

Tree Prescription: Recent Research on Urban Forests & Human Health

Climate Action Team Public Health Workgroup October 17, 2017

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Rx: Health Inequities





Rx: Two Research Projects



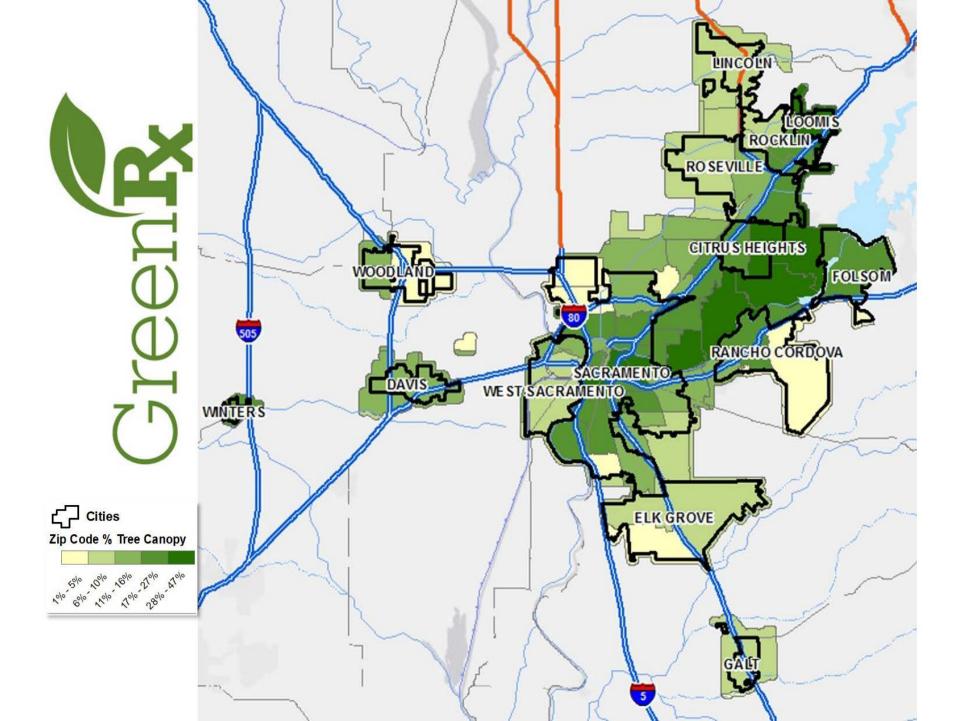


Tree\$ ROI











Green R Multiple Measures

- **Asthma**
- **Attention Deficit Disorder**
- Cardiovascular disease
- **General health**
- Mental / Emotional health
- Overweight / Obesity
- **Physical activity**
- Social cohesion
- Type 2 diabetes



More neighborhood tree canopy cover was significantly associated with:

Better General Health Score

Less Overweight / Obesity

Higher Social Cohesion





What health differences do we see?

Adult Health Measure	Improvement
Overweight/obese	-19%
Type 2 diabetes	-19%
Current asthma	-10%
High blood pressure	-7%
General Health	+3%
Social Cohesion	+1%

Source: J Ulmer et al, Multiple health benefits of urban tree canopy, Health & Place More Info on GreenRx: http://www.sactree.com/greenrx



Green Thinking outside the....

Dr. Backman connects **CHIS to Canopy data**

Ray **Tretheway** hires DrPH

TBD: Health **Economics Analysis**



Big picture: **Multiple Health** Measures



Big picture: **Advisory Committee**



Not just p-values:

Predictive Modeling



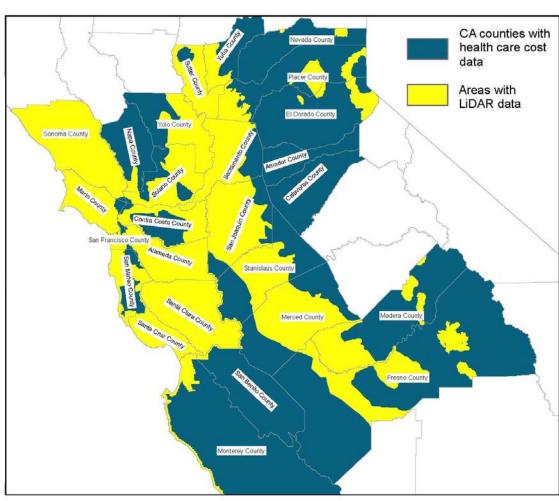
Hi Res Data: **CHIS & LIDAR**

Tree\$ ROI: The Next Steps



Larger Region





Tree\$ ROI: The Next Steps



Actual Health Care Costs



All ✓ Search

My Health

Medical Record

Message Center

Appointments

Pharmacy

Coverage & Costs

Health & Wellness

Doctors & Locations



My Health Manager

My message center

<u>Email your doctor's office</u> with routine questions securely and conveniently. You can also contact Member Services and our Web manager.

My coverage and costs

Get the facts about your plan and benefits, download forms, pay medical bills, and more in my coverage and costs

Appointment center

Schedule <u>appointments online</u>, quickly and conveniently. View or cancel upcoming appointments or view past visits.

Pharmacy center

You can manage your prescriptions here, or learn about specific medications in our drug encyclopedia.

My medical record

View test results, immunizations, health reminders, and more in My medical record. Use Act for a Family Member to manage your family's health.

New members: Get started

Welcome! Use this <u>handy to-do list</u> to access our online health tools. Then take a Total Health Assessment to start

Tree\$ ROI: The Next Steps



Health Care vs \$ Tree Care \$



Photo credit: West Coast Arborists, Inc.



Rx: New Research Paths

- Do the math: health care \$\$\$ savings
- +++ ↑↑↑ QOL, creativity, and productivity \$\$\$
- Include Wealth as a control factor not just Income?
- How do we reach the doctors & nurse practitioners?
- Cross-sector research: pooling \$ and \$\frac{1}{2}\$ innovation
- Cap & Trade investment = RESEARCH Goldmine







Thank you! Questions?

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