

Instructions	<p>1. Please add the names of the group members to the column below.</p> <p>2. For the first breakout discussion, please review Goals 1 and their objectives. In the second breakout, please review Goal 2.</p> <p>3. In column B indicate if the goal should be kept as is (K) deleted (D) or edited (E).</p> <p>4. Suggestions for revisions can be added in the line below the corresponding goal or objective.</p> <p>5. Additional Objectives and Actions can be added at the bottom of each goal section.</p> <p>6. If time permits please take time to review the actions and suggest revisions as needed.</p>		
Group Members:	Group 1		
Overarching Aspirational Goal	Indicate if the goal should be kept as is (K) deleted (D) or edited (E).	<i>The region supports resilient communities and neighborhoods while managing growth and preserving and protecting natural resources.</i>	
Section Goal		Enhance the capacity of natural systems and infrastructure for climate adaptation	
			Responsible Organizations
Goal 1		Thriving habitats and abundant wildlife	
Objective 1.1	E	Improve the ability of bay habitats and ecosystems to adapt to a changing climate. Change to COASTAL habitats	
Action 1.1.1	K	Assess the vulnerability of critical coastal habitats to sea level rise and support adaptation strategies that promote the long-term resiliency and diversity of these habitats.	TBEP (lead), SWFWMD, USFWS, local governments
Action 1.1.2	K	Continue to implement Critical Coastal Habitat Assessment monitoring at permanent transects to track long-term changes from climate change and other stressors to coastal habitats and species.	TBEP (lead), local government and agency partners
Action 1.1.3	K	Implement the Tampa Bay Habitat Master Plan	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Action 1.1.4	K	Continue to identify carbon sequestration benefits and economic incentives to preserve coastal habitats through voluntary carbon markets or other mechanisms. Assist land management agencies in developing site management plans that maximize carbon sequestration benefits of appropriate coastal habitats held in preservation or conservation.	Restore America's Estuaries, TBEP, academic institutions, SWFWMD, local governments, FDEP
Action 1.1.5	K	Support and assist with purchase, protection and/or restoration of priority sites to serve as climate change refuges and upslope buffers for critically important habitats and species. Support adoption of land management strategies such as rolling easements, coastal construction setbacks and living shorelines.	SWFWMD, USFWS, FDEP, other state, federal and local government land acquisition programs and land trusts

Action 1.1.6	K	Enhance community understanding of the potential impacts of climate change on coastal habitats and encourage actions by state and local entities and citizens to help adapt to or mitigate effects. Develop metrics to measure citizen outreach effectiveness.	Florida Sea Grant, local government sustainability programs, TBEP, UF/IFAS Extension, St. Petersburg College Sea Level Rise Group
Action 1.1.7	K	Expand habitat for pollinators and other wildlife such as aquatic wildlife, soil invertebrates and more, by creating, restoring, and maintaining natural areas, recognizing that one third of our food supply relies on pollinators.	
Add Action?	E	Funding, Assistance to local governments, land holders, residents to help secure funding; Public and private land/partnerships; mitigate/supplement/augment hardening or habitat change;	
Objective 1.2	E	Improve or maintain water quality resulting in fishable, swimmable and drinkable water. Switch to MAINTAIN OR IMPROVE	
Action 1.2.1	K	Retain existing natural areas on shorelines whenever feasible through implementation of policies, criteria, standards, methodologies and procedures.	
Action 1.2.2	K	Implement the Tampa Bay nutrient management strategy.	TBEP (lead), with water quality data from EPCHC, local government and agency partners
Action 1.2.3	K	Reduce the frequency and duration of harmful algal blooms through the activities of the CCMP Action WQ-3	
Action 1.2.4	K	Reduce nitrogen loading from atmospheric deposition.	
Action 1.2.5	K	Expand green infrastructure practices.	
Action 1.2.6	K	Reduce the occurrence of sanitary sewer overflows to the bay.	
Add Action?	E	One Water; public/private partnerships; how urban areas impact potential restoration; Developers pay fee to retrofit stormwater areas - mitigation; Low maintenance zone requirements - transitional zone between maintained upland and stormwater;	
Objective 1.3	E	Preserve the diversity and abundance of Tampa Bay's fish and wildlife. (promote vs. preserve)	
		"Restoration"	
Action 1.3.1	K	Compile and develop information of the effects of ocean acidification to regional habitats and fisheries.	TBEP
Action 1.3.2	K	Expand monitoring programs for key species as needed to adapt to new threats.	FWC, USFWS, Audubon Florida (leads), FDEP, EPCHC, TBEP, Tampa Bay Watch

Action 1.3.3	K	Explore and support programs and projects that protect and expand habitats for waterbirds and beach-nesting shore birds	Tampa Bay Dredging Advisory Group, Tampa Bay Migratory Bird Protection Committee, Agency on Bay Management Habitat Restoration Subcommittee, Port Tampa Bay, USACE, Audubon Florida, USFWS, FWC, Eckerd College, Audubon Florida and local Audubon chapters
Action 1.3.4	K	Implement the Bay Habitat Master Plan and relevant CCMP actions to achieve targets and goals for critical fish and wildlife habitats, including Actions BH-1, BH2, BH-9 and BH-10.	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Add Action?	E	Limit development near critical habitat; Promote/incorporate - as opposed to preserve; restoration of altered areas - both public and private land; Incentivise integration on private property; focus on more private land; CRS incentives to not just open space but for restoration activities;	
Objective 1.4		Promote the protection and restoration of coastal natural systems and the creation of living shorelines at the regional scale.	
Action 1.4.1	K	Identify specific locations and general conditions that could utilize living shorelines in place of, or in combination with, seawalls.	
Action 1.4.2	E	Encourage interagency and public process efforts to create shoreline plans for coastal areas; include heights	
Action 1.4.3	K	Write regulations encouraging the use or integration of living shorelines where feasible.	
Add Action?	E	Regional decision about heights; include design options based on type of water; educate elected officials on alternatives of seawalls; option to assess the land owners to replace seawalls	
Goal 2		Infrastructure and services that supports resilient and healthy community environments, where residents and businesses thrive.	
Objective 2.1	E	Infrastructure and services are planned, built, and managed to maximize function and longevity under future climate conditions. FLEXIBLE	
Action 2.1.2	K	Update critical infrastructure policies based on community vulnerability assessment conducted in Chapter 2	

Action 2.1.3	K	Identify future inundation and nuisance flooding to determine areas of flood impacts to transportation and water infrastructure.	
Action 2.1.4	K	Develop regional and capacity building for conducting and preparing integrated cost-benefit analysis for grants.	TBRPC, Partners
Action 2.1.5	K	Update stormwater master plan with updated project list based on cost-benefit analysis.	
Action 2.1.6	K	Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
Action 2.1.7	E	Increase installation of cool roofs and other cooling techniques, including planting more shade trees, in neighborhoods where concrete and other hard surfaces trap and collect heat, creating "heat islands". Cool pavement?	
Action 2.1.8	E	Prioritize public infrastructure within Adaptation Action Areas for adaptation/mitigation strategies to the effects of high winds, storm surge, flooding and wave velocity. Severe storm events related to climate change.	
Action 2.1.9	K	Design and development are informed by the latest climate science to protect and modify existing public and private infrastructure and assets and how to design new infrastructure and assets	
Action 2.1.10	K	Assess the need for future costs of mosquito control to mitigate vector-borne illness.	
Action 2.1.11	K	Establish or expand the use of cooling shelters for extreme heat days.	
Add Action?	E	Establish an agreed upon scenario and timeline; work through cost-benefit scenario (not just tangible benefits include eco-system benefits, social lens, environmental/ecological lens [triple bottomline]);	
Objective 2.2	K	Prioritize green infrastructure projects which mitigate hazards and provide environmental, social and economic benefits.	
Action 2.2.1	K	Assess comprehensive plan, LDRs and process applications for barriers to implementing green infrastructure and to prioritize natural, nature-based and hybrid resilience strategies.	
Action 2.2.2	K	Update comprehensive plans, LDRs and processes to include green infrastructure and assess nature-based adaptation strategies as a first step.	
Action 2.2.3	K	Utilize multiple funding sources to move projects and programs forward that focus on Green Infrastructure.	

Add Action?	E	All socio/economic areas are treated the same; Strategies that are coordinated in a regional area to provide additional opportunities (as opposed to individual sites); Planned green infrastructure system; innovation - retrofitting for permitted stormwater facilities	
Objective 2.3	K	Increase resilience to climate change–related hazards, including extreme weather	
Action 2.3.1	K	Develop a comprehensive heat island mitigation strategy and implementation plan that addresses cool pavements and roofs, pavement reduction, and neighborhood greening.	
Action 2.3.2	K	Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
Action 2.3.3	K	Implement locally tailored tree and vegetation planting and maintenance projects in collaboration with community-based organizations to reduce the impacts of heat island in low canopy areas.	
Action 2.3.4	K	Fortify public health and healthcare critical infrastructure and leverage partnerships with private and public health organizations and service providers to improve community health and wellness	
Action 2.3.5	K	Community and business stakeholders are included in the need identification process prior to designing infrastructure projects to reduce impacts to extreme weather.	
Action 2.3.6	K	Local governments define integrated flood mitigation projects to reduce current and future risks, located in the Special Flood Hazard Area and prepare robust cost-benefit analysis to support FEMA BRIC applications	
Action 2.3.7	K	Promote post-disaster power resiliency through increased renewable energy development, production, and storage	
Action 2.3.8	K	Ensure that infrastructure projects are equitably dispersed to reduce risks in low-income neighborhoods and minority communities.	
Add Action?	E	Include post-disaster recovery project; encourage power companies to put utilities underground; Encourage demonstration projects that provide strategies;	
Objective 2.4	K	Advance water management strategies, infrastructure improvements, and water conservation efforts to mitigate the potential adverse impacts of climate change on water supplies, water and wastewater infrastructure, and water management systems	
Action 2.4.1	K	Assess the benefits of implementing One Water as a driving principle	
Action 2.4.2	K	Develop a set of regional best practices and design standards for stormwater management	

Action 2.4.3	K	Identify and educate communities about best management practices (BMP's) for reducing nutrient loads flowing into surface waters via residential, commercial, industrial and agricultural lands.	
Action 2.4.4	K	Consider stormwater master plan designs that utilizes an interconnected system of green infrastructure to reduce stormwater impacts.	
Action 2.4.5	K	Plan for future water supply by integrating potential future climate conditions, sea level rise scenarios, and potential impacts to water quality and supply into water management models that support supply plans, environmental resource permitting, and consumptive use permitting.	
Action 2.4.6	K	Expand partnerships and resources to further innovation in water resource management.	
Action 2.4.7	K	Advance comprehensive improvements to regional and local stormwater management practices.	
Add Action?	E	Encourage the State to provide regulatory standards and to promote potable reuse; Education on water needs; Identify lack of water as a hazard in the LMS;	
Objective 2.5	K	Create programs that promote higher air quality for residents and reduce emissions and air pollution	
Action 2.5.1	K	Explore the feasibility of a Forestry Master Plan - which would include an overall tree planting goal and annual target to expand regional forestry and provide a variety of benefits, including improving air quality and carbon sequestration.	
Action 2.5.2	E	Prioritize low-to-zero emission transportation modes such as electric and natural gas vehicles in policy plans and ordinance development. Encourage places to have free electric charging stations, plus more stations. More toward alternative transportation strategies - not personal cars; move beyond cars/buses. Production of electric and natural gas not low-no emissions.	
Action 2.5.3	K	Create Building Energy Reporting and Disclosure Ordinance to require large- and medium-sized buildings in TBRPC footprint to report their annual energy and water use and complete a major energy savings action or energy assessment every five years.	
Action 2.5.4	K	Create or expand bikeshare programs to connect more residents in neighborhoods currently lacking bikeshare services.	
Action 2.5.5	K	Implement community outreach and education programs that promote emission reduction techniques and other sustainable practices that improve air quality	
Add Action?	E	Connect Land Use with Transportation; Use private corporations to move light rail forward - train stops at specific large employers: Built it and they will come (Denver example); Ferry transportation (MacDill to S. Hillsborough exmple); Water taxi (Sarasota/Manatee Co. Example); Education with the environmental benefits/hazards of natural gas; Lack of electric options - more solar, tide turbines, other options; Identify inhibitors to clean energy use;	

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Group Members:	Group 2		
Overarching Aspirational Goal	Indicate if the goal should be kept as is (K) deleted (D) or edited (E).	<i>The region supports resilient communities and neighborhoods while managing growth and preserving and protecting natural resources.</i>	
Section Goal	K	Enhance the capacity of natural systems and infrastructure for climate adaptation	Responsible Organizations
Goal 1	K	Thriving habitats and abundant wildlife	
Objective 1.1	E	Improve the ability of bay habitats and ecosystems to adapt to a changing climate.	
Action 1.1.1	K	Assess the vulnerability of critical coastal habitats to sea level rise and support adaptation strategies that promote the long-term resiliency and diversity of these habitats.	TBEP (lead), SWFWMD, USFWS, local governments
Action 1.1.2	K	Continue to implement Critical Coastal Habitat Assessment monitoring at permanent transects to track long-term changes from climate change and other stressors to coastal habitats and species.	TBEP (lead), local government and agency partners
Action 1.1.3	K	Implement the Tampa Bay Habitat Master Plan	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Action 1.1.4	K	Continue to identify carbon sequestration benefits and economic incentives to preserve coastal habitats through voluntary carbon markets or other mechanisms. Assist land management agencies in developing site management plans that maximize carbon sequestration benefits of appropriate coastal habitats held in preservation or conservation.	Restore America's Estuaries, TBEP, academic institutions, SWFWMD, local governments, FDEP
Action 1.1.5	K	Support and assist with purchase, protection and/or restoration of priority sites to serve as climate change refuges and upslope buffers for critically important habitats and species. Support adoption of land management strategies such as rolling easements, coastal construction setbacks and living shorelines.	SWFWMD, USFWS, FDEP, other state, federal and local government land acquisition programs and land trusts
Action 1.1.6	K	Enhance community understanding of the potential impacts of climate change on coastal habitats and encourage actions by state and local entities and citizens to help adapt to or mitigate effects. Develop metrics to measure citizen outreach effectiveness.	Florida Sea Grant, local government sustainability programs, TBEP, UF/IFAS Extension, St. Petersburg College Sea Level Rise Group
	K	Better define "Community Understanding" and what the are aims of citizen outreach effectiveness, or how effectiveness will be defined, for example beyond participation to include perceptions/behaviors.	

Action 1.1.7	K	Expand habitat for pollinators and other wildlife such as aquatic wildlife, soil invertebrates and more, by creating, restoring, and maintaining natural areas, recognizing that one third of our food supply relies on pollinators.	
Add Action?		Maintain and enhance stopover areas for migratory birds the Global flyway. Enhance birding, ecotourism, educational opportunities	State and local parks and preserves
Objective 1.2	K	Improve or maintain water quality resulting in fishable, swimmable and drinkable water.	
			which organizations will lead these efforts?
Action 1.2.1	K	Retain existing natural areas on shorelines whenever feasible through implementation of policies, criteria, standards, methodologies and procedures.	
	E	Remove the phrase "whenever feasible" in this objective because it seems this would leave too much room for interpretation; also water quality management and testing and making that information available to the public would also aid community involvement/education.	which organizations will lead these efforts?
Action 1.2.2	K	Implement the Tampa Bay nutrient management strategy.	TBEP (lead), with water quality data from EPCHC, local government and agency partners
Action 1.2.3	K	Reduce the frequency and duration of harmful algal blooms through the activities of the CCMP Action WQ-3	
Action 1.2.4	K	Reduce nitrogen loading from atmospheric deposition.	
Action 1.2.5	K	Expand green infrastructure practices.	
	E	prioritize and define which green infrastructure practices, in which locations based on lead organizations	
Action 1.2.6	K	Reduce the occurrence of sanitary sewer overflows to the bay.	
Add Action?	K	Add community involvement, outreach or education as a tool to promote fishable, swimmable areas beyond just water quality	
Objective 1.3	E	Preserve the diversity and abundance of Tampa Bay's fish and wildlife.	
		Change language to "enhance or increase diversity" versus just preserve, want to suggest the idea of impr	
Action 1.3.1	K	Compile and develop information of the effects of ocean acidification to regional habitats and fisheries.	TBEP
Action 1.3.2	K	Expand monitoring programs for key species as needed to adapt to new threats.	FWC, USFWS, Audubon Florida (leads), FDEP, EPCHC, TBEP, Tampa Bay Watch
Action 1.3.3	K	Explore and support programs and projects that protect and expand habitats for waterbirds and beach-nesting shore birds	Tampa Bay Dredging Advisory Group, Tampa Bay Migratory Bird Protection Committee, Agency on Bay Management Habitat Restoration Subcommittee, Port Tampa Bay, USACE, Audubon Florida, USFWS, FWC, Eckerd College, Audubon Florida and local Audubon chapters
	K	More detail regarding preservation of fisheries; no fishing/preservation zones	

Action 1.3.4	K	Implement the Bay Habitat Master Plan and relevant CCMP actions to achieve targets and goals for critical fish and wildlife habitats, including Actions BH-1, BH2, BH-9 and BH-10.	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Add Action?			
Objective 1.4		Promote the protection and restoration of coastal natural systems and the creation of living shorelines at the regional scale.	
Action 1.4.1	K	Identify specific locations and general conditions that could utilize living shorelines in place of, or in combination with, seawalls.	
Action 1.4.2	K	Encourage interagency and public process efforts to create shoreline plans for coastal areas	
Action 1.4.3	K	Write regulations encouraging the use or integration of living shorelines where feasible.	
Add Action?		Monitoring and protection of cultural and natural resources in coastal natural systems, for example through living shorelines or FPAN's heritage monitoring scouts program: https://flpublicarchaeology.org/projects/HMSflorida.php	Florida Public Archaeology Network (FPAN); local historic preservation planners
Goal 2		Infrastructure and services that supports resilient and healthy community environments, where residents and businesses thrive.	
Objective 2.1	E	Infrastructure and services are planned regionally, built locally, and managed collectively to maximize function and longevity under future climate conditions.	
Action 2.1.2	K	Update critical infrastructure policies based on community vulnerability assessment conducted in Chapter 2	
		Community vulnerability study should identify most vulnerable communities due to current infrastructure inequities; communities with failing or aging infrastructure that are also more vulnerable to flooding or extreme weather events should get priority.	
Action 2.1.3	K	Identify future inundation and nuisance flooding to determine areas of flood impacts to transportation and water infrastructure.	
Action 2.1.4	K	Develop regional and capacity building for conducting and preparing integrated cost-benefit analysis for grants.	TBRPC, Partners
Action 2.1.5		Update stormwater master plan with updated project list based on cost-benefit analysis.	
		Update stormwater master plan with updated project list based on cost-benefit analysis and addressing past inequities in services or repairs.	
Action 2.1.6		Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
Action 2.1.7		Increase installation of cool roofs and other cooling techniques, including planting more shade trees, in neighborhoods where concrete and other hard surfaces trap and collect heat, creating "heat islands".	
		Increase installation of cool roofs and other cooling techniques, including planting more shade trees with community involvement, where concrete and other hard surfaces trap and collect heat, creating "heat islands".	
Action 2.1.8		Prioritize public infrastructure within Adaptation Action Areas for adaptation/mitigation strategies to the effects of high winds, storm surge, flooding and wave velocity.	

Action 2.1.9		Design and development are informed by the latest climate science to protect and modify existing public and private infrastructure and assets and how to design new infrastructure and assets	
Action 2.1.10		Assess the need for future costs of mosquito control to mitigate vector-borne illness.	
		Anticipate the northward migration of sub-tropical and tropical species especially those that may be a public health concern.	
Action 2.1.11		Establish or expand the use of cooling shelters for extreme heat days.	
		Is there a regional standard for these type of facilities that should be adopted?	
Add Action?			
Objective 2.2		Prioritize green infrastructure projects which mitigate hazards and provide environmental, social and economic benefits.	
Action 2.2.1		Assess comprehensive plan, LDRs and process applications for barriers to implementing green infrastructure and to prioritize natural, nature-based and hybrid resilience strategies.	
Action 2.2.2		Update comprehensive plans, LDRs and processes to include green infrastructure and assess nature-based adaptation strategies as a first step.	
Action 2.2.3		Utilize multiple funding sources to move projects and programs forward that focus on Green Infrastructure.	
Add Action?			
Objective 2.3		Increase resilience to climate change-related hazards, including extreme weather	
Action 2.3.1		Develop a comprehensive heat island mitigation strategy and implementation plan that addresses cool pavements and roofs, pavement reduction, and neighborhood greening.	
Action 2.3.2		Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
Action 2.3.3		Implement locally tailored tree and vegetation planting and maintenance projects in collaboration with community-based organizations to reduce the impacts of heat island in low canopy areas.	
Action 2.3.4		Fortify public health and healthcare critical infrastructure and leverage partnerships with private and public health organizations and service providers to improve community health and wellness	
Action 2.3.5		Community and business stakeholders are included in the need identification process prior to designing infrastructure projects to reduce impacts to extreme weather	
		Community and business stakeholders are included in the need identification process prior to designing infrastructure projects to reduce impacts to extreme weather, green infrastructure, and water and sanitation infrastructure.	
Action 2.3.6		Local governments define integrated flood mitigation projects to reduce current and future risks, located in the Special Flood Hazard Area and prepare robust cost-benefit analysis to support FEMA BRIC applications	

Action 2.3.7		Promote post-disaster power resiliency through increased renewable energy development, production, and storage	
Action 2.3.8		Ensure that infrastructure projects are equitably dispersed to reduce risks in low-income neighborhoods and minority communities.	
		Ensure that infrastructure projects are equitably designed and dispersed to reduce risks in low-income neighborhoods and minority communities	
Add Action?			
Objective 2.4		Advance water management strategies, infrastructure improvements, and water conservation efforts to mitigate the potential adverse impacts of climate change on water supplies, water and wastewater infrastructure, and water management systems	
Action 2.4.1		Assess the benefits of implementing One Water as a driving principle	
		Assess the benefits and limitations of implementing One Water as a driving principle	
Action 2.4.2		Develop a set of regional best practices and design standards for stormwater management	
Action 2.4.3		Identify and educate communities about best management practices (BMP's) for reducing nutrient loads flowing into surface waters via residential, commercial, industrial and agricultural lands.	
		Which communities? Industrial and agricultural BMPs and regulations may be more urgent than residential focus given their respective impacts.	
Action 2.4.4		Consider stormwater master plan designs that utilizes an interconnected system of green infrastructure to reduce stormwater impacts.	
Action 2.4.5		Plan for future water supply by integrating potential future climate conditions, sea level rise scenarios, and potential impacts to water quality and supply into water management models that support supply plans, environmental resource permitting, and consumptive use permitting.	
		This seems to be several action items in one-break these apart?	Tampa Bay Water and Florida Water and Climate Alliance have existing/historical data and resources
Action 2.4.6		Expand partnerships and resources to further innovation in water resource management.	
			Look at other regional programs such as Pensacola and Perdido Bays Program which are heavily community involved maybe partner with other regional programs for a more state wide approach to some things
Action 2.4.7		Advance comprehensive improvements to regional and local stormwater management practices.	
Add Action?		Add an action item for reducing ground water usage. Most of these consider surface water, but sea level rise paired with increased ground water usage causes saltwater intrusion, rendering wells unusable. Maybe this action item would be better served under drinkable water in Action 1, but also see its applicability here under healthy community environments	
Objective 2.5		Create programs that promote higher air quality for residents and reduce emissions and air pollution	
Action 2.5.1		Explore the feasibility of a Forestry Master Plan - which would include an overall tree planting goal and annual target to expand regional forestry and provide a variety of benefits, including improving air quality and carbon sequestration.	
Action 2.5.2		Prioritize low-to-zero emission transportation modes such as electric and natural gas vehicles in policy plans and ordinance development.	

Action 2.5.3		Create Building Energy Reporting and Disclosure Ordinance to require large- and medium-sized buildings in TBRPC footprint to report their annual energy and water use and complete a major energy savings action or energy assessment every five years.	
Action 2.5.4		Create or expand bikeshare programs to connect more residents in neighborhoods currently lacking bikeshare services.	
Action 2.5.5		Implement community outreach and education programs that promote emission reduction techniques and other sustainable practices that improve air quality	
Add Action?		Explore Incentives for buisness owners to continue telework, or staggered work times to reduce rush hour type congestion and reduce travel times	

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Group Members:	Group 3		
Overarching Aspirational Goal	Indicate if the goal should be kept as is (K) deleted (D) or edited (E).	<i>The region supports resilient communities and neighborhoods while managing growth and preserving and protecting natural resources.</i>	
Section Goal	Enhance the capacity of natural systems and infrastructure for climate adaptation		
		Responsible Organizations	
Goal 1	Thriving habitats and abundant wildlife		
Objective 1.1	E - Coastal habitats	Improve the ability of bay habitats and ecosystems to adapt to a changing climate.	
Action 1.1.1	E	Assess the vulnerability of critical coastal habitats to sea level rise and support adaptation strategies that promote the long-term resiliency and diversity of these habitats.	TBEP (lead), SWFWMD, USFWS, local governments
		bio-diversity	
Action 1.1.2	K	Continue to implement Critical Coastal Habitat Assessment monitoring at permanent transects to track long-term changes from climate change and other stressors to coastal habitats and species.	TBEP (lead), local government and agency partners
Action 1.1.3	K	Implement the Tampa Bay Habitat Master Plan	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Action 1.1.4	K	Continue to identify carbon sequestration benefits and economic incentives to preserve coastal habitats through voluntary carbon markets or other mechanisms. Assist land management agencies in developing site management plans that maximize carbon sequestration benefits of appropriate coastal habitats held in preservation or conservation.	Restore America's Estuaries, TBEP, academic institutions, SWFWMD, local governments, FDEP
Action 1.1.5	K	Support and assist with purchase, protection and/or restoration of priority sites to serve as climate change refuges and upslope buffers for critically important habitats and species. Support adoption of land management strategies such as rolling easements, coastal construction setbacks and living shorelines.	SWFWMD, USFWS, FDEP, other state, federal and local government land acquisition programs and land trusts

Action 1.1.6	K	Enhance community understanding of the potential impacts of climate change on coastal habitats and encourage actions by state and local entities and citizens to help adapt to or mitigate effects. Develop metrics to measure citizen outreach effectiveness.	Florida Sea Grant, local government sustainability programs, TBEP, UF/IFAS Extension, St. Petersburg College Sea Level Rise Group
		limitation on how much local governments can do with metrics and citizen outreach	
Action 1.1.7	K	Expand habitat for pollinators and other wildlife such as aquatic wildlife, soil invertebrates and more, by creating, restoring, and maintaining natural areas, recognizing that one third of our food supply relies on pollinators.	
Add Action?		Restoring genetic research - not monoculture plants in restoration projects	
		Limiting mass grading - construction projects	
Objective 1.2	E - various water sources	Improve or maintain water quality resulting in fishable, swimmable and drinkable water.	
	Group questions "drinkable"?	Libby- Improve or maintain quality water from various sources resulting in fishable, swimmable and drinkable water.Improve or maintain water quality resulting in fishable, swimmable and drinkable water.	
Action 1.2.1	K	Retain existing natural areas on shorelines whenever feasible through implementation of policies, criteria, standards, methodologies and procedures.	
Action 1.2.2	K	Implement the Tampa Bay nutrient management strategy.	TBEP (lead), with water quality data from EPCHC, local government and agency partners
Action 1.2.3	K	Reduce the frequency and duration of harmful algal blooms through the activities of the CCMP Action WQ-3	
		CCMP plan needs to be included in live hyperlink	
Action 1.2.4	K	Reduce nitrogen loading from atmospheric deposition.	
Action 1.2.5	E	Expand green infrastructure practices.	
		define green infrastructure. include key components, green building council, and examples of these practices	
Action 1.2.6	K	Reduce the occurrence of sanitary sewer overflows to the bay.	
Add Action?			
Objective 1.3	E- add conserve	Preserve the diversity and abundance of Tampa Bay's fish and wildlife.	
Action 1.3.1	E	Compile and develop information of the effects of ocean acidification to regional habitats and fisheries.	TBEP
		adding data*	
Action 1.3.2	E	Expand monitoring programs for key species as needed to adapt to new threats.	FWC, USFWS, Audubon Florida (leads), FDEP, EPCHC, TBEP, Tampa Bay Watch

		defining key species	
Action 1.3.3	K	Explore and support programs and projects that protect and expand habitats for waterbirds and beach-nesting shore birds	Tampa Bay Dredging Advisory Group, Tampa Bay Migratory Bird Protection Committee, Agency on Bay Management Habitat Restoration Subcommittee, Port Tampa Bay, USACE, Audubon Florida, USFWS, FWC, Eckerd College, Audubon Florida and local Audubon chapters
Action 1.3.4	K	Implement the Bay Habitat Master Plan and relevant CCMP actions to achieve targets and goals for critical fish and wildlife habitats, including Actions BH-1, BH2, BH-9 and BH-10.	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
		Link those actions-	
Add Action?			
Objective 1.4	E ? or K	Promote the protection and restoration of coastal natural systems and the creation of living shorelines at the regional scale.	TBEP
		*Support, encourage, urge, strengthen	
Action 1.4.1		Identify specific locations and general conditions that could utilize living shorelines in place of, or in combination with, seawalls.	
Action 1.4.2		Encourage interagency and public process efforts to create shoreline plans for coastal areas	
Action 1.4.3		Write regulations encouraging the use or integration of living shorelines where feasible.	
Add Action?		Identify the subjects in the statement	
		adding a water quality committee (recreate sarasota community playbook for clean water)	
Goal 2		Infrastructure and services that supports resilient and healthy community environments, where residents and businesses thrive.	
Objective 2.1	K	Infrastructure and services are planned, built, and managed to maximize function and longevity under future climate conditions.	
Action 2.1.2	K	Update critical infrastructure policies based on community vulnerability assessment conducted in Chapter 2	
Action 2.1.3	K	Identify future inundation and nuisance flooding to determine areas of flood impacts to transportation and water infrastructure.	
		include GIS mapping tools	
Action 2.1.4	K	Develop regional and capacity building for conducting and preparing integrated cost-benefit analysis for grants.	TBRPC, Partners
Action 2.1.5	K	Update stormwater master plan with updated project list based on cost-benefit analysis.	

Action 2.1.6	E	Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
		change second analysis to evaluation or assessment ---- & Identify a process, <i>model</i> or mechanism	
Action 2.1.7	E	Increase installation of cool roofs and other cooling techniques, including planting more shade trees, in neighborhoods where concrete and other hard surfaces trap and collect heat, creating "heat islands".	
		add - near bus stops (to address equity)	
Action 2.1.8	K	Prioritize public infrastructure within Adaptation Action Areas for adaptation/mitigation strategies to the effects of high winds, storm surge, flooding and wave velocity.	
Action 2.1.9	E	Design and development are informed by the latest climate science to protect and modify existing public and private infrastructure and assets and how to design new infrastructure and assets	
		influenced instead of informed*	
Action 2.1.10	E	Assess the need for future costs of mosquito control to mitigate vector-borne illness.	
		take out the need*	
Action 2.1.11	E	Establish or expand the use of cooling shelters for extreme heat days.	
		coordinate with existing infrastructure, to ensure outdoor workers and commuters have lowered likelihood of heat stress related illness	
Add Action?			
Objective 2.2	K	Prioritize green infrastructure projects which mitigate hazards and provide environmental, social and economic benefits.	
Action 2.2.1	E	Assess comprehensive plan, LDRs and process applications for barriers to implementing green infrastructure and to prioritize natural, nature-based and hybrid resilience strategies.	
		innovating	
Action 2.2.2	K	Update comprehensive plans, LDRs and processes to include green infrastructure and assess nature-based adaptation strategies as a first step.	
Action 2.2.3	K	Utilize multiple funding sources to move projects and programs forward that focus on Green Infrastructure.	
Add Action?			
Objective 2.3	K	Increase resilience to climate change-related hazards, including extreme weather	
		Avoid climate change - instead hazards, use disaster?	
Action 2.3.1	K	Develop a comprehensive heat island mitigation strategy and implementation plan that addresses cool pavements and roofs, pavement reduction, and neighborhood greening.	

Action 2.3.2	K	Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
		Repetive to action 2.1.6?	
Action 2.3.3	K	Implement locally tailored tree and vegetation planting and maintenance projects in collaboration with community-based organizations to reduce the impacts of heat island in low canopy areas.	
Action 2.3.4	K	Fortify public health and healthcare critical infrastructure and leverage partnerships with private and public health organizations and service providers to improve community health and wellness	
Action 2.3.5	E	Community and business stakeholders are included in the need identification process prior to designing infrastructure projects to reduce impacts to extreme weather.	
		or disasters	
Action 2.3.6	K	Local governments define integrated flood mitigation projects to reduce current and future risks, located in the Special Flood Hazard Area and prepare robust cost-benefit analysis to support FEMA BRIC applications	
Action 2.3.7	K	Promote post-disaster power resiliency through increased renewable energy development, production, and storage	
Action 2.3.8	K	Ensure that infrastructure projects are equitably dispersed to reduce risks in low-income neighborhoods and minority communities.	
Add Action?			
Objective 2.4	K	Advance water management strategies, infrastructure improvements, and water conservation efforts to mitigate the potential adverse impacts of climate change on water supplies, water and wastewater infrastructure, and water management systems	
Action 2.4.1	K	Assess the benefits of implementing One Water as a driving principle	
Action 2.4.2	K	Develop a set of regional best practices and design standards for stormwater management	SWFWMD
Action 2.4.3	E	Identify and educate communities about best management practices (BMP's) for reducing nutrient loads flowing into surface waters via residential, commercial, industrial and agricultural lands.	
		accountability enforcement from environmental compliance agencies ?	
Action 2.4.4	E	Consider stormwater master plan designs that utilizes an interconnected system of green infrastructure to reduce stormwater impacts.	
		Systems thinking*	
Action 2.4.5	K	Plan for future water supply by integrating potential future climate conditions, sea level rise scenarios, and potential impacts to water quality and supply into water management models that support supply plans, environmental resource permitting, and consumptive use permitting.	
Action 2.4.6	K	Expand partnerships and resources to further innovation in water resource management.	

Action 2.4.7	K	Advance comprehensive improvements to regional and local stormwater management practices.	
Add Action?		Lot coverage - require stormwater gutters to be connected onsite to collect and also filter	
Objective 2.5	E	Create programs that promote higher air quality for residents and reduce emissions and air pollution	
		use equitable infrastructure instead of programs,	
Action 2.5.1		Explore the feasibility of a Forestry Master Plan - which would include an overall tree planting goal and annual target to expand regional forestry and provide a variety of benefits, including improving air quality and carbon sequestration.	
Action 2.5.2		Prioritize low-to-zero emission transportation modes such as electric and natural gas vehicles in policy plans and ordinance development.	
Action 2.5.3		Create Building Energy Reporting and Disclosure Ordinance to require large- and medium-sized buildings in TBRPC footprint to report their annual energy and water use and complete a major energy savings action or energy assessment every five years.	
Action 2.5.4		Create or expand bikeshare programs to connect more residents in neighborhoods currently lacking bikeshare services.	
Action 2.5.5		Implement community outreach and education programs that promote emission reduction techniques and other sustainable practices that improve air quality	
Add Action?		equity and health component, focus on frontline communities	

Instructions	<p>1. Please add the names of the group members to the column below.</p> <p>2. For the first breakout discussion, please review Goals 1 and their objectives. In the second breakout, please review Goal 2.</p> <p>3. In column B indicate if the goal should be kept as is (K) deleted (D) or edited (E).</p> <p>4. Suggestions for revisions can be added in the line below the corresponding goal or objective.</p> <p>5. Additional Objectives and Actions can be added at the bottom of each goal section.</p> <p>6. If time permits please take time to review the actions and suggest revisions as needed.</p>		
Group Members:	Group 4		
Overarching Aspirational Goal	Indicate if the goal should be kept as is (K) deleted (D) or edited (E).	<i>The region supports resilient and equitable communities and neighborhoods while managing growth and preserving and protecting natural resources.</i>	
Section Goal	Enhance the capacity of natural systems and infrastructure for climate adaptation		Responsible Organizations
Goal 1	K	Thriving habitats and abundant wildlife	
Objective 1.1	K	Improve the ability of bay habitats and ecosystems to adapt to a changing climate.	
		Rephrase bay to coastal to be more all encompassing	
Action 1.1.1	K	Assess the vulnerability of critical coastal habitats to sea level rise and support adaptation strategies that promote the long-term resiliency and diversity of these habitats.	TBEP (lead), SWFWMD, USFWS, local governments Also nonprofits
Action 1.1.2	K	Continue to implement Critical Coastal Habitat Assessment monitoring at permanent transects to track long-term changes from climate change and other stressors to coastal habitats and species.	TBEP (lead), local government and agency partners
Action 1.1.3	K	Implement the Tampa Bay Habitat Master Plan	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
		Is 1.1.3 at all duplicative of the previous actions? Not familiar enough with the Tampa Bay Habitat Master Plan to know the answer. Would be nice to see presentation on this at a TBRPC meeting	
Action 1.1.4	K	Continue to identify carbon sequestration benefits and economic incentives to preserve coastal habitats through voluntary carbon markets or other mechanisms. Assist land management agencies in developing site management plans that maximize carbon sequestration benefits of appropriate coastal habitats held in preservation or conservation.	Restore America's Estuaries, TBEP, academic institutions, SWFWMD, local governments, FDEP
		Do we already have a voluntary carbon market in this area? More detail on methods for carbon sequestration	
Action 1.1.5		Support and assist with purchase, protection and/or restoration of priority sites to serve as climate change refuges and upslope buffers for critically important habitats and species. Support adoption of land management strategies such as rolling easements, coastal construction setbacks and living shorelines.	SWFWMD, USFWS, FDEP, other state, federal and local government land acquisition programs and land trusts
		What do you mean by rolling easement? Do we have examples of rolling easements that have worked in Florida?	
Action 1.1.6	K	Enhance community understanding of the potential impacts of climate change on coastal habitats and encourage actions by state and local entities and citizens to help adapt to or mitigate effects. Develop metrics to measure citizen outreach effectiveness.	Florida Sea Grant, local government sustainability programs, TBEP, UF/IFAS Extension, St. Petersburg College Sea Level Rise Group
Action 1.1.7	K	Expand habitat for pollinators and other wildlife such as aquatic wildlife, soil invertebrates and more, by creating, restoring, and maintaining natural areas, recognizing that one third of our food supply relies on pollinators.	
Add Action?			
Objective 1.2	K	Improve or maintain water quality resulting in fishable, swimmable and drinkable water.	

Action 1.2.1	K	Retain existing natural areas on shorelines whenever feasible through implementation of policies, criteria, standards, methodologies and procedures.	
Action 1.2.2	K	Implement the Tampa Bay nutrient management strategy.	TBEP (lead), with water quality data from EPCHC, local government and agency partners
Action 1.2.3	K	Reduce the frequency and duration of harmful algal blooms through the activities of the CCMP Action WQ-3	
Action 1.2.4	K	Reduce nitrogen loading from atmospheric deposition.	
Action 1.2.5	K	Expand green infrastructure practices.	
Action 1.2.6	K	Reduce the occurrence of sanitary sewer overflows to the bay.	
		Continue to transfer old septic to municipal sewer	
Add Action?			
Objective 1.3	K/E	Preserve the diversity and abundance of Tampa Bay's fish and wildlife.	
		Not just preserve but promote / expand / get back some of what was lost	
Action 1.3.1	K	Compile and develop information of the effects of ocean acidification to regional habitats and fisheries.	TBEP
Action 1.3.2	K	Expand monitoring programs for key species as needed to adapt to new threats.	FWC, USFWS, Audubon Florida (leads), FDEP, EPCHC, TBEP, Tampa Bay Watch
Action 1.3.3	K	Explore and support programs and projects that protect and expand habitats for waterbirds and beach-nesting shore birds	Tampa Bay Dredging Advisory Group, Tampa Bay Migratory Bird Protection Committee, Agency on Bay Management Habitat Restoration Subcommittee, Port Tampa Bay, USACE, Audubon Florida, USFWS, FWC, Eckerd College, Audubon Florida and local Audubon chapters
Action 1.3.4	K	Implement the Bay Habitat Master Plan and relevant CCMP actions to achieve targets and goals for critical fish and wildlife habitats, including Actions BH-1, BH2, BH-9 and BH-10.	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Add Action?			
Objective 1.4	K	Promote the protection and restoration of coastal natural systems and the creation of living shorelines at the regional scale.	
Action 1.4.1	K	Identify specific locations and general conditions that could utilize living shorelines in place of, or in combination with, seawalls.	
Action 1.4.2	K	Encourage interagency and public process efforts to create shoreline plans for coastal areas	
Action 1.4.3	K	Write regulations encouraging the use or integration of living shorelines where feasible.	
Add Action?			

Goal 2	K	Infrastructure and services that supports resilient and healthy community environments, where residents and businesses thrive.	
		agree with the suggestion to change residents to people	
Objective 2.1	K	Infrastructure and services are planned, built, and managed to maximize function and longevity under future climate conditions.	
Action 2.1.2	K	Update critical infrastructure policies based on community vulnerability assessment conducted in Chapter 2	
Action 2.1.3	K	Identify future inundation and nuisance flooding to determine areas of flood impacts to transportation and water infrastructure.	
Action 2.1.4	K	Develop regional and capacity building for conducting and preparing integrated cost-benefit analysis for grants.	TBRPC, Partners
		Seems like there is a missing word after regional. Regional cooperation?	
Action 2.1.5	K	Update stormwater master plan with updated project list based on cost-benefit analysis.	
Action 2.1.6	K	Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
		Is this up to each local government and their legal team?	
Action 2.1.7	K	Increase installation of cool roofs and other cooling techniques, including planting more shade trees, in neighborhoods where concrete and other hard surfaces trap and collect heat, creating "heat islands".	
Action 2.1.8		Prioritize public infrastructure within Adaptation Action Areas for adaptation/mitigation strategies to the effects of high winds, storm surge, flooding and wave velocity.	
		Does this plan create Adaptation Action Areas, or do those already exist?	
Action 2.1.9		Design and development are informed by the latest climate science to protect and modify existing public and private infrastructure and assets and how to design new infrastructure and assets	
		Does this mean that we educate the development community about the latest climate science so they can incorporate it into design and development? This language is a little unclear	
Action 2.1.10	K	Assess the need for future costs of mosquito control to mitigate vector-borne illness.	
		Investigate threats from other pests that thrive in extreme heat, in addition to mosquitos. Look at costs of vector-borne illness AND other damage, i.e. crop damage	
Action 2.1.11		Establish or expand the use of cooling shelters for extreme heat days.	
		In addition to cooling shelters, do more / better public communication about the extreme heat days. Notify the public so they can protect themselves. Look into best practices / standards regarding working or playing sports in extreme heat -- educate companies / schools / sports programs /etc about the dangers of heat	
Add Action?			
Objective 2.2	K	Prioritize green infrastructure projects which mitigate hazards and provide environmental, social and economic benefits.	
Action 2.2.1	K, but maybe edit or add to	Assess comprehensive plan, LDRs and process applications for barriers to implementing green infrastructure and to prioritize natural, nature-based and hybrid resilience strategies.	
		What do you mean by process applications? Design guidance for development? Make sure design guidelines include appropriate guidance on green infrastructure. Also looking beyond local development to state road projects that run through our area	
Action 2.2.2		Update comprehensive plans, LDRs and processes to include green infrastructure and assess nature-based adaptation strategies as a first step.	
		Same comments as 2.2.1	
Action 2.2.3	K	Utilize multiple funding sources to move projects and programs forward that focus on Green Infrastructure.	
		Potentially provide guidance or examples of these funding sources	
Add Action?			
Objective 2.3	K	Increase resilience to climate change-related hazards, including extreme weather	
Action 2.3.1	K	Develop a comprehensive heat island mitigation strategy and implementation plan that addresses cool pavements and roofs, pavement reduction, and neighborhood greening.	

		Ensure equitable distribution of tree canopy coverage and other cooling techniques. Many times, lower income neighborhoods have less tree canopy coverage than higher income	
Action 2.3.2		Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
		this looks like a repeat of 2.1.6	
Action 2.3.3	K	Implement locally tailored tree and vegetation planting and maintenance projects in collaboration with community-based organizations to reduce the impacts of heat island in low canopy areas.	
		Ensure equitable distribution of tree canopy coverage and other cooling techniques. Many times, lower income neighborhoods have less tree canopy coverage than higher income	
Action 2.3.4	K	Fortify public health and healthcare critical infrastructure and leverage partnerships with private and public health organizations and service providers to improve community health and wellness	
Action 2.3.5	K	Community and business stakeholders are included in the need identification process prior to designing infrastructure projects to reduce impacts to extreme weather.	
Action 2.3.6	K	Local governments define integrated flood mitigation projects to reduce current and future risks, located in the Special Flood Hazard Area and prepare robust cost-benefit analysis to support FEMA BRIC applications	
Action 2.3.7	K	Promote post-disaster power resiliency through increased renewable energy development, production, and storage	
Action 2.3.8	K	Ensure that infrastructure projects are equitably dispersed to reduce risks in low-income neighborhoods and minority communities.	
Add Action?			
Objective 2.4	K	Advance water management strategies, infrastructure improvements, and water conservation efforts to mitigate the potential adverse impacts of climate change on water supplies, water and wastewater infrastructure, and water management systems	
Action 2.4.1	K	Assess the benefits of implementing One Water as a driving principle	
Action 2.4.2	K	Develop a set of regional best practices and design standards for stormwater management	
Action 2.4.3	K	Identify and educate communities about best management practices (BMP's) for reducing nutrient loads flowing into surface waters via residential, commercial, industrial and agricultural lands.	
Action 2.4.4		Consider stormwater master plan designs that utilizes an interconnected system of green infrastructure to reduce stormwater impacts.	
		Encourage instead of consider	
Action 2.4.5	K	Plan for future water supply by integrating potential future climate conditions, sea level rise scenarios, and potential impacts to water quality and supply into water management models that support supply plans, environmental resource permitting, and consumptive use permitting.	
Action 2.4.6		Expand partnerships and resources to further innovation in water resource management.	
		This is a bit broad. How would you know this is happening? Put a performance metric on this one	
Action 2.4.7		Advance comprehensive improvements to regional and local stormwater management practices.	
		This is also pretty broad. Make it more action/performance-oriented	
Add Action?			
Objective 2.5		Create programs that promote higher air quality for residents and reduce emissions and air pollution	
		change residents to people	
Action 2.5.1	K	Explore the feasibility of a Forestry Master Plan - which would include an overall tree planting goal and annual target to expand regional forestry and provide a variety of benefits, including improving air quality and carbon sequestration.	
		make sure the plan considers equitable distribution of the tree canopy	
Action 2.5.2	K	Prioritize low-to-zero emission transportation modes such as electric and natural gas vehicles in policy plans and ordinance development.	

		Also using modes of transportation other than single occupancy vehicles, in addition to electric/natural gas vehicles. We also wondered if this might end up duplicating actions in the Transportation section, but we do agree that it's important to emphasize the connection to air quality since transportation is a huge emissions source	
Action 2.5.3		Create Building Energy Reporting and Disclosure Ordinance to require large- and medium-sized buildings in TBRPC footprint to report their annual energy and water use and complete a major energy savings action or energy assessment every five years.	
Action 2.5.4		Create or expand bikeshare programs to connect more residents in neighborhoods currently lacking bikeshare services.	
		focus on historically disadvantaged communities	
Action 2.5.5		Implement community outreach and education programs that promote emission reduction techniques and other sustainable practices that improve air quality	
Add Action?		Understand the current health status (lung health, but also heart) of communities within the region and how climate change could affect those who are vulnerable due to their current health status. Where are asthma/COPD/heart disease most severe? - This doesn't necessarily belong under infrastructure, but it ties to air quality	

Instructions	1. Please add the names of the group members to the column below. 2. For the first breakout discussion, please review Goals 1 and their objectives. In the second breakout, please review Goal 2. 3. In column B indicate if the goal should be kept as is (K) deleted (D) or edited (E). 4. Suggestions for revisions can be added in the line below the corresponding goal or objective. 5. Additional Objectives and Actions can be added at the bottom of each goal section. 6. If time permits please take time to review the actions and suggest revisions as needed.		
Group Members:	Group 5		
Overarching Aspirational Goal	Indicate if the goal should be kept as is (K) deleted (D) or edited (E).	<i>The region supports resilient communities and neighborhoods while managing growth and preserving and protecting natural resources.</i>	
Section Goal	Enhance the capacity of natural systems and infrastructure for climate adaptation		Responsible Organizations
Goal 1	E	Thriving habitats and abundant wildlife	
	E	Habitats are restored to thriving state and wildlife is abundant and healthy.	
Objective 1.1	E	Improve the ability of bay habitats and ecosystems to adapt to a changing climate.	
		this isnt measurable GC	
	E	Increase the adaptability of bay habitats and ecosystems to a changing climate.	
Action 1.1.1	K	Assess the vulnerability of critical coastal habitats to sea level rise and support adaptation strategies that promote the long-term resiliency and diversity of these habitats.	TBEP (lead), SWFWMD, USFWS, local governments
Action 1.1.2	K	Continue to implement Critical Coastal Habitat Assessment monitoring at permanent transects to track long-term changes from climate change and other stressors to coastal habitats and species.	TBEP (lead), local government and agency partners
Action 1.1.3	E	Implement the Tampa Bay Habitat Master Plan	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
		Update and implement the Tampa Bay Habitat Master Plan in coordination with Resilience Coalition Members.	
Action 1.1.4	K	Continue to identify carbon sequestration benefits and economic incentives to preserve coastal habitats through voluntary carbon markets or other mechanisms. Assist land management agencies in developing site management plans that maximize carbon sequestration benefits of appropriate coastal habitats held in preservation or conservation.	Restore America's Estuaries, TBEP, academic institutions, SWFWMD, local governments, FDEP
Action 1.1.5	split into two actions	Support and assist with purchase, protection and/or restoration of priority sites to serve as climate change refuges and upslope buffers for critically important habitats and species. Support adoption of land management strategies such as rolling easements, coastal construction setbacks and living shorelines.	SWFWMD, USFWS, FDEP, other state, federal and local government land acquisition programs and land trusts
Action 1.1.6	K	Enhance community understanding of the potential impacts of climate change on coastal habitats and encourage actions by state and local entities and citizens to help adapt to or mitigate effects. Develop metrics to measure citizen outreach effectiveness.	Florida Sea Grant, local government sustainability programs, TBEP, UF/IFAS Extension, St. Petersburg College Sea Level Rise Group
Action 1.1.7		Expand habitat for pollinators and other wildlife such as aquatic wildlife, soil invertebrates and more, by creating, restoring, and maintaining natural areas, recognizing that one third of our food supply relies on pollinators.	
		are worms pollinators? GC	
Add Action?			
Objective 1.2	K	Improve or maintain water quality resulting in fishable, swimmable and drinkable water.	

Action 1.2.1	K	Retain existing natural areas on shorelines whenever feasible through implementation of policies, criteria, standards, methodologies and procedures. feasible is a huge loophole GC	
Action 1.2.2	K	Implement the Tampa Bay nutrient management strategy.	TBEP (lead), with water quality data from EPCHC, local government and agency partners
Action 1.2.3	K	Reduce the frequency and duration of harmful algal blooms through the activities of the CCMP Action WQ-3	
Action 1.2.4	K	Reduce nitrogen loading from atmospheric deposition.	
Action 1.2.5	E	Expand green infrastructure practices. Expand green infrastructure practices through incentives, possible green bonds, and priorities for redevelopment and development.	
Action 1.2.6	R	Reduce the occurrence of sanitary sewer overflows to the bay. Eliminate? Agressively prevent... (Can't elminate as long as you have people, sewage and environmental stressors (hurricanes)	
Add Action?			
Objective 1.3	K	Preserve the diversity and abundance of Tampa Bay's fish and wildlife.	
Action 1.3.1	K but...	Compile and develop information of the effects of ocean acidification to regional habitats and fisheries. Need More information do we have ocean adification in Tampa Bay? GC	TBEP
Action 1.3.2	E	Expand monitoring programs for key species as needed to adapt to new threats. Identify, assess and expand ... Perform audit of key species every X years.....	FWC, USFWS, Audubon Florida (leads), FDEP, EPCHC, TBEP, Tampa Bay Watch
Action 1.3.3	K	Explore and support programs and projects that protect and expand habitats for waterbirds and beach-nesting shore birds habitats and loafing zones...	Tampa Bay Dredging Advisory Group, Tampa Bay Migratory Bird Protection Committee, Agency on Bay Management Habitat Restoration Subcommittee, Port Tampa Bay, USACE, Audubon Florida, USFWS, FWC, Eckerd College, Audubon Florida and local Audubon chapters
Action 1.3.4	K	Implement the Bay Habitat Master Plan and relevant CCMP actions to achieve targets and goals for critical fish and wildlife habitats, including Actions BH-1, BH2, BH-9 and BH-10.	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Add Action?			
Objective 1.4	K	Promote the protection and restoration of coastal natural systems and the creation of living shorelines at the regional scale.	
Action 1.4.1	K	Identify specific locations and general conditions that could utilize living shorelines in place of, or in combination with, seawalls.	
Action 1.4.2	K	Encourage interagency and public process efforts to create shoreline plans for coastal areas	
Action 1.4.3	E	Write regulations encouraging the use or integration of living shorelines where feasible . Write regulations encouraging the appropriate use and/or integration of living shorelines where feasible .	

Add Action?			
Goal 2		Infrastructure and services that supports resilient and healthy community environments, where residents and businesses thrive.	
Objective 2.1	K	Infrastructure and services are planned, built, and managed to maximize function and longevity under future climate conditions.	
Action 2.1.2	K?	Update critical infrastructure policies based on community vulnerability assessment conducted in Chapter 2	
		Question: Local jurisdiction policies or TBRPC policies? Whose policies is this referring to?	
Action 2.1.3	E	Identify future inundation and nuisance flooding to determine areas of flood impacts to transportation and water infrastructure.	
		Why just for transportation & water infra., why not other types of infrastructure?	
Action 2.1.4	K	Develop regional and capacity building for conducting and preparing integrated cost-benefit analysis for grants.	TBRPC, Partners
Action 2.1.5		Update stormwater master plan with updated project list based on cost-benefit analysis.	Partners
Action 2.1.6	E	Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
		Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
Action 2.1.7	K	Increase installation of cool roofs and other cooling techniques, including planting more shade trees, in neighborhoods where concrete and other hard surfaces trap and collect heat, creating "heat islands".	
Action 2.1.8	K	Prioritize public infrastructure within Adaptation Action Areas for adaptation/mitigation strategies to the effects of high winds, storm surge, flooding and wave velocity.	
Action 2.1.9	E	Design and development are informed by the latest climate science to protect and modify existing public and private infrastructure and assets and how to design new infrastructure and assets	
		Climate science and best practices	
Action 2.1.10	K	Assess the need for future costs of mosquito control to mitigate vector-borne illness.	
Action 2.1.11	K	Establish or expand the use of cooling shelters for extreme heat days.	
Add Action?		Identify performance measures for some of these actions.	
Objective 2.2	K	Prioritize green infrastructure projects which mitigate hazards and provide environmental, social and economic benefits.	
Action 2.2.1	K	Assess comprehensive plan, LDRs and process applications for barriers to implementing green infrastructure and to prioritize natural, nature-based and hybrid resilience strategies.	
		Question: is this worded correctly?	
Action 2.2.2	K	Update comprehensive plans, LDRs and processes to include green infrastructure and assess nature-based adaptation strategies as a first step.	
Action 2.2.3	K	Utilize multiple funding sources to move projects and programs forward that focus on Green Infrastructure.	
Add Action?		Add something that helps educate or build capacity for planning and implementing green infrastructure projects? Do we have a green infrastructure toolkit - TBRPC?	
Objective 2.3	K	Increase resilience to climate change-related hazards, including extreme weather	

Action 2.3.1	K	Develop a comprehensive heat island mitigation strategy and implementation plan that addresses cool pavements and roofs, pavement reduction, and neighborhood greening.	
Action 2.3.2	E	Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions. Reword to say determine how to prioritize which infrastructure/areas may be upgraded or mitigated at a certain time or impact.	
Action 2.3.3	K	Implement locally tailored tree and vegetation planting and maintenance projects in collaboration with community-based organizations to reduce the impacts of heat island in low canopy areas.	
Action 2.3.4	K	Fortify public health and healthcare critical infrastructure and leverage partnerships with private and public health organizations and service providers to improve community health and wellness	
Action 2.3.5	E	Community and business stakeholders are included in the need identification process prior to designing infrastructure projects to reduce impacts to extreme weather. *from extreme weather. But do not see us having design workshops for water line extensions, or road design--this is what LDCs and Master Plans are for. But could be accomplished in Public Comment process during permitting.	
Action 2.3.6	K	Local governments define integrated flood mitigation projects to reduce current and future risks, located in the Special Flood Hazard Area and prepare robust cost-benefit analysis to support FEMA BRIC applications	
Action 2.3.7	K	Promote post-disaster power resiliency through increased renewable energy development, production, and storage	
Action 2.3.8	K	Ensure that infrastructure projects are equitably dispersed to reduce risks in low-income neighborhoods and minority communities.	
Add Action?		Conduct vulnerability analysis and utilize capital project planning tools similar to that developed by Pinellas County. Identify and promote using LEED	
Objective 2.4		Advance water management strategies, infrastructure improvements, and water conservation efforts to mitigate the potential adverse impacts of climate change on water supplies, water and wastewater infrastructure, and water management systems	
Action 2.4.1	E	Assess the benefits of implementing One Water as a driving principle Assess and communicate the benefits	
Action 2.4.2	K	Develop a set of regional best practices and design standards for stormwater management	
Action 2.4.3	K	Identify and educate communities about best management practices (BMP's) for reducing nutrient loads flowing into surface waters via residential, commercial, industrial and agricultural lands.	
Action 2.4.4	E	Consider stormwater master plan designs that utilizes an interconnected system of green infrastructure to reduce stormwater impacts. and open green space	
Action 2.4.5	k	Plan for future water supply by integrating potential future climate conditions, sea level rise scenarios, and potential impacts to water quality and supply into water management models that support supply plans, environmental resource permitting, and consumptive use permitting.	
Action 2.4.6	k	Expand partnerships and resources to further innovation in water resource management.	
Action 2.4.7	k	Advance comprehensive improvements to regional and local stormwater management practices.	
Add Action?		include strategies that increase permeable pavements	
Objective 2.5		Create programs that promote higher air quality for residents and reduce emissions and air pollution	
Action 2.5.1	k	Explore the feasibility of a Forestry Master Plan - which would include an overall tree planting goal and annual target to expand regional forestry and provide a variety of benefits, including improving air quality and carbon sequestration.	

Action 2.5.2	E	Prioritize low-to-zero emission transportation modes such as electric and natural gas vehicles in policy plans and ordinance development.	
		Especially for first-mile and last-mile transport options	
Action 2.5.3	k	Create Building Energy Reporting and Disclosure Ordinance to require large- and medium-sized buildings in TBRPC footprint to report their annual energy and water use and complete a major energy savings action or energy assessment every five years.	
Action 2.5.4	k	Create or expand bikeshare programs to connect more residents in neighborhoods currently lacking bikeshare services.	
Action 2.5.5	E	Implement community outreach and education programs that promote emission reduction techniques and other sustainable practices that improve air quality	
		for all communities	
Add Action?			

Instructions	1. Please add the names of the group members to the column below. 2. For the first breakout discussion, please review Goals 1 and their objectives. In the second breakout, please review Goal 2. 3. In column B indicate if the goal should be kept as is (K) deleted (D) or edited (E). 4. Suggestions for revisions can be added in the line below the corresponding goal or objective. 5. Additional Objectives and Actions can be added at the bottom of each goal section. 6. If time permits please take time to review the actions and suggest revisions as needed.		
Group Members:	Group 6		
Overarching Aspirational Goal	Indicate if the goal should be kept as is (K) deleted (D) or edited (E).	<i>The region supports resilient communities and neighborhoods while managing growth and preserving and protecting natural resources.</i>	
Section Goal	K	Enhance the capacity of natural systems and infrastructure for climate adaptation	Responsible Organizations
Goal 1	E	Thriving habitats, abundant wildlife and biodiversity	
Objective 1.1	E	Improve the ability of coastal habitats and ecosystems to adapt to a changing climate.	
Action 1.1.1	K	Assess the vulnerability of critical coastal habitats to sea level rise and support adaptation strategies that promote the long-term resiliency and diversity of these habitats.	TBEP (lead), SWFWMD, USFWS, local governments
Action 1.1.2	K	Continue to implement Critical Coastal Habitat Assessment monitoring at permanent transects to track long-term changes from climate change and other stressors to coastal habitats and species.	TBEP (lead), local government and agency partners
Action 1.1.3	K	Implement the Tampa Bay Habitat Master Plan	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Action 1.1.4	E	Continue to identify carbon sequestration benefits and economic incentives to preserve coastal habitats through voluntary carbon markets or other mechanisms. Assist land management agencies in developing site management plans that maximize carbon sequestration benefits of appropriate coastal habitats held in preservation or conservation. - suggest breaking into two separate actions	Restore America's Estuaries, TBEP, academic institutions, SWFMWD, local governments, FDEP **identify lead agency
Action 1.1.5	E	Support and assist with purchase, protection and/or restoration of priority sites to serve as climate change refuges and upslope buffers for critically important habitats and species. Support adoption of land management strategies such as rolling easements, coastal construction setbacks and living shorelines. - suggest breaking into two separate actions	SWFWMD, USFWS, FDEP, other state, federal and local government land acquisition programs and land trusts **identify lead agency
Action 1.1.6	E	Enhance community understanding of the potential impacts of climate change on coastal habitats and encourage actions by state and local entities and citizens to help adapt to or mitigate effects. Develop metrics to measure citizen outreach effectiveness. *note- important for all actions to have metrics.	Florida Sea Grant, local government sustainability programs, TBEP, UF/IFAS Extension, St. Petersburg College Sea Level Rise Group
Action 1.1.7	E	Expand habitat for pollinators and other wildlife such as aquatic wildlife, soil invertebrates and more, by creating, restoring, and maintaining natural areas; recognizing that one third of our food supply relies on pollinators. *prioritize habitat goals	
Add Action?			
Objective 1.2	K	Improve or maintain water quality resulting in fishable, swimmable and drinkable water.	
Action 1.2.1	E	Conserve existing natural areas on shorelines whenever feasible through implementation of policies, criteria, standards, methodologies and procedures.	

Action 1.2.2	K	Implement the Tampa Bay nutrient management strategy.	TBEP (lead), with water quality data from EPCHC, local government and agency partners
Action 1.2.3	K	Reduce the frequency and duration of harmful algal blooms through the activities of the CCMP Action WQ-3	
Action 1.2.4	E	Reduce nitrogen loading from atmospheric deposition through implementation of policies, criteria, standards, methodologies and procedures.	
Action 1.2.5	E	Identify funding sources to expand green infrastructure practices.	
Action 1.2.6	E	Identify best practices to reduce the occurrence of sanitary sewer overflows to the bay.	
Add Action?			
Objective 1.3	K	Preserve the diversity and abundance of Tampa Bay's fish and wildlife.	
Action 1.3.1	E	Compile and develop information of the effects of ocean acidification to regional habitats and fisheries.	TBEP, FWC/FWRI
Action 1.3.2	E	Expand monitoring programs for key species as needed to adapt to new threats.	FWC, USFWS, Audubon Florida (leads), FDEP, EPCHC, TBEP, Tampa Bay Watch, NOAA
Action 1.3.3	E	Identify funding sources to explore and support programs and projects that protect and expand habitats for waterbirds and beach-nesting shore birds	Tampa Bay Dredging Advisory Group, Tampa Bay Migratory Bird Protection Committee, Agency on Bay Management Habitat Restoration Subcommittee, Port Tampa Bay, USACE, Audubon Florida, USFWS, FWC, Eckerd College, Audubon Florida and local Audubon chapters
Action 1.3.4	K	Implement the Bay Habitat Master Plan and relevant CCMP actions to achieve targets and goals for critical fish and wildlife habitats, including Actions BH-1, BH2, BH-9 and BH-10.	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Add Action?			
Objective 1.4	E	Promote the protection and restoration of coastal natural systems and the creation of living shorelines at the regional scale.	
Action 1.4.1	K	Identify specific locations and general conditions that could utilize living shorelines in place of, or in combination with, seawalls.	
Action 1.4.2	K	Encourage interagency and public process efforts to create shoreline plans for coastal areas	
Action 1.4.3	K	Write regulations encouraging the use or integration of living shorelines where feasible.	
Add Action?			

Goal 2	E	Infrastructure and services that supports resilient and healthy community environments, where people and businesses thrive.	
Objective 2.1	K	Infrastructure and services are planned, built, and managed to maximize function and longevity under future climate conditions.	
		Is there an Action 2.1.1?	
Action 2.1.2	K	Update critical infrastructure policies based on community vulnerability assessment conducted in Chapter 2	
Action 2.1.3	E	Utilize future inundation and nuisance flooding studies to determine areas of flood impacts to transportation and water infrastructure.	FEMA, local government partners
		Part of Peril of Flood and Community Rating System?	
Action 2.1.4	K	Develop regional and capacity building for conducting and preparing integrated cost-benefit analysis for grants.	TBRPC, Partners
		FHA, EPA, Gulftree.org tools	
Action 2.1.5	K	Update stormwater master plan with updated project list based on cost-benefit analysis.	
		Done at local government level?	
Action 2.1.6	K	Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
		Done at local government level?	
Action 2.1.7	E	Promote and advocate installation of cool roofs and other cooling techniques, including planting more shade trees, in neighborhoods where concrete and other hard surfaces trap and collect heat, creating "heat islands".	
Action 2.1.8	K	Prioritize public infrastructure within Adaptation Action Areas for adaptation/mitigation strategies to the effects of high winds, storm surge, flooding and wave velocity.	FDEO
		How is this measurable?	
Action 2.1.9	D	Design and development are informed by the latest climate science to protect and modify existing public and private infrastructure and assets and how to design new infrastructure and assets	
		Not an action, this is a statement	
Action 2.1.10	K	Assess the need for future costs of mosquito control to mitigate vector-borne illness.	
		Need connection of mosquito control to infrastructure	
Action 2.1.11	E	Establish or expand the use of cooling shelters for extreme heat days.	
		Determine and provide the best means to protect public health during extreme heat days.	
Add Action?			
Objective 2.2	K	Prioritize green infrastructure projects which mitigate hazards and provide environmental, social and economic benefits.	
Action 2.2.1		Assess comprehensive plan, LDRs and process applications for barriers to implementing green infrastructure and to prioritize natural, nature-based and hybrid resilience strategies.	
Action 2.2.2		Update comprehensive plans, LDRs and processes to include green infrastructure and assess nature-based adaptation strategies as a first step.	
Action 2.2.3		Utilize multiple funding sources to move projects and programs forward that focus on Green Infrastructure.	
Add Action?			
Objective 2.3	K	Increase resilience to climate change-related hazards, including extreme weather	
		*why emphasis on extreme weather over other climate change-related hazards?	
Action 2.3.1		Develop a comprehensive heat island mitigation strategy and implementation plan that addresses cool pavements and roofs, pavement reduction, and neighborhood greening.	
Action 2.3.2		Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	

Action 2.3.3		Implement locally tailored tree and vegetation planting and maintenance projects in collaboration with community-based organizations to reduce the impacts of heat island in low canopy areas.	
Action 2.3.4		Fortify public health and healthcare critical infrastructure and leverage partnerships with private and public health organizations and service providers to improve community health and wellness	
Action 2.3.5		Community and business stakeholders are included in the need identification process prior to designing infrastructure projects to reduce impacts to extreme weather.	
Action 2.3.6		Local governments define integrated flood mitigation projects to reduce current and future risks, located in the Special Flood Hazard Area and prepare robust cost-benefit analysis to support FEMA BRIC applications	
Action 2.3.7		Promote post-disaster power resiliency through increased renewable energy development, production, and storage	
Action 2.3.8		Ensure that infrastructure projects are equitably dispersed to reduce risks in low-income neighborhoods and minority communities.	
Add Action?			
Objective 2.4	K	Advance water management strategies, infrastructure improvements, and water conservation efforts to mitigate the potential adverse impacts of climate change on water supplies, water and wastewater infrastructure, and water management systems	
		Does this include surface waters?	
Action 2.4.1		Assess the benefits of implementing One Water as a driving principle	
Action 2.4.2		Develop a set of regional best practices and design standards for stormwater management	
Action 2.4.3		Identify and educate communities about best management practices (BMP's) for reducing nutrient loads flowing into surface waters via residential, commercial, industrial and agricultural lands.	
Action 2.4.4		Consider stormwater master plan designs that utilizes an interconnected system of green infrastructure to reduce stormwater impacts.	
Action 2.4.5		Plan for future water supply by integrating potential future climate conditions, sea level rise scenarios, and potential impacts to water quality and supply into water management models that support supply plans, environmental resource permitting, and consumptive use permitting.	
Action 2.4.6		Expand partnerships and resources to further innovation in water resource management.	
Action 2.4.7		Advance comprehensive improvements to regional and local stormwater management practices.	
Add Action?			
Objective 2.5	K	Create programs that promote higher air quality for residents and reduce emissions and air pollution	EPA
Action 2.5.1	K	Explore the feasibility of a Forestry Master Plan - which would include an overall tree planting goal and annual target to expand regional forestry and provide a variety of benefits, including improving air quality and carbon sequestration. Blue carbon expansion too - ROWs of national highways for carbon sequestration areas.	
Action 2.5.2		Prioritize low-to-zero emission transportation modes such as electric and natural gas vehicles in policy plans and ordinance development.	
Action 2.5.3		Create Building Energy Reporting and Disclosure Ordinance to require large- and medium-sized buildings in TBRPC footprint to report their annual energy and water use and complete a major energy savings action or energy assessment every five years. Look at Oberlin, OH - interactive dashboard that shows water and energy use in each building	
Action 2.5.4		Create or expand bikeshare programs to connect more residents in neighborhoods currently lacking bikeshare services.	

Action 2.5.5		Implement community outreach and education programs that promote emission reduction techniques and other sustainable practices that improve air quality	
Add Action?			

Instructions	1. Please add the names of the group members to the column below. 2. For the first breakout discussion, please review Goals 1 and their objectives. In the second breakout, please review Goal 2. 3. In column B indicate if the goal should be kept as is (K) deleted (D) or edited (E). 4. Suggestions for revisions can be added in the line below the corresponding goal or objective. 5. Additional Objectives and Actions can be added at the bottom of each goal section. 6. If time permits please take time to review the actions and suggest revisions as needed.		
Group Members:	Group 7		
Overarching Aspirational Goal	Indicate if the goal should be kept as is (K) deleted (D) or edited (E).	<i>The region supports resilient communities and neighborhoods while managing growth and preserving and protecting natural resources.</i>	
Section Goal	Enhance the capacity of natural systems and infrastructure for climate adaptation		Responsible Organizations
Goal 1	E	Thriving habitats and abundant wildlife	
		Include language about native habitats/ecosystems; include biodiversity	
Objective 1.1	E	Improve the ability of bay habitats and ecosystems to adapt to a changing climate.	
		Should add statement about other stressors because action items below address things outside of just climate change such as human impact on the environment	
Action 1.1.1	K	Assess the vulnerability of critical coastal habitats to sea level rise and support adaptation strategies that promote the long-term resiliency and diversity of these habitats.	TBEP (lead), SWFWMD, USFWS, local governments
Action 1.1.2	K	Continue to implement Critical Coastal Habitat Assessment monitoring at permanent transects to track long-term changes from climate change and other stressors to coastal habitats and species.	TBEP (lead), local government and agency partners
Action 1.1.3	K	Implement the Tampa Bay Habitat Master Plan	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Action 1.1.4	E	Continue to identify carbon sequestration benefits and economic incentives to preserve coastal habitats through voluntary carbon markets or other mechanisms. Assist land management agencies in developing site management plans that maximize carbon sequestration benefits of appropriate coastal habitats held in preservation or conservation.	Restore America's Estuaries, TBEP, academic institutions, SWFWMD, local governments, FDEP
		Suggest separating into two different action items as they seem to require different pathways of success	
Action 1.1.5	K	Support and assist with purchase, protection and/or restoration of priority sites to serve as climate change refuges and upslope buffers for critically important habitats and species. Support adoption of land management strategies such as rolling easements, coastal construction setbacks and living shorelines.	SWFWMD, USFWS, FDEP, other state, federal and local government land acquisition programs and land trusts
Action 1.1.6	E	Enhance community understanding of the potential impacts of climate change on coastal habitats and encourage actions by state and local entities and citizens to help adapt to or mitigate effects. Develop metrics to measure citizen outreach effectiveness.	Florida Sea Grant, local government sustainability programs, TBEP, UF/IFAS Extension, St. Petersburg College Sea Level Rise Group
		Include statement about developing education/information distribution plan	
Action 1.1.7	E	Expand habitat for pollinators and other wildlife such as aquatic wildlife, soil invertebrates and more, by creating, restoring, and maintaining natural areas, recognizing that one third of our food supply relies on pollinators.	
		It's saying we need to do this but there is no suggestion on how to accomplish this action item--maybe work with farmers through university Ag extension	UF IFAS/Extension
Add Action?		Clarify other stressors or call them out individually, for habitat resiliency we need to look at water quantity, pollution, fishing, sedimentation, hydraulics, general bay activity, etc.	
		Need specific strategies of how to integrate/encourage various jurisdiction involvement and action	
Objective 1.2		Improve or maintain water quality resulting in fishable, swimmable and drinkable water.	

Action 1.2.1	E	Retain existing natural areas on shorelines whenever feasible through implementation of policies, criteria, standards, methodologies and procedures.	
		Include responsible parties	
Action 1.2.2	K	Implement the Tampa Bay nutrient management strategy.	TBEP (lead), with water quality data from EPCHC, local government and agency partners
Action 1.2.3	K	Reduce the frequency and duration of harmful algal blooms through the activities of the CCMP Action WQ-3	
Action 1.2.4	E	Reduce nitrogen loading from atmospheric deposition.	
		How is this done? what about other nitrogen sources?	
Action 1.2.5	E	Expand green infrastructure practices.	
		Vague, general statement. Clarify expand. Please give examples for practices specific to water quality improvement	
Action 1.2.6	K	Reduce the occurrence of sanitary sewer overflows to the bay.	
Add Action?			
Objective 1.3		Preserve the diversity and abundance of Tampa Bay's fish and wildlife.	
Action 1.3.1		Compile and develop information of the effects of ocean acidification to regional habitats and fisheries.	TBEP
Action 1.3.2		Expand monitoring programs for key species as needed to adapt to new threats.	FWC, USFWS, Audubon Florida (leads), FDEP, EPCHC, TBEP, Tampa Bay Watch
Action 1.3.3		Explore and support programs and projects that protect and expand habitats for waterbirds and beach-nesting shore birds	Tampa Bay Dredging Advisory Group, Tampa Bay Migratory Bird Protection Committee, Agency on Bay Management Habitat Restoration Subcommittee, Port Tampa Bay, USACE, Audubon Florida, USFWS, FWC, Eckerd College, Audubon Florida and local Audubon chapters
Action 1.3.4		Implement the Bay Habitat Master Plan and relevant CCMP actions to achieve targets and goals for critical fish and wildlife habitats, including Actions BH-1, BH2, BH-9 and BH-10.	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Add Action?			
Objective 1.4		Promote the protection and restoration of coastal natural systems and the creation of living shorelines at the regional scale.	
Action 1.4.1		Identify specific locations and general conditions that could utilize living shorelines in place of, or in combination with, seawalls.	
Action 1.4.2		Encourage interagency and public process efforts to create shoreline plans for coastal areas	
Action 1.4.3		Write regulations encouraging the use or integration of living shorelines where feasible.	
Add Action?			

Goal 2	E	Infrastructure and services that supports resilient and healthy community environments, where residents and businesses thrive.	
		edit: Where communities thrive so there is no discussion of what defines a resident or business	
Objective 2.1	K	Infrastructure and services are planned, built, and managed to maximize function and longevity under future climate conditions.	
Action 2.1.2	K	Update critical infrastructure policies based on community vulnerability assessment conducted in Chapter 2	
Action 2.1.3	E	Identify future inundation and nuisance flooding to determine areas of flood impacts to transportation and water infrastructure.	
		Need more examples/ more inclusive language for what we are protecting from flood impacts--more than transportation and water infrastructure at risk	
Action 2.1.4	D	Develop regional and capacity building for conducting and preparing integrated cost-benefit analysis for grants.	TBRPC, Partners
		Not sure what this is saying, what is regional modifying here? What is integrated? Cost and benefit?	
Action 2.1.5	E	Update stormwater master plan with updated project list based on cost-benefit analysis.	
		Need more detail	
Action 2.1.6	E	Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
		Why legal justification? Legal reasons may not be the only reason preventing upgrade/mitigation	
Action 2.1.7	E	Increase installation of cool roofs and other cooling techniques, including planting more shade trees, in neighborhoods where concrete and other hard surfaces trap and collect heat, creating "heat islands".	
		remove "in neighborhoods"	
Action 2.1.8	K	Prioritize public infrastructure within Adaptation Action Areas for adaptation/mitigation strategies to the effects of high winds, storm surge, flooding and wave velocity.	
Action 2.1.9	E	Design and development are informed by the latest climate science to protect and modify existing public and private infrastructure and assets and how to design new infrastructure and assets	
		Provide example of sources for climate science to help lessen chance of misinformation	
Action 2.1.10	D	Assess the need for future costs of mosquito control to mitigate vector-borne illness.	
		make more general or clarify "need for future costs" need for future mosquito control and/or projected costs. is pest control a part of infrastructure	
Action 2.1.11	K	Establish or expand the use of cooling shelters for extreme heat days.	
Add Action?			
Objective 2.2	K	Prioritize green infrastructure projects which mitigate hazards and provide environmental, social and economic benefits.	
Action 2.2.1	K	Assess comprehensive plan, LDRs and process applications for barriers to implementing green infrastructure and to prioritize natural, nature-based and hybrid resilience strategies.	
Action 2.2.2	K	Update comprehensive plans, LDRs and processes to include green infrastructure and assess nature-based adaptation strategies as a first step.	
Action 2.2.3	K	Utilize multiple funding sources to move projects and programs forward that focus on Green Infrastructure.	
		broad statement, should be taken into consideration for every objective so may not be necessary. Be more specific of funding sources	
Add Action?			
Objective 2.3	D	Increase resilience to climate change-related hazards, including extreme weather	
		Seems to be the same as 2.1 and has a lot of the same action items as 2.1. Combine 2.3 & 2.1 into 1 objective	
Action 2.3.1		Develop a comprehensive heat island mitigation strategy and implementation plan that addresses cool pavements and roofs, pavement reduction, and neighborhood greening.	

Action 2.3.2		Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
Action 2.3.3		Implement locally tailored tree and vegetation planting and maintenance projects in collaboration with community-based organizations to reduce the impacts of heat island in low canopy areas.	
Action 2.3.4		Fortify public health and healthcare critical infrastructure and leverage partnerships with private and public health organizations and service providers to improve community health and wellness	
Action 2.3.5		Community and business stakeholders are included in the need identification process prior to designing infrastructure projects to reduce impacts to extreme weather.	
Action 2.3.6		Local governments define integrated flood mitigation projects to reduce current and future risks, located in the Special Flood Hazard Area and prepare robust cost-benefit analysis to support FEMA BRIC applications	
Action 2.3.7		Promote post-disaster power resiliency through increased renewable energy development, production, and storage	
Action 2.3.8	E	Ensure that infrastructure projects are equitably dispersed to reduce risks in low-income neighborhoods and minority communities.	
		move to objective 2.2	
Add Action?			
Objective 2.4		Advance water management strategies, infrastructure improvements, and water conservation efforts to mitigate the potential adverse impacts of climate change on water supplies, water and wastewater infrastructure, and water management systems	
Action 2.4.1	K	Assess the benefits of implementing One Water as a driving principle	
Action 2.4.2	K	Develop a set of regional best practices and design standards for stormwater management	
Action 2.4.3	K	Identify and educate communities about best management practices (BMP's) for reducing nutrient loads flowing into surface waters via residential, commercial, industrial and agricultural lands.	
Action 2.4.4	E	Consider stormwater master plan designs that utilizes an interconnected system of green infrastructure to reduce stormwater impacts.	
		Consider changing the word consider to something stronger, more action-based	
Action 2.4.5	K	Plan for future water supply by integrating potential future climate conditions, sea level rise scenarios, and potential impacts to water quality and supply into water management models that support supply plans, environmental resource permitting, and consumptive use permitting.	
Action 2.4.6	D	Expand partnerships and resources to further innovation in water resource management.	
		non specific	
Action 2.4.7	E	Advance comprehensive improvements to regional and local stormwater management practices.	
		merge with item 2.4.2	
Add Action?			
2.4.8		Identify key protection areas to ensure sustainable water supply for consumption.	
2.4.9		Follow up to ensure environmental and consumptive use permits are being utilized appropriately as issued.	
Objective 2.5		Create programs that promote higher air quality for residents and reduce emissions and air pollution	
Action 2.5.1		Explore the feasibility of a Forestry Master Plan - which would include an overall tree planting goal and annual target to expand regional forestry and provide a variety of benefits, including improving air quality and carbon sequestration.	

Action 2.5.2		Prioritize low-to-zero emission transportation modes such as electric and natural gas vehicles in policy plans and ordinance development.	
Action 2.5.3		Create Building Energy Reporting and Disclosure Ordinance to require large- and medium-sized buildings in TBRPC footprint to report their annual energy and water use and complete a major energy savings action or energy assessment every five years.	
Action 2.5.4		Create or expand bikeshare programs to connect more residents in neighborhoods currently lacking bikeshare services.	
Action 2.5.5		Implement community outreach and education programs that promote emission reduction techniques and other sustainable practices that improve air quality	
Add Action?			

Instructions	1. Please add the names of the group members to the column below. 2. For the first breakout discussion, please review Goals 1 and their objectives. In the second breakout, please review Goal 2. 3. In column B indicate if the goal should be kept as is (K) deleted (D) or edited (E). 4. Suggestions for revisions can be added in the line below the corresponding goal or objective. 5. Additional Objectives and Actions can be added at the bottom of each goal section. 6. If time permits please take time to review the actions and suggest revisions as needed.		
Group Members:	Group 8		
Overarching Aspirational Goal	Indicate if the goal should be kept as is (K) deleted (D) or edited (E).	<i>The region supports resilient communities and neighborhoods while managing growth and preserving and protecting natural resources.</i>	
Section Goal	k	Enhance the capacity of natural systems and infrastructure for climate adaptation	Responsible Organizations
Goal 1		Thriving habitats and abundant wildlife	
Objective 1.1	e	Improve the ability of coastal habitats and ecosystems to adapt to a changing climate. Include the numeric targets from the Habitat Master Plan (seagrass, mangroves, marsh, freshwater wetlands, coastal uplands, oysters/hard bottom)	
Action 1.1.1	k	Assess the vulnerability of critical coastal habitats to sea level rise and support adaptation strategies that promote the long-term resiliency and diversity of these habitats. Example strategies: Rolling easements, living shorelines	TBEP (lead), SWFWMD, USFWS, local governments
Action 1.1.2	k	Continue to implement Critical Coastal Habitat Assessment monitoring at permanent transects to track long-term changes from climate change and other stressors to coastal habitats and species.	TBEP (lead), local government and agency partners
Action 1.1.3		Implement the Tampa Bay Habitat Master Plan	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Action 1.1.4	e	Implement projects that provide carbon sequestration benefits and secure economic incentives to preserve coastal habitats through voluntary carbon markets or other mechanisms. This could be separated into a few actions.	Restore America's Estuaries, TBEP, academic institutions, SWFWMD, local governments, FDEP
Action 1.1.5		Support and assist with purchase, protection and/or restoration of priority sites to serve as climate change refuges and upslope buffers for critically important habitats and species. Support adoption of land management strategies such as rolling easements, coastal construction setbacks and living shorelines.	SWFWMD, USFWS, FDEP, other state, federal and local government land acquisition programs and land trusts
Action 1.1.6	E	Enhance community understanding of the potential impacts of climate change on coastal habitats and encourage actions by state and local entities and citizens to help adapt to or mitigate effects. Develop metrics to measure citizen outreach effectiveness. This should go in the People chapter	Florida Sea Grant, local government sustainability programs, TBEP, UF/IFAS Extension, St. Petersburg College Sea Level Rise Group
Action 1.1.7	E	Expand habitat for pollinators and other wildlife such as aquatic wildlife, soil invertebrates and more, by creating, restoring, and maintaining natural areas, recognizing that one third of our food supply relies on pollinators. Could be deleted	
Add Action?		Add green infrastructure/ nature-based solutions action	
Objective 1.2	E	Improve water quality	

Action 1.2.1	E	Retain existing natural areas on shorelines whenever feasible through implementation of policies, criteria, standards, and procedures.	
		move down to objective 1.4	
Action 1.2.2	K	Implement the Tampa Bay nutrient management strategy.	TBEP (lead), with water quality data from EPCHC, local government and agency partners
Action 1.2.3	E	Reduce the frequency and duration of harmful algal blooms through the activities of the CCMP Action WQ-3	
		- too specific, not meaningful. Mostly WQ-3 Activity 2 - reduce nutrients, improve circulation, restore hydrology, bioremediation through shellfish restoration	
Action 1.2.4	E	Reduce nitrogen loading from atmospheric deposition, by exploring regional solutions for transit, reduction of	
		Regionally explore commitments to transit solutions, renewable energy technology, etc	
Action 1.2.5	E	Expand green infrastructure practices.	
		Expand nature-based solutions; vague	
Action 1.2.6		Reduce the occurrence of sanitary sewer overflows to the bay.	
		Expand	
Add Action?			
Objective 1.3		Preserve the diversity and abundance of Tampa Bay's fish and wildlife.	
Action 1.3.1		Compile and develop information of the effects of ocean acidification to regional habitats and fisheries.	TBEP
Action 1.3.2		Expand monitoring programs for key species as needed to adapt to new threats.	FWC, USFWS, Audubon Florida (leads), FDEP, EPCHC, TBEP, Tampa Bay Watch
Action 1.3.3		Explore and support programs and projects that protect and expand habitats for waterbirds and beach-nesting shore birds	Tampa Bay Dredging Advisory Group, Tampa Bay Migratory Bird Protection Committee, Agency on Bay Management Habitat Restoration Subcommittee, Port Tampa Bay, USACE, Audubon Florida, USFWS, FWC, Eckerd College, Audubon Florida and local Audubon chapters
Action 1.3.4		Implement the Bay Habitat Master Plan and relevant CCMP actions to achieve targets and goals for critical fish and wildlife habitats, including Actions BH-1, BH2, BH-9 and BH-10.	TBEP (lead), FWC, NOAA, Local cities and counties, SWFWMD, The Nature Conservancy, Tampa Bay Conservancy, private entities
Add Action?			
Objective 1.4		Promote the protection and restoration of coastal natural systems and the creation of living shorelines at the regional scale.	
Action 1.4.1		Identify specific locations and general conditions that could utilize living shorelines in place of, or in combination with, seawalls.	
Action 1.4.2		Encourage interagency and public process efforts to create shoreline plans for coastal areas	
Action 1.4.3		Write regulations encouraging the use or integration of living shorelines where feasible.	
Add Action?			

Goal 2	E	Infrastructure and services that supports resilient and healthy community environments to the effects of climate change	
		More targeted to climate change/sea level rise	
Objective 2.1	E	Infrastructure and services are planned, built, and managed to maximize function and longevity under future climate conditions.	
		Incorporate adaptation AND mitigation	
Action 2.1.2	E	Update critical infrastructure policies based on community vulnerability assessment by local communities aligning Chapter 2.	
Action 2.1.3	E	Identify future inundation and nuisance flooding to determine areas of flood impacts to infrastructure.	
Action 2.1.4	E	Build regional capacity for conducting and preparing integrated cost-benefit analysis for grants.	TBRPC, Partners
		Unclear. More than just cost benefit-- also how to collaborate between jurisdictions.	
Action 2.1.5	E	Update stormwater master plan with updated project list based on cost-benefit analysis.	
		Unclear. More than just cost-benefit.	
Action 2.1.6	E	Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact.	
		Where the rubber meets the road. Retreat strategy.	
		Elevation-based triggers/thresholds/tipping points. (Not based on projections or dates).	
Action 2.1.7	k	Increase installation of cool roofs and other cooling techniques, including planting more shade trees, where concrete and other hard surfaces trap and collect heat, creating "heat islands".	
		Adaptative measures to offset extreme heat from climate change	
Action 2.1.8		Prioritize public infrastructure within Adaptation Action Areas for adaptation/mitigation strategies to the effects of high winds, storm surge, flooding and wave velocity.	
		Are we encouraging AAAs? They are not currently widely adopted and governments need more help to figure out how they can be useful policy tools. Also applicable beyond wind/surge/flood/waves	
Action 2.1.9	D	Design and development are informed by the latest climate science to protect and modify existing public and private infrastructure and assets and how to design new infrastructure and assets	
Action 2.1.10	E?	Assess the need for future costs of mosquito control to mitigate vector-born illness.	
		Move to people?	
Action 2.1.11	E	Establish or expand the use of cooling shelters for extreme heat days.	
		move to people section	
Add Action?			
Objective 2.2	E	Prioritize green infrastructure projects which mitigate hazards and provide environmental, social and economic benefits.	
		Define green infrastructure or use nature-based solutions	
Action 2.2.1		Assess comprehensive plan, LDRs and process applications for barriers to implementing green infrastructure and to prioritize natural, nature-based and hybrid resilience strategies.	
Action 2.2.2		Update comprehensive plans, LDRs and processes to include green infrastructure and assess nature-based adaptation strategies as a first step.	
Action 2.2.3		Utilize multiple funding sources to move projects and programs forward that focus on Green Infrastructure.	
Add Action?			
Objective 2.3		Increase resilience to climate change-related hazards, including extreme weather	
Action 2.3.1		Develop a comprehensive heat island mitigation strategy and implementation plan that addresses cool pavements and roofs, pavement reduction, and neighborhood greening.	

Action 2.3.2		Identify a process or mechanism to determine what infrastructure/areas may not be upgraded or mitigated at a certain time or impact. Reference previous data/information developed on stormwater and cost/benefit analysis in this analysis to help create a legal justification of decisions.	
Action 2.3.3		Implement locally tailored tree and vegetation planting and maintenance projects in collaboration with community-based organizations to reduce the impacts of heat island in low canopy areas.	
Action 2.3.4		Fortify public health and healthcare critical infrastructure and leverage partnerships with private and public health organizations and service providers to improve community health and wellness	
Action 2.3.5		Community and business stakeholders are included in the need identification process prior to designing infrastructure projects to reduce impacts to extreme weather.	
Action 2.3.6		Local governments define integrated flood mitigation projects to reduce current and future risks, located in the Special Flood Hazard Area and prepare robust cost-benefit analysis to support FEMA BRIC applications	
Action 2.3.7		Promote post-disaster power resiliency through increased renewable energy development, production, and storage	
Action 2.3.8		Ensure that infrastructure projects are equitably dispersed to reduce risks in low-income neighborhoods and minority communities.	
Add Action?			
Objective 2.4		Advance water management strategies, infrastructure improvements, and water conservation efforts to mitigate the potential adverse impacts of climate change on water supplies, water and wastewater infrastructure, and water management systems	
Action 2.4.1		Assess the benefits of implementing One Water as a driving principle	
Action 2.4.2		Develop a set of regional best practices and design standards for stormwater management	
Action 2.4.3		Identify and educate communities about best management practices (BMP's) for reducing nutrient loads flowing into surface waters via residential, commercial, industrial and agricultural lands.	
Action 2.4.4		Consider stormwater master plan designs that utilizes an interconnected system of green infrastructure to reduce stormwater impacts.	
Action 2.4.5		Plan for future water supply by integrating potential future climate conditions, sea level rise scenarios, and potential impacts to water quality and supply into water management models that support supply plans, environmental resource permitting, and consumptive use permitting.	
Action 2.4.6		Expand partnerships and resources to further innovation in water resource management.	
Action 2.4.7		Advance comprehensive improvements to regional and local stormwater management practices.	
Add Action?			
Objective 2.5	e	Create programs that promote better air quality for residents and reduce emissions and air pollution	
Action 2.5.1		Explore the feasibility of a Forestry Master Plan - which would include an overall tree planting goal and annual target to expand regional forestry and provide a variety of benefits, including improving air quality and carbon sequestration.	
Action 2.5.2		Prioritize low-to-zero emission transportation modes such as electric and natural gas vehicles in policy plans and ordinance development.	
Action 2.5.3		Create Building Energy Reporting and Disclosure Ordinance to require large- and medium-sized buildings in TBRPC footprint to report their annual energy and water use and complete a major energy savings action or energy assessment every five years.	

Action 2.5.4		Create or expand bikeshare programs to connect more residents in neighborhoods currently lacking bikeshare services.	
Action 2.5.5		Implement community outreach and education programs that promote emission reduction techniques and other sustainable practices that improve air quality	
Add Action?			