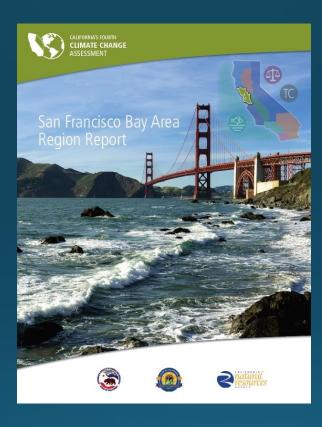
#### San Francisco Bay Area

Bruce Riordan

BayCAN

CRI @Berkeley



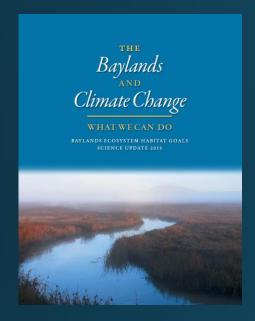


#### 1<sup>st</sup> Regional Parcel Tax (ever) - \$500M

#### Measure AA - June 7, 2016 - Unofficial Election Results

08/11/2018 05:44 pm (Reload page to refresh results: Ctrl-F5 [Windows] or Command-R [Mac] )

	Total	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma
Last updated		July 7 (Certified)	July 7 (Certified)	July 5, 9:14 AM (Certified)	June 29, 10:59 AM (Certified)	June 24, 3:25 PM (Certified)	July 7 (Certified)	July 6 11:56 AM (Official)	June 27, 6:20 AM (Official)	July 7 (Official)
Yes	1,282,182	276,677	169,024	71,862	24,598	186,674	126,943	279,259	51,482	95,663
%	70.32%	75.20%	65.70%	73.50%	59.13%	77.64%	71.98%	70.08%	54.35%	64.30%
No	541,190	91,231	88,249	25,906	17,000	53,766	49,422	119,254	43,248	53,114
%	29.68%	24.80%	34.30%	26.50%	40.87%	22.36%	28.02%	29.92%	45.65%	35.70%









## 1<sup>st</sup> Regional Parcel Tax (ever) - \$500M

#### Oro Loma Ecotone Project – Horizontal Levee





The ecotone slope will:

Create an upland /transitional ecotone and restore elevation and salinity gradients that are missing in many parts of the Bay due to diking and provide endangered species habitat more resilient to sea level rise;

Create gently sloping upland to act as buffers to waves and sea level rise, with greater productivity to increase accretion rates, with the ability to treat stormwater, and at costs significantly lower than traditional levee designs;

 Act as treatment wetlands to polish wastewater discharge as an effective, low cost, low energy, and environmentally sustainable method to nearly eliminate nutrient loadings and CECs from the receiving waters.

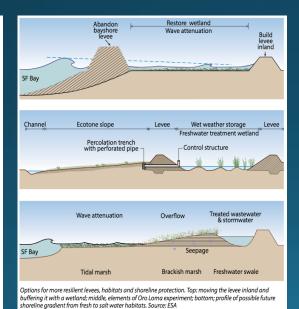
If the pilot projects prove successful, they could be replicated adjacent to WWTPs around San Francisco Bay, built to treat stormwater flows (including summertime 'urban drool'), as well as to create up to 5,000 acres of moist grassland/bayland ecotone around the Bay.

Table 4. Riparian scrub planting plan (three cells)

Species	Common Name	Plants per 10 ft by 40 ft grid	Plants per cell	Plants per 1/3 cell	Total for all Riparian Scrub Cells
Baccharis glutinosa	Marsh baccharis	10	175	58	525
Carex barbarae	Santa Barbara sedge	22	385	128	1,155
Carex praegracilis Field sedge		22	385	128	1,155
Cornus sericea Red osier dogwood		5	88	29	263
Rosa californica	California rose	10	175	58	525
Rubus ursinus	California blackberry	30	525	175	1,575
Salis lasiolepis	Arroyo willow	40	700	233	2,100
Sambucus nigra	Black elderberry	5	88	29	263
Total					7,561

Table 5. Swale-depression meadow planting plan (three cells)

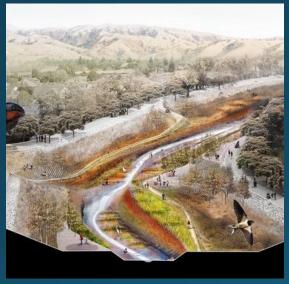
Species	Common Name	Plants per 10 ft by 40 ft grid	Plants per cell	Plants per 1/3 cell	Total for all Swale Depression Meadow Cells	
Artemisia douglasiana	California mugwort	15	263	88	788	
Baccharis glutinosa	Marsh baccharis	15	263	88	788	
Carex praegracilis	Field sedge	15	263	88	788	



#### Oro Loma Ecotone Project

### Resilient by Design: Bay Area Challenge





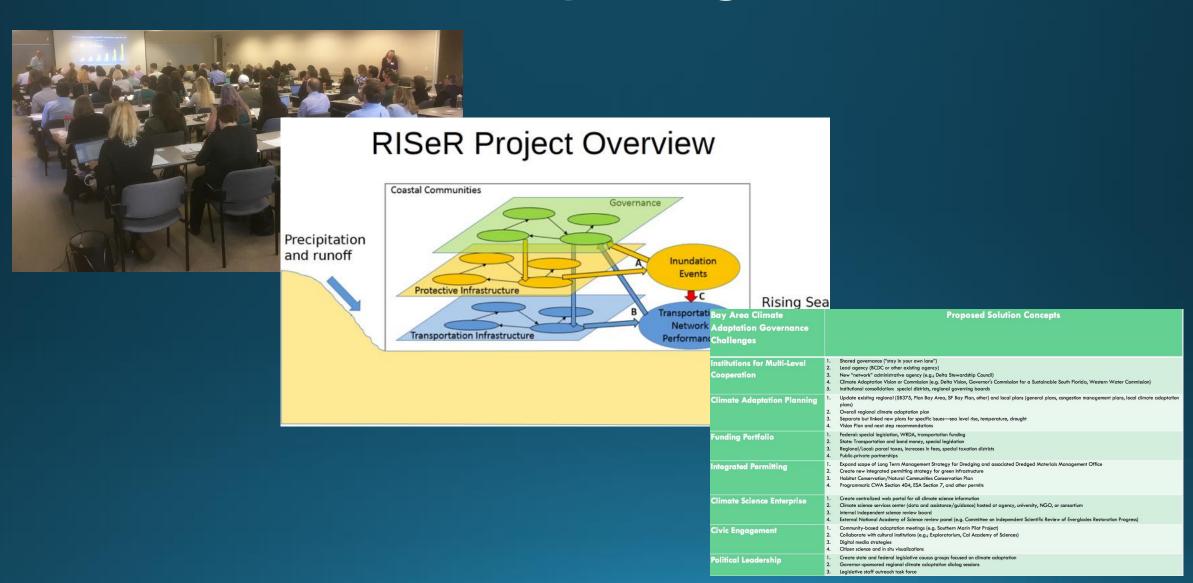


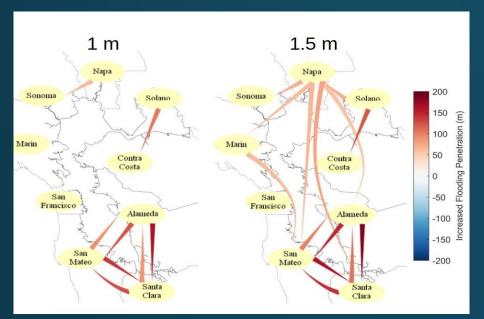




### RBD: Bay Area Challenge

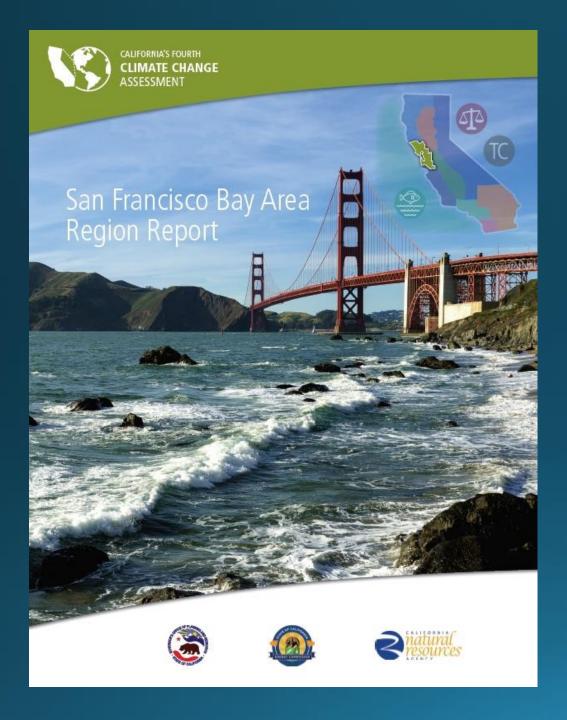
#### RISeR SF Bay — Regionalism



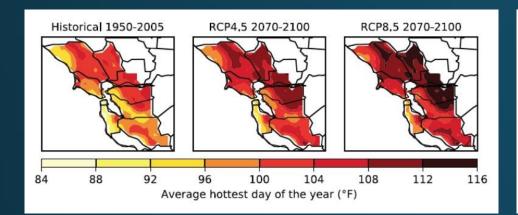


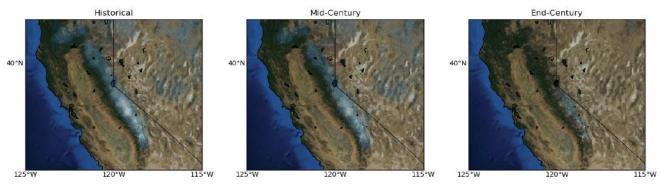


#### RISeR SF Bay



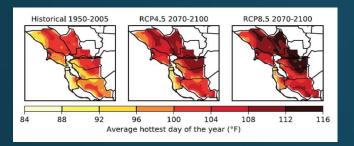
- I. Regional Climate Science
- II. Impacts on Social Systems & Built Environment
- III. Impacts on Natural & Managed Resource Systems





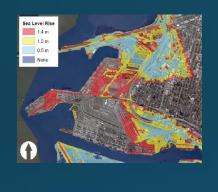


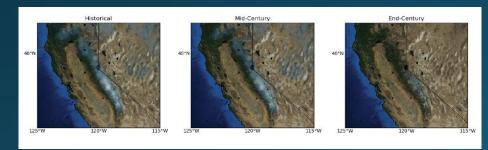
HAZARD	CLIMATE IMPACT	HEALTH IMPACT		
		Heat-Related Illness		
	Average yearly temperature to increase between 4.1 and 6.2 degrees Fahrenheit by 2100	Dehydration		
	4.1 and 0.2 degrees failternett by 2100	Heat Stroke		
	V. W. V. V. W. V.	Heat-Related Mortality		
Hank	Extreme Heat Days (over 85F) to increase by 15-40 by 2050 potentially 90 by 2100	Heart Disease		
Heat	13-40 by 2000 potentially 90 by 2100	Air Quality Effects		
		Respiratory Illness		
	1	Asthma		
	Increase in heat wave length and frequency	Allergies		
		Mental and Behavioral Health		
		Fatal and Nonfatal Injury		
Sea-level Rise	Sea-levels projected to rise between 7-15 inches by 2050, 25-46 inches by 2100	Water-borne Disease		
sea-level kise		Mental and Behavioral Stressors		
		Income Loss		
		Fatal and Nonfatal Injury		
	As precipitation levels fluctuate year-to-year, in rainy years, the frequency and severity of extreme	Water-borne Disease		
Extreme Storms		Mental and Behavioral Stressors		
	storms is predicted to increase	Strain on public health infrastructure		
		Income Loss		
		Food Insecurity		
		Malnutrition		
	As precipitation levels fluctuate year-to-year, in dry years where the high-pressure system off the coast does not dissipate, the frequency and severity of droughts will increase	Air Quality / Allergens		
D 1.		Respiratory Illness		
Drought		Asthma		
		Allergies		
		Mental and Behavioral Health		
		Income Loss		

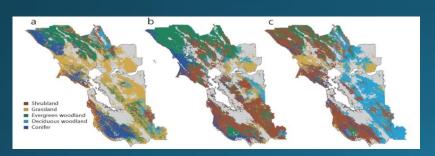




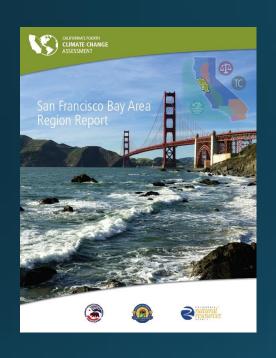
CLIMATE IMPACT	HEALTH IMPACT	
	Heat-Related Illness	
	Dehydration	
4.1 and 6.2 degrees rantement by 2100	Heat Stroke	
	Heat-Related Mortality	
	Heart Disease	
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	Respiratory Illness	
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	Mental and Behavioral Health	
	Fatal and Nonfatal Injury	
Sea-levels projected to rise between 7-15 inches	Water-borne Disease	
by 2050, 25-46 inches by 2100	Mental and Behavioral Stressors	
	Income Loss	
	Fatal and Nonfatal Injury	
As precipitation levels fluctuate year-to-year, in	Water-borne Disease	
rainy years, the frequency and severity of extreme	Mental and Behavioral Stressors	
storms is predicted to increase	Strain on public health infrastructure	
	Income Loss	
	Food Insecurity	
	Mainutrition	
As percipitation levels fluctuate year to year in	Air Quality / Allergens	
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the coast does not dissipate, the frequency and	Asthma	
severity of droughts will increase	Allergies	
	Mental and Behavioral Health	
	Income Loss	
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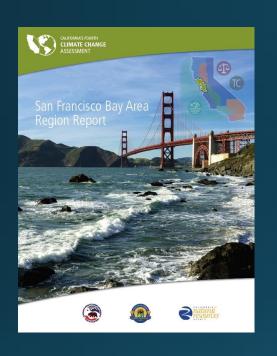


# Webinars Workshops Conferences BayCAN ARCCA

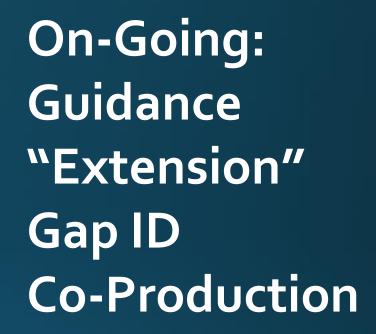


Webinars
Workshops
Conferences
BayCAN
ARCCA

On-Going:
Guidance
"Extension"
Gap ID
Co-Production







Funding Governance Regulations