

THE GOVERNANCE GAP: CLIMATE ADAPTATION AND SEA-LEVEL RISE IN THE SAN FRANCISCO BAY AREA

Mark Lubell and Francesca Vantagiatto, UC Davis

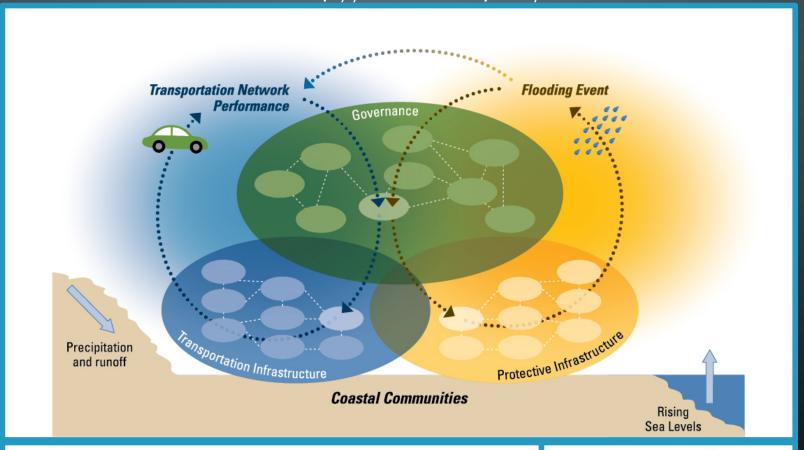
Center for Environmental Policy and Behavior

mnlubell@ucdavis.edu

environmentalpolicy.ucdavis.edu

@envpolicycenter

RESILIENT INFRASTRUCTURE AS SEAS RISE (RISER SF BAY) http://riser.berkeley.edu/











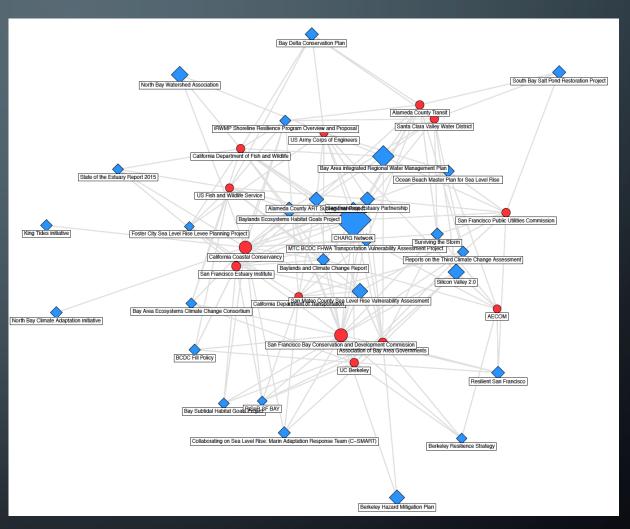




THE GOVERNANCE GAP: COOPERATION AND LEARNING IN COMPLEX SYSTEMS

Public policy is almost always a mess. Let's acknowledge the inevitable and figure out how to manage a messy situation. Trying to define a policy "problem" is hard enough. Trying to find a solution is even harder. Trying to do either in a policy-making structure in which everyone is involved, but nobody is in charge, is nearly impossible.

Phil Isenberg, 2016



GOVERNANCE RESEARCH APPROACH

- Multi-level interviews from regional to local, government and nongovernmental stakeholders
- 43 individuals interviewed at average of 1 hour each.
- Governance Solutions focus groups: North Bay, South Bay, Central Bay
- Report 2017: "The Governance Gap: Climate Adaptation and Sea-Level Rise in the San Francisco Bay Area"
- Governance Gap Survey: June 25-Sept 10, 2018. 722 respondents.

Bay Area Climate	Proposed Solution Concepts
Adaptation Governance	
Challenges	
I share to be a list	Shared governance ("stay in your own lane") Joad gappay (BCDC or other existing gappay)

Lead agency (BCDC or other existing agency) Institutions for Multi-3. New "network" administrative agency (e.g.; Delta Stewardship Council) **Level Cooperation** Climate Adaptation Vision or Commission (e.g. Delta Vision, Governor's Commission for a Sustainable South Florida, Western Water Commission) 4. Institutional consolidation: special districts, regional governing boards 5. Update existing regional (SB375, Plan Bay Area, SF Bay Plan, other) and local plans (general plans, congestion management plans, local climate adaptation plans)

Climate Adaptation Overall regional climate adaptation plan 2. Separate but linked new plans for specific issues—sea level rise, temperature, drought 3. **Planning Funding Portfolio**

Climate Science

Political Leadership

Enterprise

Vision Plan and next step recommendations Federal: special legislation, WRDA, transportation funding State: Transportation and bond money, special legislation Regional/Local: parcel taxes, increases in fees, special taxation districts Public-private partnerships

Expand scope of Long Term Management Strategy for Dredging and associated Dredged Materials Management Office 2. Create new integrated permitting strategy for green infrastructure **Integrated Permitting** Habitat Conservation/Natural Communities Conservation Plan 3. Programmatic CWA Section 404, ESA Section 7, and other permits 4.

Legislative staff outreach task force

Create centralized web portal for all climate science information 2. Climate science services center (data and assistance/guidance) hosted at agency, university, NGO, or consortium 3. Internal independent science review board External National Academy of Science review panel (e.g. Committee on Independent Scientific Review of Everglades Restoration Progress) 4.

Community-based adaptation meetings (e.g. Southern Marin Pilot Project) Collaborate with cultural institutions (e.g.; museums, schools, NGOs) **Civic Engagement** Digital, alternative, and traditional media marketing Citizen science and in situ visualizations 4.

3.

Climate Leadership Training Academy Create state and federal legislative caucus groups focused on climate adaptation Governor-sponsored regional climate adaptation dialog sessions

RECOMMENDATIONS

- <u>Institutions</u>: Climate Adaptation Vision or Commission (e.g. Delta Vision, Governor's Commission for a Sustainable South Florida, Western Water Commission)
- Planning: Vision Plan and next step recommendations
- <u>Funding</u>: "Local first" funding portfolio: parcel taxes, increases in fees, special taxation districts
- Permitting: Create new integrated permitting strategy for green infrastructure
- Science/Policy: Climate science services center (possible legislative target)
- Civic engagement: Integrated strategy from in-person to digital
- <u>Political leadership</u>: Create state and federal legislative caucus groups focused on climate adaptation (legislative relations staff)

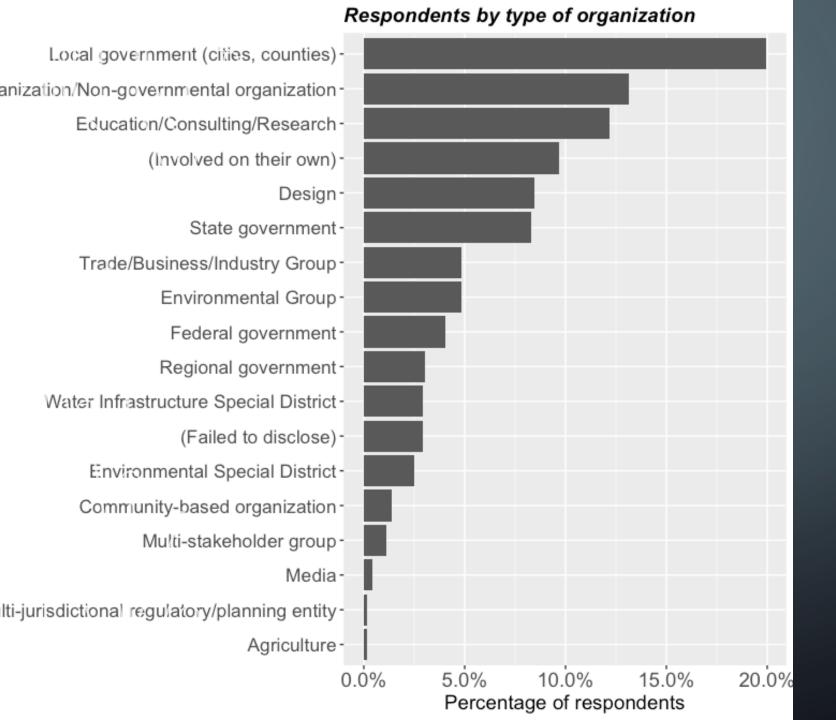
A governance survey of involved stakeholders

We launched the survey on July 1st, 2018 and closed it on August 31st, 2018.

The survey comprised three main parts:

- stakeholders' perceptions of the problem;
- stakeholders' preferences concerning the actions;
- stakeholders' collaborative activities, within forums and bilaterally with other organizations.

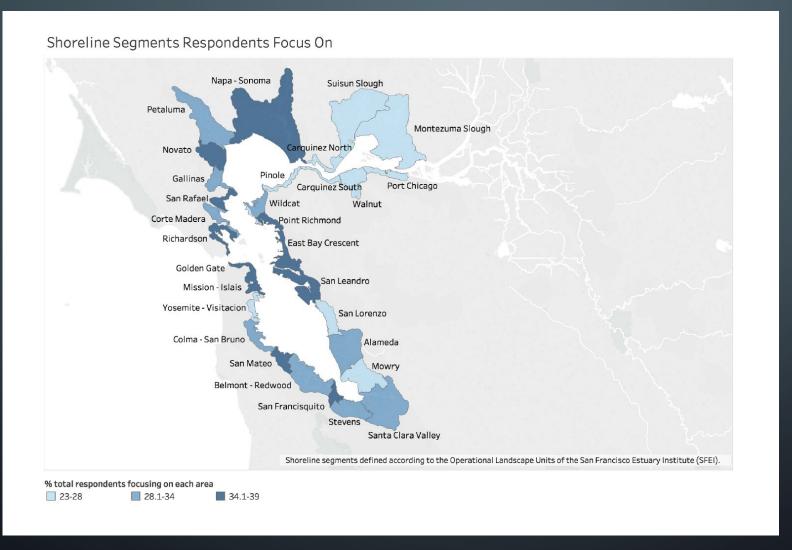
We obtained 722 replies (22% response rate). Respondents represent 385 organizations (65 are involved in an individual capacity; 38 failed to disclose).



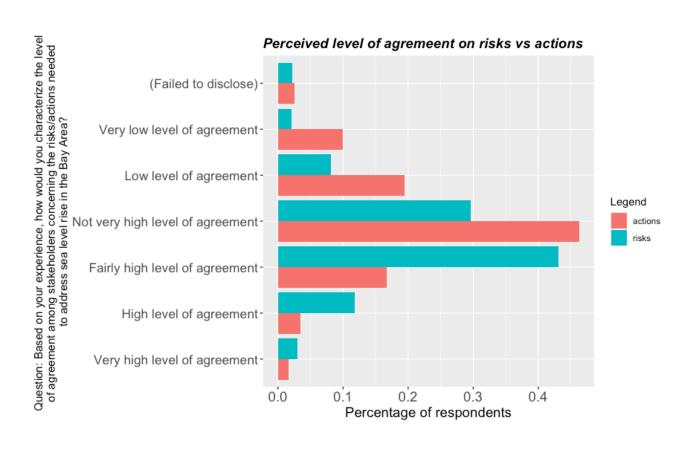
MANY TYPES OF ORGANIZATIONS INVOLVED IN SEA LEVEL RISE

MOST HAVE SEA LEVEL RISE
AS PART OF THEIR WORK,
AND INVOLVED ON BEHALF
OF ONE ORGANIZATION

GEOGRAPHIC FOCUS OF RESPONDENTS

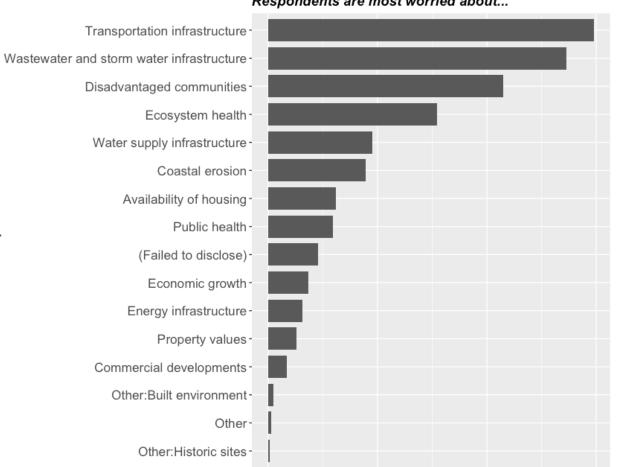


 Higher response frequencies in segments with higher population, not higher inundation risk

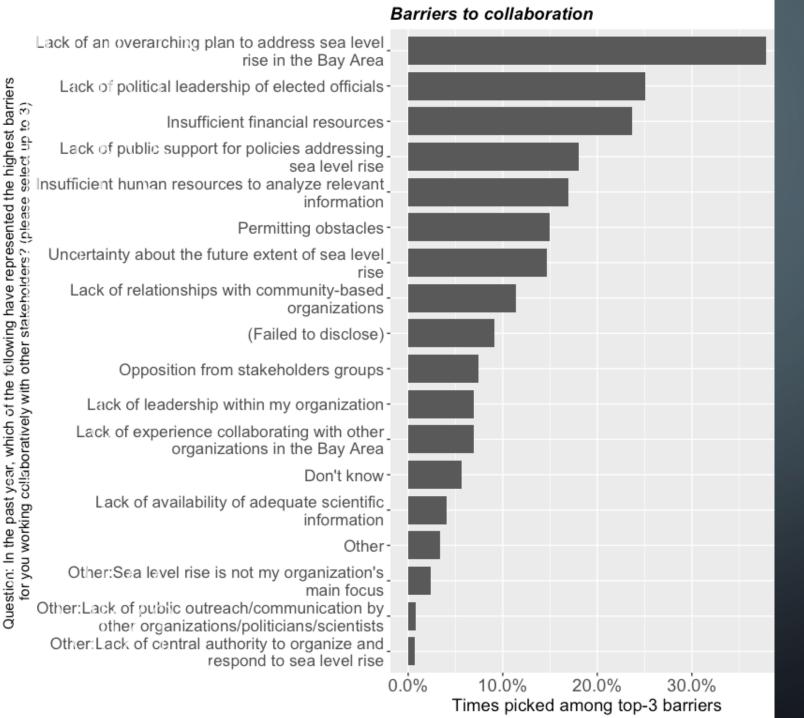


MORE AGREEMENT ON EXISTENCE OF PROBLEM, THAN WHAT TO DO ABOUT IT

Respondents are most worried about ...



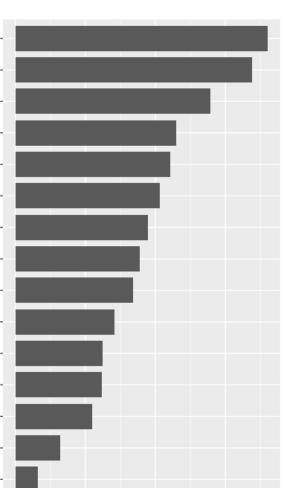
INFRASTRUCTURE AND DISADVANTAGED **COMMUNITIES ARE** MAIN CONCERNS



PLANNING, LEADERSHIP, AND MONEY ARE MAJOR BARRIERS

SCIENCE IS <u>NOT</u> A BARRIER

Create a regional Sea Level Rise adaptation plan-Create a collaborative partnership between existing agencies and stakeholders to address sea level rise Promote projects aimed at accommodating sea level rise with "green" infrastructure Complete vulnerability assessments for all 9 counties-Develop faster/more efficient permitting processes that incorporate considerations of sea level rise Empowering an existing regional agency to address sea Lobby at the state or federal level for funding to help respond to sea level rise in California Focus attention on the impact of sea level rise on disadvantaged communities Create a single information platform concerning the status of projects related to sea level rise Promote projects with different or innovative design A "visioning process" where stakeholders collaboratively identify the principles goals and actions for addressing sea level rise Establish a new regional authority to address sea Pass local tax measures to address sea level rise-Support local jurisdictions to respond to sea level rise as they see fit (Failed to disclose)-



EVERYBODY WANTS A PLAN ...BUT WHO WILL MAKE IT?

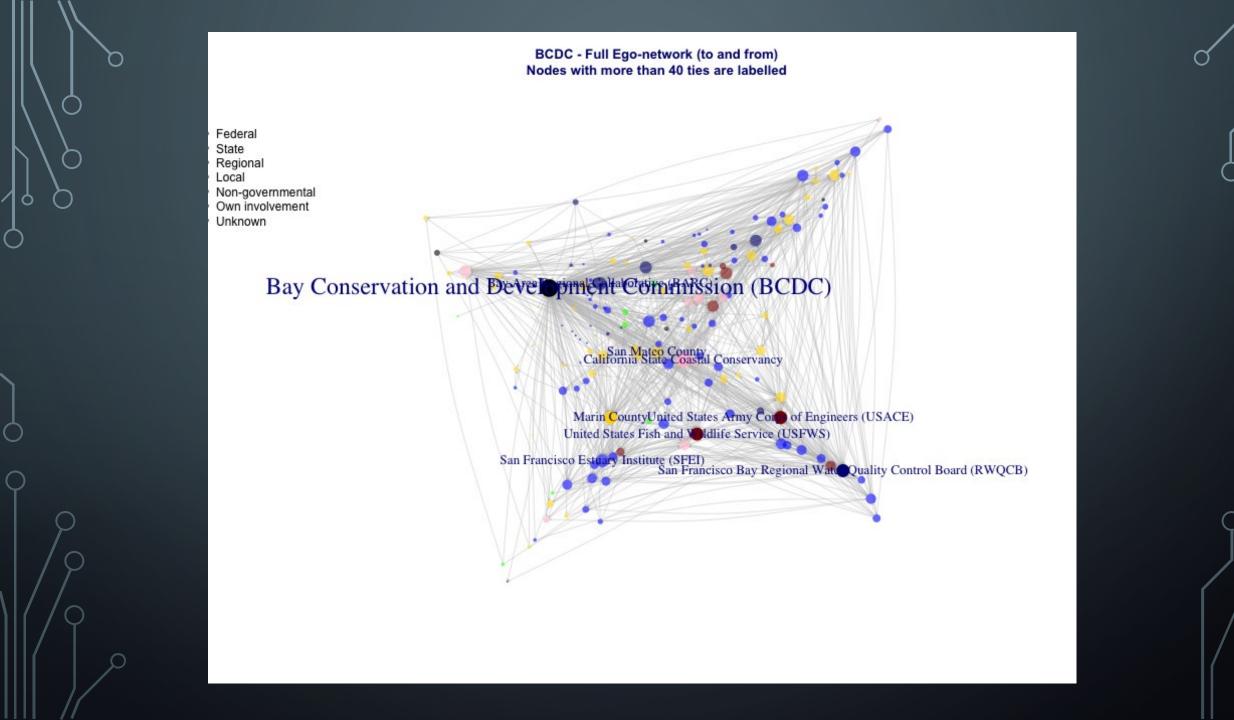
NOBODY WANTS A NEW AUTHORITY!

"VISIONING" PROCESS AS UNDERAPPRECIATED PATH FORWARD

WHO COLLABORATES?

	Actor	Number of Connections
1	Bay Conservation and Development Commission (BCDC)	204
2	California State Coastal Conservancy	126
3	Marin County	97
4	San Mateo County	76
5	United States Fish and Wildlife Service (USFWS)	75
6	San Francisco Bay Regional Water Quality Control Board (RWQCB)	69
7	United States Army Corps of Engineers (USACE)	67
8	Bay Area Regional Collaborative (BARC)	63
9	San Francisco Estuary Institute (SFEI)	63
10	California Department of Transportation (Caltrans)	57
11	Association of Bay Area Governments (ABAG)	54
12	Resilient by Design	53
13	Metropolitan Transportation Commission (MTC)	53

• Top 4 most important factors for choosing collaborators are reputation, information, decision-making authority, and interest overlap





Collaborative initiative	Participating respondents
Resilient by Design	256
Adapting to Rising Tides	140
SeaChange San Mateo County	35
BAYWAVE Marin County	33
SR37	31
Bay Area Climate Adaptation Network (BayCAN)	26
San Francisco Bay Restoration Authority	26
CHARG	24
San Francisco Seawall Project	20
C-SMART Marin	15

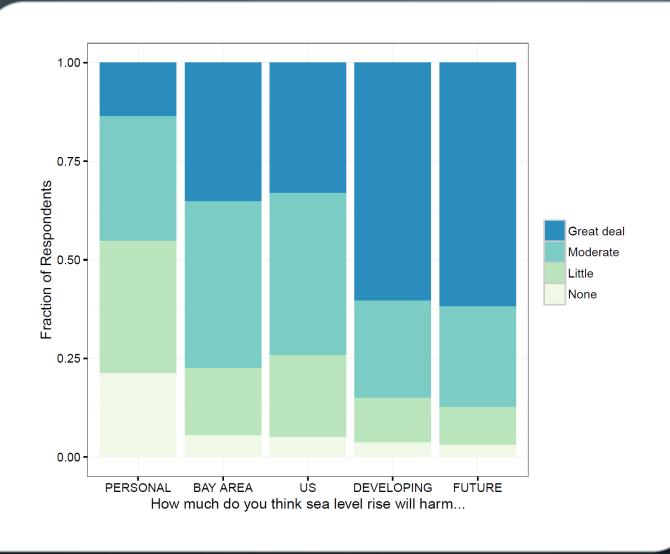


PROJECT PERFORMANCE: ART VS RBD

HORNS OF A GOVERNANCE DILEMMA: BCDC LESSONS

- Central in network, but not alone—many other players
- Regional visioning process should go beyond BCDC
- Convening role in development of regional plan/visioning process
- Amount and availability of science is not a problem;
 "sense" making and usability is the challenge
- ART Project is performing well in many metrics innovation becomes more controversial





NEXT STEPS

- Continued Outreach and Engagement on Basis of Current Results
- Comparative study of transportation projects in San Diego, Los Angeles, and Bay Area
- Household surveys in multiple regions
- Replication of governance study in other regions











THANKS!

QUESTIONS?

(Clockwise from top): Mark Lubell, Mark Stacey, Bruce Riordan, Samer Madanat, Francesca Vantagiatto