Climate Action Team - Public Health Workgroup (CAT-PHWG)

Climate Change & Health Equity:

2016 Activities and Looking Ahead

Climate Change & Health Equity Program
Policy Unit, Office of Health Equity
California Department of Public Health

CAT-PHWG Quarterly Meeting, CalEPA, Sierra Hearing Room February 1, 2017





Participation Options

- WebEx functions
- Audio / Teleconference Line:
 - **(888) 204-5984**
 - Passcode: 6205934

Unmute / Mute: Press *6

(press once to turn on & again to turn off)



Agenda & Presentation Slides

 Available for download on the CAT-PHWG "meetings" webpage:

https://www.arb.ca.gov/cc/ab32publichealth/meetings/meetings.htm

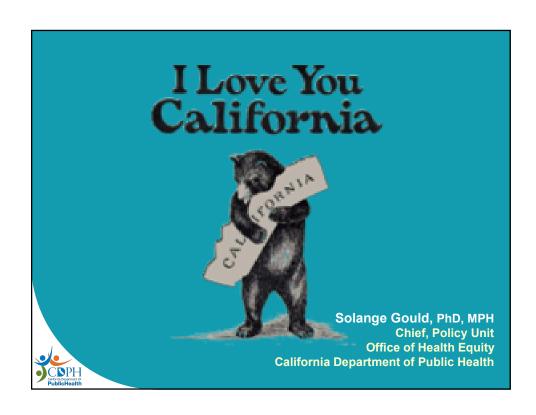
(Or search: "AB 32 Public Health Workgroup Meetings")

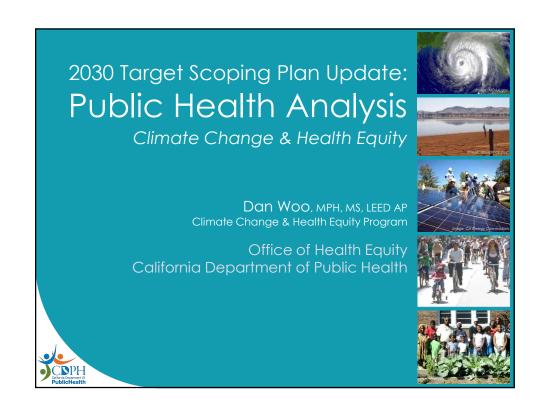


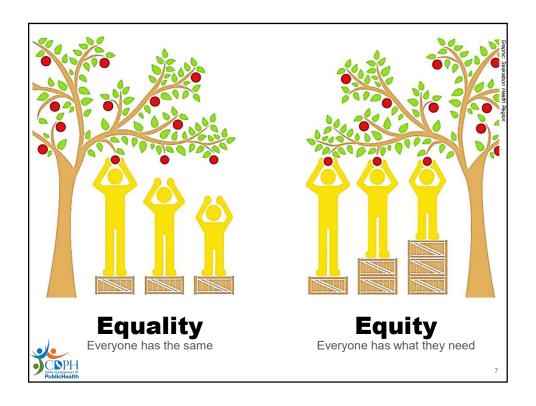
Introduction - CDPH

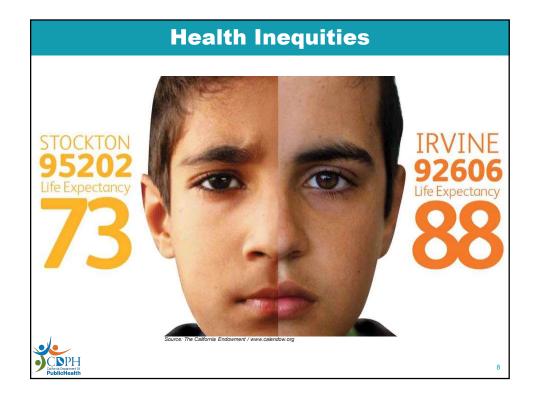
- Welcome
- Overview of CDPH Climate Change and Health Equity Program
- Attendees (on-site)
- Meeting Agenda

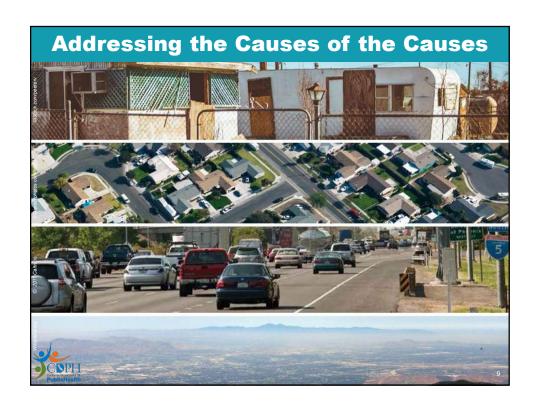


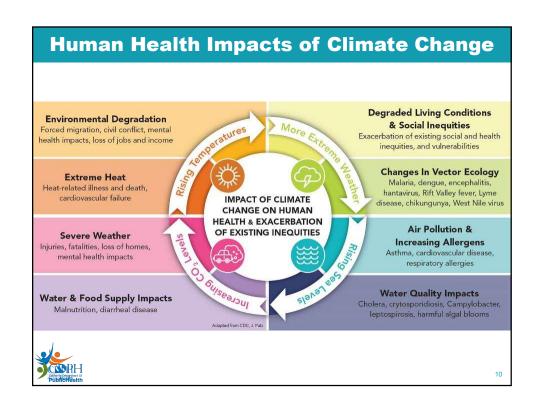












Climate Change & Health Inequities

- Climate change will impact all people, but the most vulnerable will suffer the most
- Climate change will magnify existing health inequities
- Climate change is a threat multiplier, amplifying existing risks





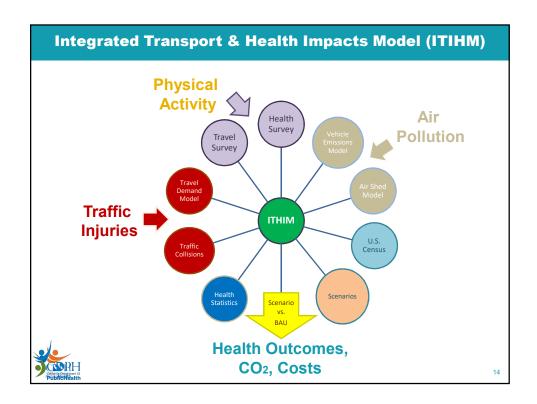
Achieving Health Equity through Climate Action

Transportation and Physical Activity

- Promote active transportation
- Address chronic diseases







ACTIVE TRANSPORT SCENARIOS

1. CalTrans Strategic Management Plan, 2015-2020 (CSMP2020)

Double walking and transit and triple bicycling by 2020

2. Active Transport 2030 (AT2030)

 Quadruple walking and transit and increase bicycling 9-fold by 2030

3. U.S. Surgeon General (USSG) Phys. Activity Recommend., 50%

 Increase active transport so that 50% of California adults get 75 minutes of weekly physical activity from active transport

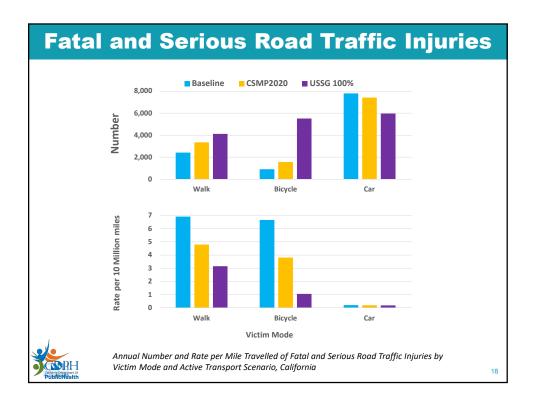
4. U.S. Surgeon General (USSG) Phys. Activity Recommend., 100%

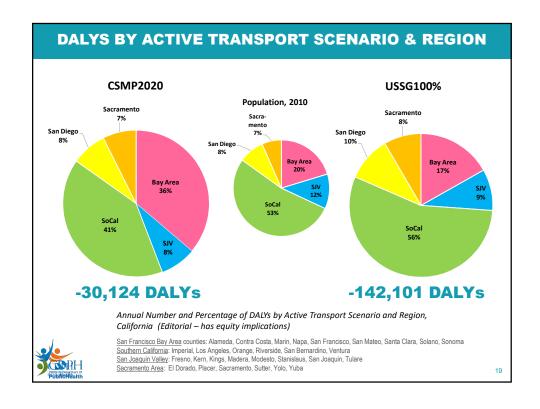
 Increase active transport so that 50% of California adults get 150 minutes of weekly physical activity from active transport

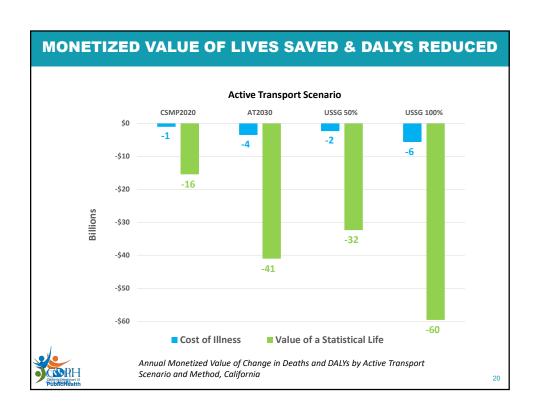
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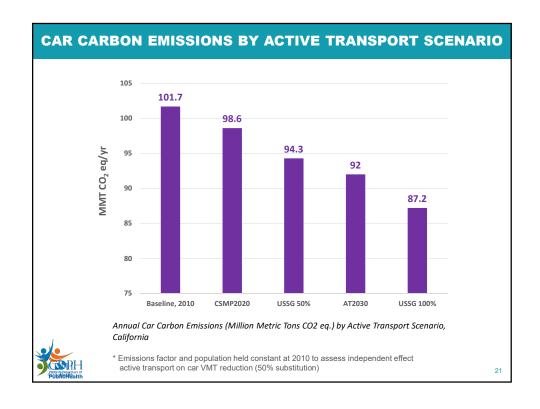
Daily Active Travel Times and Distances Time 25 21 4 Min./dy (median) 20 15 10.7 11.0 Bike 10 Walk 4.9 5 2.3 0 USSG 50% USSG 100% **Distance** 5.0 Miles/dy (Mean) 4 Bike 1.9 1.6 2 Walk 0.7 0.3 Baseline CSMP2020 USSG 50% AT2030 USSG 100% Daily Active Travel Times and Distances for a Typical Californian by Active Transport Scenario.

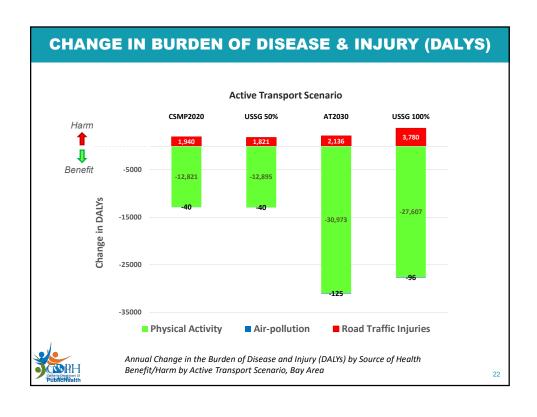
| Health I | mpacts o | of Active Tr | ansı | port Scenar |
|----------|-------------------------|---------------------------------|----------|-----------------------------------|
| | | | | |
| | | Change in disease burden* | | Annual change in premature deaths |
| Cardio | ascular Dis. | 2–11% | 1 | 1,133 – 5,555 |
| D | abetes | 3–13% | 1 | 190 – 789 |
| De | oression | 1–4% | 1 | <1 |
| De | ementia | 3–7% | 1 | 488 – 1,288 |
| Brea | st cancer | 1–3% | 1 | 36 – 112 |
| Cold | on Cancer | 1–4% | 1 | 48 – 174 |
| Road tr | affic crashes | 8–24% | 1 | 254 – 690 |
| * Ra | nge reflects range of p | hysical activity in scenarios (| CSMP2020 | vs. USSG 100%) |











SUMMARY OF FINDINGS

Active transportation that replaces vehicular trips and reduces VMT, can significantly improve overall health, prevent or reduce the risk of developing many chronic conditions, reduce billions per year in statewide health care costs, and cut GHG emissions.

- Disease reductions
 - ◆ 3-13% of heart disease, stroke, and diabetes
 - ◆ 1-4% of depression
 - **↓** 3-7% of dementia
 - ↓ 1-3% of breast cancer
 - ◆ 1-4% of colon cancer

Injuries



↑ 8-24% of injuries to pedestrian and bicyclists

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SUMMARY OF FINDINGS

- Major public health impact
 - USSG100% scenario: increases per capita active transport to 21.4 min/day:
 - 8,057 fewer annual deaths
 - 142,101 fewer years of life lost and disability
 - Monetary value of health co-benefits range from \$1 - 15 billion (CSMP2020) to \$5.7 - 59.6 billion (USSG100%)

"Achieving mobility and health goals would constitute a major public health accomplishment on par with California's successful efforts at tobacco control." (Maizlish, 2016)



Achieving Health Equity through Climate Action

Transportation and Physical Activity

- Strategies to increase active transportation
- Implications for advancing health equity





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Achieving Health Equity through Climate Action

Land Use and Community Development

 Prioritize compact, infill and transit-oriented development and include necessary antidisplacement measures



Achieving Health Equity through Climate Action

Natural and Working Lands

- Encourage local food systems and healthy diets
- Support sustainable natural and working lands



Achieving Health Equity through Climate Action

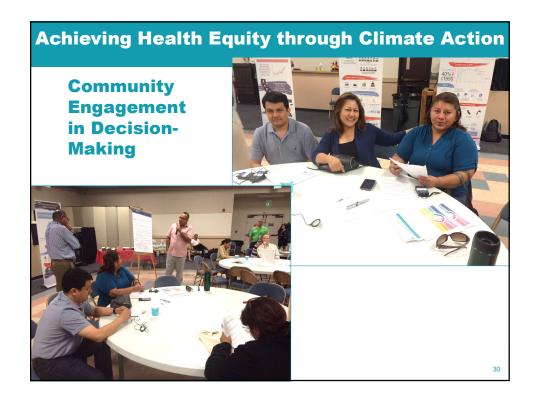
Urban and Community Greening

 Green the built environment – provide access to trees, parks, and green spaces





Homes and Buildings • Create healthy, energy-efficient, and sustainable homes, schools, and buildings



Achieving Health Equity through Climate Action

Climate Mitigation Policy Priorities – Health & Equity Co-Benefits:

- Direct our climate investments to reduce income inequality and poverty, and promote economic development and health equity
- Prioritize creation of stable, permanent, living-wage jobs and employment training for local residents



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Public Comments & Participation

- Scoping Plan Update
 - Public Comment Period:
 Deadline: March 6, 2017, 5:00 PM PST
 *Submit comments online or at meetings
 - Public Workshop:

Thursday, February 9, 2017, 10 AM – 4 PM CalEPA Byron Sher Auditorium 1001 I Street Sacramento, CA

Air Resources Board Meeting:
 February 16-17, 2017

https://www.arb.ca.gov/cc/scopingplan/scopingplan.htm





Climate Change & Health Equity

Dan Woo, MPH, MS, LEED AP Climate Change & Health Equity Program

Office of Health Equity California Department of Public Health





Public Discussion

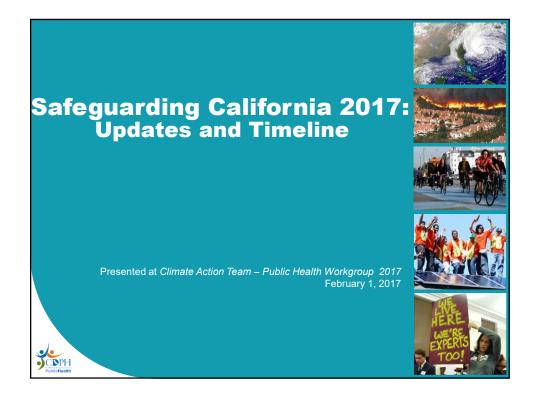
Questions to Consider:

- What are some of the health and equity impacts you are experiencing in your communities?
- What are some barriers in advancing health and equity in your communities?
- How can we address these impacts through climate action in your communities?
- How can the State support your efforts to achieve health and equity while addressing climate change?









What is Safeguarding California?

Safeguarding California is the state climate adaptation planning guide. This guide details the risks and vulnerabilities in ten sectors of California's economy. The guide also includes actions, both current and forthcoming, to address them.

The ten California sectors included in Safeguarding California are:

Agriculture
Biodiversity and Habitat
Energy
Emergency Services
Forestry
Land Use and Community
Development
Ocean and Coastal
Ecosystems and Resources
Public Health
Transportation
Water



Safeguarding California 2017

Main updates to current version:

- Centered on resiliency framework
- 10 metrics for climate impact and govt. action
- 9 policy recommendations



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Measuring Climate Impacts in California

- 1. Rate of Heat deaths, hospitalizations, and emergency room visits
- 2. Rate of allergic disease-related hospitalizations and emergency room visits
- 3. Rate of asthma diagnoses and emergency room visits
- 4. # Of human cases of reportable vector-borne diseases
- 5. # Of days with unhealthy air quality across state as aggregate or in an indicator area



Measuring Government Action to Safeguard Against Climate Impacts

- 1. # Of local jurisdictions with climate action plans, adaptation plans, general plans, and hazard mitigation plans that address climate, health, and equity for vulnerable populations
- 2. # Of state agency plans or grant guidance documents that a.) identify populations vulnerable to climate change health impacts, b.) plan to reduce vulnerability through increased provision of resources, services, jobs or technical assistance, and c.) engage vulnerable populations in making decisions about programs, policies or funding.



Measuring Government Action to Safeguard Against Climate Impacts (cont.)

- 3. # Of climate change, housing, transportation or land use investment plans or programs that incorporate measures to prevent residential and economic displacement
- 4. % change in tree canopy or impervious surface coverage
- 5. # Of low-income and senior housing units receiving weatherization and energy efficiency upgrades.



Policy Recommendations

- Promote community resilience and health equity to reduce vulnerability to climate change through improving underlying economic, environmental and social conditions
- Educate, empower and engage California residents, communities, organizations and businesses to take actions to reduce individual and community vulnerability to climate changes through mitigation and adaptation
- 3. Identify, assess impacts, and promote mitigation and adaptation strategies with public health and equity co-benefits, and assure they do not have unintended consequences for health equity



Policy Recommendations

- 4. Establish, improve, and maintain mechanisms for robust rapid surveillance of environmental conditions, climate-related illness, vulnerabilities, protective factors and adaptive capacities
- 5. Improve public health preparedness and emergency response
- 6. Implement policy changes at local, regional and national levels.



Policy Recommendations

- 7. Collaborate and partner with multiple agencies and organizations (e.g. Environmental, Agricultural, Transportation, and Education at Local, State and Federal levels, as well as with Business, Labor, Schools, Health Equity, Healthcare, Tribal, Environmental Justice, and Community-based Organizations)
- 8. Conduct research to enable enhanced promotion and protection of human health and equity in light of climate change. Promote accessibility to the best available data.
- Identify, develop and maintain adequate funding for implementation of public health climate adaptation strategies.



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Tentative Update Timeline

End of February: Natural Resources Agency posts "Discussion

Draft for 2017 Safeguarding California Update"

on its website

February 28-May 26: Public comment period for "Discussion Draft

for 2017 Safeguarding California Update" open

March - May: Public comment meetings held around

California for "Discussion Draft for 2017

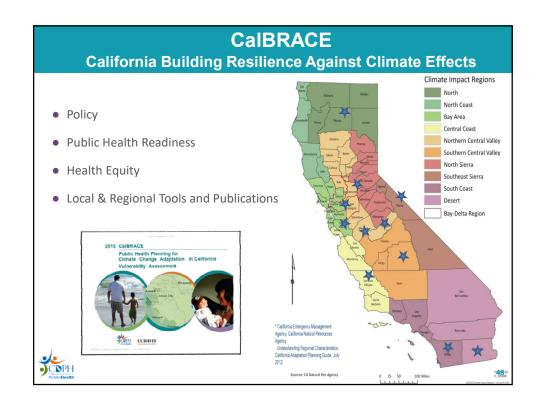
Safeguarding California Update"

July 1: Projected release date for "2017 Safeguarding

California Plan"



What do you think? Let's discuss: Resiliency Framing 10 New Metrics 9 Policy Recommendations Opportunities for Further Engagement Frank Molina Climate Change and Health Equity Program Associate Office of Health Equity California Department of Public Health (510) 412-1497 Frank.Molina@cdph.ca.gov



CalBRACE Proposed Activities

- Policy Safeguarding California
- Public Health Readiness Extreme Heat
- Health Equity B-30-15 Guidance for State Agencies
- Local and Regional Public Health Capacity -Technical Assistance, Tools and Publications



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Proposed Heat Activity

 Connect State Dept. of Community Services and Development (CSD) to a local health department to pilot a program where the LHD works with vulnerable residents with uncontrolled asthma or other conditions exacerbated by climate change and unhealthy housing, to be prioritized for protective factors such as weatherization, energy assistance, or appliance upgrades.



Proposed Local and Regional Activities

- Work with partners with climate adaptation websites to visualize CalBRACE climate change indicator data at census track level through interactive maps, and in reports and plans.
 - Office of Planning and Research
 - California Environmental Health Tracking Program
 - 4/27 Fourth Assessment project 5A
 - Cal-Adapt
 - California Office of Emergency Services



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CalBRACE Proposed Activities

With the California Office of Emergency Services, integrate health equity and climate change adaptation considerations for:

- State Hazard Mitigation Plan Update
- Local Hazard Mitigation Plans or General Plan Safety Elements required by SB 379
- Support jurisdictions with plan language so they are in a position to receive FEMA funds due to a climate change related disaster.



Local Health Department Partnerships

- Building capacity with CivicSpark
- Kings County
- Capital Region Climate Readiness Collaborative
 - Sacramento, Sutter, Yolo, Yuba, El Dorado, and Placer counties
- CalBRACE Assessments
 - UC Berkeley MPH student volunteers
- Training Local Health Department Management Staff
- Outside In SLO







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CAPITAL REGION
CLIMATE READINESS
COLLABORATIVE



Public Input to CalBRACE

We welcome your input and ideas or suggestions to develop our work further.

- In person comments
- CalBRACE@cdph.ca.gov
- 510-620-5788



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Announcements

- Next Quarterly meeting
 Tuesday April 25, 2017
 1:00 3:30pm
- Attendee survey
- Other announcements

Please e-mail any questions or feedback to: <u>CCHEP@cdph.ca.gov</u>



