

# LINKING URBAN HEAT ISLANDS TO CLIMATE ADAPTATION PLANNING



***EPA Urban Heat Island Webinar***  
**Brendan Reed, Environmental Resource Mgr.**

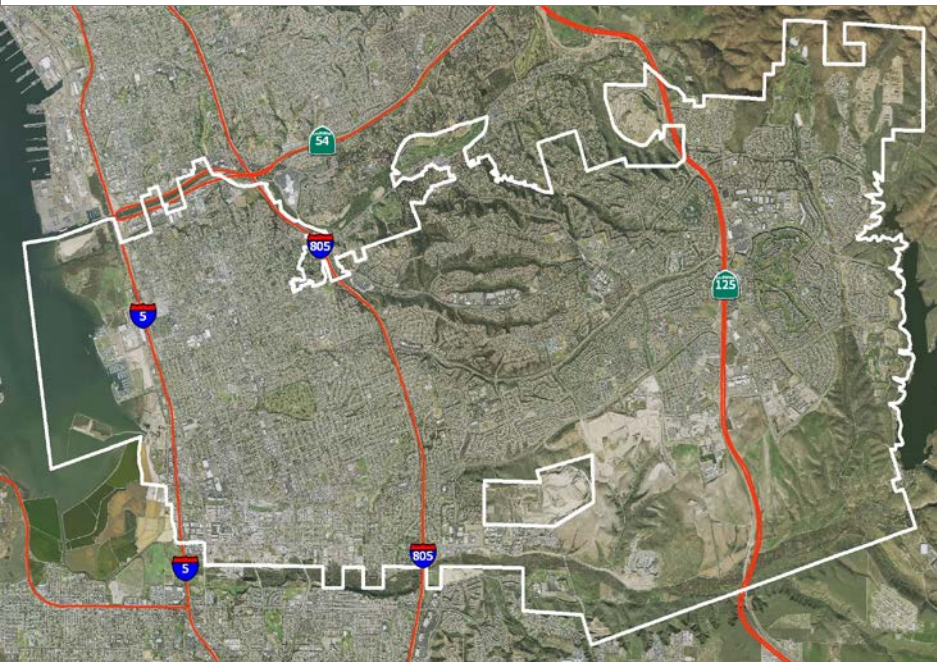


# CHULA VISTA STATISTICS

- San Diego County, CA
- 244,000 residents
- Diverse population & landscapes
- Climate Action Program

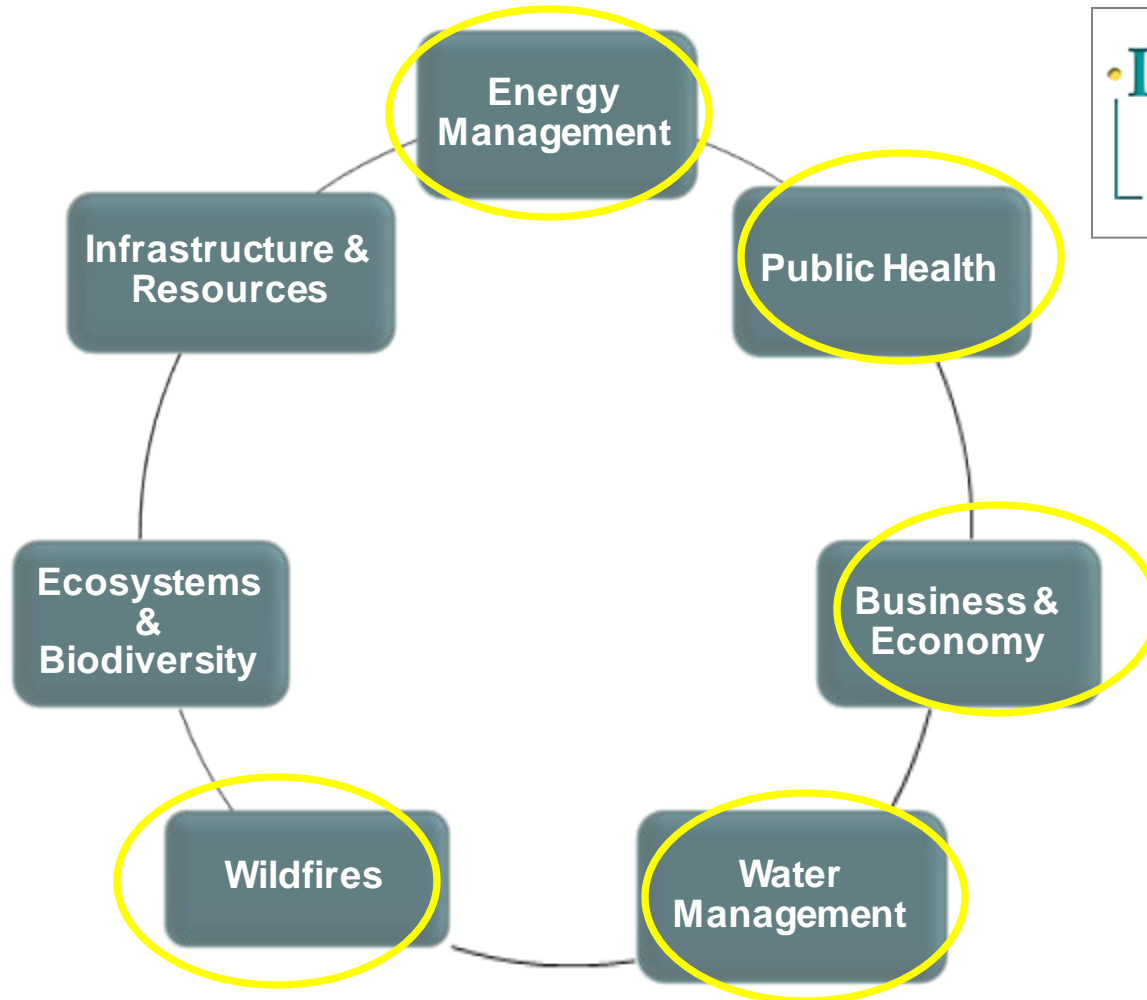
**Mitigation Measures (2000 & 2008)**

**Adaptation Strategies (2011)**



# CLIMATE ADAPTATION PLANNING

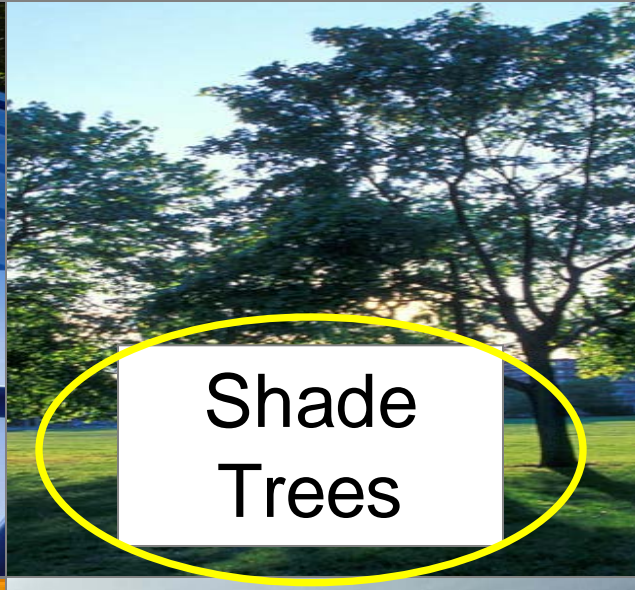
- **Systematic, stakeholder-driven process**
- **UHI nexus with multiple climate vulnerabilities**





# CLIMATE ADAPTATION PLANNING PROCESS

- 11 Strategies → 3 UHI-Focused Strategies



# INITIAL IMPLEMENTATION

## Cool Paving Specifications

- Streets & parking lots
- *Study*
  - Different technologies
  - Different applications
  - Cost-benefit
- *Demo Site*
  - Field test technology
- *New City Specs*
  - Informed by prior work

## Draft Cool Pavements Study





# INITIAL IMPLEMENTATION

## Cool Roof Ordinance

- Revise local GB Standard
- CA Energy Commission
- Cost Effectiveness Study –  
\$75 extra cost
- Requires CalGreen Tier 2-qualified roof in CZ10

$SRI \geq 78$

Low-rise residential



# INITIAL IMPLEMENTATION

## Shade Tree Policy

- New public & private projects
- *Parking Lots*
  - 50% cover (of stalls) in 15 yrs
  - Alternative options
- *Street Trees*
  - Maximize canopy cover
- *Existing Trees*
  - 150% credit towards goals





# LESSONS LEARNED

- Strong link to Climate Adaptation Planning
- Engage stakeholders (try an open house format!)
- Stress co-benefits
- Need for UHI strategies' results
- Integrate into existing plans & programs





# THANK YOU!

Funding generously provided through a **Local Government Partnership** with San Diego Gas & Electric and the CA Public Utilities Commission

