align well with indicator; very low interpretive power
Policy Targets (near-term)		Meets or exceeds <i>near-term</i> target; target has already been met	Meets 50% or less of target
Change over time	Ecological		No longitudinal data - anecdotal negative trend
	Positive Accumulation	Increased (>=100%)	Decreased (>=100%)
	Negative Accumulation	Decreased (>=100%)	Increased (>=100%)

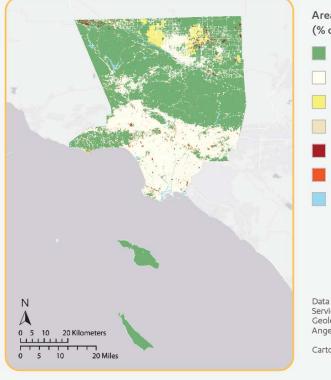
Missing Indicators: More than two missing indicators and the Chapter is *Incomplete*

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Ex. Indicator: Land Cover and Natural Area

Land Cover in Los Angeles County (using data from 2004 & 2011)



Area Classifications (% of County Area)

- Natural (64.6%)
- Urban, Developed (28.4%)

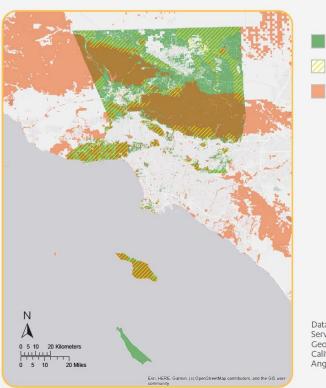
Agriculture (2.9%)

Bare Soil (1.5%)

- Non-Native Grasses (1.1%)
- Non-Native Shrubs and Trees (1.0%)
- Water (0.5%)

Data Sources: CalVeg, CA USDA-Forest Service Pacific Southwest Region (2004), U.S. Geological Survey Gap Analysis Project, Los Angeles County Census Tracts (2011)

Cartography by Porter Margolis



Protected Natural Area in Los Angeles County (2018)

Data Sources: CalVeg, CA USDA-Forest Service Pacific Southwest Region, U.S. Geological Survey GAP Analysis Project, California Protected Areas Database, Los Angeles County Significant Ecological Areas

Natural Area (2004 & 2011)

SEA (2018)

CPAD (2018)

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Ex. Indicator: Land Cover and Natural Area

RESULTS

- 64.6% of land cover in L.A. County is natural area (2004 & 2011)
- 50.62% of natural area is protected (2018)
- Only 33% of the county population lives within close proximity to natural area

RECOMMENDATIONS

- Setup a habitat quality monitoring program; invest in restoration of critical habitat
- Protect all remaining natural habitat



Ex. Indicator: Land Cover and Natural Area

GRADING

	Sub-		
Category	Category	USGS Gap Analysis	CalVeg
Data Availability	Temporal	70% (2011)	50% (2004)
Avanabinty	Spatial	100% (countywide)	60%
	Financial	100% (free)	100% (free)
Data Alignmer	ntNA	75%	100%
Policy Targets			
(near-term)	NA	50.62% protected in 2018 / 55% = 92.04% of 2025 goal	
Change over			
time	Ecological	64.6 % natural area land cover in 2018 / 100% historically = 64.6%	
Indicator Grad	e NA	76%	
Weighting	NA	50%	



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Key Takeaways

- L.A. County has extensive natural resources including many unique habitats and rich biodiversity.
- However, these natural resources are severely degraded due to urban sprawl, pollution and climate change.
- The region faces many ongoing threats including wildfire and invasive species that impact human health as well as our natural resources that we all need to survive.
- Access to these natural resources and the ecosystem services they provide is not equitably distributed.





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Thank you

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Download and Read the Full Ecosystem Health Report Card here: <u>https://escholarship.org/uc/item/117326k1</u>

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Ecosystem Health Report Card

April 6, 2022 14