Welcome to the *Climate-Safe Infrastructure* Webinar Series

Supporting AB2800 and the Work of California’s Climate-Safe Infrastructure Working Group

May 30, 2018 | 12-1pm
Hosts

Juliette Finzi Hart | USGS
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AB 2800 (Quirk): Purpose

Examine how to integrate scientific data concerning projected climate change impacts into state infrastructure engineering, including oversight, investment, design, and construction.
AB2800 Working Group and Support Team

The Climate-Safe Infrastructure Working Group

Co-Facilitators
- Juliette Finzi Hart, USGS
- Susi Moser, Susanne Moser, Research & Consulting

Amir Agbakouchak, UC-Irvine
Bruce Swanger, Cal-Trans
Chester Wisdom, DGS, State Architect
Clis Uban, L.A. Metro
Dan Cayen, UC San Diego, SIO
David Groves, RAND
Nancy Ander, DGS, Off. of Sustain.
Deb Niemeier, UC Davis
James Deane, High-Speed Rail Auth.
John Andrew, DWR
Kristin Heinemeier, Realized Energy
Kyle Meng, UC Santa Barbara
Martha Brook, CEC
Noah Diffenbaugh, Stanford

Project Team
- Keali’i Bright, Natural Resources Agency
- Elea Becker Lourie, Natural Resources Agency
- Joey Wall, Natural Resources Agency
- Guido Franco, California Energy Commission

Gurdeep Bhattal, Cal-Trans
Robert Lampart, RAND
The working group shall consider and investigate, at a minimum, the following issues:

(1) informational and institutional barriers to integrating climate change into infrastructure design.

(2) critical information needs of engineers.

(3) selection of appropriate engineering designs for different climate scenarios.
The **Climate-Safe Infrastructure** Webinar Series

**Purpose**
- Hear from others elsewhere with relevant experience and expertise.
- Hear from CSIWG members.
- Educate and engage with interested stakeholders on climate change and infrastructure issues.

**Sample of Webinar Topics**
- What climate science can offer
- Various sectoral perspectives
- Processes of changing engineering standards and guidelines
- Holistic infrastructure planning and management
- Financing climate-safe infrastructure
- And others...
A Couple of Housekeeping Items

• Please type your questions for presenters into the chat box

• We will try to answer as many as possible after the presentations

• Answers to remaining questions will be posted on the website

• Thank you to USC Sea Grant!
Building a Climate-Safe Future for All: Social Equity and Inclusion in Infrastructure Planning

Deborah Moore
Union of Concerned Scientists

Chione Flegal
Policy Link

Katie Grace Deane
Center for Community Investment
Lincoln Institute of Land Policy
About PolicyLink

PolicyLink is a national research and action institute advancing economic and social equity by Lifting Up What Works®.
Equity and Climate Justice

*Equity* is just and fair inclusion into a society in which all can participate, prosper, and reach their full potential.

*Climate justice* ensures that the people who are least culpable in the warming of the planet, and most vulnerable to the impacts of climate change, do not suffer disproportionately as a result of historical and ongoing injustice and disinvestment.
Climate Resilience

“Climate Resilience is not about “bouncing back”. Instead it is about bouncing forward to eradicate the inequities and unsustainable resource use at the heart of climate crisis...

...Climate resilience requires a holistic view of the challenges we face, and it calls for solutions at the intersections of people, the environment, and the economy.”

- Movement Strategy Center

California’s Demographic Change
Infrastructure, Equity, and Resilience

Smart, targeted, equitable investments in infrastructure can have a transformative impact on low-income communities and communities of color.
Equity Principles for Infrastructure

Infrastructure planning, policy, and investment should:

1. Serve underinvested communities without pushing out existing residents;
2. Improve the environmental health and quality of life for residents of disinvested communities;
3. Be equitably owned, financed, and funded;
4. Create good jobs and business opportunities for local residents;
5. Invest in workforce training; and
6. Include residents in decision-making
Taking Action

• Choose strategies that promote equity and growth simultaneously
• Target programs and investments to the people and places most left behind
• Assess equity impacts at every stage of the policy process
• Ensure meaningful community participation, voice, and leadership
Target to People and Places Left Behind

• Use data to identify and examine historical patterns of disinvestment/disproportionate impact and seek to reverse them
• Set tangible investment benchmarks
• Revise program guidelines and applications to reflect equity goals
• Work to minimize barriers in program design
• Establish technical assistance programs to expand access to communities with limited capacity
Choose Strategies that Promote Equity & Growth

Prioritize projects that:

- Improve and promote health
- Expand access to jobs and workforce development
- Target **minority- and women-owned businesses** for contracts (see: [http://www.policylink.org/resources-tools/inclusive-procurement-and-contracting](http://www.policylink.org/resources-tools/inclusive-procurement-and-contracting))
- Build community resilience

Credit: denisbin
[https://www.flickr.com/photos/82134796@N03/13634802585/](https://www.flickr.com/photos/82134796@N03/13634802585/)
Assess Equity Impacts

- Who will benefit, who will pay, and who will decide
- Racial Equity Impact Assessments are a formal process in which a government agency analyzes how a budgetary or policy decision is likely to impact different racial and ethnic groups [http://allincities.org/toolkit/racial-equity-impact-assessments](http://allincities.org/toolkit/racial-equity-impact-assessments)
- Set up clear evaluation metrics and systems to measure impacts over time

Ensure Community Participation & Leadership

- Achieving equity requires shared decision-making that is rooted in transparency and a commitment to changing inequitable policies and practices, intended and unintended.
  - Community leaders are experts
  - Failing to include community can result in unintended harm
  - Inclusion creates buy-in
- Community engagement and partnerships are necessary vehicles towards achieving equity, but in and of themselves, do not achieve equity.
## Ensure Community Participation & Leadership

### Continuum – From Engagement to Institutionalizing Equity: King County, WA

#### Levels of Engagement

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
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<tbody>
<tr>
<td>County Informs</td>
<td>King County initiates an effort, coordinates with departments and uses a variety of channels to inform community to take action.</td>
</tr>
<tr>
<td>County Consults</td>
<td>King County gathers information from the community to inform county members to shape county priorities and plans.</td>
</tr>
<tr>
<td>County engages in</td>
<td>King County engages community in dialogue.</td>
</tr>
<tr>
<td>County and community work together</td>
<td>Community and King County share in decision-making to co-create solutions together.</td>
</tr>
<tr>
<td>Community directs action</td>
<td>Community initiates and directs strategy and action with participation and technical assistance from King County.</td>
</tr>
</tbody>
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#### Characteristics of Engagement

- **Primarily one-way channel of communication**
- **One interaction**
- **Term-limited to event**
- **Addresses immediate need of county and community**

- **Two-way channel of communication**
- **Multiple interactions**
- **Medium to long-term**
- **Advancement of solutions to complex problems**

#### Strategies

- **Media releases, brochures, pamphlets, outreach to vulnerable populations, ethnic media contacts, translated information, staff outreach to residents, new and social media.**
- **Focus groups, interviews, community surveys.**
- **Forums, advisory boards, stakeholder involvement, coalitions, policy development and advocacy, including legislative briefings and testimony, workshops, community-wide events.**
- **Co-led community meetings, advisory boards, coalitions, and partnerships, policy development and advocacy, including legislative briefings and testimony.**
- **Community-led planning efforts, community-hosted forums, collaborative partnerships, coalitions, policy development and advocacy including legislative briefings and testimony.**

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**Lifting Up What Works**

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**PolicyLink**
Thank You

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Additional PolicyLink Resources:

All in Cities Toolkit  http://allincities.org/toolkit

National Equity Atlas
http://nationalequityatlas.org/

PolicyLink Perspectives (Blog and Newsletter)
http://www.policylink.org/equity-in-action/perspectives
Funding vs. Financing: What’s the Difference?

- **Funding** pays for spending on goods and services that are consumed (e.g. food, gas). Funders do not expect to be repaid, although they may expect to achieve important outcomes as a result of the spending.

- **Financing (also called investment)** supplies money now that is repaid over time.
  - Examples: buying a house with a mortgage; paying for college with student loans
  - Investors supply capital because they expect a return on their investment
  - Financial investors expect to receive the original sum (principal) plus a return in the form of interest (e.g. bank loans), capital gains (e.g. real estate or stocks) and/or savings/avoided costs (tax credits)
  - Repayment may come from cashflows produced by the investment (e.g. rental properties) or from other sources (e.g. taxes)
  - Impact investors may trade off some financial return for the promise of social or environmental returns
Community Investment: Making Money Flow Uphill
Community Investment Actors

Priorities
- Residents and local businesses
- Neighborhood organizations
- Local elected officials
- City agencies
- Advocacy groups

Pipeline
- Capital sources
  - Banks
  - Insurance companies
  - Pension funds
  - Foundations
  - Anchors
  - Federal, state, local governments
- Intermediaries
  - Community Development Financial Institutions (CDFIs)
  - Development Finance Agencies (DFAs)
  - Banks and credit unions
  - Small business intermediaries
- Deal generators/Capital users
  - Community Development Corporations (CDCs)
  - Affordable housing developers
  - Small businesses
- Structuring, Monitoring,
- $ Set and enforce policies and regulations
  • State and local agencies
  • Elected officials
- Determine and align resource flows
  • State and local agencies
  • Philanthropy
  • Anchor institutions
  • Investors
  • Intermediaries
  • Civic/nonprofit organizations
- Establish and sustain platforms for collaboration
  • Philanthropy
  • Civic leaders
- Generate/provide data
  • Universities
  • Nonprofit organizations
  • Government agencies

Enabling Environment
Framework for Strengthening Community Investment

**Shared Priorities**
Create a shared vision specific enough to shape decisions

**Pipeline**
Generate deals and projects that add up to the realization of the community’s strategic priorities

**Enabling Environment**
Shape the context that promotes or impedes the execution of the pipeline
Shared Priorities

- Ensure there is a shared, community-endorsed vision broad enough to matter and specific enough to shape decisions.
  - Convene stakeholders
  - Engage with community
  - Define needs
  - Assess opportunities and availability of resources
  - Set priorities at the right altitude

- Priorities may emerge from a formal process (comprehensive plan); a crisis (natural disaster, consent decree, traumatic event); or a group of leaders deciding that "we, together, will..."
Pipeline

Identify and develop projects and investments that together add up to the realization of the community’s shared priorities.

Spot opportunities

Overcome barriers to investment

Align deals and projects with vision and priorities

Frame the projects

Leverage public resources

Structure and underwrite investments

Select project participants

Assemble capital, including identification and blending of sources

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Center for Community Investment
Enabling Environment

Shape the context to facilitate realization of the priorities.

• Set and enforce policies and regulations
• Identify and align resources and funding flows
• Ensure availability of needed skills and capacities
• Foster formal and informal relationships
• Build forums and platforms for ongoing collaboration
• Influence practices and processes
• Generate and provide data
Approach in Action: The Bay Area

**CONTEXT**

- Top community investment system but growing affordable housing crisis
- Great Communities Collaborative: the challenge of “sufficiency”
- BART-owned land!

**ANTICIPATED REGIONAL RESULTS**

- **People Have Increased Opportunities**: 10,000 units of affordable housing near transit change lives by providing access to jobs and amenities
- **Disinvested Places Experience Catalytic Investment**: Regional resources and capacity are put to work in communities that have been unable to attract capital
- **Capacity for Change Grows**: New stakeholders contribute to cross-sector collaboration, building a strong foundation of trust and creating an ongoing platform for innovation
The Model in Infrastructure

Potential considerations

- Who benefits?
- Who are the decisionmakers?
- What assumptions are hidden in models, data, or frameworks being used to make decisions?
- What challenges or roadblocks can you identify from looking at recently stalled infrastructure projects?
- Inequity is an outcome of business as usual. If there were easy solutions, someone would have done it by now.
To Learn More

For more information, see the resources on our website at: www.centerforcommunityinvestment.org

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Building a Climate-Safe Future for All: Social Equity and Inclusion in Infrastructure Planning

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Lincoln Institute of Land Policy
Thank you!

• The *Climate-Safe Infrastructure* Webinar Series continues at least through July 2018

• Upcoming webinars:
  • Enabling Scientists and Engineers Working Together Effectively – June 6
  • Tools Supporting Climate-Safe Infrastructure Design – June 8
  • Financing the Future, Part 3 – late June
  • Talking Climate Change with Engineers – July
  • Monitoring Performance – Working Toward Success – July

• Track webinars and progress of CSIWG at:  
  http://resources.ca.gov/climate/climate-safe-infrastructure-working-group/

• Questions: Joey Wall - Joseph.Wall@resources.ca.gov