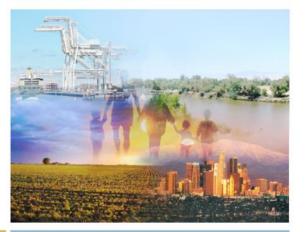


CALENVIROSCREEN 2.0: A TOOL FOR EVALUATING COMMUNITIES IN CALIFORNIA NACAA Spring Membership Meeting April 28, 2015

CALENVIROSCREEN VERSION 2.0 Oct. 2014

CALIFORNIA COMMUNITIES ENVIRONMENTAL HEALTH SCREENING TOOL, VERSION 2.0 (CALENVIROSCREEN 2.0)

GUIDANCE AND SCREENING TOOL





Matthew Rodriquez, Secretary California Environmental Protection Agency

George V. Alexeeff, Ph.D., Director Office of Environmental Health Hazard Assessment

- Broad picture of the relative burdens in California communities from pollution
- Indicators of environmental conditions and population vulnerability (19)
- Census tract scale
 - Guidance on uses of tool

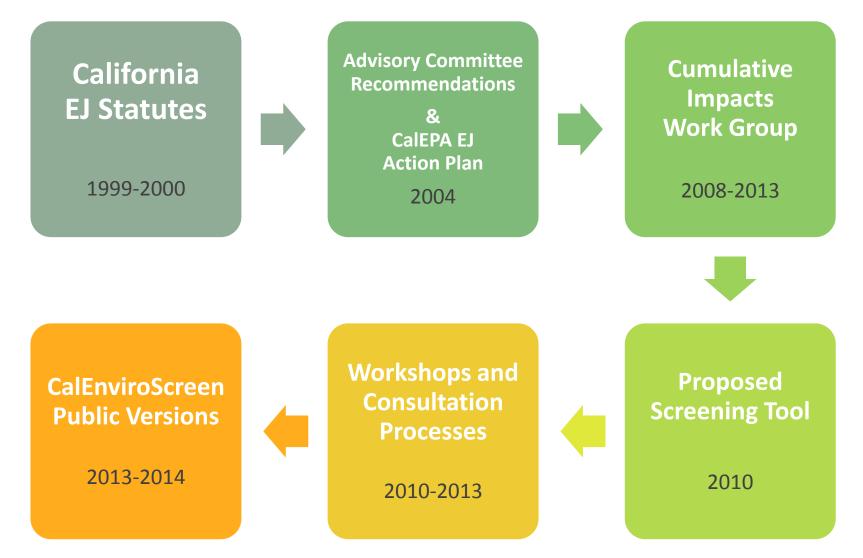




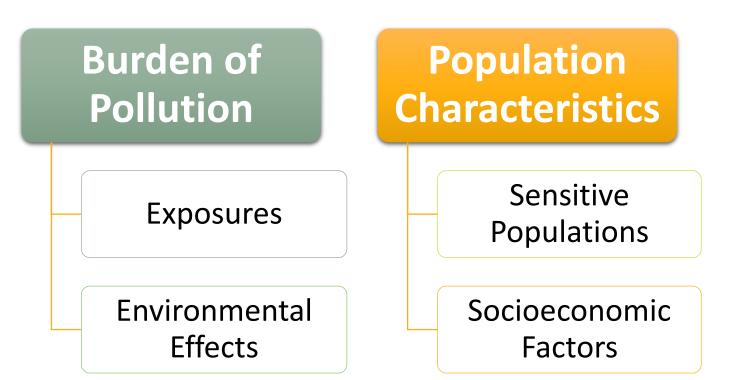
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



DEVELOPMENT OF CALENVIROSCREEN



CALENVIROSCREEN MODEL



CALENVIROSCREEN 2.0 INDICATORS

Exposures	Environmental	Sensitive	Socioeconomic
	Effects	Populations	Factors
 Ozone PM 2.5 Diesel PM Pesticide use Toxic releases from facilities Traffic density Drinking water quality 	 Cleanup sites Groundwater threats Impaired waters Solid waste sites and facilities Hazardous waste facilities and generators 	 Children and elderly Asthma ER visits Low birth weight infants 	 Educational attainment Linguistic isolation Poverty Unemployment



CALIFORNIA ENVIRONMENTAL HEALTH TRACKING PROGRAM

Improving Public Health With Better Information



CRITERIA FOR INDICATOR SELECTION

- Contributes to understanding the component
 - Widespread environmental concerns
 - Population characteristics that may influence vulnerability to pollution
- Publicly available
- Location-based
- Good quality
 - e.g., covers the state, accurate, current

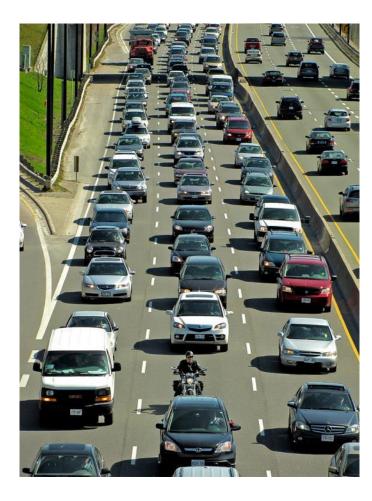
DATA SOURCES

Database	Source	
Air Monitoring Network	Air Resources Board	
Diesel Emissions Estimates	Air Resources Board	
Toxic Release Inventory	U.S. Environmental Protection Agency	
Pesticide Use Reporting	Department of Pesticide Regulation	
Traffic Volume Linkage Tool	California Environmental Health Tracking Program	
Solid Waste Information System	CalRecycle	
EnviroStor Cleanup Sites	Department of Toxic Substances Control	
Permitted Hazardous Waste	Department of Toxic Substances Control	
GeoTracker	State Water Resources Control Board	
303(d) List: Impaired Waters	State Water Resources Control Board	
Asthma ED Visits	California Environmental Health Tracking Program	
American Community Survey and U.S. Census	U.S. Census Bureau	

SCORING METHOD

- Each census tract is scored for each indicator.
 - For example, 75% percentile is higher than 75% of other census tracts in California.
- CalEnviroScreen score is calculated by combining all indicator scores.
- Allows comparison of different areas.

EXAMPLE: TRAFFIC DENSITY INDICATOR



Data source:

- California Environmental Health Tracking Program's Traffic Volume Linkage Tool
- Caltrans Highway Performance Monitoring System

Raw data:

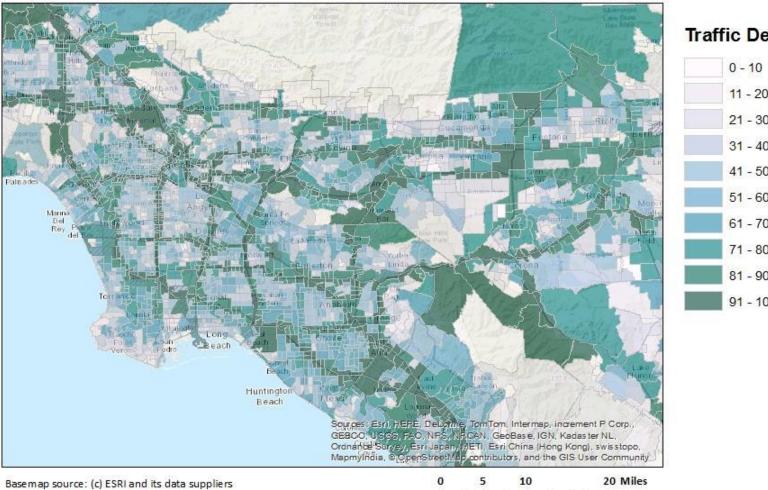
Traffic volumes along pre-defined road segments

Indicator:

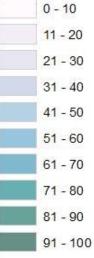
 Traffic density within 150 meters of census tract boundary (vehicle-km/hr/km)

TRAFFIC DENSITY RESULTS

Greater Los Angeles Area



Traffic Density



12

EXAMPLE: CLEANUP SITES INDICATOR



www.epa.gov

Data source:

- EnviroStor Cleanup Sites Database
- California Department of Toxic Substances Control & US EPA National Priorities List

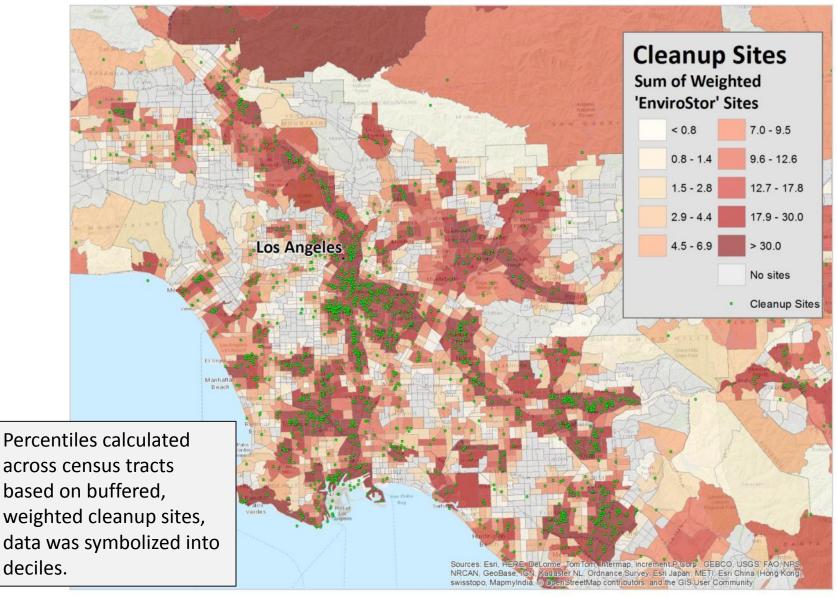
Raw data:

Facility locations and site boundaries

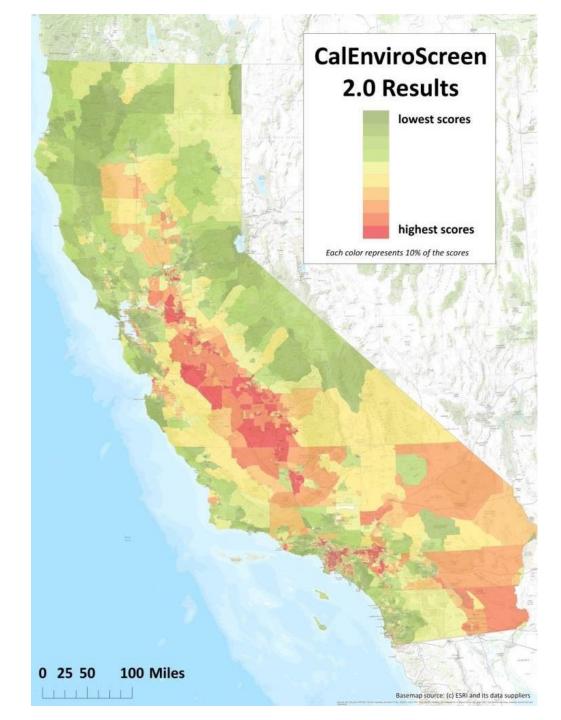
Indicator:

- Weight sites by type and status
 - e.g., Federal Superfund, State Response, etc. categories.
- Adjust for proximity to people.
- Add together weighted cleanup sites within each census tract.

CLEANUP SITES INDICATOR RESULTS



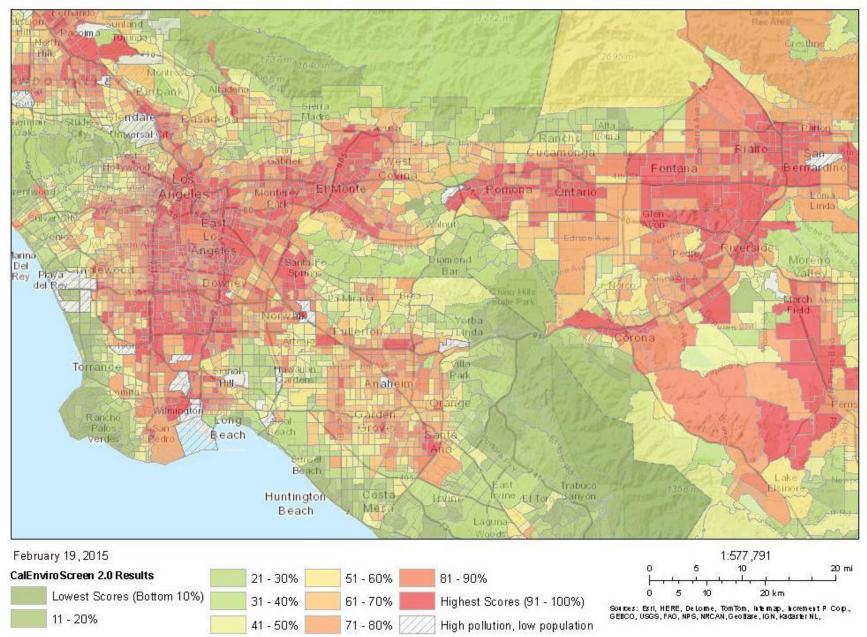
CALENVIROSCREEN 2.0 RESULTS



CALENVIROSCREEN VERSION 2.0 RESULTS

STATEWIDE

CALENVIROSCREEN 2.0 RESULTS: GREATER LOS ANGELES AREA



PUBLICLY AVAILABLE RESULTS

- CalEnviroScreen Report
 - Maps for individual indicators
 - Description of each indicator
- Mapping Tool
 - Online maps of results
- Other data





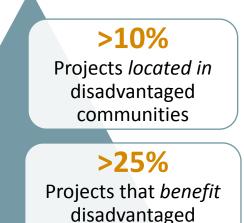
- Excel spreadsheet of results by census tract
- Google Earth file
- ArcGIS geodatabase



www.oehha.ca.gov/ej/ces2.html

USING CALENVIROSCREEN SB 535 (DE LEÓN, 2012)

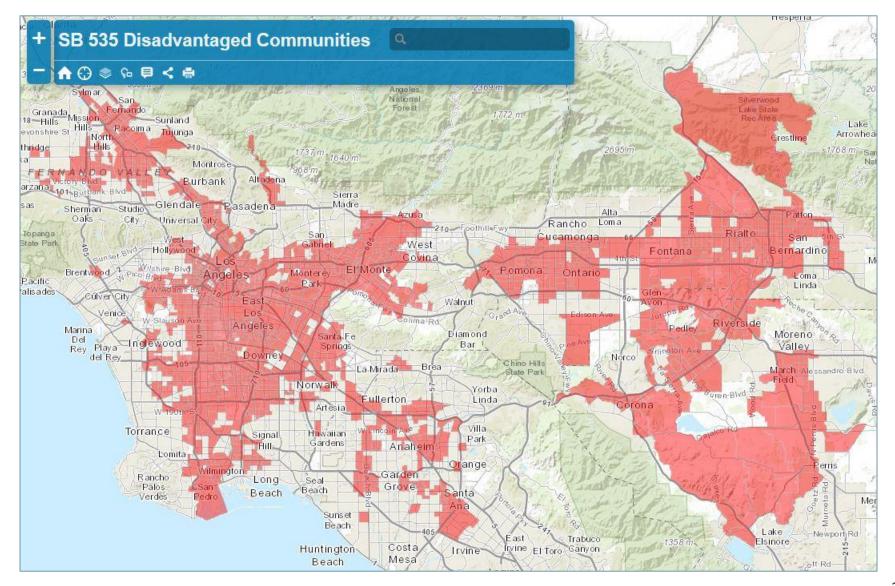
Greenhouse Gas Reduction Fund Investment Plan



communities

"CalEPA shall identify 'disadvantaged communities' for investment opportunities based on geographic, socioeconomic, public health and environmental hazard criteria."

SB 535 DISADVANTAGED COMMUNITIES IN GREATER LOS ANGELES AREA



USING CALENVIROSCREEN

- Ongoing planning and decision-making within CalEPA
 - EJ Small Grant Program
 - EJ Compliance and Enforcement Working Group
 - Trainings and outreach



QUESTIONS & COMMENTS