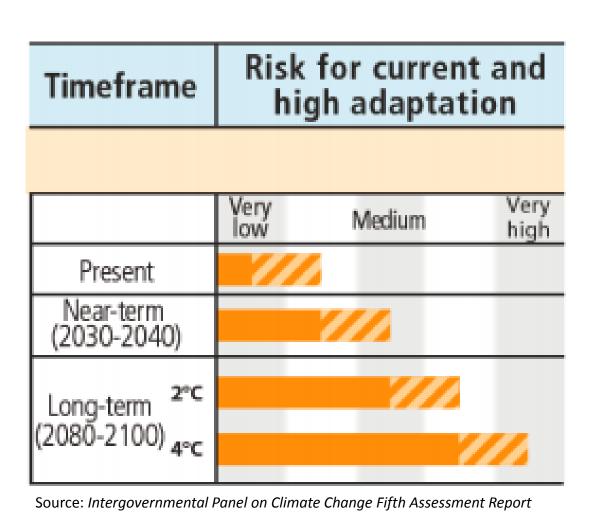
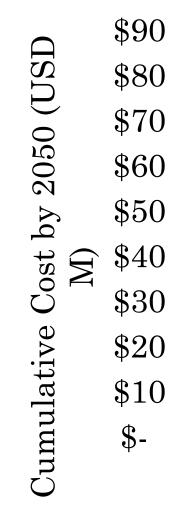


QUESTION

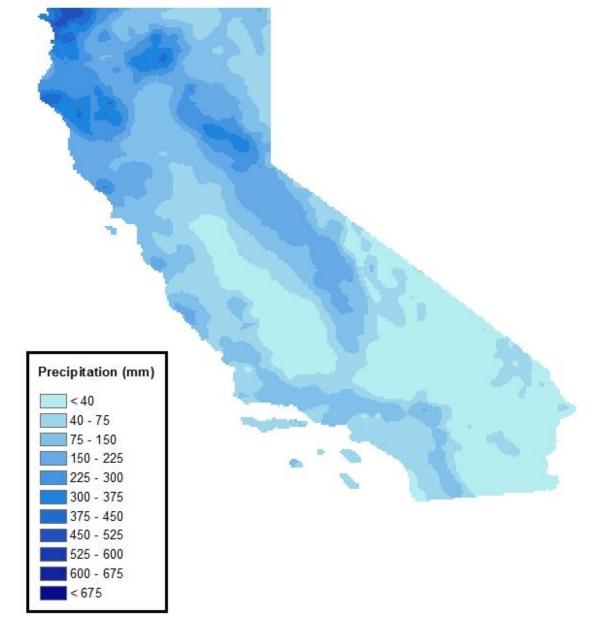
How policy can makers more than just include economic considerations in infrastructure development and investment?



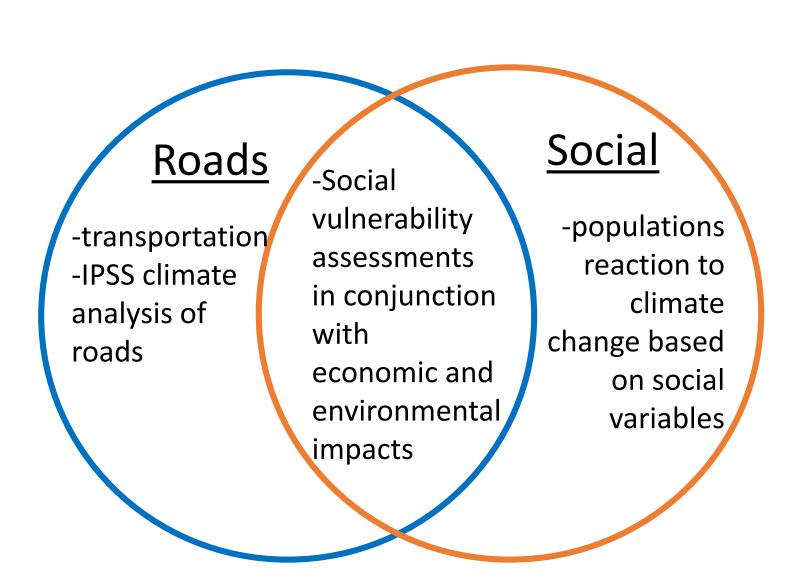


ENVIRONMENTAL

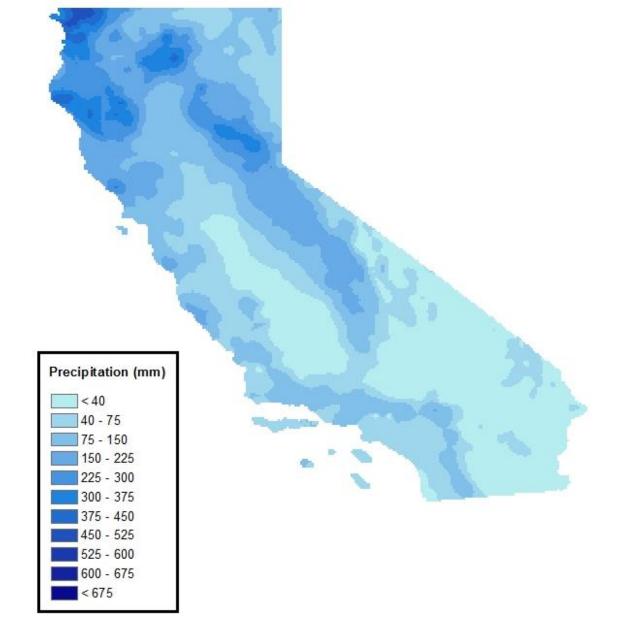
- Precipitation and heat will change in a give area due to climate change
- GCMs predict futures of \bullet changing precipitation
- IPSS models these change trends up till 2100.



Social Vulnerability Map of California State of California Los Angeles County City of Sacramento







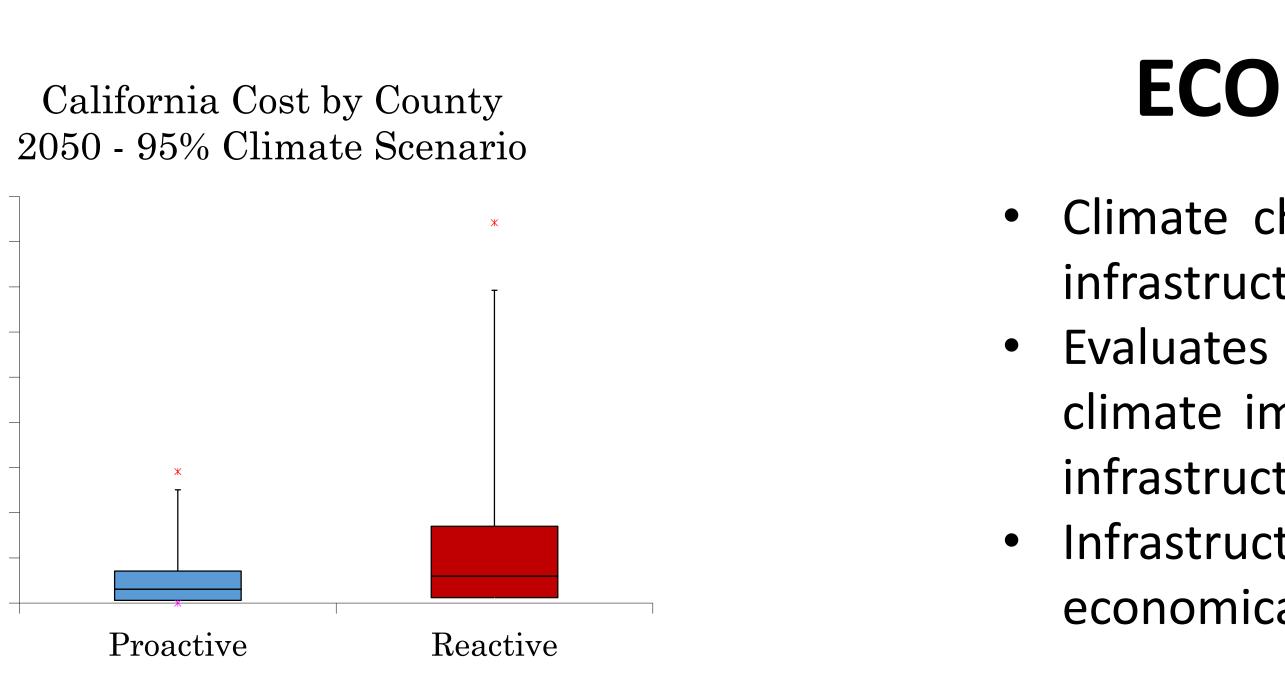
The Triple Bottom Line Perspective for Climate Resilience in **Transportation Infrastructure Planning**

By Sara Goldstein, Amy Schweikert and Dr. Paul Chinowsky Institute of Climate and Civil Systems

METHODOLOGY

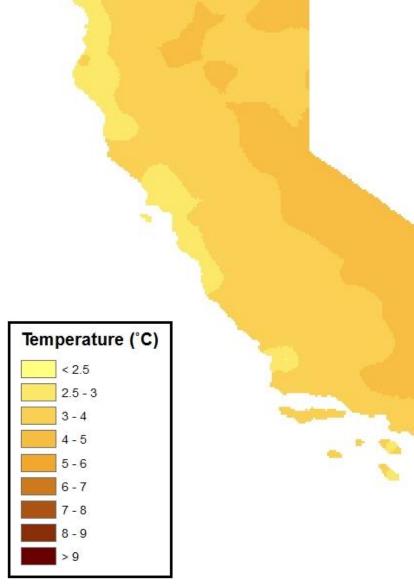
• Analysis is preformed with 22 IPCC-approved General Circulation Models (GCMs). • GCMs determine a range of climate change future scenarios.

• Analysis includes national, sub-national, and smaller climate research unit levels. Displayed by default at the 5th, 50th (median) and 95th percentile models to give a range of possible future risk from climate impacts.



Precipitation: California 95%

Temperature: California 95%



SOCIAL

Social Vulnerability Index Factors (Cooley et. al 2012)			
Households with AC	Population over 25 with a diploma	Born outside the US	
Impervious areas	Residents living in institutions	Limited English households	
Lack of Vehicles	People of Color	Households of poverty	
Pre-term births	Renter households	Over 65 and living along	
Tree canopy	Under 18/ Youth fitness	Unemployment	
Outdoor Jobs	Pregnancy	Food Access	





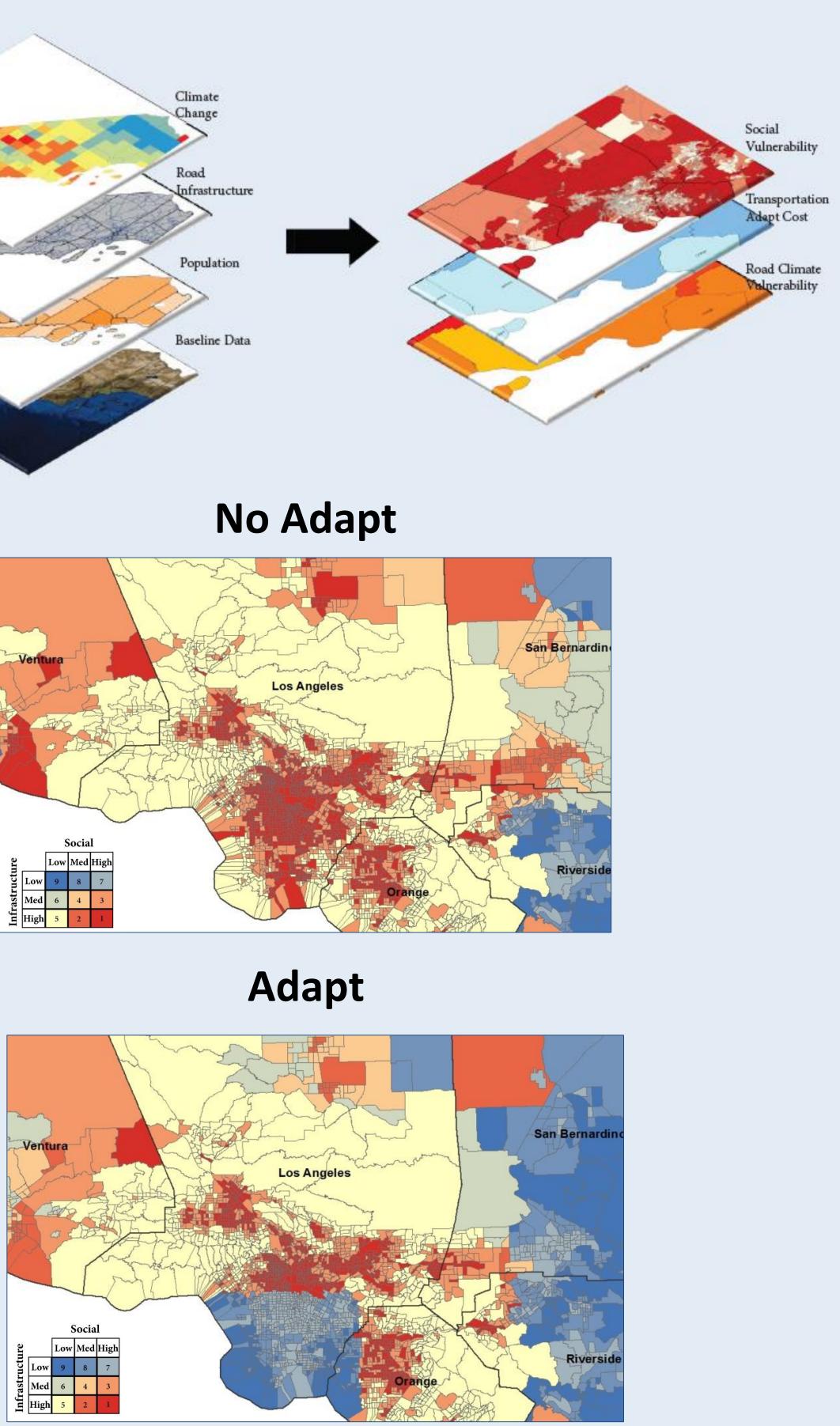
ECONOMIC

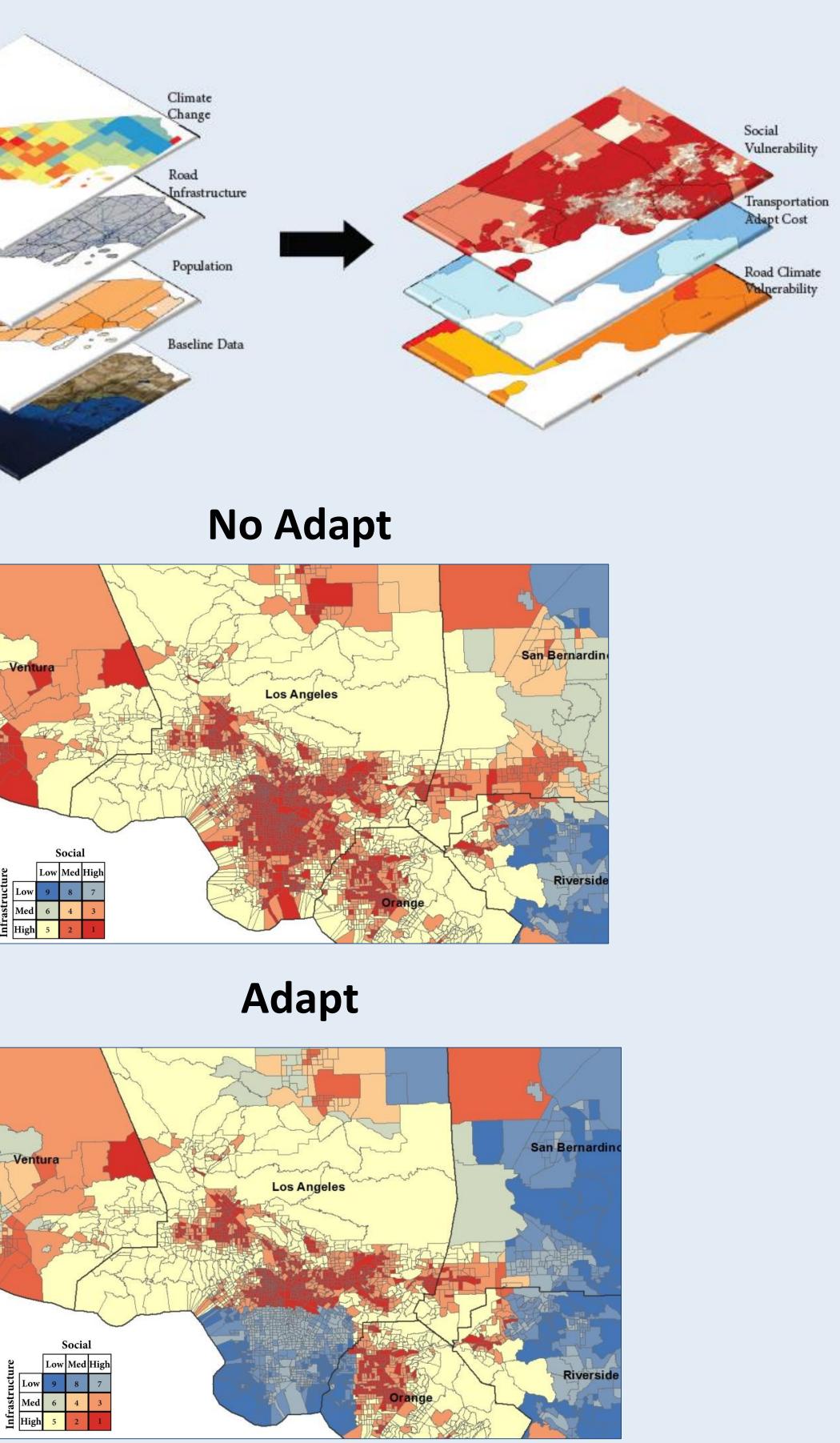
• Climate change will effect infrastructure's life span cost from climate impact on existing infrastructure.

Infrastructure is important economically to any area



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By accessing environmental changes and combining the cost of climate change, and social vulnerability index, we can have targeted infrastructure planning and investment that considers more than just an economic view point.

College of Engineering & Applied Science

IPSS is the first system to analyze climate change impact based on specific stressor-response equations that provide quantitative modeling and cost impact projections.

The Triple Bottom Line