



SOUTHERN CALIFORNIA  
ASSOCIATION OF GOVERNMENTS  
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**MEETING OF THE**

**TECHNICAL  
WORKING GROUP**

*Thursday, February 16, 2023  
10:00 a.m. – 11:00 a.m.*

**SCAG OFFICES  
900 Wilshire Blvd., Ste. 1700  
Los Angeles, CA 90017  
(213) 236-1800**

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## Agenda

- 1. Connect SoCal 2024: Joint Policy Committee Discussion Preview**  
*Sarah Dominguez*  
35 Minutes  
[Packet Page 5](#)
- 2. Regional Resilience Framework: Draft Shocks and Stressors Matrix**  
*Anna Van and Kim Clark*  
15 Minutes  
[Packet Page 25](#)
- 3. Regional Advance Mitigation Policy Framework & Greenprint TAC**  
*India Brookover and Kim Clark*  
10 Minutes  
[Packet Page 38](#)
- 4. Open Discussion**

# Meeting Minutes (Abridged)

January 19, 2023

10 a.m. – 12 p.m.

The meeting was held via Zoom teleconferencing.

## Membership Attendance

### LAND USE AUTHORITIES

Equina, Justin	Associate Planner	City of Irvine
Gable, Emily	City Planner	City of Los Angeles
Gackstetter, Ryan	Senior Planner	City of Chino Hills
Garcia, Alexis	Assistant Planner	City of Yorba Linda
Guiam, Charles	Planner	City of Anaheim
Hogan, Larissa	Associate Analyst	City of Culver City
Shiomoto-Lohr, Gail	Regional Planning Consultant	City of Mission Viejo
Soto, Ricardo	Principal Planner	City of Santa Ana

### REGIONAL PARTNERS

Adamson, Heather	Director of Planning	AMBAG
Anderson, Kelsie	Corridor Manager	TCA
Huddleston, Lori	Transportation Planning Manager	LA Metro
Lee, Josh	Chief of Planning	SBCTA/SBCOG
Tso, Kristin	Principal Transportation Analyst	OCTA
Wong, Steph	Management Analyst	SGVCOG

### REGULATORY & COORDINATING AGENCIES

No representatives present

### FIELD EXPERTS

Diep, Deborah	Director	CDR/CSUF
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### ALTERNATES & PUBLIC ATTENDEES

Aranguri, Cesar	Director & Board Chairman	Indigenous Ark Urban Technologies
Briski, Ari	City Planner	City of Los Angeles
Crook, David	Environmental Group Mgr./Principal	HELIX Environmental Planning, Inc.
Duymich, Chris	Senior Planner	AMBAG
Garfio, Angel	--	OCTA
Hofflinger, Michael	Senior Planner	City of Chino Hills
Koblasz, Ginger	Senior Planner	SBCTA/SBCOG
Lauffer, Amanda	Associate Planner	City of Anaheim
Lin, Tiffany	--	--
Lockwood, Wendy	Principal	Sirius Environmental

## Meeting Summary

### 1. **WHITE PAPER: CONSIDERATIONS FOR REGIONAL AND SUBREGIONAL FORECASTING IN CALIFORNIA**

Kevin Kane presented an overview of the white paper *Considerations for Regional and Subregional Forecasting in California*, produced by the Population Reference Bureau (PRB), highlighting the report's purpose of identifying best practices for aligning regional and subregional forecasting for regional transportation planning organizations. Gail Shiomoto-Lohr (City of Mission Viejo) and Deborah Diep (CDR/CSUF) provided comments.

### 2. **CONNECT SOCAL 2024 FORECASTED REGIONAL DEVELOPMENT PATTERN – PROCESS UPDATE**

Kevin Kane presented a process update on the Connect SoCal 2024 Forecasted Regional Development Pattern, which included a status update on the Local Data Exchange (LDX), an overview of versions of the Forecasted Regional Development Pattern and next steps. Deborah Diep participated in discussion.

### 3. **HIGHLIGHTS OF THE CTC PROJECT LIST INPUT**

Mike Jones provided a verbal update on highlights from the CTC Project List Input process that concluded in early November 2022 and provided overview of next steps. Gail Shiomoto-Lohr provided a question for discussion.

### 4. **AB 2334 – REQUIREMENTS AND OPPORTUNITIES FOR REGIONAL COLLABORATION**

Tom Vo presented an overview of AB 2334, which included background information, technical information, tools available and opportunities for local and regional collaboration. Josh Lee (SBCTA/SBCOG) and Emily Gable (City of Los Angeles) provided comments.

### 5. **CONNECT SOCAL 2024 PROGRAM ENVIRONMENTAL IMPACT REPORT – STATUS UPDATE**

Karen Calderon presented a brief status update on the progress of the Program Environmental Report (PEIR) for Connect SoCal 2024. SCAG staff received no comments or questions on this item.

### 6. **UPDATE ON RAMP ADVISORY TASK GROUP AND NEXT STEPS FOR SOCAL GREENPRINT**

India Brookover presented a verbal update on the Regional Advance Mitigation Program – Advisory Task Group (RAMP-ATG), highlighting that next steps will include soliciting participants for the Greenprint Tool Technical Advisory Committee.

### 7. **OPEN DISCUSSION**

A request was made by a Technical Working Group (TWG) member for an agenda outlook through the end of Connect SoCal development.

THE 2024 REGIONAL TRANSPORTATION PLAN/SUSTAINABLE COMMUNITIES STRATEGY  
OF THE SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS



# CONNECT SoCal

- March 2, 2023 Agenda
  - Connect SoCal 2024: Update
    - Purpose and Requirements
    - Plan Development Progress to Date
    - Trends Update
  - Policy Development Framework: Update
    - Overview
    - Regional Planning Policies
  - Special Connect SoCal 2024 Subcommittees
    - Overview
    - Recommendations
    - Discussion

# Connect SoCal Update

- Plan Development Progress
  - Who are we planning for?
  - How has the region changed? (Trends, below)
  - Where do we want to be in 2050?
  - Where will we grow?
  - How will we move?
- Trends
  - VMT
  - Transit ridership
  - Safety
  - Goods movement
  - Telework
  - Housing



Foundations  
and  
Frameworks

**2021**

Data  
Collection and  
Policy  
Development

**2022**

Outreach  
and  
Analysis

**2023**

Plan  
Adoption

**2024**



### COMPLETED MILESTONES

- ✓ Draft Goals & Vision
- ✓ Draft Performance Measures
- ✓ Local Data Exchange
- ✓ Project List

### MILESTONES FOR 2023

- Subcommittee Recommendations
- Public Outreach and Engagement
- Plan Modeling, Analysis, Writing
- Draft Release in Fall 2023

# Public Outreach and Engagement

- “Open House” Style Workshops
  - In-person: several per County
  - Virtual: several regionwide



- CBO Partnerships
  - Expand reach to underrepresented populations
- Pop-up engagements
  - Meet people where they are gathering
- Online survey
  - Reach across the region



# Policy Development Framework

Connect SoCal 2024

- Adopted by the Regional Council on June 2, 2022
- Documented draft vision and goals
- Outlined policy priorities from Connect SoCal 2020, recent Regional Council actions, and emerging issues
- Established the subcommittees
  
- Next: July 2023 Update with **Regional Planning Policies and Implementation Strategies**

**Regional Planning Policies** will carry on the intent of the core vision to articulate broad and established regional policies or best practices for land use and transportation planning

## **Mobility**

- System Preservation
- Complete Streets
- Transit Backbone
- Transportation Demand Management
- System Management
- Technology Integration
- Safety
- Financing the System

## **Communities**

- 15 Minute Communities
- Housing the Region
- Priority Development Areas
- Priority Equity Areas

## **Environment**

- Sustainable Development
- Air Quality and Clean Technology
- Natural and Working Lands
- Hazard Mitigation
- Water Resilience

## **Economy**

- Goods Movement
- Broadband
- Universal Basic Mobility
- Workforce Development
- Tourism

# Subcommittees

Connect SoCal 2024



NEXT GENERATION  
INFRASTRUCTURE



RESILIENCE &  
CONSERVATION



RACIAL EQUITY &  
REGIONAL PLANNING

## PURPOSE

Dive deeper into key areas for Connect SoCal and provide recommendations to the Policy Committees on how to address these issues in the Plan

## REPRESENTATION

Members from each county with invited participation from business or civic leaders and practitioners

## DURATION

Launched in September 2022

**Final Meeting and Recommendations: January 19 (RE&RP) and 23 (R&C), February 15 (NGI)**

More info: [scag.ca.gov/subcommittees](https://scag.ca.gov/subcommittees)



# Guest Speakers and Panelists





- Foundations
- Discussion & Key Findings
- Recommendations
  
- Next:
  - Staff will elevate recommendations as relevant in future staff reports
  - Informs Regional Planning Policies development

## KEY QUESTIONS

- What are the opportunities to advance racial equity through the policies and strategies in Connect SoCal?
- How can Connect SoCal guide how planning and investments over the next 30 years can address and rectify the effects of racially discriminatory policies in the SCAG region?

# REARP Recommendations (cont. on next slide)



1. Connect SoCal 2024 will be a vehicle to promote racial equity (as defined in the Racial Equity Early Action Plan), to address the historic impacts of systemic racism and coordinate and implement equity centered activities across the region.
2. Embed a racial equity lens in Connect SoCal implementation, prioritize equity as a process and outcome that benefits and reduces burdens for the most disadvantaged communities and people across the region, and identify opportunities to measure and track success and lessons learned.
3. Incorporate equity centered best practices in data collection to ensure that data assessments reflect community needs, disaggregate data by race/ethnicity and other important demographic factors, ground truth data, widely distribute data to impacted stakeholders, and incorporate community perspective in data-informed decision making.
4. Break down silos-within SCAG and among other local, regional, and federal agencies that are doing equity-centered work, for example State Reparations Effort and Justice40.

# REARP Recommendations (Continued)



5. Prioritize community-centered interventions, resources, and programming that serve the most disadvantaged communities and people in the region with strategies that can be implemented in the short-to-long-term.
6. Identify and target communities that are vulnerable to displacement and work towards stabilizing communities and increase access to housing that meets the needs of the region, with an emphasis on preserving and producing affordable housing, increasing homeownership opportunities, and reducing housing cost burden (for renters and homeowners), with a focus on the communities with the greatest need.
7. Incorporate equity-centered economic activities that increase access to opportunity and living wages for disadvantaged communities and individuals who face barriers to employment and economic mobility.
8. Increase equitable, inclusive, and meaningful representation and participation of people of color and disadvantaged communities in SCAG led and funded planning processes.

## KEY QUESTION

- How can Connect SoCal mitigate and adapt to the impacts of climate and seismic related hazards on our built and natural systems and increase our region's resilience?

- 1. Define Resilience:** The capacity of the SCAG region's built, social, economic and natural systems to anticipate and effectively respond to changing conditions, acute shocks, and chronic stressors by creating multiple opportunities for a sustainable, thriving and equitable future;
- 2. Prioritize the most vulnerable populations and communities subject to climate hazards:** Help the people, places, and infrastructure that are most at risk for climate change impacts, recognizing that disadvantaged communities are often overburdened
- 3. Build strong partnerships:** Coordinate across multiple sectors, scales, and stakeholders to ensure all people have access to the fundamental physical, health, and social benefits of our natural and built systems
- 4. Apply ecosystem-based approaches:** Incorporate ecosystem resilience, protection of ecosystem services, and sustainable resource management
- 5. Maximize mutual benefits:** Support resilience and conservation initiatives across built, social, economic, and natural systems, such as disaster preparedness, to ensure synergies across systems and reduce/avoid impacts of maladaptation

## KEY QUESTIONS

- How has travel changed with COVID and what will this mean for long-range transportation planning?
- (How) should our objectives for highway investment evolve?
- How do we ensure transit recovery?
- (How) should we better align the way we pay for and fund transportation with equity and resiliency goals?

- 1. Continue to invest in system preservation and efficiency investments:** Fix-it-first remains a key strategy for Connect SoCal, especially recognizing greater needs associated with the transition to zero emission vehicles and ensuring system resilience. Within this context, operational improvements and targeted strategic highway capacity expansion are warranted when coupled with complementary efforts to offset any potential increases in vehicle miles traveled and especially single-occupant vehicle travel.
- 2. Maintain a people-centric transportation investment strategy:** Ensure that deployment of new technologies support people's needs and address larger shared goals like advancing equitable access and reducing traffic fatalities and serious injuries. Prioritize use of our public rights-of-way for all roadway users, especially focusing on the needs of non-single occupant vehicle users.
- 3. Expand and enhance mobility choices:** Focus on understanding and meeting the needs of existing transit riders, which will also attract new riders. Increase choices beyond driving by enhancing and supporting services across all modes of travel including transit, active transportation, micromobility, and automobiles. Reconsider the role of the automobile in our daily lives and how mobility options can increase reliable accessibility.
- 4. Re-envision how we plan, fund, and manage the transportation system:** Plan and manage the transportation system more like an investor, including asserting a role in the management of the transportation digital realm. Appropriately pricing the transportation system ensures that the system functions for all users (even during peak demand periods), generates reliable revenue, and established resources for addressing equity concerns.



# Regional Resilience Framework: Draft Matrix of Shocks, Stressors, and Resilience Indicators

Technical Working Group

February 16, 2023



[WWW.SCAG.CA.GOV](http://WWW.SCAG.CA.GOV)

# Agenda

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- 1. Resilience Matrix and Indicators**
- 2. Discussion**
- 3. Next Steps**



# MATRIX OF SHOCKS, STRESSORS, AND RESILIENCE INDICATORS

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# RRF Matrix of Shocks, Stressors and Resilience Indicators

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- **Builds on previous, climate-focused effort by Climate Resolve:**
  - Expands resilience to include natural, built, social, and economic resilience to multiple shocks and stressors
- Research additional **resilience focus areas**
- Incorporate **community-based organization (CBO) input** into shocks and stressors
- Develop **indicators** to measure each shock or stressor

# Matrix: Shocks, Stressors and Resilience Indicators

## Goals

Resilience matrix provides a framework for jurisdictions to:

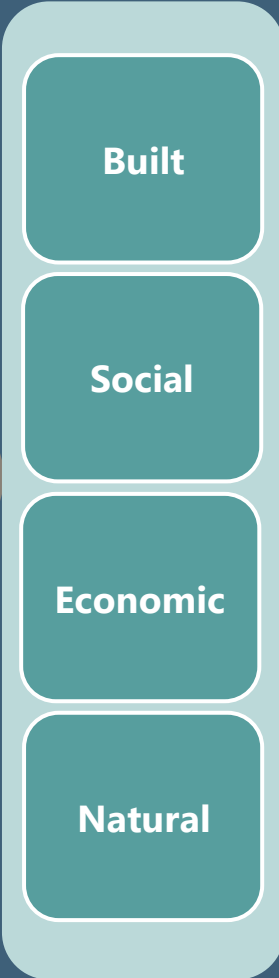


# Flow Chart: Shocks, Stressors and Resilience Indicators

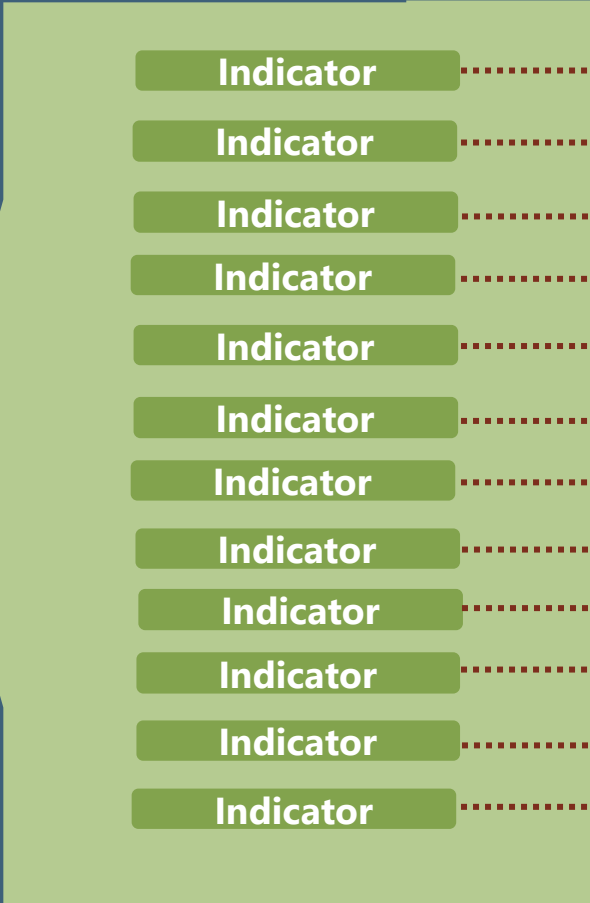
## Presence of Shocks/Stressors:



## Systems:



## Resilience Indicators & Metrics:









## Resilience Actions:



## Performance Metrics:



# CBO-Identified Shocks and Stressors – a selection

-  Air pollution & wildfire smoke
  -  Healthcare access
  -  Food insecurity
  -  Digital divide/broadband access
  -  Power outages (PSPS)
  -  Linguistic/social isolation
- **Who have we spoken to?**
    - Housing for All
    - LAC+USC Medical Center Foundation
    - Sodobá Band of Luiseno Indians
    - Central Coast Alliance United for a Sustainable Economy (CAUSE)
    - Comite Civico Del Valle
    - Center for Community Action and Environmental Justice
  - More CBO interviews to come

# Resilience Matrix Example

Shock/Stressor	Impacted System	Resilience Indicators	Resilience Actions	Performance Metrics
<b>Limited tree canopy</b> (stressor)	<ul style="list-style-type: none"> <li>Social (Community, Health, and Wellbeing)</li> <li>Economy</li> <li>Natural Environment</li> </ul>	Percent of land area not covered by tree canopy	Plant more trees, prioritizing socially vulnerable communities	<ul style="list-style-type: none"> <li>Number of trees planted per year</li> <li>Trees planted in socially vulnerable communities per year</li> </ul>
<b>Infrastructure Failure: Transportation</b> (shock and stressor)	<ul style="list-style-type: none"> <li>Social (Community)</li> <li>Economy</li> <li>Built (Critical Services)</li> </ul>	Pavement condition index	Prioritize maintenance for roads identified as critical corridors	<ul style="list-style-type: none"> <li>Miles of pavement repairs per year</li> </ul>
<b>Asthma-Related Hospital Visits</b> (stressor)	<ul style="list-style-type: none"> <li>Community, Health, and Wellbeing</li> <li>Economy</li> </ul>	Counts and rates of asthma emergency department visits per 10,000 residents	<ul style="list-style-type: none"> <li>Provide air filtration devices to low-income residents</li> <li>Set up clean air centers in vulnerable communities</li> </ul>	<ul style="list-style-type: none"> <li>Number of air filtration devices provided per year</li> <li>Number of visitors to clean air centers</li> </ul>





# DISCUSSION

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**Provide feedback on the Resilience Matrix and Indicators**



# NEXT STEPS

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# Next Steps: Resilience Exploratory Scenario Planning (RXSP)

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- Resilience Matrix and Indicators will inform development of:
  - Five science-based scenarios for the RXSP process
  - Key performance indicators for RSXP
- RSXP Workshops
  - 2 RXSP Workshops: April and June 2023
  - Currently building out invite list – Resilience Advisory Committee
  - Workshops will inform and refine scenarios and alternative futures



**AECOM**

# THANK YOU!

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For more information or questions, please contact:

[Emily.Schwimmer@aecom.com](mailto:Emily.Schwimmer@aecom.com)

Issue	Statewide or Substate	Statewide or Substate	These columns describe the general impact of a shock, including the scale at which it might occur, the scales of its impact, where it can be expected to occur, the system it may impact, etc.	These columns will provide additional detail about the specific data sources that can be used to measure whether or a shock is relevant to a jurisdiction.													
Shocks & Stressors	Category	Geographic Area (County, Inland, Desert, and Forest)	Scale of Occurrence (e.g., how often, regional, etc.)	Scale and Scope	Impact Systems (Shocks Only)	Nature of Disruption (Shocks Only)	Metric Name (e.g., current census, percentage)	Type of Metric (e.g., current census, percentage)	Indicator Measuring / Threshold	Scale of Metric (e.g., current census, percentage, etc.)	Indicator Description (e.g., relevant datasets, etc.)	Name of Dataset/Report	Dataset/Report Owner	Dataset/Report Link	Correspondence to Social Vulnerability Index (Where applicable, aligned indicators that are available through a Social Vulnerability Index are listed)	Geographic Covered by the Dataset (Where available, aligned indicators that are available through a Social Vulnerability Index are listed)	
Age Demographic Ratio	Stressor	All	City/County	NA	NA	NA	Percent of population under 20 percent of population over 64	Current Status	Lower values corresponds to lower risk	County	Percent of population under 20 and over 64	American Community Survey Table S2010 Age and Sex	U.S. Census	<a href="https://data.census.gov/tables/2010/acs/s02010">https://data.census.gov/tables/2010/acs/s02010</a>	None	State SCAG region	
Active-Related Health Visits	Stressor	All	Local	Local	NA	NA	Active Emergency Department Visit Rates	Current Status	Lower values corresponds to lower risk	County	Counts and rates per 10,000 residents of active (ICD-CM 400-500) emergency department visits among California residents by county and age group (all ages, 0-17, 18+)	UCLA Health California	California Department of Public Health	<a href="https://data.cdhph.org/active-emergency-visits">https://data.cdhph.org/active-emergency-visits</a>	California-Stream: Population Characteristics - active emergency room visits	State SCAG region	
Broadband Access	Stressor	All	City/County	Local and Regional	Community, Economy, Critical Services	Linking	Consumer Fixed Broadband Deployment	Current Status	Presence or broadband access corresponds to lower risk	Site-specific	Percent of households with fixed-line broadband (DSL or fiber) service from last 200-2000 (all ages) in 2019	California Interactive Broadband Map	California Public Utilities Commission	<a href="https://www.broadbandmap.org/">https://www.broadbandmap.org/</a>	None	State SCAG region	
Economic Security	Stressor	All	Statewide	Local	NA	NA	Economic Policy Action Area	Current Status	Higher scores corresponds to lower risk	County	The Economic Policy Action Area within the California Healthy Future Initiative consists of three components: percent of the population with income exceeding 200% of federal poverty level, percentage of population aged 25-64 with a job, and job per capita income. Data is current from ACS.	California Healthy Future Index	Public Health Alliance of Southern California	<a href="https://www.healthylifeindex.org/">https://www.healthylifeindex.org/</a>	CDC: Socioeconomic Status - Below 150% family unemployment rate	State SCAG region	
Food Insecurity	Stressor	All	Local	Local	NA	NA	Percent of people who lack adequate access to food	Current Status	Lower values corresponds to lower risk	County	Percent of people who lack adequate access to food	California Healthy Future Index	Public Health Alliance of Southern California	<a href="https://www.healthylifeindex.org/">https://www.healthylifeindex.org/</a>	CDC: Socioeconomic Status - Below 150% family unemployment rate	State SCAG region	
Healthcare Access: Doctor-to-Population Ratio	Stressor	All	Local	City/County, and Regional	NA	NA	Ratio of Primary Care Physicians per 100,000 Population	Current Status	Higher values corresponds to lower risk	County	Number of physicians providing 20 or more hours of patient care per week per 100,000 people	California Physicians, by County and Specialty, 2015	California Health Care Foundation	<a href="https://www.healthcareworkforcecenter.org/">https://www.healthcareworkforcecenter.org/</a>	None	State SCAG region	
Healthcare Access: Population with Health Insurance	Stressor	All	Local	City/County, and Regional	NA	NA	Percent insured	Current Status	Higher values corresponds to lower risk	County	Percent of civilian noninstitutionalized population insured	California Health Equity Tables 2020 Selected Characteristics of Health Insurance Coverage	U.S. Census	<a href="https://data.census.gov/tables/2020/ahc">https://data.census.gov/tables/2020/ahc</a>	CDC: Socioeconomic Status - No health insurance (CHIP, ACA Tables 2020) and (CHIP)	State SCAG region	
Homelessness	Stressor	All	Local	Local	NA	NA	Year-to-Year Homeless Counts	Current Status	Lower values corresponds to lower risk	County	These datasets represent the Point-in-Time counts that each County conducts regarding the number of sheltered and unsheltered homeless individuals. These datasets have limitations and do not fully represent the entire population of unsheltered individuals within a given county.	Point-in-Time Homeless Counts	Individual Counties	<a href="https://www.pointintimecount.org/">https://www.pointintimecount.org/</a>	None	Los Angeles and San Bernardino Counties	
Household Crowding	Stressor	All	Local	City/County, and Regional	NA	NA	Percent of households overcrowding (>1 person per room) and severe overcrowding (>1.5 persons per room)	Current Status	Lower values corresponds to lower risk	County	Percent of households overcrowding (>1 person per room) and severe overcrowding (>1.5 persons per room)	Percent of Households Overcrowding 0-1.0 (person per room) and Severe Overcrowding (>1.5 persons per room)	California Department of Public Health	<a href="https://data.cdhph.org/household-crowding">https://data.cdhph.org/household-crowding</a>	CDC: Housing Type/Transportation - Crowding	State SCAG region	
Households with No Vehicle Access	Stressor	All	Local	Local	NA	NA	Percent of households with no vehicle access	Current Status	Lower values corresponds to lower risk	County	Percent of households with no vehicle access	Percent of Households with No Vehicle Access	U.S. Census	<a href="https://data.census.gov/tables/2010/ahc">https://data.census.gov/tables/2010/ahc</a>	None	State SCAG region	
Household Income	Stressor	All	City/County	Local	NA	NA	Low Coefficient of Inequality	Current Status	Lower values corresponds to lower risk	County	Low coefficient of inequality (2 * inequality - 1) multiplied at the city level	California Healthy Future Index	Public Health Alliance of Southern California	<a href="https://www.healthylifeindex.org/">https://www.healthylifeindex.org/</a>	None	State SCAG region	
Linguistic Isolation	Stressor	All	Local	Local	NA	NA	Social Vulnerability Indicator	Current Status	Lower values corresponds to lower risk	County	Percent of population over the age of 5 who speak English less than fluently	Percent of Population 5+ Years Old Who Speak English Less Than Fluently	U.S. Census	<a href="https://data.census.gov/tables/2010/ahc">https://data.census.gov/tables/2010/ahc</a>	CEDH: Percent of households with no fluently spoken and/or other speaking English (ACS 2010) and (ACS) CDC: English Language Proficiency - Percent of households with no fluently spoken and/or other speaking English (ACS 2010) and (ACS) CDC: Socioeconomic Status - No High School Diploma	State SCAG region	
Literacy Rate and Educational Attainment	Stressor	All	Local	Local	NA	NA	Percent High School Graduates or Higher	Current Status	Higher values corresponds to lower risk	County	Percent of population 25 years and older that a high school graduate or higher. Reported updated every year and used as one of the social determinants. Indicator is highly consistent with literacy rates.	American Community Survey Table S1503 Educational Attainment	U.S. Census	<a href="https://data.census.gov/tables/2010/ahc">https://data.census.gov/tables/2010/ahc</a>	CDC: Socioeconomic Status - No High School Diploma	State SCAG region	
Population of Older Workers	Stressor	All	Local	NA	NA	NA	Older Workers	Current Status	Lower values corresponds to lower risk	County	Percent of population employed and aged 15+ years working outside household	California Department of Public Health	<a href="https://data.cdhph.org/older-workers">https://data.cdhph.org/older-workers</a>	None	State SCAG region		
Population with a Disability	Stressor	All	City/County and Regional	NA	NA	NA	Civilian noninstitutionalized population	Current Status	Lower values corresponds to lower risk	County	Percent of population with a disability (civilian noninstitutionalized population)	American Community Survey Table S1610 Disability Characteristics	U.S. Census	<a href="https://data.census.gov/tables/2010/ahc">https://data.census.gov/tables/2010/ahc</a>	CDC: Housing Cost Burden	State SCAG region	
Recently Rebuilt/Restored Low-Income Population	Stressor	All	Local	Local	NA	NA	Low Income Foster Care/Heating Cost Burden	Current Status	Lower values corresponds to lower risk	County	Percent of the income series with a job more than 50% of their income on housing costs	Healthy Places Index	Public Health Alliance of Southern California	<a href="https://www.healthylifeindex.org/">https://www.healthylifeindex.org/</a>	CDC: Housing Cost Burden	State SCAG region	
Single Head of Household	Stressor	All	Local	Local	NA	NA	Single Head of Household	Current Status	Lower values corresponds to lower risk	County	Percent of households with a female or male head of household	American Community Survey Table S1212 Household Type	U.S. Census	<a href="https://data.census.gov/tables/2010/ahc">https://data.census.gov/tables/2010/ahc</a>	CDC: Single Parent Household	State SCAG region	
Unsubsidized Residents	Stressor	All	Local	NA	NA	NA	Number of Unsubsidized Individuals	Current Status	Lower values corresponds to lower risk	County	These 2019 data were from Migration Policy Institute (MPI) research. U.S. Census Bureau data from the previous 2010-2018 American Community Survey (ACS) and the 2008 Survey of Income and Program Participation (SIPP), weighted to 2019 unadjusted migrant population estimate.	National and County Estimates of the Number of Unsubsidized Individuals	Migration Policy Institute	<a href="https://www.migrationpolicy.org/">https://www.migrationpolicy.org/</a>	None	State SCAG region	
Access to Open Space	Stressor	All	Local	Local	NA	NA	Neighborhood - Park Access	Current Status	Higher values corresponds to lower risk	County	Percentage of the population living within a half-mile of a park, based on open space parks that are 1-acre	Healthy Places Index (data from OpenStable)	Public Health Alliance of Southern California	<a href="https://www.healthylifeindex.org/">https://www.healthylifeindex.org/</a>	None	State SCAG region	
Avalanche	Shock	Inland	Local	Local	Community, Critical Systems, Risk	Temporary	Avalanche Risk	Physical Risk	Higher values corresponds to higher risk	County	Risk of avalanche (within National Hazard section)	National Risk Index	National Emergency Management Agency	<a href="https://www.fema.gov/national-risk-index">https://www.fema.gov/national-risk-index</a>	None	County counties (limited data availability)	
Coastal Erosion	Shock	Coastal	Local	Local	NA	NA	California Coastal Cliff Erosion	Current Status	Lower values corresponds to lower risk	Site-specific	Cliff loss (averaged over the cliff profile) and cliff top retreat rates	California Coastal Cliff Erosion	Strategic Institute of Oceanography, UC-SDMB	<a href="https://www.scrippscoastalobservatory.org/">https://www.scrippscoastalobservatory.org/</a>	None	County counties (limited data availability)	
Other Attack	Shock	All	City/County	City/County	Community, Economy, Critical Services	Temporary to Linking	Presence of policy	Current Status	Presence of policy corresponds to lower risk	Agency-specific	Presence of prohibitions in regard to mitigating and/or responding to cyber attacks	NA	Individual agency	NA	None	All	
Dislike in Population	Stressor	All	City/County	City/County	NA	NA	Annual Dislike of the Resident Population (PERCENTAGE)	Current Status	Lower values corresponds to lower risk	County	Estimated resident population. Convert to annual year-over-year change	American Community Survey	U.S. Census	<a href="https://data.census.gov/tables/2010/ahc">https://data.census.gov/tables/2010/ahc</a>	None	State SCAG region	
Drought	Stressor	All (especially Desert)	Regional	Regional	NA	NA	Severe Drought and Water Conservation Emergency	Current Status	Drought declaration and/or emergency response	County	Severe Drought and Water Conservation Emergency	Water Conservation Emergency Regulations	Water Conservation Emergency Regulations	California State Water Resources Control Board	<a href="https://www.waterboards.ca.gov/">https://www.waterboards.ca.gov/</a>	CEPH: Drought Severity Index	State SCAG region
Earthquake	Shock	All	Regional	Local and Regional	Community, Economy, Risk, Environment, Critical Services	Linking to Permanent	Presence of Active Fault and Seismicity Zones	Current Status	Presence of active fault and/or Seismicity Zones corresponds to higher risk	Site-specific	Presence of active fault and/or Seismicity Zones	California Geological Survey	California Department of Conservation	<a href="https://www.california.gov/active-faults">https://www.california.gov/active-faults</a>	None	State SCAG region	
Economic Resilience	Stressor	All	Regional	Local and Regional	NA	NA	Agency Specific: California Resilience	Current Status	Greater degree of resilience corresponds to greater risk	Agency-specific	Agency may describe a qualitative understanding of local resilience and risk to natural events for natural resources	Agency-specific	Agency-specific	None	Agency-specific	State SCAG region	
Extreme Cold	Shock	All	Local and Regional	Local and Regional	All	Temporary to Linking	Cold Wave Risk	Physical Risk	Higher values corresponds to higher risk	County	Risk of cold wave (within National Hazard section)	National Risk Index	National Emergency Management Agency	<a href="https://www.fema.gov/national-risk-index">https://www.fema.gov/national-risk-index</a>	None	State SCAG region	
Extreme Heat	Shock	All	Regional	Local and Regional	All	Temporary to Linking	Extreme Heat Days	Physical Risk	Lower values corresponds to lower risk	County	Number of days in a year when daily maximum temperature is above the extreme heat threshold of 103°F	Extreme Heat Days & Warm Nights	Cal-AHSAP	<a href="https://data.cdhph.org/extreme-heat">https://data.cdhph.org/extreme-heat</a>	None	State SCAG region	
Fiscal Health of City Agency	Stressor	All	City/County	City/County	NA	NA	Annual Fiscal Health Risk Assessment - Overall Risk	Current Status	Higher scores corresponds to lower risk	City	Average Annual Change in General Fund Revenue	Fiscal Health of California Cities Risk Index	California State Auditor	<a href="https://www.audit.ca.gov/fiscal-health">https://www.audit.ca.gov/fiscal-health</a>	None	State SCAG region	
Flood	Shock	All	Local and Regional	Local and Regional	Community, Critical Services	Linking to Permanent	Flood Risk	Current Status	Higher values corresponds to higher risk	City	Estimated return period (years) for a 100-year flood event	Flood Risk Index (FRI)	California Department of Water Resources	<a href="https://www.waterboards.ca.gov/flood-risk">https://www.waterboards.ca.gov/flood-risk</a>	None	State SCAG region	
Historical Landslide Shocks	Shock	All	Regional	Local and Regional	Community, Natural Environment	Temporary to Linking	Presence of Historical Landslide Prone Features in California	Current Status	Presence of landslip corresponds to greater risk	County	Presence of landslip corresponds to greater risk	Presence of Landslip Prone Features in California	Permitted Hazardous Waste Facilities in California	California Department of Toxic Substances Control	<a href="https://www.dtsc.ca.gov/">https://www.dtsc.ca.gov/</a>	None	State SCAG region
Infrastructure Failure: Aging Infrastructure	Stressor	All	City/County	Local and Regional	NA	NA	Percent of Critical Infrastructure Exceeding Useful Life	Current Status	Higher values corresponds to lower risk	Agency-specific	Percent of critical infrastructure exceeding useful life	Report Card for California's Infrastructure 2019	American Society of Civil Engineers	<a href="https://www.asce.org/report-card-for-californias-infrastructure-2019">https://www.asce.org/report-card-for-californias-infrastructure-2019</a>	None	State of California	
Infrastructure Failure: Power Utility	Shock	All	City/County	Local and Regional	Community, Economy, Critical Services	Linking	Power Reliability Distribution	Current Status	Higher values corresponds to lower risk	County	Percent of distribution lines that are buried underground, covered and protected (and could help prevent fire in some cases)	Western-Central Utility Reliability Distribution Line That are Underground or Covered (Data 2017)	California State Auditor	<a href="https://www.audit.ca.gov/power-utility">https://www.audit.ca.gov/power-utility</a>	None	State SCAG region	
Infrastructure Failure: Transportation	Shock	All	City/County	Local and Regional	Community, Economy, Critical Services	Linking	Percent Condition Index (PCI)	Current Status	Higher values corresponds to lower risk	County	PCI for each roadway jurisdiction within the county based on a scale of 0 (lowest) to 100 (best); weighted by the pavement area in the jurisdiction based on average PCI	California Statewide Local Street and Road Needs Assessment 2021	ACE	<a href="https://www.acepolicy.com/">https://www.acepolicy.com/</a>	None	State SCAG region	
Infrastructure Failure: Water Utility	Shock	All	City/County	Local and Regional	Community, Economy, Critical Services	Linking	Water Accessibility (Physical Vulnerability to Water Outages)	Current Status	Lower values corresponds to lower risk	Regional (county, city, or water agency)	This indicator measures how vulnerable a water system is to a supply shortage or outage. It identifies a system's water source, distribution infrastructure, whether the system purchases water from a wholesale water provider, and whether the system has a water conservation program in place. It also identifies the system's water source, distribution infrastructure, and whether the system purchases water from another water system provider, or wholesale water provider. The metric is a risk indicator rather than a risk reduction or already-coordinated metric.	Water Right to Water Date Test (CAWRB)	California Office of Environmental Health Hazard Assessment (OEHHA)	<a href="https://www.oehha.ca.gov/water-right-to-water-date-test">https://www.oehha.ca.gov/water-right-to-water-date-test</a>	None	State SCAG region (Some data gaps)	
Landslide	Shock	Coastal, Inland, Forest	Local	Local	All	Temporary	Presence of Landslide Zones	Current Status	Presence of landslide zones corresponds to greater risk	Site-specific	Risk of landslip (within National Hazard section)	California Geological Survey	California Department of Conservation	<a href="https://www.california.gov/active-faults">https://www.california.gov/active-faults</a>	None	State SCAG region (Some data gaps)	
Low-Tide Canyons	Stressor	Coastal, Forest	Local	Local	NA	NA	Low Tide Canyons	Current Status	Lower values corresponds to lower risk	County	Percent of area not covered by low tides	Climate Change and Health Vulnerability Assessment (Low Tide Canyons and Land Cover) (within U.S. Census)	California Department of Public Health	<a href="https://data.cdhph.org/low-tide-canyons">https://data.cdhph.org/low-tide-canyons</a>	CEPH: Neighborhood - Low Tide Canyons	State SCAG region	
Non-humid-related Severe Weather	Shock	All	Regional	Local and Regional	All	Temporary	Various (Non-humid Risk Index - National Hazard)	Physical Risk	Lower values corresponds to lower risk	County	Indices should consult the National Risk Index for relevant non-humid related weather shocks in their region, such as Heat, Ice Storm, and/or Strong Wind.	National Risk Index	National Emergency Management Agency	<a href="https://www.fema.gov/national-risk-index">https://www.fema.gov/national-risk-index</a>	None	State SCAG region	
Pandemic	Stressor	All	Statewide	Local and Regional	NA	NA	Current Public Health Orders	Current Status	Lower values corresponds to lower risk	Agency	The number of current public health orders by the health department for an agency	Agency-specific	Agency-specific	None	Agency-specific	State SCAG region	
Pollution Burden	Stressor	All	Local and Regional	Local and Regional	NA	NA	Relative Burden	Current Status	Lower values corresponds to lower risk	County	Relative Burden Index is based on the following indicators: Ozone, 2.5, Diesel Particulate Matter, Drinking Water Contaminants, Pesticides, and Lead	CaliforniaEQUIS 4.0	California Office of Environmental Health Hazard Assessment	<a href="https://www.oehha.ca.gov/california-equis">https://www.oehha.ca.gov/california-equis</a>	CEPH: Air Quality (PM2.5 and Ozone)	State SCAG region	
Population Exposed to Sea Level Rise	Stressor	Coastal	Local and Regional	Local and Regional	NA	NA	Population in Sea Level Rise Hazard Area	Physical Risk	Lower values corresponds to lower risk	County	Percent of people exposed to be in a flooding zone in 2100, that is sea level rise and a 100-year flood event	Healthy Places Index (data from Pacific Institute 2005)	Public Health Alliance of Southern California	<a href="https://www.healthylifeindex.org/">https://www.healthylifeindex.org/</a>	None	Orange, Los Angeles, and Ventura counties with limited information	
Public Safety Power Shutoff (Related to Wildfire Risk)	Shock	All	City/County and Regional	Local and Regional	Community, Economy, Critical Services	Temporary	CPUC High-Peak Threat District	Current Status	Presence of threat district corresponds to greater risk	Site-Specific	Designated areas of extreme risk from wildfires associated with power shutoffs (power shutoffs are not included) only cover the facilities in the High Peak Threat District	CPUC High Peak Threat District	California Public Utilities Commission (CPUC)	<a href="https://www.cpuc.ca.gov/">https://www.cpuc.ca.gov/</a>	None	State SCAG region	
Terraced (Including Active Shocks)	Shock	All	Local	Local	Community	Temporary	Presence of policy	Current Status	Presence of policy corresponds to lower risk	Agency-specific	Presence of policy addressing terracing, including edge protection, retaining walls, etc.	NA	Individual agency	NA	None	All	
Terraced	Shock	Coastal	Local and Regional	Local and Regional	All	Linking to Permanent	Presence of Terraced Hazard Area	Current Status	Presence of terraced area corresponds to greater risk	Site-specific	Presence of terraced area and identification	California Tourism Hazard Area Map	California Department of Conservation	<a href="https://www.california.gov/terraced-hazard-area">https://www.california.gov/terraced-hazard-area</a>	None	State SCAG region	
Urban Heat Island	Stressor	All	Local	Local, City/County	NA	NA	Urban Heat Island Index	Current Status	Lower values corresponds to lower risk	County	Urban Heat Island index: sum of 102 city-specific difference (temperature) and other variables	Healthy Places Index (data from CalEPH)	Public Health Alliance of Southern California	<a href="https://www.healthylifeindex.org/">https://www.healthylifeindex.org/</a>	None	Linked data in the SCAG region, with most determined in LA County	
Water Quality	Stressor	All	Local	Local	NA	NA	Water Quality Composite Score	Current Status	Lower values corresponds to lower risk	Water system	The Water Quality Composite Score assesses the aggregate score across a water quality indicators. The Water Quality Composite Score ranges from 1 to 4, with higher aggregate scores indicating better water quality. This score period analyzed year 2011 to 2016.	Water Right to Water Date Test (CAWRB)	California Office of Environmental Health Hazard Assessment	<a href="https://www.oehha.ca.gov/water-right-to-water-date-test">https://www.oehha.ca.gov/water-right-to-water-date-test</a>	None	State SCAG region (Some data gaps)	
Wildfire	Shock	All (especially Forest)	Local and Regional	Local and Regional	All	Linking to Permanent	Presence of wildfire hazard	Current Status	Lower values corresponds to lower risk	County	Percent of population currently living in high fire risk hazard zone	Climate Change and Health Vulnerability Assessment (Wildfire Hazard) (within U.S. Census)	California Department of Public Health	<a href="https://data.cdhph.org/wildfire-hazard">https://data.cdhph.org/wildfire-hazard</a>	None	State SCAG region	



# SoCal Greenprint Technical Advisory Committee (TAC)

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February 16, 2023

[WWW.SCAG.CA.GOV](http://WWW.SCAG.CA.GOV)

# Establishment of a **Technical Advisory Committee**

Following approval of the RAMP Policy Framework by the Regional Council, SCAG will establish a Technical Advisory Committee to advise on:

**Data  
Policies &  
User  
Guidelines**

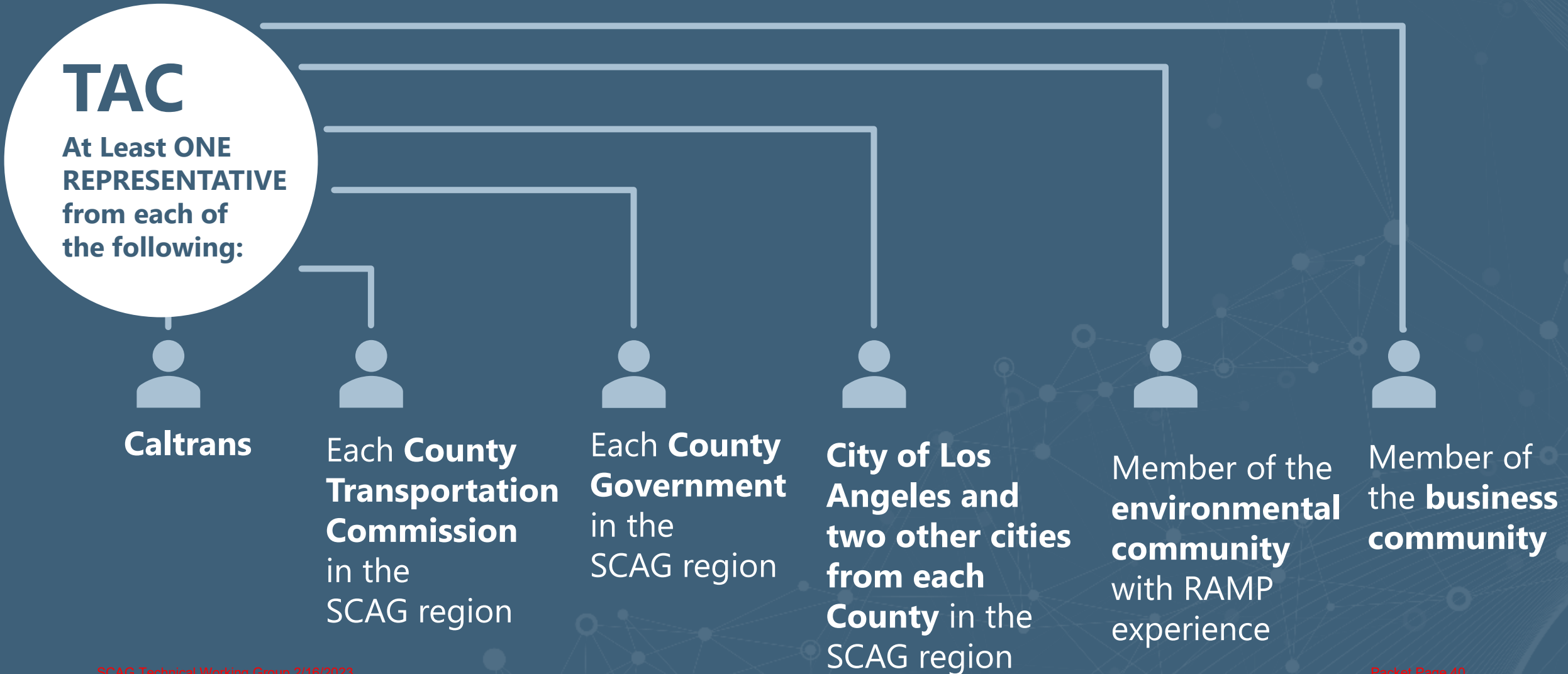
**SoCal  
Greenprint  
Tool's Data  
Governance  
Standards**

**Data  
Selection  
Criteria**

**Process to  
Resolve Potential  
Divergent  
Perspectives on  
SoCal Greenprint  
Tool Data**

**Data  
Parameters**

# Proposed Structure of the Technical Advisory Committee





# TAC Solicitation Process

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- Consult with Subregions
- Formal invitation letters to public agency leads including:
  - Caltrans District Directors
  - CTC CEOs
  - City managers
  - County administrators
- Consult with the GLUE Council for Business Rep
- Consult with the Natural and Farm Lands Conservation Working Group for Environmental Rep

# TAC Application

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- Potential TAC members will be required to fill out a short application form about:
  - Experience developing and/or reviewing Environmental Impact Reports (EIRs)
  - Previous work in Regional Advance Mitigation
  - Experience using GIS and analyzing geographic data
- SCAG will determine final TAC membership.

# Brown Act Requirements

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- TAC members must submit a Form 700 Statement of Economic Interest;
- TAC members participating remotely will need to post an agenda of the meeting with sufficient notice ahead of TAC convenings, will need to include the location where they will be participating from in each meeting agenda and must allow this location to be publicly accessible during TAC meetings;
- TAC Meetings will be noticed and agendized consistent with the timing requirements under the Brown Act; and
- TAC Meetings will be conducted consistent with the Brown Act.

# Timeline of this Effort

**February 2, 2023**

Regional Council approved the Regional Advance Mitigation Program (RAMP) Policy Framework and White Paper



**EARLY 2023**

Formation of the TAC, Relaunch of Greenprint tool development



**SPRING 2023**

First convening of the SoCal Greenprint TAC

**SPRING –  
SUMMER 2023**

3 half-day TAC workshops on a monthly basis





# THANK YOU!

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For more information, please visit:

[www.scag.ca.gov/greenprint](http://www.scag.ca.gov/greenprint)

[www.scag.ca.gov/ramp-atg](http://www.scag.ca.gov/ramp-atg)