

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

Co-Facilitator of CSIWG's work

Email: jfinzihart@usgs.gov



Susi Moser | Susanne Moser Research & Consulting

Co-Facilitator of CSIWG's work

Email: promundi@susannemoser.com

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

Co-Facilitators



Juliette Finzi Hart
USGS



Susi Moser
Susanne Moser
Research & Consulting

The Climate-Safe Infrastructure Working Group



Amir Aghakouchak
UC-Irvine



Bruce Swanger
Cal-Trans



Chester Widom
DGS, State Architect



Cis Liban
L.A. Metro



Dan Cayan
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



Gurdeep Bhattal
Cal-Trans



Robert Lempert
RAND

Project Team



Keali'i Bright
Natural Resources
Agency



Elea Becker Lowe
Natural Resources
Agency



Joey Wall
Natural Resources
Agency



Guido Franco
California Energy
Commission

AB 2800 (Quirk): Scope of Assessment and Recommendations

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



Union of Concerned Scientists

Citizens and Scientists for Environmental Solutions

Building a Resilient California: Infrastructure, Equity, and Climate Change

Chione Flegal
Senior Director, PolicyLink
May 30th, 2018



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.”

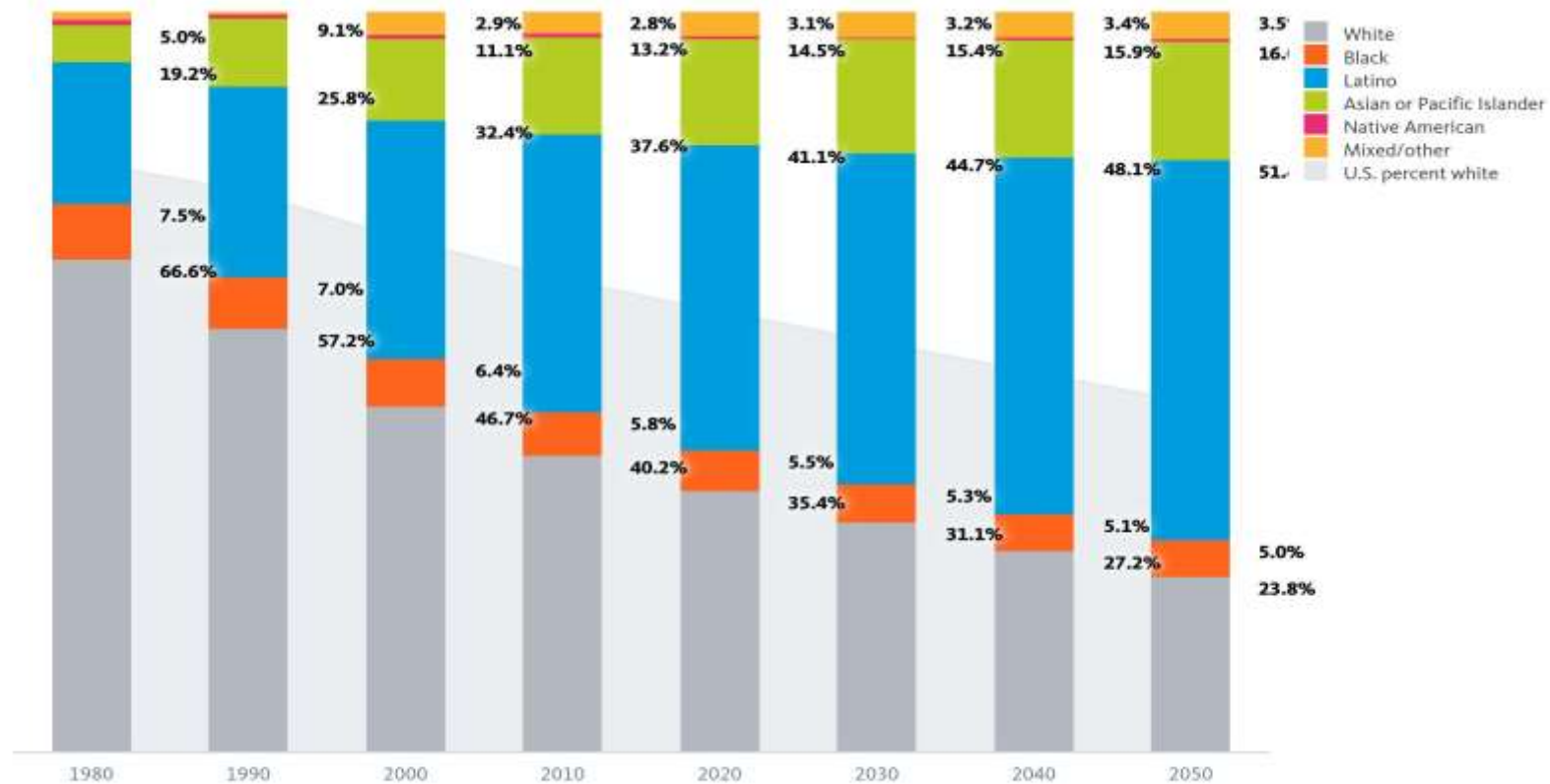
- Movement Strategy Center



Pathways to Resilience: Transforming Cities in a Changing Climate http://movementstrategy.org/b/wp-content/uploads/2016/07/Pathways_2_Resilience_EBook-Full-2015.pdf

California's Demographic Change

Racial/ethnic composition: California, 1980-2050



U.S. Census Bureau; NHGIS; Woods & Poole Economics, Inc.
PolicyLink/PERE National Equity Atlas, www.nationalequityatlas.org

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



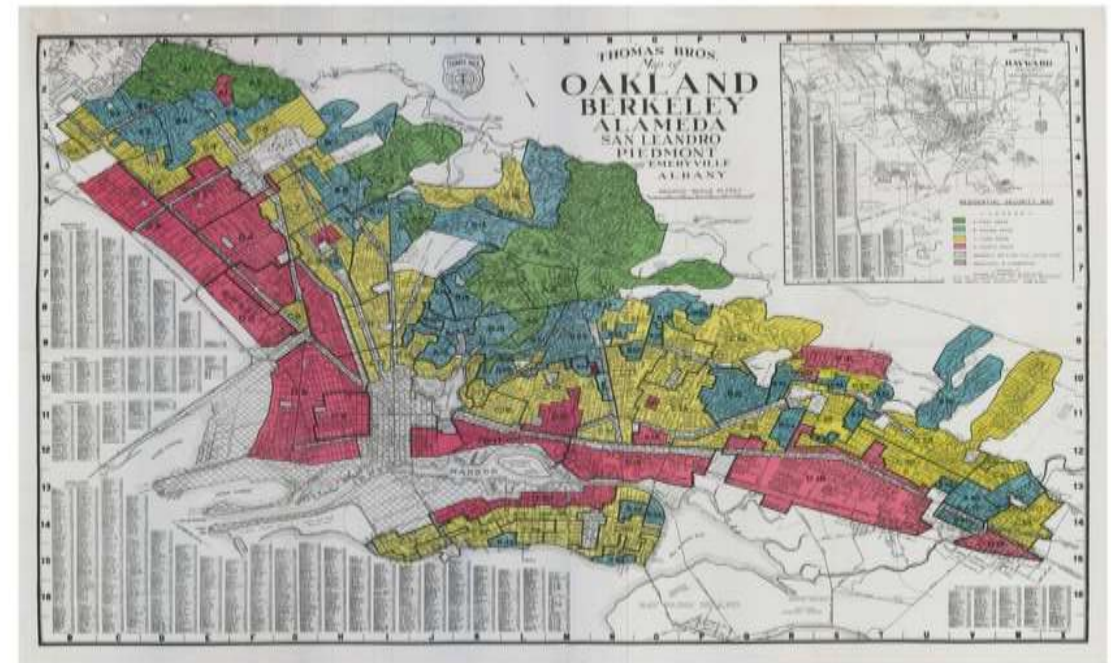
Taking Action

- 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>)
- **Build community resilience**



Credit: denisbin

<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>
- Set up clear evaluation metrics and systems to measure impacts over time



Source: http://www.adaptingtorisingtides.org/wp-content/uploads/2015/04/ART_Subregion_aerial_sm.jpg

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				
County Informs	County Consults	County engages in dialogue	County and community work together	Community directs action
King County Initiates an effort, coordinates with departments and uses a variety of channels to inform community to take action	King County gathers information from the community to inform county-led interventions	King County engages community members to shape county priorities and plans	Community and King County share in decision-making to co-create solutions together	Community initiates and directs strategy and action with participation and technical assistance from King County
Characteristics of Engagement				
<ul style="list-style-type: none"> Primarily one-way channel of communication One interaction Term-limited to event Addresses immediate need of county and community 	<ul style="list-style-type: none"> Primarily one-way channel of communication One to multiple interactions Short to medium-term Shapes and informs county programs 	<ul style="list-style-type: none"> Two-way channel of communication Multiple interactions Medium to long-term Advancement of solutions to complex problems 	<ul style="list-style-type: none"> Two-way channel of communication Multiple interactions Medium to long-term Advancement of solutions to complex problems 	<ul style="list-style-type: none"> 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

Thank You

Chione Flegal
Senior Director
chione@policylink.org
(510) 663-4311
www.policylink.org

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>

BUILDING A CLIMATE-SAFE FUTURE FOR ALL: Overcoming Disinvestment

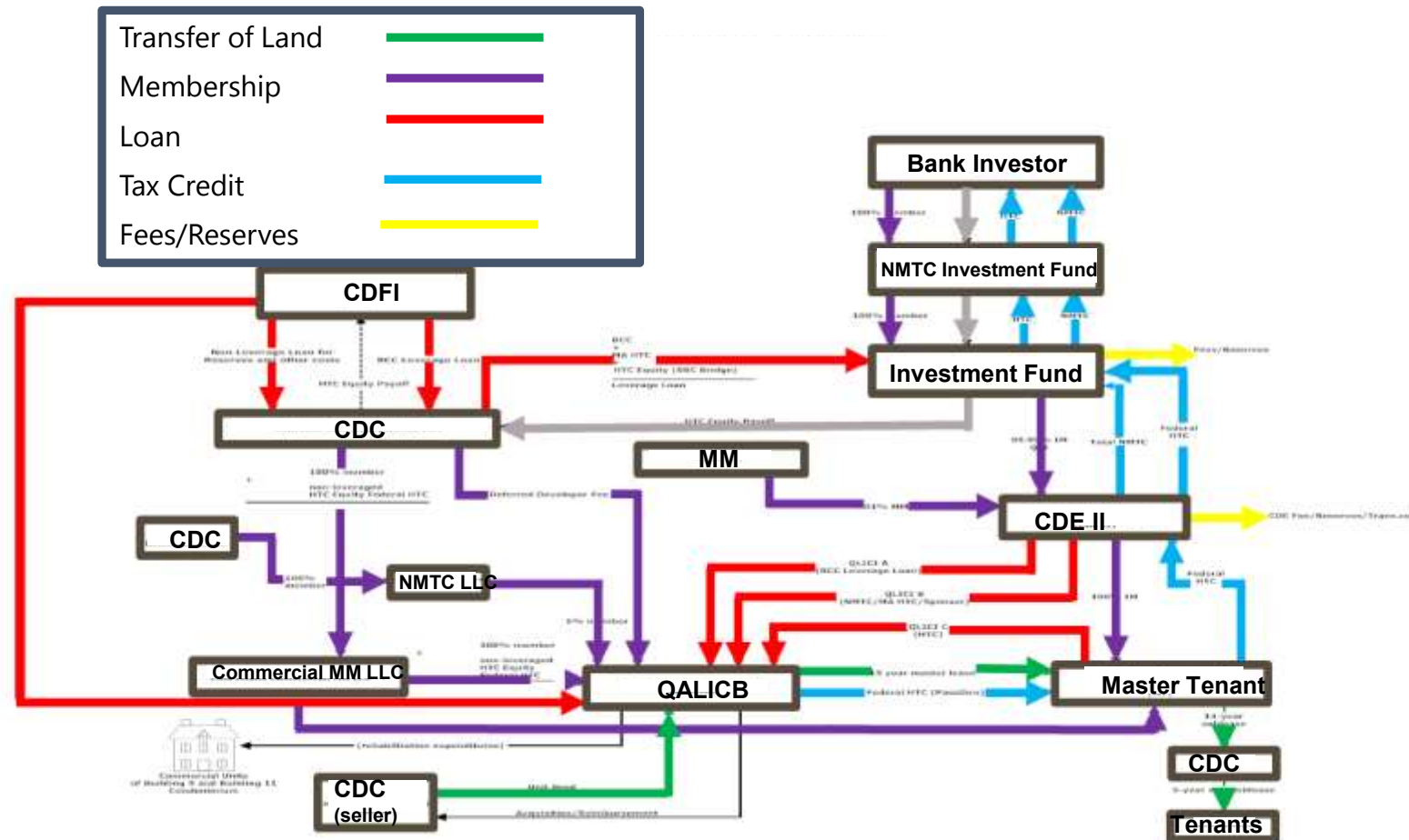
Katie Grace Deane
Associate Director, CCI

May 2018

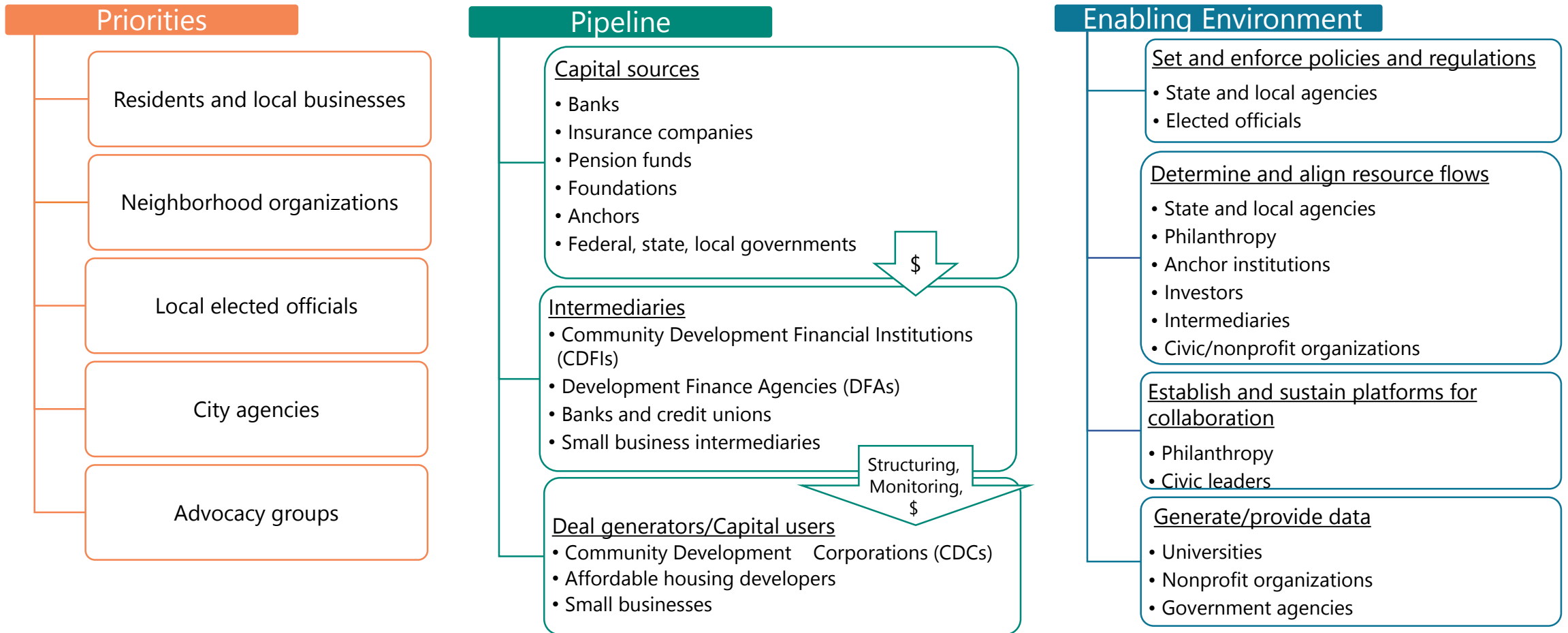
Funding vs. Financing: What's the Difference?

- **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

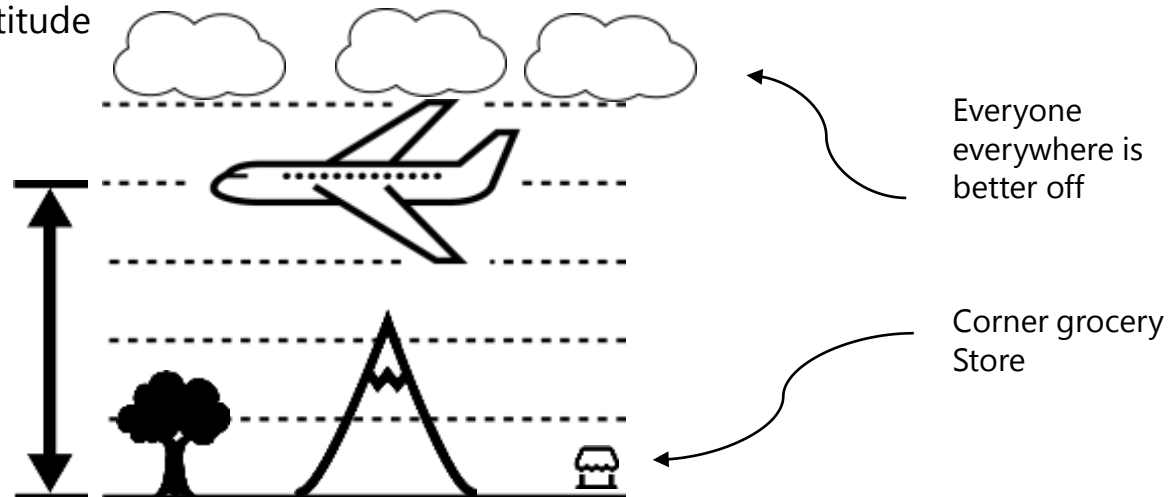


Framework for Strengthening Community Investment



Shared Priorities

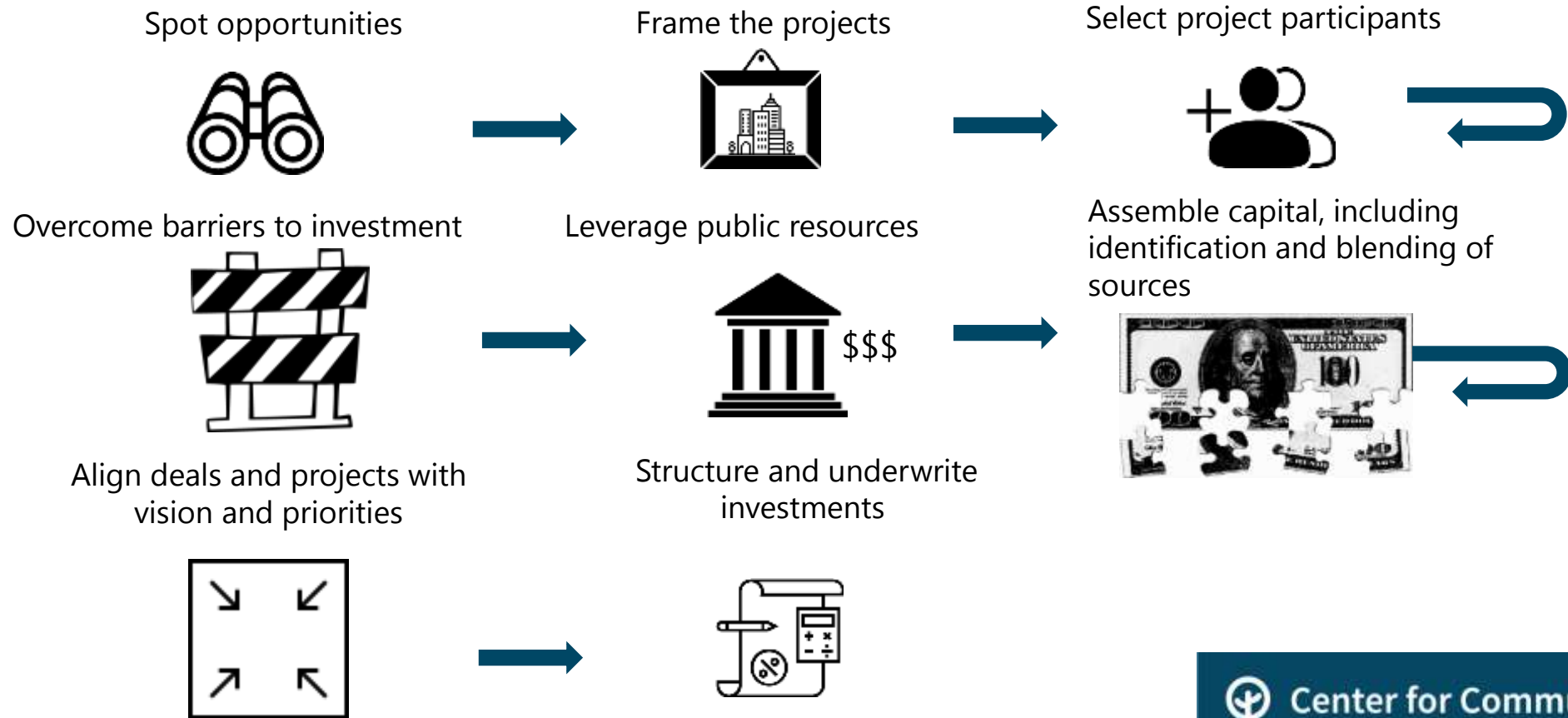
- Ensure there is a shared, community-endorsed vision broad enough to matter and specific enough to shape decisions.
 - Convene stakeholders
 - Engage with community
 - Define needs
 - Assess opportunities and availability of resources
 - Set priorities at the right altitude



- 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.



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!



Photo: Justin Sullivan/Getty Images

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

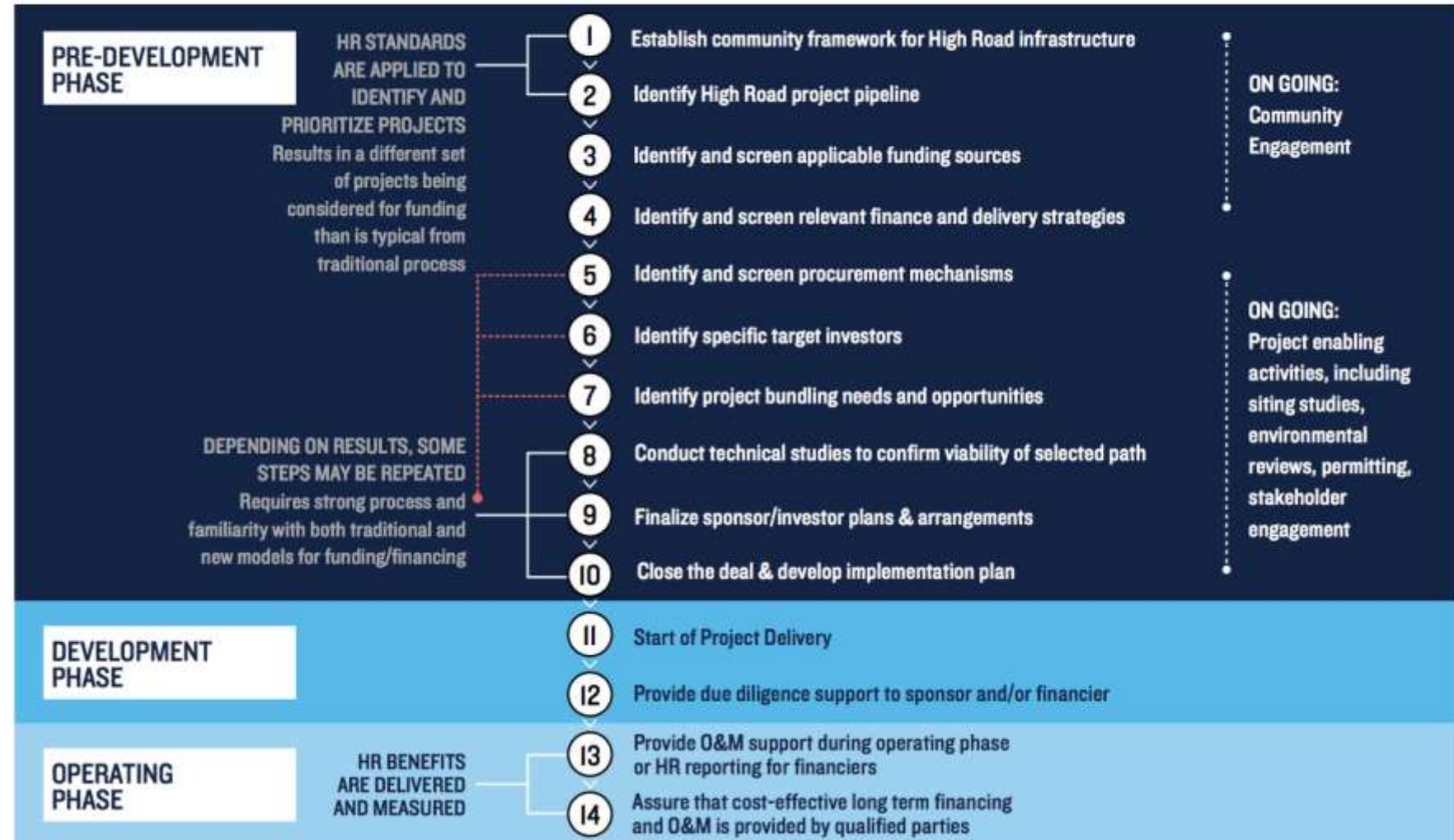
Regional resources and capacity are put to work in communities that have been unable to attract capital

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

FIGURE 1: HIGH ROAD IMPLEMENTATION PROCESS



Taking the High Road to More and Better Infrastructure in the United States. NRDC 16-06-A.
<https://www.nrdc.org/sites/default/files/taking-high-road-more-and-better-infrastructure-ip.pdf>

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

Katie Grace Deane
kgdeane@centerforcommunityinvestment.org
617-503-2218

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



Chione Flegal
Policy Link



Katie Grace Deane
Center for Community Investment
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