COMMUNITY ENVIRONMENTAL COUNCIL'S
CLIMATE RESILIENCE ROUNDTABLE

Sea Level Rise & Flooding

Opportunity Matrix
for Climate Resilience Strategies

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(Initial Draft - Capturing Participant Input)

All King Tide photos courtesy of Santa Barbara Channelkeeper

ABOUT THE CLIMATE RESILIENCE ROUNDTABLES

In recognition of current and future climate impacts, the Community Environmental Council (CEC) is convening a series of roundtables that address climate resilience and adaptation issues in Santa Barbara County.

The roundtables are organized around the identified threats from the Fourth California Climate Change Assessment: sea level rise, heavy precipitation events, temperature increase, increased wildfire, drought, and decreasing snowpack and water supply. Together with community leaders and partners, we will examine these threats through the lens of public and mental health, social justice, economic impacts, infrastructure vulnerabilities, and natural systems and working landscapes.

The first Climate Resilience Roundtable, held in November 2019, focused on wildfire and smoke. We are now tackling sea level rise and flooding, which will cause beach and bluff erosion while exposing critical infrastructure, neighborhoods and other community assets to severe, frequent flooding.

As we move through the roundtable series a corresponding Resilience Opportunity Matrix will be developed for each topic. It is our hope that this will serve as an incubator for community-generated climate resilience initiatives and projects, and that each Opportunity Matrix will help elevate the big bold ideas and actions we can take now. By the end of the roundtable series, we will have a powerful set of tools to help us work together toward a more resilient Santa Barbara County.

ABOUT THE RESILIENCE OPPORTUNITY MATRIX

This Resilience Opportunity Matrix captures the collective output and ideas generated by 120+ participants from the Community Environmental Council's *Climate Resilience Roundtable: Sea Level Rise & Flooding* facilitated by LegacyWorks Group on March 4,2020 at Direct Relief. The CEC and LegacyWorks team did its best to capture this information verbatim from the input provided by participants. Input was captured from two different facilitated exercises that focused on gathering:

- **Big Bold Ideas** to boost community resilience to sea level rise and flooding
- **15% Solutions** for actions within our power, authority and resources to increase community resilience.

PROJECT SUPPORTERS

Community Environmental Council 50 YEARS
BOLD CLIMATE ACTION

FUNDING SUPPORT FROM

Santa Barbara Foundation
County of Santa Barbara Auditor-Controller
Coastal Conservancy
James S. Bower Foundation
Sea Forward

IN-KIND SUPPORT PROVIDED BY

Direct Relief
LegacyWorks group

https://www.cecsb.org/crr

BIG BOLD IDEAS

The first section or 'worksheet' of the document captures the Big Bold Ideas participants offered up in the last exercise on March 4. These are listed in order of the crowd-sourced score that each idea received during the exercise. The maximum score was 25 with five different participants scoring each idea on a 1-5 scale. In cases where ideas received more than 5 votes we normalized those scores by taking an average of the scores and multiplying by 5. As a result some projects have a score that is not an even number. The number in the first column corresponds to its overall rank based on those scores.

This matrix includes some initial draft "impact areas" that we dropped in as a starting point, drawing from the input and discsusions on March 4. One possible next step is to rank top projects for their impact within these impact areas, though that's not necessary given the initial crowd-sourced scoring.

15% SOLUTIONS

The second worksheet includes all the responses to the prompt for 15% Solutions - actions participants can take right now within their power, authority and resources to increase community resilience. We entered this data as it was shared, with multiple ideas that were written by a participant on a single large post it entered here in a single cell. The ideas are sorted by table number 1-14 (second column). Reviewing these shines a light on how participants saw the actions available to them and what topics were prominent at a given table. If valuable, we could duplicate this sheet and break each idea out into a separate cell, thereby making it possible to assess the relative frequency/abundance of different actions.

BIG BOLD IDEAS CATEGORIZED

The second worksheet includes initial draft categorizations (Column E), and the ideas are sorted according to this column in order to CLUSTER ideas that are similar into groups. Reviewing this worksheet provides a sense of which categories were most important to participants. We used our judgment to put each idea in a category that seemed appropriate, though we recognize that projects could be categorized many different ways and that other people might categorize things differently. Typically, in a process like this we expect categorizations to evolve and change if we or a subset of participants elect to advance the categorization and prioritization of projects using this tool. Note that many ideas are actually composites of multiple ideas, so those ideas could fall in more than one category. Below is a chart showing the categories and number of ideas and average score for those ideas, with the most ideas for Education/Outreach and the highest scores for Nature Based Solutions, Climate Mitigation and Managed Retreat/Adaptation.

Category	# of Ideas	Average Score	Total Score
Analysis/ Prioritization	11	18.27	201
Climate Mitigation	7	**19.86**	139
Education/ Outreach	21	17	363
Managed Retreat/ Adaptation	15	**19**	278
Nature Based Solutions	9	**20.67**	186
Personal Actions	5	17.8	89
Policy	11	15.82	174
Sediment Management	5	17.8	89

GIVE FEEDBACK ON THE OPPORTUNITY MATRIX

If you'd like to add comments, questions or suggestions to the Resilience Opportunity Matrix, we invite you to go to:
https://bit.ly/slr-opp-matrix and provide your thoughts. Your input will help guide us in refining and organizing this solutions-focused document for our community to use and reference.

More information about the Opportunity Matrix is available at the end of this document or by contacting LegacyWorks at:
inquire@legacyworksgroup.com or
www.legacyworksgroup.com

About the COMMUNITY ENVIRONMENTAL COUNCIL (CEC)

Since 1970, CEC has incubated and innovated real life solutions that directly impact climate change. Our programs lead to clean vehicles, solar energy, resilient food systems and reduction of single-use plastic. We educate and activate the community by producing events like the annual Santa Barbara Earth Day Festival.

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● Indicates High Impact
○ Indicates Medium Impact

#	Project or Initiative	Crowd Score (Out of 25)	Draft Category	Community Driven Impact Areas: Planning + Preparation	Structure Hardening	Land Use	Community Outreach	Education and SLR Literacy	Vulnerable Communities	Nature-Based Solutions	Community Cohesion	Place Knowledge	Coastal Resilience	Collaboration Capacity	Training	Readiness + Systems Change Potential: Partners	Capacity	Champions	Funding Sources	Relative Cost	Term (Immediate, Near, Medium, Long)
0	Example: Create a new park along the creek			○			●	●	●		○					TRLT, FTR,		Land Trust ED	County govt has a fund	$$$$	
1	Make Virtual Reality (VR) simulations of iconic SB County waterfront areas; make available at public events, points of interest (Earth Day, Fairs, Concerts)	25	education/outreach	These columns come into play in future steps of the prioritization process.																	
2	Develop sensitive community outreach to help people understand the impacts (VR, artwork, film, community forums) - beyond science	24	education/outreach																		
3	Make sustainable practices more feasible, i.e. renewable energy projects	23	climate mitigation																		
4	Requirement for hardening utility locations and standards for new development and redevelopment	23	managed adaptation/retreat																		
5	Comprehensive regional plan for managed retreat, seawall and other adaptation strategies - implement or rebuild as hazards arise	23	managed retreat/adaptation																		
6	Sediment management program & coastal habitat restoration that creates multi-benefits for nature, community and climate mitigation	23	nature based-solutions																		
7	Map socially vulnerable neighborhoods with overlays of projected climate impacts to drive priority projects	22	analysis/prioritization																		
8	Community microgrid starting with community facilities to drive resilience for the region	22	climate mitigation																		
9	Joint education campaign in partnership with all coast cities/communities	22	education/outreach																		
10	Series of art installations along projected SLR line - support message of hope, grief, community, support of nature	22	education/outreach																		
11	Managed relocation of coastal infrastructure and development	22	managed retreat/adaptation																		
12	Defensive coastal adaptive management	22	managed retreat/adaptation																		
13	Green infrastructure master plan that recognizes the function and value of ecosystems + enhancement	22	nature based solutions																		
14	Identify personal actions people can take	22	personal actions																		
15	Use of Mutual Aid Response model (i.e., fires, public works, disaster) to support minimum wage workers displaced during disruption	22	policy																		
16	Enhanced regional sediment management and coordination between agencies for sources, funding, permitting	22	sediment management																		
17	Prioritization based on community values (open space, coastal resources, roads, access, infrastructure)	21	analysis/prioritization																		
18	Stop oil industry and put resources into renewable energy	21	climate mitigation																		
19	Plan and fund rebuilding differently after disaster - don't rebuild in the same way; get out of the 'stupid zone'	21	managed retreat/adaptation																		
20	Fund/implement nature-based solutions (best/lowest cost ways to begin adaptation)	21	nature based solutions																		

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#	Project or Initiative	Crowd Score (Out of 25)	Draft Category	Community Driven Impact Areas												Readiness + Systems Change Potential					
				Planning + Preparation	Structure Hardening	Land Use	Community Outreach	Education and SLR Literacy	Vulnerable Communities	Nature-Based Solutions	Community Cohesion	Place Knowledge	Coastal Resilience	Collaboration Capacity	Training	Partners	Capacity	Champions	Funding Sources	Relative Cost	Term Immediate Near Medium Long
21	Ecosystem restoration	21	nature based solutions																		
22	Facilitate/plan/implement collaborative green infrastructure initiatives (create wetlands, dunes, green buffers, beach retreat zones)	21	nature based solutions																		
23	Create/support living shorelines	21	nature based solutions																		
24	Determine how/where shorelines can retreat	20	analysis/prioritization																		
25	Create multidisciplinary team to do needs/strength assessment on community resilience based on ecological/infrastructure/human needs; map redundancy and diversity of resources for each level	20	analysis/prioritization																		
26	Rapid fossil fuel reduction	20	climate mitigation																		
27	Federally funded public works projects (support jobs and other resources) - i.e. New Green Deal	20	managed adaptation/retreat																		
28	Focus on critical infrastructure (harden, protect, move) as biggest impact on largest numbers of people	20	managed adaptation/retreat																		
29	Identify funding sources for infrastructure adaptation (i.e, bed tax, oil tax, etc.)	20	managed adaptation/retreat																		
30	Coastal retreat	20	nature based solutions																		
31	Join a regional climate change collaboration to advocate for solutions	20	policy																		
32	Build consensus on which assets and infrastructure to protect	19	analysis/prioritization																		
33	Legalize composting toilets in city/county to reduce demand on desalination and wastewaste treatment	19	climate mitigation																		
34	Build community coalition to develop local leadership for SLR outreach and learning + identify solutions and preferences	19	education/outreach																		
35	Create a VR campaign for SB County to be use in public ventures that educate children (MOXI, SM Children's museum)	19	education/outreach																		
36	Actively recruit an army of environmental 'warriors' who will fight to help the environment	19	education/outreach																		
37	Create a film to communicate the reality of SLR and strategies for resilience that empowers/motivates and calls to action	19	education/outreach																		
38	Board of Supervisors require County Depts. to consider climate adaptation needs for county facilities in annual dept. budget & capital plans	19	managed adaptation/retreat																		
39	Move the waste water treatment plant away form the coast	19	managed adaptation/retreat																		
40	Re-establish kelp forests to reduce GHG; reduced gov. restrictions on sediment particle size in surf zone	19	nature based solutions																		

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#	Project or Initiative	Crowd Score (Out of 25)	Draft Category	Community Driven Impact Areas												Readiness + Systems Change Potential					
				Planning + Preparation	Structure Hardening	Land Use	Community Outreach	Education and SLR Literacy	Vulnerable Communities	Nature-Based Solutions	Community Cohesion	Place Knowledge	Coastal Resilience	Collaboration Capacity	Training	Partners	Capacity	Champions	Funding Sources	Relative Cost	Term Immediate Near Medium Long
41	Review building codes/polices and make changes to reflect SLR	19	policy																		
42	Regional Caltrans adaptation study with multiple resilience goals - for transportation/coastal habitat and community equity	18	analysis/prioritization																		
43	Rapidly & heavy investment in solar (rooftop, car parks, etc.) to move away from fossil fuels	18	climate mitigation																		
44	Create a day of SLR action - include government, nonprofits, students, industry, commercial; agree on 3 goals	18	education/outreach																		
45	Change definition of climate resilience (from bouncing back to bouncing forward); eradicate inequity and root causes of climate crisis	18	education/outreach																		
46	Bond for coastal property acquisition	18	managed adaptation/retreat																		
47	Foster new industries connected to the sea (i.e., aquaculture)	18	nature based solutions																		
48	Adopt lifestyle that lowers individual carbon footprint; support industries that align with values	18	personal actions																		
49	Encourage SLR preparedness plans for children, families, individuals for 2030; think of personal impacts	18	personal actions																		
50	Create a regional sediment management program and reconnect 'sand-sheds'; create partnerships w/gov., local agencies; lobby for funding	18	sediment management																		
51	Sand-shed management and education	18	sediment management																		
52	Regional monitoring of SLR, sand movement and economic resources	17	analysis/prioritization																		
53	Collaborate on solutions and modeling of strategies to assess/compare impact (i.e., sea wall impact down coast) to select best solutions	17	analysis/prioritization																		
54	Leverage local/regional scientific resources and funding for plan for resilience	17	analysis/prioritization																		
55	Create resource hub for the community to help education/disseminate ideas	17	education/outreach																		
56	Education, messaging using new tools (i.e., VR)	17	education/outreach																		
57	Immediately develop law(s) requiring incremental change	17	policy																		
58	Identify infrastructure and resources to prioritize to protect and/or relocate	16	analysis/prioritization																		
59	Renewable energy use to reduce GHG	16	climate mitigation																		
60	Central hub for data (GIS, demographics, contacts, SLR rates, vulnerabilities)	16	education/outreach																		
61	Educate visitors to institutions about SLR and climate resilience; staff capacity to do this	16	education/outreach																		
62	"Put Climate First" campaign with private/pubic employers, associations & schools to incorporate climate planning into their work	16	education/outreach																		

● Indicates High Impact
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#	Project or Initiative	Crowd Score (Out of 25)	Draft Category	Community Driven Impact Areas												Readiness + Systems Change Potential					
				Planning + Preparation	Structure Hardening	Land Use	Community Outreach	Education and SLR Literacy	Vulnerable Communities	Nature-Based Solutions	Community Cohesion	Place Knowledge	Coastal Resilience	Collaboration Capacity	Training	Partners	Capacity	Champions	Funding Sources	Relative Cost	Term Immediate Near Medium Long
63	Get actively involved	16	personal actions																		
64	A regional planning and funding agency	16	policy																		
65	Regional sediment program using railroads to distribute sediments along coast; inventory sediment stockpiles and sorting facilities to maximize and clean sediment	16	sediment management																		
66	Educate religious organizations to become climate justice leaders and inspire action/solutions	15	education/outreach																		
67	City/County collaboration on SLR plans for open space, infrastructure, retreat	15	managed adaptation/retreat																		
68	Change structure/framework of 'managed retreat' and make people first (focus on most vulnerable and close gaps in safety net)	15	managed adaptation/retreat																		
69	Be willing to compromise	15	personal actions																		
70	Create community governance network to produce an integrated process for self-governance focused on county values	15	policy																		
71	Use dredged sand to fill-in lowland areas in Santa Barbara	15	sediment management																		
72	Identify alternative places/land and when/how to move (structures/infrastructure)	14	analysis/prioritization																		
73	Fully value Calif. public beach resources	14	education/outreach																		
74	Collaborative and interactive education campaign	14	education/outreach																		
75	Ideas and funding for regional and state leadership	14	policy																		
76	Consistent policy direction (from Calif. Coastal Commission)	14	policy																		
77	Command and control -- planning and development and human resources	14	policy																		
78	Find a fiscal 'angel' (Bloomberg, Bezos, etc.) to make SB ground zero for creative & impactful approaches to SLR	13	managed adaptation/retreat																		
79	Develop new regional agency (similar to SBCAG) to coordinate/implement/fund priority adaptation strategies	13	policy																		
80	Connect and education through a one platform forum	12	education/outreach																		
81	Citywide SLR art line to illustrate SLR impacts	11	education/outreach																		
82	Create fictional news documentary of SLR/storm events	10	education/outreach																		
83	adopt consistent SLR guidance and hazard assessments	10	policy																		
84	Infrastructure monorail	8	managed adaptation/retreat																		

THIS WORKSHEET IS SORTED BY DRAFT CATEGORIES IN COLUMN E (SELECT ROWS 5 - 107) > DATA MENU > SORT BY DATA RANGE > SELECT COL E)

#	Project Name	Crowd Score (Out of 25)	Categorization (1st Draft)	Secondary Category	Next Steps >	Existing Santa Barbara County Programs in This Arena	Core Needs in This Arena
7	Map socially vulnerable neighborhoods with overlays of projected climate impacts to drive priority projects	22	analysis/prioritization	social vulnerability	These columns come into play in future steps of the prioritization process.		
17	Prioritization based on community values (open space, coastal resources, roads, access, infrastructure)	21	analysis/prioritization	community values based			
24	Determine how/where shorelines can retreat	20	analysis/prioritization	managed adaptation/retreat			
25	Create multidisciplinary team to do needs/strength assessment on community resilience based on ecological/infrastructure/human needs; map redundancy and diversity of resources for each level	20	analysis/prioritization	community resilience needs/strength assessment			
32	Build consensus on which assets and infrastructure to protect	19	analysis/prioritization	consensus building			
42	Regional Caltrans adaptation study with multiple resilience goals - for transportation/coastal habitat and community equity	18	analysis/prioritization	regional planning/multi-benefit			
52	Regional monitoring of SLR, sand movement and economic resources	17	analysis/prioritization				
53	Collaborate on solutions and modeling of strategies to assess/compare impact (i.e., sea wall impact down coast) to select best solutions	17	analysis/prioritization				
54	Leverage local/regional scientific resources and funding for plan for resilience	17	analysis/prioritization	regional funding/resource sharing			
58	Identify infrastructure and resources to prioritize to protect and/or relocate	16	analysis/prioritization	managed adaptation/retreat			
72	Identify alternative places/land and when/how to move (structures/infrastructure)	14	analysis/prioritization	managed adaptation/retreat			
3	Make sustainable practices more feasible, i.e. renewable energy projects	23	climate mitigation	rapid permitting			
8	Community microgrid starting with community facilities to drive resilience for the region	22	climate mitigation				
18	Stop oil industry and put resources into renewable energy	21	climate mitigation				
26	Rapid fossil fuel reduction	20	climate mitigation				
33	Legalize composting toilets in city/county to reduce demand on desalination and wastewaste treatment	19	climate mitigation	water demand reduction			

43	Rapidly & heavy investment in solar (rooftop, car parks, etc.) to move away from fossil fuels	18	climate mitigation		
59	Renewable energy use to reduce GHG	16	climate mitigation		
1	Make VR simulations of iconic SB County waterfront areas; make available at public events, points of interest (Earth Day, Fairs, Concerts)	25	education/outreach	VR	
2	Develop sensitive community outreach to help people understand the impacts (VR, artwork, film, community forums) - beyond science	24	education/outreach	art	
9	Joint education campaign in partnership with all coast cities/communities	22	education/outreach		
10	Series of art installations along projected SLR line - support message of hope, grief, community, support of nature	22	education/outreach	art	
34	Build community coalition to develop local leadership for SLR outreach and learning + identify solutions and preferences	19	education/outreach	leadership development	
35	Create a VR campaign for SB County to be use in public ventures that educate children (MOXI, SM Children's museum)	19	education/outreach	VR	
36	Actively recruit an army of environmental 'warriors' who will fight to help the environment	19	education/outreach		
37	Create a film to communicate the reality of SLR and strategies for resilience that empowers/motivates and calls to action	19	education/outreach	multimedia	
44	Create a day of SLR action - include government, nonprofits, students, industry, commercial; agree on 3 goals	18	education/outreach		
45	Change definition of climate resilience (from bouncing back to bouncing forward); eradicate inequity and root causes of climate crisis	18	education/outreach	equity	
55	Create resource hub for the community to help education/disseminate ideas	17	education/outreach	resource hub/education	
56	Education, messaging using new tools (i.e., VR)	17	education/outreach	VR	
60	Central hub for data (GIS, demographics, contacts, SLR rates, vulnerabilities)	16	education/outreach	central hub	
61	Educate visitors to institutions about SLR and climate resilience; staff capacity to do this	16	education/outreach		
62	"Put Climate First" campaign with private/pubic employers, associations & schools to incorporate climate planning into their work	16	education/outreach	Put Climate First campaign	
66	Educate religious organizations to become climate justice leaders and inspire action/solutions	15	education/outreach	education/religion/climate justice/advocacy	
73	Fully value Calif. public beach resources	14	education/outreach		
74	Collaborative and interactive education campaign	14	education/outreach		
80	Connect and education through a one platform forum	12	education/outreach	hub	
81	Citywide SLR art line to illustrate SLR impacts	11	education/outreach	art	
82	Create fictional news documentary of SLR/storm events	10	education/outreach		

4	Requirement for hardening utility locations and standards for new development and redevelopment	23	managed adaptation/retreat	infrastructure hardening	
27	Federally funded public works projects (support jobs and other resources) - i.e. New Green Deal	20	managed adaptation/retreat	New Green Deal	
28	Focus on critical infrastructure (harden, protect, move) as biggest impact on largest numbers of people	20	managed adaptation/retreat	hardening	
29	Identify funding sources for infrastructure adaptation (i.e, bed tax, oil tax, etc.)	20	managed adaptation/retreat	funding	
38	Board of Supervisors require County Depts. to consider climate adaptation needs for county facilities in annual dept. budget & capital plans	19	managed adaptation/retreat		
39	Move the waste water treatment plant away form the coast	19	managed adaptation/retreat		
46	Bond for coastal property acquisition	18	managed adaptation/retreat	land acquisition	
67	City/County collaboration on SLR plans for open space, infrastructure, retreat	15	managed adaptation/retreat	cross jurisdictional	
68	Change structure/framework of 'managed retreat' and make people first (focus on most vulnerable and close gaps in safety net)	15	managed adaptation/retreat	vulnerable populations	
78	Find a fiscal 'angel' (Bloomberg, Bezos, etc.) to make SB ground zero for creative & impactful approaches to SLR	13	managed adaptation/retreat	funding	
84	Infrastructure monorail	8	managed adaptation/retreat		
5	Comprehensive regional plan for managed retreat, seawall and other adaptation strategies - implement or rebuild as hazards arise	23	managed retreat/adaptation		
11	Managed relocation of coastal infrastructure and development	22	managed retreat/adaptation		
12	Defensive coastal adaptive management	22	managed retreat/adaptation		
19	Plan and fund rebuilding differently after disaster - don't rebuild in the same way; get out of the 'stupid zone'	21	managed retreat/adaptation	planning/post-disaster rebuilding	
13	Green infrastructure master plan that recognizes the function and value of ecosystems + enhancement	22	nature based solutions	green infrastructure master plan	
20	Fund/implement nature-based solutions (best/lowest cost ways to begin adaptation)	21	nature based solutions		
21	Ecosystem restoration	21	nature based solutions		
22	Facilitate/plan/implement collaborative green infrastructure initiatives (create wetlands, dunes, green buffers, beach retreat zones)	21	nature based solutions	facilitated planning and implementation	
23	Create/support living shorelines	21	nature based solutions		
30	Coastal retreat	20	nature based solutions		
40	Re-establish kelp forests to reduce GHG; reduced gov. restrictions on sediment particle size in surf zone	19	nature based solutions		
47	Foster new industries connected to the sea (i.e., aquaculture)	18	nature based solutions	social enterprise	
6	Sediment management program & coastal habitat restoration that creates multi-benefits for nature, community and climate mitigation	23	nature based-solutions	sediment mgmt/multi-benefit	
14	Identify personal actions people can take	22	personal actions	behavior change	
48	Adopt lifestyle that lowers individual carbon footprint; support industries that align with values	18	personal actions		
49	Encourage SLR preparedness plans for children, families, individuals for 2030; think of personal impacts	18	personal actions		
63	Get actively involved	16	personal actions		
69	Be willing to compromise	15	personal actions		
15	Use of Mutual Aid Response model (i.e., fires, public works, disaster) to support minimum wage workers displaced during disruption	22	policy	collaboration	

31	Join a regional climate change collaboration to advocate for solutions	20	policy		
41	Review building codes/polices and make changes to reflect SLR	19	policy	regional planning/funding	
57	Immediately develop law(s) requiring incremental change	17	policy	network, self-governance	
64	A regional planning and funding agency	16	policy		
70	Create community governance network to produce an integrated process for self-governance focused on county values	15	policy		
75	Ideas and funding for regional and state leadership	14	policy		
76	Consistent policy direction (from Calif. Coastal Commission)	14	policy		
77	Command and control -- planning and development and human resources	14	policy		
79	Develop new regional agency (similar to SBCAG) to coordinate/implement/fund priority adaptation strategies	13	policy	disaster relief funding for workers	
83	adopt consistent SLR guidance and hazard assessments	10	policy	building codes	
16	Enhanced regional sediment management and coordination between agencies for sources, funding, permitting	22	sediment management	agency coord.	
50	Create a regional sediment management program and reconnect 'sand-sheds'; create partnerships w/gov., local agencies; lobby for funding	18	sediment management	agency coord./advocacy	
51	Sand-shed management and education	18	sediment management		
65	Regional sediment program using railroads to distribute sediments along coast; inventory sediment stockpiles and sorting facilities to maximize and clean sediment	16	sediment management		
71	Use dredged sand to fill-in lowland areas in Santa Barbara	15	sediment management		

● Indicates High Impact
● Indicates Impact

Community Driven Impact Areas

Readiness Factors

#	Table	15% Solutions (Readily Accessible Actions)	Planning + Preparation	Structure Hardening	Land Use	Community Outreach	Education and SLR Literacy	Vulnerable Communities	Nature-Based Solutions	Community Cohesion	Place Knowledge	Coastal Resilience	Collaboration Capacity	Training	Partners	Capacity	Champions	Funding Sources	Relative Cost	Term Immediate Near Medium Long
0	0	Example: Create a new park along the creek	●			●	●	●		●					TRLT, FTR,		Land Trust ED	County govt has a fund	$$$$	
1	1	More public engagement (community meetings, Earth Day outreach, living shoreline education)	These columns come into play in future steps of the prioritization process.																	
2	1	Join the SB Regional Climate Collaborative Steering Committee																		
3	1	Help bring small businesses to the table that are focused on mitigation of climate change																		
4	1	Sustainability technologies - marine desal, solar solutions, ocean energy																		
5	1	Collaboration, education, outreach																		
6	1	Educate about SLR through the library systems, especially those use by most vulnerable populations																		
7	1	Get involved in union re: preparing for fiscal impacts from disasters																		
8	1	Join SLR RCC subcommittee																		
9	1	Share info from roundtable with co-workers																		
10	1	Add sediment supply management policy to airport and Goleta Slough LCP																		
11	1	Update airport business continuity plan to include recovery strategies post-flood																		
12	1	Share info with others working on solutions and listen/engage with community to hear specific concerns and what actions/solutions to prioritize																		
13	1	Participate in collaborative subcommittee																		
14	1	Better understand groundwater implications (agriculture)																		
15	1	Continue to push for natural systems & green infrastructure																		
16	2	Communication and education integration																		
17	2	Providing persuasive information and optimistic solutions																		
18	2	Promote more consideration of climate/environmental justice in work on collaborative solutions																		
19	2	15% : time + relationships +access to decision-makers																		
20	2	Request City Council to make a video simulation (virtual reality)																		
21	2	Share story of North Campus Open Space restoration and link it to climate change																		

22	2	Provide advice about restoration and lead other projects																		
23	3	Find out how to obtain virtual reality																		
24	3	Collect and share personal stories, including the emotional impact of sea level rise/storm surge																		
25	3	Build a coalition of ocean entrepreneurs to advance policies and plans, enabling new sustainable uses of our coastline																		
26	3	Educate people about the benefits of artificial reefs and returning local sediment (in the extent of SLR impacts affecting the community over the next 50 years)																		
27	3	Help craft the meta-story how SLR, storm surge, drought, wildfire are all interconnected																		
28	3	Talk with friends, family, organizations now																		
29	3	Look for areas of common concern																		
30	3	If not you, yours are affected by climate change/SLR																		
31	3	Begin on resume discussions across state agencies and local partners on SLR planning																		
32	3	Consistently uplift voices that are often left out of the table into important discussions																		
33	3	ID critical infrastructure																		
34	3	Investigate use/development of mutual AID response mode in order to support minimum wage workers during a disruption																		
35	3	Change every day lives by choosing greener alternatives and talking about SLR to keep the issue in public forefront																		
36	4	Find more effective ways to communicate risk through different mediums and psychological approaches																		
37	4	Organize artists and poets to illustrate and communicate SLR																		
38	4	Share powerful communications/education/outreach materials with others																		
39	4	Include the topic of SLR in film series on water that is already developing																		
40	4	Intersect the fine-related work for the regional priority plan and consider fine/sediment/beach health																		
41	4	Develop tools, build partnerships, and identify strong community leaders																		
42	4	Communicate the issue of SLR to the public in a way that is empowering and motivates positive action (film, social media, outreach, education)																		
43	4	Write about it, tell stories, try to connect individual behaviors to climate change and incorporate the artistic perspectives																		
44	4	Participate in local studies at GSD (Goleta Sanitary Dist.)																		
45	4	Create community conversations and positive voices																		

46	5	Seek grant funding or make personal donations																		
47	5	Review and update our agencies sustainability plan																		
48	5	Make sure to elect leaders that understand and advocate for plans and policy																		
49	5	Demonstrations, networking, mentoring, and outreach																		
50	5	Collaborate with other organizations to strategize what we can do																		
51	5	Increase involvement, incentivize participation, expand the scope																		
52	5	Start SB County climate vulnerability assessment(spring 2020)																		
53	5	Get more coastal science out in a way that is communicable to the public																		
54	5	Raise awareness about projected local impacts, solutions, and opportunities to get involved																		
55	5	Stop beach grooming and give the shoreline room to move																		
56	6	Conserve water and home/business energy																		
57	6	Apply for adaptation planning grants																		
58	6	Link the APCD into SBco climate collaborative																		
59	6	Join the county collaborate to elevate the nonprofit sector voice																		
60	6	Asses the potential risk of SLR and prepare for it																		
61	6	Ensure future assessors are resilient and consider the impacts of SLR																		
62	6	Help implement policies based on science																		
63	6	Change lifestyles on a personal level- food, energy use, water use																		
64	6	Virtual reality at Moxi																		
65	6	Educate with virtual reality and 3D images for public sharing																		
66	6	More coastal restoration																		
67	6	Transportation																		
68	6	Grant program requirements of inclusive dialogue around climate change/ impact mitigation and adaptation																		
69	6	Discuss with others (even internationally)																		
70	6	Talk about the science and impacts more with friends and family																		
71	6	Inform the [public and increase understanding of the issue																		
72	6	Education, messaging, and participation																		
73	7	Education people around us																		
74	7	Consume less goods, buy local goods, reduce carbon emissions																		
75	7	Map vulnerable populations																		
76	7	Focus on school age kids who can impact their family and friends																		
77	7	Invest in the next generation																		

78	7	Education - peer to peer communication, mandate education with school systems on SLR																	
79	7	Carbon sequestering efforts - plant a tree																	
80	7	Power of an event																	
81	8	Speak more frequently about the inevitability of impacts																	
82	8	Package info and stories from this round table and host separate events with target audiences (ie. Real estate Agents)																	
83	8	Setting up funds from bed tax and oil money to an infrastructure fund - Advance and finish the Marine Resource Legacy Fund to get .5-.75 billion into an infrastructure fund																	
84	8	Increase massively the public education component																	
85	8	Use more virtual reality to help the public understand																	
86	8	Look at community resilience from the ecological, infrastructure, and human standpoint																	
87	8	Outline social costs of more dramatic accommodations																	
88	9	Each section of local government set up a committee to review local laws, policy, and practice in a disaster context - evaluate what would need to be adjusted to support human welfare																	
89	9	Policies in mitigation and adaptation																	
90	9	Get involved with the SBC Climate Collaborative																	
91	9	Network																	
92	9	Sediment management - pull together a project to move forward practical sediment management and coastal dune/watershed restoration																	
93	9	Meet with county and regional agencies in central coast to ask what needs are and how state agencies can work better to meet the needs																	
94	9	Work with planners to find/synthesis options and solutions																	
95	9	Education, policy development, and facilitation of dialogue																	
96	9	Speak to elected officials - letters to editors																	
97	9	Talk to neighbors and friends																	
98	9	Better decision making regarding consumption																	
99	9	Talk about SLR and raise awareness about the severity of the local threat																	
100	9	Share success stories - build hope																	
101	9	Educate(identify issues), engage (discuss issues/solutions), and Facilitate (provide info and guide to resources)																	
102	10	Create a space from emotional relief so that people can move onto making logical decisions																	
103	10	Educate the future decision makers																	

104	10	Bring back the "Light Blue Line" to draw attention to sea change																		
105	10	Increase prominence of SLR in Bren School curriculum																		
106	10	Communication - LTE's/OpEds, public comment, peer to peer conversation																		
107	10	Speak with family and friends about the inevitable threat																		
108	10	Learn more about what others are doing																		
109	10	Don't rush into premature solutions, begin with community meetings to sort out priorities and needs																		
110	10	Walk more and drive less																		
111	11	Self care and personal resilience																		
112	11	Public education and outreach																		
113	11	Stakeholder involvement and coordination																		
114	11	Lobby local and state decision-making for more coordination and funding																		
115	11	Join Sb Co. Climate Collaboration																		
116	11	Learn to work well with everyone																		
117	11	Make SLR information more available - include different languages																		
	11	Substantive and resources collaboration, especially with social and environmental justice groups (not tokenization)																		
	11	Begin conversation with people/sectors you don't recognize as being impacted by SLR (raise awareness within your network)																		
118	11	Bring a multidisciplinary view to the table (social science, psychology, arts,economics, technology, science, etc)																		
119	11	Build an SLR leadership council for each jurisdiction																		
120	11	Create partnerships, collaborative planning, get involved with SBC Climate Collab																		
121	11	Bring SLR visuals to Sb Earth Day and local beaches to turn fun facts into an interactive experience - Santa Maria, SB, Santa Monica, etc																		
122	11	Get strong leaders and great communicators																		
123	11	Show the economic cost of not acting now on SLR																		
124	12	Encourage more studies of vulnerabilities to critical infrastructure - public works																		
125	12	Advocate for solar energy, electric cars, composting, ditching plastic (next step would be batteries for storage)																		
126	12	Discretion and Freedom to act - continue with CEC and Climate Reality, but also begin new partnerships																		
127	12	Talk about positive changes																		
128	12	Stop the pollution that drives climate change																		
129	12	Clean Coalition - accelerate the transition to renewable energy and a modern grid, including the transition to electric transportation																		

130	12	Shift to renewables and reduce your carbon footprint																	
131	12	Educational programs addressing the emotional impact of dealing with climate change																	
132	12	Build up skills that can foster motivation and resilience in climate action in youth																	
133	12	Talk about current successes about species coming back and restoration efforts to give hope																	
134	12	Become a better science communicator																	
135	12	Develop planning tools - financing and implementing																	
136	13	Develop language on SLR to communication with others - talking points																	
137	13	Participate in local government process-making sure they include adaptation and mitigation strategies																	
138	13	Education local and global communities at the Sea Center																	
139	13	Educate the elected officials																	
140	13	Create community conversations																	
141	13	Harden critical infrastructure																	
142	13	Work across silos																	
143	13	Talk to people not in the sustainability field about SLR																	
144	13	Cultivate financial support and volunteer with nonprofits working in the space																	
145	13	Educate officials and other department staff throughout agency																	
146	13	Encourage alternative transportation by developing incentives for employees																	
147	13	Develop a SLR subcommittee as part of climate collaborative to exchange info amongst jurisdictions																	
148	13	Connect other organized workers(unions) to the issue - invite them to a committee, roundtable meeting																	
149	13	Talk to others																	
150	13	Implement an education piece within my union's membership																	
151	13	Create a climate action plan																	
152	14	Foster new industries that align with environmental and economic benefits																	
153	14	Don't forget mitigation that can reduce long-run extent of SLR/Flooding																	
154	14	Reduce CO2 emissions though personal choices and actions																	
155	14	Advocate/communicate/participate in community and government processes to make meaningful action																	
156	14	Advocate for regular and normalized sediment deposit at public beaches																	
157	14	Identify areas of importance and direct funding to protect it																	
158	14	Public education of the lifecycle of beaches																	

159	14	Increase understanding of how we have gotten to where we are and the changes we will need to prepare for																		
160	14	Share information - volunteer, inspire stewardship to highlight what we value																		
161	14	Carpool																		
162	14	Educate yourself through volunteer work																		
163	14	Begin planning for the future now - where to relocate and why																		
164	14	Share as much knowledge as you can																		
165	14	Educate yourself and others, advocate public policies to decision makers, and eventually implement solutions																		