

Clean Energy Workshop	1. Please add the names of the group members to the column below. 2. For the first breakout discussion, please review Chapter 2, 3 and 5. In the second breakout, please review Chapter 4 Place. 3. If your group feels proposed language should be edited insert revised text in the line below the corresponding goal, objective, action. 4. Additional Objectives and Actions can be added at the bottom of each goal section.	Responsible Agencies	Tags for Cross cutting Chapters
Group Members:	Group 1		
CHAPTER 2: COMMUNITY VULNERABILITY			
GOAL 1	The region becomes more resilient and equitable by addressing community vulnerability and housing vulnerability.		
Objective 1.	Vulnerabilities are identified and recommendations are integrated into all planning functions to address the needs of all residents, public health, and improvements to municipal operations and infrastructure.	Local Government/T BRPC/MPOs	Prosperity
Action	Conduct vulnerability assessments for infrastructure and publicly owned community assets.	Local Government	
Revise			
Action	Conduct community vulnerability assessments: develop plan for assessing specific Community Lifelines and for conducting community-neighborhood level assessments and define disparities associated with income, age, and race.	Local Government/T BRPC/MPOs	
Revise			
Action	Define community health metrics to support targeted vulnerability assessments and strengthen climate resilience planning.	DOH/HIAP Planners	
Keep	Enter suggestions here		
Action	Obtain a grant to support a region-wide study to quantify and visualize greenhouse gases emitted by source, identify areas with poor air quality that impact nearby by communities and enable decision making to reduce emissions.	TBRBC	PLACE, Transportation, Clean Energy
Revise	Reword grant to funding sources		
Add Actions?			
Objective 2.	The region uses science-based assessments to improve housing planning, mitigation, and construction outcomes.		
Keep			
Action	Develop a framework, process, and metrics to evaluate community vulnerability and affordable housing risks. Create an "all hazard" matrix for housing	TBRPC	
Revise	Clarify what "all hazard" means. Natural vs. other hazards?		
Action	Conduct housing vulnerability assessments using standardized, science-based methods to quantify and map inundation risks to current and future sea level rise.	TBRPC/Local Governments	
Keep	Enter suggestions here		
Action	Conduct affordable housing stock "windshield or walking tour" assessments to define energy and weather mitigation needs in LMI communities.	local Governments	

Keep	Need tool for assessments		
Action	Develop new construction goals which include potential housing stock losses and specific income categories.	local governments	
Keep/clarity	ID specific areas for new construction to occur in post disaster.		
Add Actions?			
CHAPTER 3: PEOPLE			
Overarching goal	Local and regional responses to the effects of climate change will be advanced through organizational and fiscal management at the local government level, and community-led preparedness and recovery.		
Goal 1	Local governments maximize their efforts to implement climate adaptation and mitigation activities through an expanded internal capacity and cross-departmental coordination.		
Objective 1.1	The Region will strengthen local government organizational capacity by implementing best practices.		
Action	Develop resilience and sustainability plans and synchronize with other plans, including the strategic plans, the Comprehensive Plan, OMB annual plan, and others.	TBRPC, Member Govts.	
Keep	Clarify "others".		
Action	Resilience and sustainability objectives are integrated into departmental programs, budgets, positions, and performance metrics.	TBRPC, Member Govts.	
Keep	Enter suggestions here		
Action	Local governments establish greenhouse gas reduction goals, strategies and monitoring programs for municipal operations and public facilities.	Local governments	
Revise	Need an easy tool to measure/calculate GH gases. Does not require hiring consultants or new staff necessarily		
Action	Local governments establish renewable energy goals, strategies and target dates for municipal operations and public facilities	Local governments	
Revise	Target dates are often unrealistic. Provide list of typical timeframes for various types of initiatives		
Add Actions?			
Chapter 5: Prosperity			
Overarching goal	The regional economy is protected through integrated disaster preparedness and supports growth through resilience innovation in existing industries and new sectors.		
Goal 1	Businesses can recover quickly from the impacts of current and future climate hazards.		
	What about pandemics		
Action	Encourage collaboration with chambers of commerce and business associations to support energy efficiency retrofits and improvements for businesses	TBP, TBRPC, Local Gov, Business Orgs	
Revise	Add in hardening of business infrastructure/buildings		
Add Actions?			
Goal 2	Key economic sectors and local businesses increase capacity to provide resilience and sustainability services and grow.		

Objective 2.1	Create a coordinated economic and workforce development plan to support growth for higher wage clean energy and resilience-focused construction, engineering, and technology jobs.	TBRPC/ Tampa Bay Works	
Keep	Enter suggestions here		
Action	Support the formation of the Tampa Bay Resilience and Economic Development Initiative (REDI) to engage business, finance markets and civic sector	TBRPC/TBP/TBW	
Keep	Enter suggestions here		
Action	Climate resilience and risk mitigation is integrated into the region's Comprehensive Economic Development Strategies (CEDs).	TBRPC	
Keep	Enter suggestions here		
Action	Engage business sectors to develop recommendations for supporting resilience investment to address the TBP "Business Case for Resilience" study.	Tampa Bay Partnership, TBRPC	
Keep	Enter suggestions here		
Action	Establish partnerships with universities to create Resilience Accelerator(s) to catalyze growth for new resilience-oriented business services and technologies to address the region's challenges.	TBRPC	
Revise	Clarify what a "resilience Accelerator" is.		
Action	The TBRPC will work with USF, UF Sea Grant, NOAA and St. Pete Ocean Team to engage fishery management councils, scientists, and other stakeholders to define impacts to regional fisheries and aquaculture businesses and define potential strategies to increase economic resilience to extreme weather and climate change,	TBRPC	
Keep	add collaborate with local, regional, state and federal agencies, etc. What about TBEP?		
Action	The TBRPC will collaborate with IFAS and others to study risks to the agriculture sector and support development of plans to adapt to and mitigate the effects of climate change	TBRPC	
Keep	Enter suggestions here		
Action (NEW)	Collaborate with Universities and Colleges to create updated regional jobs analysis to support regional clean energy goals and actions (i.e. municipal and private sector); define specific workforce skills needed to meet growth for solar, storage, data management and other tasks	TBP/TBRPC	
Keep	Enter suggestions here		
Action (NEW)	Support clean energy and energy efficiency workforce training programs and pathways to transition workers from low-wage jobs.		
Keep	Enter suggestions here		
Action (NEW)	Goals for green economies, jobs and STEAM workforce development goals are updated and integrated into existing workforce programs		
Keep	Enter suggestions here		
Action (NEW)	Promote development of green (sustainability) and blue (resilience) economic clusters		
Keep	Enter suggestions here		
Add Actions?			

Chapter 4: Place Housing/Land Use

Overarching goal	The region solves the housing affordability crisis and grows resiliently and sustainably through innovative and equitable planning, investment, and construction.		
Goal 1	The region increases the number of resilient, safe, affordable, and attainable homes.		
Objective 1.2	Establish and implement regionally consistent Resilient Green Housing Construction and Site standards, using FGBC and other frameworks, for a wide range of housing types including smaller multi-family properties to support housing affordability goals.		
	Enter suggestions here		
Action	Green and resilience standards for buildings and sites are integrated into Land Development Regulations/Code	Local Governments	
	Enter suggestions here		
Action	Develop incentives for developers to build outside vulnerable areas, and in vulnerable areas, adopt in a resilient/sustainable building standard. way in vulnerable areas.	Local Gov.	
	Enter suggestions here		
Action	Develop policies and strategies to reduce heat island effects in new development or projects, redevelopment, and other opportunities.	Local Gov.	
	Enter suggestions here		
Add Actions?			
Goal 2	Development and redevelopment are more resilient to current and future flooding, heat, wind, and other disasters.		
Action	Enhance/implement requirements to encourage property owners and government facilities to use green design and cooling strategies to reduce carbon emissions.	Local Gov.	
	Enter suggestions here		
Action	Apply HUD energy efficiency requirements for new construction to all multi-family properties.		
	Enter suggestions here		
Action	Support robust, ongoing housing retrofit programs and strategies targeting LMI communities and ALICE populations for rental, owner, and supported living housing.	Local Gov.	
	Enter suggestions here		
Action	Adopt best practices for building design and HVAC to mitigate near-road air pollution to support community health.	Local Gov	
	Enter suggestions here		
Add Actions?			
Chapter 4: Place (Buildings/Infrastructure)			
Overarching goal	Enhance the capacity of natural systems and infrastructure for climate mitigation and adaptation		
Goal	Infrastructure and services support resilient and healthy community environments, where residents and businesses thrive.		

Objective	Reduce methane and other emissions caused by gas systems and food waste.	Food Policy Advisory Council: MPOs	Food systems/Clean Energy/Infrastructure
Keep	Enter suggestions here		
Action	Encourage companies to collect data, conduct systems audits and measure their contribution to methane emissions.	local governments	
Keep	Enter suggestions here		
Action	Companies producing, distributing, and using oil and gas implement technologies and practices to cut methane emissions, reduce strategic and operational risk, and demonstrate their commitment to the environment.	Private sector	
Revise	Reword.		
Action	Increase communications and awareness of need to reduce food loss and improve waste diversion.	Local Governments, Partners; Food Policy Advisory Councils	
Keep	Enter suggestions here		
Action	Develop collaborations with grocery stores, restaurants, universities, schools, and hospitals to encourage implementation of programs that support the Food Recovery Hierarchy.	TBRPC, Local Gov.; Food Policy Advisory councils	
Keep	Enter suggestions here		
Action	Implement and or incentivize innovative waste reduction programs to reduce landfill.	local governments	
Keep	Enter suggestions here		
Add Actions?	Secure funding for compost waste collectors.		
Objective	Increase post-disaster power resilience for long-duration outages		
Keep	Enter suggestions here		
Action	Conduct Black Sky Planning for Community lifelines for long-duration, widespread power outages.	Local Gov. /TBRPC/Utilities	
Keep	Enter suggestions here		
Action	Conduct energy and power-resilience assessments for municipal operations, emergency systems to understand essential equipment energy needs	Local Gov.	
Keep			
Action	Develop plan for energy hardening upgrades and reduce reliance on diesel generators for backup power	Local Gov.	
Keep	Enter suggestions here		
Action	Re-assess power requirements to determine if additional generator capacity, battery banks or on-site renewable energy	Local Gov	

Revise	How often are we reassessing? 5 years? time requirement?		
Action	Use ClearSky tools and resources to identify critical municipal systems and facilities which are candidates for solar and backup battery and micro-grids	Local Gov	
Keep	Enter suggestions here		
Action	Encourage utility implementation and expansion of Clean Energy Connection programs to support local government renewable energy goals		
Keep	Enter suggestions here		
Add Actions?			
PLACE: TRANSPORTATION			
Goal	The Region has a connected multimodal transportation network that is resilient to extreme weather, reduces local emissions and enhances equitable mobility and public safety and health.		
	NOTE The transportation sector represents the largest source of Tampa Bay's GHG emissions, comprising X% of all GHG emissions in 2019 (SACE) The first draft of Transportation Goals and Actions were primarily focused on flood mitigation, road resilience, evacuation etc. The Clean Energy workshop will add new goals and actions to reduce fuel, emissions/pollution, and address heat.		
Objective 1.2	Prioritize transportation infrastructure investments that mitigate or adapt to a changing climate		
Revise	Add in mutually supporting projects (hardening/armouring, drainage, stormwater, etc.)		
Action	Use data from regional emissions study to update transportation plans and policies to define targets for transportation electrification strategies to reduce emissions.	TBARTA, TBCCC, local governments	
Reword	,,, emissions study to refine or influence.....		
Action	Prioritize alternative modes of transportation other than single-occupancy vehicles (e.g., transit, walking, biking, etc.) through comprehensive plan policies, such as Complete Streets, Vision Zero.	Local Gov.	
reword	Prioritize People First thru.....		
Action	Adopt transportation planning best practices to reduce road air pollution to support community health, with special emphasis for nearby housing, schools, and neighborhoods with concentrations of vulnerable populations.	TBARTA, TBCCC, local governments, MPOs, School Board	
Keep	Enter suggestions here		
Action	Document costs of protective measures needed to reduce roadway air pollution near housing, schools, and neighborhoods with concentrations of vulnerable populations.	TBARTA, TBCCC, local governments, MPOs, School Board	
Keep	Enter suggestions here		
Add Actions?	Develop cost-benefit ratios for various protective measures.	MPO; TBRPC	

Objective 1.3	Accelerate the Transition to Clean, Accessible, Resilient, and Equitable Transportation Mobility Systems		
Keep	Enter suggestions here		
Action	Convene a Resilient Transportation working group to review, provide input and update the Regional Rapid Transit Plan and define assessments	TBARTA, TBRPC	
Keep	Enter suggestions here		
Action	Host a regional workshop focused on creating greener transportation infrastructure and multi-modal transportation strategies.	TBRPC, TBARTA, MPOs,	
Reviseon creating resilient and sustainable infrastructure (ex. bioswales)....		
Action	Prepare coordinated request(s) for funding opportunities from federal government.	TBARTA, TBRRRC	
Reword	Add and state governments		
Action	Collaborate to assess financial needs and feasibility of county-wide transportation tax referenda to support future resilience and sustainable transportation projects.	TBRPC, Local Government, TBARTA	
Keep	Enter suggestions here		
Action	Increase Support technical training on fleet fuel consumption assessments, fuel reduction goals and conducting cost-benefit analysis	Tampa Bay Clean Cities Coalition	
Keep	Enter suggestions here		
Action	Conduct greenhouse gas and energy assessments for municipal fleet and transportation systems.	Local governments	
Keep	Enter suggestions here		
Action	Develop local plans for transitioning municipal vehicles, fleets, and school buses to fuel efficient hybrid or electric vehicles.	Local governments, School Boards	
Keep	Enter suggestions here		
Action	Utilize local data to define charging infrastructure needs, develop plan and set goals to increase the electrification of transportation and mobility	Local governments	
Keep	Note: federal and state goals for guidelines; provide guidance / best practices on land use and zoning development requirements to encourage installation of charging infrastructure for developments of a certain size? Provide guidance on incentives as well.	TBCCC, TBRPC, TBARTA?	
	Provide sample scope of services		
Action	Define and eliminate policy barriers to expand and accelerate plug-in electric vehicle adoption	Local governments	
Keep	Enter suggestions here		

Action	Develop policies/incentives to encourage inclusion of EV, solar + storage infrastructure in new multi-family buildings and commercial buildings.	Local governments, property owners	
Keep	Enter suggestions here		
Action	Assess feasibility of coordinated procurement strategies for renewable energy and EV to support smaller local governments	Counties	
Revise	Use "Develop: instead of "Assess"?		
Add Actions?	Promote an interconnected trail system for non-motorized transportation.		
	Make the use of electric golf carts for short trips on low speed roadways allowable.		

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Group Members:	Group 2		
CHAPTER 2: COMMUNITY VULNERABILITY			
GOAL 1	The region becomes more resilient and equitable by addressing community vulnerability and housing vulnerability.		
Objective 1.	Vulnerabilities are identified and recommendations are integrated into all planning functions to address the needs of all residents, public health, and improvements to municipal operations and infrastructure.	Local Government/TBRPC/MPOs	Prosperity
	key to put value/track costs. what does resiliency/sustainability really mean?		
Action	Conduct vulnerability assessments for infrastructure and publicly owned community assets.	Local Government	
	high energy consumption like wastewater treatment, also emergency shelters serve more vulnerable populations, schools too,		
Action	Conduct community vulnerability assessments: develop plan for assessing specific Community Lifelines and for conducting community-neighborhood level assessments and define disparities associated with income, age, and race.	Local Government/TBRPC/MPOs	
	lay in place a process that identifies the longterm value of actions - internal operations, transportation electrification and health		
Action	Define community health metrics to support targeted vulnerability assessments and strengthen climate resilience planning.	DOH/HIAP Planners	
	valuing externalities like pollution/clean air eg near-road air pollution		
Action	Obtain a grant to support a region-wide study to quantify and visualize greenhouse gases emitted by source, identify areas with poor air quality that impact nearby by communities and enable decision making to reduce emissions.	TBRBC	PLACE, Transportation, Clean Energy
	need to update existing inventories and expand from internal operations to community-wide		
Add Actions?	factoring in health more - equity, energy and health		
Objective 2.	The region uses science-based assessments to improve housing planning, mitigation, and construction outcomes.		
Action	Develop a framework, process, and metrics to evaluate community vulnerability and affordable housing risks. Create an "all hazard" matrix for housing	TBRPC	
	factor in health costs for air pollution and GHG		
Action	Conduct housing vulnerability assessments using standardized, science-based methods to quantify and map inundation risks to current and future sea level rise.	TBRPC/Local Governments	
	using GIS software		

Action	Conduct affordable housing stock "windshield or walking tour" assessments to define energy and weather mitigation needs in LMI communities.	local Governments	
	adaptation to impacts with funding, clean energy solutions/hazard reduction/septic to sewere conversions like SELF financing		
Action	Develop new construction goals which include potential housing stock losses and specific income categories.	local governments	
	energy efficient construction but also relocation when SLR intrudes		
Add Actions?			
CHAPTER 3: PEOPLE			
Overarching goal	Local and regional responses to the effects of climate change will be advanced through organizational and fiscal management at the local government level, and community-led preparedness and recovery.		
Goal 1	Local governments maximize their efforts to implement climate adaptation and mitigation activities through an expanded internal capacity and cross-departmental coordination.		
Objective 1.1	The Region will strengthen local government organizational capacity by implementing best practices.		
Action	Develop resilience and sustainability plans and synchronize with other plans, including the strategic plans, the Comprehensive Plan, OMB annual plan, and others.	TBRPC, Member Govts.	
	including efficiency (lighting, HVAC), solar, storage and transition to EVs and the cost benefits		
Action	Resilience and sustainability objectives are integrated into departmental programs, budgets, positions, and performance metrics.	TBRPC, Member Govts.	
	track costs of adapting to climate impacts - heat, sea level rise		
Action	Local governments establish greenhouse gas reduction goals, strategies and monitoring programs for municipal operations and public facilities.	Local governments	
	Enter suggestions here		
Action	Local governments establish renewable energy goals, strategies and target dates for municipal operations and public facilities	Local governments	
	always consider life-cycle costs of clea energy solutions eg electric buses		
Add Actions?			
Chapter 5: Prosperity			
Overarching goal	The regional economy is protected through integrated disaster preparedness and supports growth through resilience innovation in existing industries and new sectors.		
Goal 1	Businesses can recover quickly from the impacts of current and future climate hazards.		
Action	Encourage collaboration with chambers of commerce and business associations to support energy efficiency retrofits and improvements for businesses	TBP, TBRPC, Local Gov, Business Orgs	
	Enter suggestions here		
Add Actions?			

Goal 2	Key economic sectors and local businesses increase capacity to provide resilience and sustainability services and grow.		
Objective 2.1	Create a coordinated economic and workforce development plan to support growth for higher wage clean energy and resilience-focused construction, engineering, and technology jobs.	TBRPC/ Tampa Bay Works	
	Enter suggestions here		
Action	Support the formation of the Tampa Bay Resilience and Economic Development Initiative (REDI) to engage business, finance markets and civic sector	TBRPC/TBP/TBW	
	Enter suggestions here		
Action	Climate resilience and risk mitigation is integrated into the region's Comprehensive Economic Development Strategies (CEDs).	TBRPC	
	FL send \$64.5B out of state to bring in fossil fuels. we need a goal to keep energy dollars local by saving energy or renewables		
Action	Engage business sectors to develop recommendations for supporting resilience investment to address the TBP "Business Case for Resilience" study.	Tampa Bay Partnership, TBRPC	
	Enter suggestions here		
Action	Establish partnerships with universities to create Resilience Accelerator(s) to catalyze growth for new resilience-oriented business services and technologies to address the region's challenges.	TBRPC	
	Enter suggestions here		
Action	The TBRPC will work with USF, UF Sea Grant, NOAA and St. Pete Ocean Team to engage fishery management councils, scientists, and other stakeholders to define impacts to regional fisheries and aquaculture businesses and define potential strategies to increase economic resilience to extreme weather and climate change,	TBRPC	
	Enter suggestions here		
Action	The TBRPC will collaborate with IFAS and others to study risks to the agriculture sector and support development of plans to adapt to and mitigate the effects of climate change	TBRPC	
	Enter suggestions here		
Action (NEW)	Collaborate with Universities and Colleges to create updated regional jobs analysis to support regional clean energy goals and actions (i.e. municipal and private sector); define specific workforce skills needed to meet growth for solar, storage, data management and other tasks	TBP/TBRPC	
	Enter suggestions here		
Action (NEW)	Support clean energy and energy efficiency workforce training programs and pathways to transition workers from low-wage jobs.		
	work with technical training programs		
Action (NEW)	Goals for green economies, jobs and STEAM workforce development goals are updated and integrated into existing workforce programs		
	Enter suggestions here		
Action (NEW)	Promote development of green (sustainability) and blue (resilience) economic clusters		
	Enter suggestions here		
Add Actions?			

Chapter 4: Place Housing/Land Use			
Overarching goal	The region solves the housing affordability crisis and grows resiliently and sustainably through innovative and equitable planning, investment, and construction.		
Goal 1	The region increases the number of resilient, safe, affordable, and attainable homes.		
Objective 1.2	Establish and implement regionally consistent Resilient Green Housing Construction and Site standards, using FGBC and other frameworks, for a wide range of housing types including smaller multi-family properties to support housing affordability goals.		
	explore innovative building technologies such as 3D printing, sealants, prefabs to bring costs down		
Action	Green and resilience standards for buildings and sites are integrated into Land Development Regulations/Code	Local Governments	
	eg. EV charging infrastructure upfront in multi-family; EV ready ordinances		
Action	Develop incentives for developers to build outside vulnerable areas, and in vulnerable areas, adopt in a resilient/sustainable building standard.	Local Gov.	
	building to FEMA codes gets you there		
Action	Develop policies and strategies to reduce heat island effects in new development or projects, redevelopment, and other opportunities.	Local Gov.	
	tree planting prioritizing carbon uptake, canopy trees, white roofs, light colored streets		
Add Actions?	need cooling centers to adapt		
	consider utility disconnection policies related to heat index		
	educate residents how to get help with utility bill and possibly tie to heat index; also applies to water bills		
Goal 2	Development and redevelopment are more resilient to current and future flooding, heat, wind, and other disasters.		
Action	Enhance/implement requirements to encourage property owners and government facilities to use green design and cooling strategies to reduce carbon emissions.	Local Gov.	
	incentives for landlords, extend programs to rentals		
Action	Apply HUD energy efficiency requirements for new construction to all multi-family properties.		
	also water/energy savings appliances		
Action	Support robust, ongoing housing retrofit programs and strategies targeting LMI communities and ALICE populations for rental, owner, and supported living housing.	Local Gov.	
	extend programs to rentals; incentivize landlords		
Action	Adopt best practices for building design and HVAC to mitigate near-road air pollution to support community health.	Local Gov	
	loan/financing program for high efficiency HVACs; oppose pre-emption on building design at state level		
Add Actions?	take advantage of FEMA programs in place making it more cost effective to harden. consider SELF financing		
Chapter 4: Place (Buildings/Infrastructure)			
Overarching goal	Enhance the capacity of natural systems and infrastructure for climate mitigation and adaptation		
Goal	Infrastructure and services support resilient and healthy community environments, where residents and businesses thrive.		

Objective	Reduce methane and other emissions caused by gas systems and food waste.		Food systems/Clean Energy/Infrastructure
	reduce gas stoves and wiring for gas into the home		
Action	Encourage companies to collect data, conduct systems audits and measure their contribution to methane emissions.	local governments	
	make use of waste to energy output, consider solar/storage at wastewater treatment plants to reduce emissions		
Action	Companies producing, distributing, and using oil and gas implement technologies and practices to cut methane emissions, reduce strategic and operational risk, and demonstrate their commitment to the environment.	Private sector	
	don't use fracked gas with has high methane		
Action	Increase communications and awareness of need to reduce food loss and improve waste diversion.	Local Governments, Partners	
	Enter suggestions here		
Action	Develop collaborations with grocery stores, restaurants, universities, schools, and hospitals to encourage implementation of programs that support the Food Recovery Hierarchy.	TBRPC, Local Gov.	
	Enter suggestions here		
Action	Implement and or incentivize innovative waste reduction programs to reduce landfill.	local governments	
	public education needed		
Add Actions?			
Objective	Increase post-disaster power resilience for long-duration outages		
	both short and longterm outages		
Action	Conduct Black Sky Planning for Community lifelines for long-duration, widespread power outages.	Local Gov. /TBRPC/Utilities	
	Enter suggestions here		
Action	Conduct energy and power-resilience assessments for municipal operations, emergency systems to understand essential equipment energy needs	Local Gov.	
	explore non-diesel backup power with batteries/micro-grid; batteries for lift stations;		
Action	Develop plan for energy hardening upgrades and reduce reliance on diesel generators for backup power	Local Gov.	
	explore non-diesel backup power with batteries/micro-grid; batteries for lift stations;		
Action	Re-assess power requirements to determine if additional generator capacity, battery banks or on-site renewable energy	Local Gov	
	Consider mix of grid and non-grid tied EV charging infrastructure for emergency operations		
Action	Use ClearSky tools and resources to identify critical municipal systems and facilities which are candidates for solar and backup battery and micro-grids	Local Gov	
	consider full lifecycle costs on alternatives to traditional gas infrastructure		

Action	Encourage utility implementation and expansion of Clean Energy Connection programs to support local government renewable energy goals		
	Enter suggestions here		
Add Actions?			
PLACE: TRANSPORTATION			
Goal	The Region has a connected multimodal transportation network that is resilient to extreme weather, reduces local emissions and enhances equitable mobility and public safety and health.		
	NOTE The transportation sector represents the largest source of Tampa Bay's GHG emissions, comprising X% of all GHG emissions in 2019 (SACE) The first draft of Transportation Goals and Actions were primarily focused on flood mitigation, road resilience, evacuation etc. The Clean Energy workshop will add new goals and actions to reduce fuel, emissions/pollution, and address heat.		
Objective 1.2	Prioritize transportation infrastructure investments that mitigate or adapt to a changing climate		
Action	Use data from regional emissions study to update transportation plans and policies to define targets for transportation electrification strategies to reduce emissions.	TBARTA, TBCCC, local governments	
	prioritize high pollution areas for clean buses, EV infrastructure		
Action	Prioritize alternative modes of transportation other than single-occupancy vehicles (e.g., transit, walking, biking, etc.) through comprehensive plan policies, such as Complete Streets, Vision Zero.	Local Gov.	
	better regional transit across the region, including mini transportations systems in neighborhood like St. Pete's downtown loop		
Action	Adopt transportation planning best practices to reduce road air pollution to support community health, with special emphasis for nearby housing, schools, and neighborhoods with concentrations of vulnerable populations.	TBARTA, TBCCC, local governments, MPOs, School Board	
	with flooding, we should consider elevated transport		
Action	Document costs of protective measures needed to reduce roadway air pollution near housing, schools, and neighborhoods with concentrations of vulnerable populations.	TBARTA, TBCCC, local governments, MPOs, School Board	
Add Actions?	need to make sure we have EV infrastructure across diverse communities		
Objective 1.3	Accelerate the Transition to Clean, Accessible, Resilient, and Equitable Transportation Mobility Systems		
	Enter suggestions here		

Action	Convene a Resilient Transportation working group to review, provide input and update the Regional Rapid Transit Plan and define assessments	TBARTA, TBRPC	
	include impacted communities who ride transit, a community survey perhaps, education that a good transit system would be faster and easier		
Action	Host a regional workshop focused on creating greener transportation infrastructure and multi-modal transportation strategies.	TBRPC, TBARTA, MPOs,	
	workshop is good but we need to define actions to move the infrastructure		
Action	Prepare coordinated request(s) for funding opportunities from federal government.	TBARTA, TBRRC	
	regional must be ready with shovel ready proposals. opportunity to think big in our regional to capture dollars. even with phased in projects, can include larger community to get buy in		
Action	Collaborate to assess financial needs and feasibility of county-wide transportation tax referenda to support future resilience and sustainable transportation projects.	TBRPC, Local Government, TBARTA	
	people need to see the long term opportunities for their communities		
Action	Increase Support technical training on fleet fuel consumption assessments, fuel reduction goals and conducting cost-benefit analysis	Tampa Bay Clean Cities Coalition	
	Enter suggestions here		
Action	Conduct greenhouse gas and energy assessments for municipal fleet and transportation systems.	Local governments	
	Enter suggestions here		
Action	Develop local plans for transitioning municipal vehicles, fleets, and school buses to fuel efficient hybrid or electric vehicles.	Local governments, School Boards	
	Enter suggestions here		
Action	Utilize local data to define charging infrastructure needs, develop plan and set goals to increase the electrification of transportation and mobility	Local governments	
	Note: federal and state goals for guidelines; provide guidance / best practices on land use and zoning development requirements to encourage installation of charging infrastructure for developments of a certain size? Provide guidance on incentives as well.	TBCCC, TBRPC, TBARTA?	
	Enter suggestions here		
Action	Define and eliminate policy barriers to expand and accelerate plug-in electric vehicle adoption	Local governments	
	all local governments have transition plans for fleets; consider both grid and non-grid tied EV chargers		
Action	Develop policies/incentives to encourage inclusion of EV, solar + storage infrastructure in new multi-family buildings and commercial buildings.	Local governments, property owners	
	allow for		

Action	Assess feasibility of coordinated procurement strategies for renewable energy and EV to support smaller local governments	Counties	
	Enter suggestions here		
Add Actions?			

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SEE NOTES AT BOTTOM OF THE DOC			
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Objective 1.	Vulnerabilities are identified and recommendations are integrated into all planning functions to address the needs of all residents, public health, and improvements to municipal operations and infrastructure.	Local Government/TBRPC/MPOs	Prosperity
	Enter suggestions here		
Action	Conduct vulnerability assessments for infrastructure and publicly owned community assets.	Local Government	
	Enter suggestions here		
Action	Conduct community vulnerability assessments: develop plan for assessing specific Community Lifelines and for conducting community-neighborhood level assessments and define disparities associated with income, age, and race.	Local Government/TBRPC/MPOs	
	Enter suggestions here		
Action	Define community health metrics to support targeted vulnerability assessments and strengthen climate resilience planning.	DOH/HIAP Planners	
	Enter suggestions here		
Action	Obtain a grant to support a region-wide study to quantify and visualize greenhouse gases emitted by source, identify areas with poor air quality that impact nearby by communities and enable decision making to reduce emissions.	TBRBC	PLACE, Transportation, Clean Energy
	Enter suggestions here		
Add Actions?			
Objective 2.	The region uses science-based assessments to improve housing planning, mitigation, and construction outcomes.		
Action	Develop a framework, process, and metrics to evaluate community vulnerability and affordable housing risks. Create an "all hazard" matrix for housing	TBRPC	
	Enter suggestions here		
Action	Conduct housing vulnerability assessments using standardized, science-based methods to quantify and map inundation risks to current and future sea level rise.	TBRPC/Local Governments	
	Add the term "extreme weather" - yes there's SLR, but that's the underlying issue. Need to also capture compounded impacts.		

Action	Conduct affordable housing stock "windshield or walking tour" assessments to define energy and weather mitigation needs in LMI communities.	local Governments	
	Enter suggestions here		
Action	Develop new construction goals which include potential housing stock losses and specific income categories.	local governments	
	Enter suggestions here		
Add Actions?			
CHAPTER 3: PEOPLE			
Overarching goal	Local and regional responses to the effects of climate change will be advanced through organizational and fiscal management at the local government level, and community-led preparedness and recovery.		
Goal 1	Local governments maximize their efforts to implement climate adaptation and mitigation activities through an expanded internal capacity and cross-departmental coordination.		
Objective 1.1	The Region will strengthen local government organizational capacity by implementing best practices.		
Action	Develop resilience and sustainability plans and synchronize with other plans, including the strategic plans, the Comprehensive Plan, OMB annual plan, and others.	TBRPC, Member Govts.	
	Enter suggestions here		
Action	Resilience and sustainability objectives are integrated into departmental programs, budgets, positions, and performance metrics.	TBRPC, Member Govts.	
	Enter suggestions here		
Action	Local governments establish greenhouse gas reduction goals, strategies and monitoring programs for municipal operations and public facilities.	Local governments	
	Enter suggestions here		
Action	Local governments establish renewable energy goals, strategies and target dates for municipal operations and public facilities	Local governments	
	Enter suggestions here		
Add Actions?			
Chapter 5: Prosperity			
Overarching goal	The regional economy is protected through integrated disaster preparedness and supports growth through resilience innovation in existing industries and new sectors.		
Goal 1	Businesses can recover quickly from the impacts of current and future climate hazards.		
Action	Encourage collaboration with chambers of commerce and business associations to support energy efficiency retrofits and improvements for businesses	TBP, TBRPC, Local Gov, Business Orgs	
	Enter suggestions here		
Add Actions?			

Goal 2	Key economic sectors and local businesses increase capacity to provide resilience and sustainability services and grow.		
Objective 2.1	Create a coordinated economic and workforce development plan to support growth for higher wage clean energy and resilience-focused construction, engineering, and technology jobs.	TBRPC/ Tampa Bay Works	
	Enter suggestions here		
Action	Support the formation of the Tampa Bay Resilience and Economic Development Initiative (REDI) to engage business, finance markets and civic sector	TBRPC/TBP/TBW	
	Enter suggestions here		
Action	Climate resilience and risk mitigation is integrated into the region's Comprehensive Economic Development Strategies (CEDS).	TBRPC	
	Enter suggestions here		
Action	Engage business sectors to develop recommendations for supporting resilience investment to address the TBP "Business Case for Resilience" study.	Tampa Bay Partnership, TBRPC	
	Enter suggestions here		
Action	Establish partnerships with universities to create Resilience Accelerator(s) to catalyze growth for new resilience-oriented business services and technologies to address the region's challenges.	TBRPC	
	Enter suggestions here		
Action	The TBRPC will work with USF, UF Sea Grant, NOAA and St. Pete Ocean Team to engage fishery management councils, scientists, and other stakeholders to define impacts to regional fisheries and aquaculture businesses and define potential strategies to increase economic resilience to extreme weather and climate change,	TBRPC	
	Enter suggestions here		
Action	The TBRPC will collaborate with IFAS and others to study risks to the agriculture sector and support development of plans to adapt to and mitigate the effects of climate change	TBRPC	
	Enter suggestions here		
Action (NEW)	Collaborate with Universities and Colleges to create updated regional jobs analysis to support regional clean energy goals and actions (i.e. municipal and private sector); define specific workforce skills needed to meet growth for solar, storage, data management and other tasks	TBP/TBRPC	
	Enter suggestions here		
Action (NEW)	Support clean energy and energy efficiency workforce training programs and pathways to transition workers from low-wage jobs.		
	Enter suggestions here		
Action (NEW)	Goals for green economies, jobs and STEAM workforce development goals are updated and integrated into existing workforce programs		
	Enter suggestions here		
Action (NEW)	Promote development of green (sustainability) and blue (resilience) economic clusters		
	Enter suggestions here		
Add Actions?			

Chapter 4: Place Housing/Land Use			
Overarching goal	The region solves the housing affordability crisis and grows resiliently and sustainably through innovative and equitable planning, investment, and construction.		
Goal 1	The region increases the number of resilient, safe, affordable, and attainable homes.		
Objective 1.2	Establish and implement regionally consistent Resilient Green Housing Construction and Site standards, using FGBC and other frameworks, for a wide range of housing types including smaller multi-family properties to support housing affordability goals.		
	Enter suggestions here		
Action	Green and resilience standards for buildings and sites are integrated into Land Development Regulations/Code	Local Governments	
	Enter suggestions here		
Action	Develop incentives for developers to build outside vulnerable areas, and in vulnerable areas, adopt in a resilient/sustainable building standard. way in vulnerable areas.	Local Gov.	
	Enter suggestions here		
Action	Develop policies and strategies to reduce heat island effects in new development or projects, redevelopment. and other opportunities.	Local Gov.	
	Enter suggestions here		
Add Actions?			
Goal 2	Development and redevelopment are more resilient to current and future flooding, heat, wind, and other disasters.		
Action	Enhance/implement requirements to encourage property owners and government facilities to use green design and cooling strategies to reduce carbon emissions.	Local Gov.	
	Enter suggestions here		
Action	Apply HUD energy efficiency requirements for new construction to all multi-family properties.		
	Enter suggestions here		
Action	Support robust, ongoing housing retrofit programs and strategies targeting LMI communities and ALICE populations for rental, owner, and supported living housing.	Local Gov.	
	Enter suggestions here		
Action	Adopt best practices for building design and HVAC to mitigate near-road air pollution to support community health.	Local Gov	
	Enter suggestions here		
Add Actions?			
Chapter 4: Place (Buildings/Infrastructure)			
Overarching goal	Enhance the capacity of natural systems and infrastructure for climate mitigation and adaptation		
Goal	Infrastructure and services support resilient and healthy community environments, where residents and businesses thrive.		

Objective	Reduce methane and other emissions caused by gas systems and food waste.		Food systems/Clean Energy/Infrastructure
	Electrify everything! As our machines need replacing (HVAC, cars, water heating, etc) we must replace with electric versions		
Action	Encourage companies to collect data, conduct systems audits and measure their contribution to methane emissions.	local governments	
	Enter suggestions here		
Action	Companies producing, distributing, and using oil and gas implement technologies and practices to cut methane emissions, reduce strategic and operational risk, and demonstrate their commitment to the environment.	Private sector	
	Enter suggestions here		
Action	Increase communications and awareness of need to reduce food loss and improve waste diversion.	Local Governments, Partners	
	Enter suggestions here		
Action	Develop collaborations with grocery stores, restaurants, universities, schools, and hospitals to encourage implementation of programs that support the Food Recovery Hierarchy.	TBRPC, Local Gov.	
	Enter suggestions here		
Action	Implement and or incentivize innovative waste reduction programs to reduce landfill.	local governments	
	Enter suggestions here		
Add Actions?			
	"Resilience hubs" for LMI communities. See NREL Round 2 Groundswell project as an example. Spatial analysis of areas without access to a resilience refuge (similar to assessment of food deserts)? Ex. Churches, libraries, schools		
Objective	Increase post-disaster power resilience for long-duration outages		
	Enter suggestions here		
Action	Conduct Black Sky Planning for Community lifelines for long-duration, widespread power outages.	Local Gov. /TBRPC/Utilities	
	Enter suggestions here		
Action	Conduct energy and power-resilience assessments for municipal operations, emergency systems to understand essential equipment energy needs	Local Gov.	
	Enter suggestions here		
Action	Develop plan for energy hardening upgrades and reduce reliance on diesel generators for backup power	Local Gov.	
	Enter suggestions here		
Action	Re-assess power requirements to determine if additional generator capacity, battery banks or on-site renewable energy	Local Gov	
	Enter suggestions here		
Action	Use ClearSky tools and resources to identify critical municipal systems and facilities which are candidates for solar and backup battery and micro-grids	Local Gov	

	yes - do solar+storage microgrid pilot project(s) on police & fire stations, hospitals, other critical buildings		
Action	Encourage utility implementation and expansion of Clean Energy Connection programs to support local government renewable energy goals		
	Yes, CEC seems like a good program but perhaps future solar projects included in the plan could 'sweeten the deal' a bit for customers and/or sweeten the deal for low-moderate-income community (ie. efficiency programs)		
Add Actions?			
PLACE: TRANSPORTATION			
Goal	The Region has a connected multimodal transportation network that is resilient to extreme weather, reduces local emissions and enhances equitable mobility and public safety and health.		
	NOTE The transportation sector represents the largest source of Tampa Bay's GHG emissions, comprising X% of all GHG emissions in 2019 (SACE) The first draft of Transportation Goals and Actions were primarily focused on flood mitigation, road resilience, evacuation etc. The Clean Energy workshop will add new goals and actions to reduce fuel, emissions/pollution, and address heat.		
Objective 1.2	Prioritize transportation infrastructure investments that mitigate or adapt to a changing climate		
	Enter suggestions here		
Action	Use data from regional emissions study to update transportation plans and policies to define targets for transportation electrification strategies to reduce emissions.	TBARTA, TBCCC, local governments	
	Enter suggestions here		
Action	Prioritize alternative modes of transportation other than single-occupancy vehicles (e.g., transit, walking, biking, etc.) through comprehensive plan policies, such as Complete Streets, Vision Zero.	Local Gov.	
	Enter suggestions here		
Action	Adopt transportation planning best practices to reduce road air pollution to support community health, with special emphasis for nearby housing, schools, and neighborhoods with concentrations of vulnerable populations.	TBARTA, TBCCC, local governments, MPOs, School Board	
	Enter suggestions here		
Action	Document costs of protective measures needed to reduce roadway air pollution near housing, schools, and neighborhoods with concentrations of vulnerable populations.	TBARTA, TBCCC, local governments, MPOs, School Board	
	Enter suggestions here		
Add Actions?			

Objective 1.3	Accelerate the Transition to Clean, Accessible, Resilient, and Equitable Transportation Mobility Systems		
	Enter suggestions here		
Action	Convene a Resilient Transportation working group to review, provide input and update the Regional Rapid Transit Plan and define assessments	TBARTA, TBRPC	
	Enter suggestions here		
Action	Host a regional workshop focused on creating greener transportation infrastructure and multi-modal transportation strategies.	TBRPC, TBARTA, MPOs,	
	Enter suggestions here		
Action	Prepare coordinated request(s) for funding opportunities from federal government.	TBARTA, TBRRC	
	Enter suggestions here		
Action	Collaborate to assess financial needs and feasibility of county-wide transportation tax referenda to support future resilience and sustainable transportation projects.	TBRPC, Local Government, TBARTA	
	Enter suggestions here		
Action	Increase Support technical training on fleet fuel consumption assessments, fuel reduction goals and conducting cost-benefit analysis	Tampa Bay Clean Cities Coalition	
	Enter suggestions here		
Action	Conduct greenhouse gas and energy assessments for municipal fleet and transportation systems.	Local governments	
	Enter suggestions here		
Action	Develop local plans for transitioning municipal vehicles, fleets, and school buses to fuel efficient hybrid or electric vehicles.	Local governments, School Boards	
	Enter suggestions here		
Action	Utilize local data to define charging infrastructure needs, develop plan and set goals to increase the electrification of transportation and mobility	Local governments	
	Note: federal and state goals for guidelines; provide guidance / best practices on land use and zoning development requirements to encourage installation of charging infrastructure for developments of a certain size? Provide guidance on incentives as well.	TBCCC, TBRPC, TBARTA?	
	Enter suggestions here		
Action	Define and eliminate policy barriers to expand and accelerate plug-in electric vehicle adoption	Local governments	
	Enter suggestions here		
Action	Develop policies/incentives to encourage inclusion of EV, solar + storage infrastructure in new multi-family buildings and commercial buildings.	Local governments, property owners	
	Enter suggestions here		

Action	Assess feasibility of coordinated procurement strategies for renewable energy and EV to support smaller local governments	Counties	
	Enter suggestions here		
Add Actions?			

	LEED credits for EV charging stations?		
	Community Solar, Clean Energy Connections - opens up solar to renters, houses not suitable for solar, etc.		
	Improve each of purchase agreements for municipal fleets to encourage EV and hybrid vehicles		
	Any local govts. in FL that have a good EV or deployment plan? Let's find a resource to model.		
	How to get EV stations permitted, how to get developers credited, etc.? Who has already figured this out and are having success?		
	Need a regional, standardized method that can be shared within the region.		
	City of Orlando has an electric bus fleet. Connect with Chris Castro.		
	Incentivizing property managers to increase efficiency, EV stations, etc.		
	Virtual net metering - multifamily building. Allows owner to take part in the benefit of providing solar while also giving residents benefits.		
	EV batteries have a good second life as solar storage. Most are recyclable.		
	FL Dept of Agriculture Office Energy - Volkswagen Settlement Disbursement, Florida Electric Vehicle Roadway.		
	Stumbling blocks of EV adoption - most car dealers don't understand EV. Increase education opportunities for Green Jobs.		
	Potentially new action plan - team up with industry associations (trade school trainings) to lend office space - encourage job training for Green jobs and EVs		
	Create training opportunities throughout the region		
	Don't forget about electric micro-mobility vehicles - golf carts, scooters, etc.		

Clean Energy Workshop	1. Please add the names of the group members to the column below. 2. For the first breakout discussion, please review Chapter 2, 3 and 5. In the second breakout, please review Chapter 4 Place. 3. If your group feels proposed language should be edited insert revised text in the line below the corresponding goal, objective, action. 4. Additional Objectives and Actions can be added at the bottom of each goal section.	Responsible Agencies	Tags for Cross cutting Chapters
Group Members:	Group 4		
	Laura Thomas, Sheila McNamera, CJ Reynolds		
CHAPTER 2: COMMUNITY VULNERABILITY			
GOAL 1	The region becomes more resilient and equitable by addressing community vulnerability and housing vulnerability.		
Objective 1.	Vulnerabilities are identified and recommendations are integrated into all planning functions to address the needs of all residents, public health, and improvements to municipal operations and infrastructure.	Local Government/TBRPC/MPOs	Prosperity
	Enter suggestions here		
Action	Conduct vulnerability assessments for infrastructure and publicly owned community assets.	Local Government	
	Enter suggestions here		
Action	Conduct community vulnerability assessments: develop plan for assessing specific Community Lifelines and for conducting community-neighborhood level assessments and define disparities associated with income, age, and race.	Local Government/TBRPC/MPOs	
	Enter suggestions here		
Action	Define community health metrics to support targeted vulnerability assessments and strengthen climate resilience planning.	DOH/HIAP Planners	
	Enter suggestions here		
Action	Obtain a grant to support a region-wide study to quantify and visualize greenhouse gases emitted by source, identify areas with poor air quality that impact nearby by communities and enable decision making to reduce emissions.	TBRBC	PLACE, Transportation, Clean Energy
	Enter suggestions here		
Add Actions?			
Objective 2.	The region uses science-based assessments to improve housing planning, mitigation, and construction outcomes.		
Action	Develop a framework, process, and metrics to evaluate community vulnerability and affordable housing risks. Create an "all hazard" matrix for housing	TBRPC	
	Enter suggestions here		
Action	Conduct housing vulnerability assessments using standardized, science-based methods to quantify and map inundation risks to current and future sea level rise.	TBRPC/Local Governments	
	Enter suggestions here		

Action	Conduct affordable housing stock "windshield or walking tour" assessments to define energy and weather mitigation needs in LMI communities.	local Governments	
	Enter suggestions here		
Action	Develop new construction goals which include potential housing stock losses and specific income categories.	local governments	
	Enter suggestions here		
Add Actions?			
CHAPTER 3: PEOPLE			
Overarching goal	Local and regional responses to the effects of climate change will be advanced through organizational and fiscal management at the local government level, and community-led preparedness and recovery.		
Goal 1	Local governments maximize their efforts to implement climate adaptation and mitigation activities through an expanded internal capacity and cross-departmental coordination.		
Objective 1.1	The Region will strengthen local government organizational capacity by implementing best practices.		
Action	Develop resilience and sustainability plans and synchronize with other plans, including the strategic plans, the Comprehensive Plan, OMB annual plan, and others.	TBRPC, Member Govts.	
	Enter suggestions here		
Action	develop resilience and sustainability plans and synchronize with other plans, including the strategic plans, the Comprehensive Plan, OMB annual plan, and others.	TBRPC, Member Govts.	
	Enter suggestions here		
Action	Enter suggestions here	Local governments	
	Enter suggestions here		
Action	Local governments establish renewable energy goals, strategies and target dates for municipal operations and public facilities	Local governments	
	Enter suggestions here		
Action New	Dedicated energy and sustainability manager to operate systems wide to look at interconnections between departments and external audience		
Action New	Integrate sustainability and resilience into all major job functions, including risk, Communications, Intergovernmental, Finance, OMB, etc. Guide: UN- Guide to Functional Integration: Roadmap to Integrated Sustainability (Note- the resilience aspect needs to be coupled into this as well)	https://cityoflargogov-my.sharepoint	
Chapter 5: Prosperity			
Overarching goal	The regional economy is protected through integrated disaster preparedness and supports growth through resilience innovation in existing industries and new sectors.		
Goal 1	Businesses can recover quickly from the impacts of current and future climate hazards.		
Action	Encourage collaboration with chambers of commerce and business associations to support energy efficiency retrofits and improvements for businesses	TBP, TBRPC, Local Gov, Business Orgs	
	Enter suggestions here		

Add Actions?			
Goal 2	Key economic sectors and local businesses increase capacity to provide resilience and sustainability services and grow.		
Objective 2.1	Create a coordinated economic and workforce development plan to support growth for higher wage clean energy and resilience-focused construction, engineering, and technology jobs.	TBRPC/ Tampa Bay Works	
	Enter suggestions here		
Action	Support the formation of the Tampa Bay Resilience and Economic Development Initiative (REDI) to engage business, finance markets and civic sector	TBRPC/TBP/TBW	
	Enter suggestions here		
Action	Climate resilience and risk mitigation is integrated into the region's Comprehensive Economic Development Strategies (CEDs).	TBRPC	
	Enter suggestions here		
Action	Engage business sectors to develop recommendations for supporting resilience investment to address the TBP "Business Case for Resilience" study.	Tampa Bay Partnership, TBRPC	
	Enter suggestions here		
Action	Establish partnerships with universities to create Resilience Accelerator(s) to catalyze growth for new resilience-oriented business services and technologies to address the region's challenges.	TBRPC	
	Enter suggestions here		
Action	The TBRPC will work with USF, UF Sea Grant, NOAA and St. Pete Ocean Team to engage fishery management councils, scientists, and other stakeholders to define impacts to regional fisheries and aquaculture businesses and define potential strategies to increase economic resilience to extreme weather and climate change,	TBRPC	
	Enter suggestions here		
Action	The TBRPC will collaborate with IFAS and others to study risks to the agriculture sector and support development of plans to adapt to and mitigate the effects of climate change	TBRPC	
	Enter suggestions here		
Action (NEW)	Collaborate with Universities and Colleges to create updated regional jobs analysis to support regional clean energy goals and actions (i.e. municipal and private sector); define specific workforce skills needed to meet growth for solar, storage, data management and other tasks	TBP/TBRPC	
	Enter suggestions here		
Action (NEW)	Support clean energy and energy efficiency workforce training programs and pathways to transition workers from low-wage jobs.		
	Enter suggestions here		
Action (NEW)	Goals for green economies, jobs and STEAM workforce development goals are updated and integrated into existing workforce programs		
	Enter suggestions here		
Action (NEW)	Promote development of green (sustainability) and blue (resilience) economic clusters		
	Enter suggestions here		
Add Actions?			

Chapter 4: Place Housing/Land Use			
Overarching goal	The region solves the housing affordability crisis and grows resiliently and sustainably through innovative and equitable planning, investment, and construction.		
Goal 1	The region increases the number of resilient, safe, affordable, and attainable homes.		
Objective 1.2	Establish and implement regionally consistent Resilient Green Housing Construction and Site standards, using FGBC and other frameworks, for a wide range of housing types including smaller multi-family properties to support housing affordability goals.		
	Enter suggestions here		
Action	Green and resilience standards for buildings and sites are integrated into Land Development Regulations/Code	Local Governments	
	Enter suggestions here		
Action	Develop incentives for developers to build outside vulnerable areas, and in vulnerable areas, adopt in a resilient/sustainable building standard. way in vulnerable areas.	Local Gov.	
	Enter suggestions here		
Action	Develop policies and strategies to reduce heat island effects in new development or projects, redevelopment. and other opportunities.	Local Gov.	
	Enter suggestions here		
Add Actions?			
Goal 2	Development and redevelopment are more resilient to current and future flooding, heat, wind, and other disasters.		
Action	Enhance/implement requirements to encourage property owners and government facilities to use green design and cooling strategies to reduce carbon emissions.	Local Gov.	
	Enter suggestions here		
Action	Apply HUD energy efficiency requirements for new construction to all multi-family properties.		
	Enter suggestions here		
Action	Support robust, ongoing housing retrofit programs and strategies targeting LMI communities and ALICE populations for rental, owner, and supported living housing.	Local Gov.	
	Enter suggestions here		
Action	Adopt best practices for building design and HVAC to mitigate near-road air pollution to support community health.	Local Gov	
	Enter suggestions here		
Add Actions?			
Chapter 4: Place (Buildings/Infrastructure)			
Overarching goal	Enhance the capacity of natural systems and infrastructure for climate mitigation and adaptation		
Goal	Infrastructure and services support resilient and healthy community environments, where residents and businesses thrive.		

			Food systems/Clean Energy/Infrastructure
Objective	Reduce methane and other emissions caused by gas systems and food waste.		
	Enter suggestions here		
Action	Encourage and incentivize companies to collect data, conduct systems audits and measure their contribution to methane emissions.	local governments	
	Enter suggestions here		
Action	Encourage and incentivize companies producing, distributing, and using oil and gas implement technologies and practices to cut methane emissions, reduce strategic and operational risk, and demonstrate their commitment to the environment.	Private sector	
	Enter suggestions here		
Action	Increase communications and awareness of need to reduce food loss and improve waste diversion.	Local Governments, Partners	
	Enter suggestions here		
Action	Develop collaborations with grocery stores, restaurants, universities, schools, and hospitals to encourage implementation of programs that support the Food Recovery Hierarchy.	TBRPC, Local Gov.	
	Identify largest contributors of food waste and develop strategies to encourage onsite reduction and energy use.		
Action	Implement and or incentivize innovative waste reduction programs to reduce landfill.	local governments	
	Enter suggestions here		
Add Actions?	Work with utility companies to access and monitor pipeline leakage data.		
NEW	Encourage new development to include dedicated space for expanded waste streams		
Objective	Increase post-disaster power resilience for long-duration outages		
	Enter suggestions here		
Action	Conduct Black Sky planning for Community lifelines fto improve resilience foor long-duration, widespread power outages.	Local Gov. /TBRPC/Utilities	
	Enter suggestions here		
Action	Conduct energy and power-resilience assessments for municipal operations, emergency systems to understand essential equipment energy needs	Local Gov.	
	Enter suggestions here		
Action	Develop plan for energy hardening upgrades and reduce reliance on diesel generators for backup power	Local Gov.	
	Enter suggestions here		
Action	Re-assess power requirements to determine if additional generator capacity, battery banks or on-site renewable energy	Local Gov	
	Enter suggestions here		

Action	Use ClearSky tools and resources to identify critical municipal systems and facilities which are candidates for solar and backup battery and micro-grids	Local Gov	
	Enter suggestions here		
Action	Encourage utility implementation and expansion of Clean Energy Connection programs to support local government renewable energy goals		
	Enter suggestions here		
Add Actions? -- see Largo example	Regional collaboration to prepare an annual legislative priorities list to highlight energy and climate-related priorities to the Florida legislature		https://cityoflargogov-my.sharepoint.com/:b:/g/personal/lthomas_largo_com/Ee1ZkFgV2KpDqZ6b_IMAQhQBoDVwXXP655zHv_4ZJxCDVg?e=BmJ5oZ
PLACE: TRANSPORTATION			
Goal	The Region has a connected multimodal transportation network that is resilient to extreme weather, reduces local emissions and enhances equitable mobility and public safety and health.		
	NOTE The transportation sector represents the largest source of Tampa Bay's GHG emissions, comprising X% of all GHG emissions in 2019 (SACE) The first draft of Transportation Goals and Actions were primarily focused on flood mitigation, road resilience, evacuation etc. The Clean Energy workshop will add new goals and actions to reduce fuel, emissions/pollution, and address heat.		
Objective 1.2	Prioritize transportation infrastructure investments that mitigate or adapt to a changing climate		
	Enter suggestions here		
Action	Use data from regional emissions study to update regional and local transportation plans and policies to define targets for transportation electrification strategies to reduce emissions.	TBARTA, TBCCC, local governments	
	Enter suggestions here		
Action	Prioritize alternative modes of transportation other than single-occupancy vehicles (e.g., transit, walking, biking, etc.) that address equity through comprehensive plan policies, such as Complete Streets, Vision Zero.	Local Gov.	
	Enter suggestions here		
Action	Adopt transportation planning best practices to reduce road air pollution to support community health, with special emphasis for nearby housing, schools, and neighborhoods with concentrations of vulnerable populations.	TBARTA, TBCCC, local governments, MPOs, School Board	
	Enter suggestions here		

Action	Document costs of protective measures needed to reduce roadway air pollution near housing, schools, and neighborhoods with concentrations of vulnerable populations.	TBARTA, TBCCC, local governments, MPOs, School Board	
	Enter suggestions here		
Add Actions?	CARA, CJ --ask TBARTA, Allison Yes how FDOT fits, need to define Increase engagement with FDOT? to address the goals in section #152, 150 and other		
Objective 1.3	Accelerate the Transition to Clean, Accessible, Resilient, and Equitable Transportation Mobility Systems		
	Enter suggestions here		
Action	Convene a Resilient Transportation working group to review, provide input and update the Regional Rapid Transit Plan and define assessments	TBARTA, TBRPC	
	Enter suggestions here		
Action	Host a regional workshop focused on creating greener transportation infrastructure and multi-modal transportation strategies.	TBRPC, TBARTA, MPOs,	
	Enter suggestions here		
Action	Prepare coordinated request(s) for funding opportunities from federal government.	TBARTA, TBRRC	
	Enter suggestions here		
Action	Collaborate to assess financial needs and feasibility of county-wide transportation tax referenda to support future resilience and sustainable transportation projects.	TBRPC, Local Government, TBARTA	
	Enter suggestions here		
Action	Increase Support technical training on fleet fuel consumption assessments, fuel reduction goals and conducting cost-benefit analysis	Tampa Bay Clean Cities Coalition	
	Enter suggestions here		
Action	Conduct greenhouse gas and energy assessments for municipal fleet and transportation systems.	Local governments	
	Enter suggestions here		
Action	Develop local plans for transitioning municipal vehicles, fleets, and school buses to fuel efficient hybrid or electric vehicles.	Local governments, School Boards	
	Enter suggestions here		
Action	Utilize local data and coordinate with Utilities to define charging infrastructure needs such as updating microgrids, locations, develop plan and set goals to increase the electrification of transportation and mobility	Local governments, Utilities	

	Note: federal and state goals for guidelines; provide guidance / best practices on land use and zoning development requirements to encourage installation of charging infrastructure for developments of a certain size? Provide guidance on incentives as well.	TBCCC, TBRPC, TBARTA?	
	Enter suggestions here		
Action	Define and eliminate policy barriers to expand and accelerate plug-in electric vehicle adoption	Local governments	
	Enter suggestions here		
Action	Develop policies/incentives to encourage inclusion of EV, solar + storage infrastructure in new multi-family buildings and commercial buildings.	Local governments, property owners	
	Enter suggestions here		
Move to People and make it broader	Assess feasibility of coordinated procurement strategies for sustainability services, renewable energy products, and EV systems to support smaller local governments	Counties	
	Enter suggestions here		
Add Actions?	Encourage and incentivise new development to include EVSE adequate/proportionate to facility size and use needs		
	encourage formulation of use agreements between govt fleets of EVSE		

Clean Energy Workshop	1. Please add the names of the group members to the column below. 2. For the first breakout discussion, please review Chapter 2, 3 and 5. In the second breakout, please review Chapter 4 Place. 3. If your group feels proposed language should be edited insert revised text in the line below the corresponding goal, objective, action. 4. Additional Objectives and Actions can be added at the bottom of each goal section.	Responsible Agencies	Tags for Cross cutting Chapters
Group Members:	Group 5		
CHAPTER 2: COMMUNITY VULNERABILITY			
GOAL 1	The region becomes more resilient and equitable by addressing community vulnerability and housing vulnerability.		
Objective 1.	Vulnerabilities are identified and recommendations are integrated into all planning functions to address the needs of all residents, public health, and improvements to municipal operations and infrastructure.	Local Government/TBRPC/MPOs	Prosperity
	...needs of all residents and businesses; integration of (re)insurance industry input into built environment/development planning		
Action	Conduct vulnerability assessments for infrastructure and publicly owned community assets.	Local Government	
	How to integrate vulnerability / resiliency planning awareness into privately owned built environment assets in a collaborative fashion leveraging strengths of both public and private sector		
Action	Conduct community vulnerability assessments: develop plan for assessing specific Community Lifelines and for conducting community-neighborhood level assessments and define disparities associated with income, age, and race.	Local Government/TBRPC/MPOs	
	Enter suggestions here		
Action	Define community health metrics to support targeted vulnerability assessments and strengthen climate resilience planning.	DOH/HIAP Planners	
	Enter suggestions here		
Action	Obtain a grant to support a region-wide study to quantify and visualize greenhouse gases emitted by source, identify areas with poor air quality that impact nearby by communities and enable decision making to reduce emissions.	TBRBC	PLACE, Transportation, Clean Energy
	Enter suggestions here		
Add Actions?			
Objective 2.	The region uses science-based assessments to improve housing planning, mitigation, and construction outcomes.		
Action	Develop a framework, process, and metrics to evaluate community vulnerability and affordable housing risks. Create an "all hazard" matrix for housing	TBRPC	
	Enter suggestions here		
Action	Conduct housing vulnerability assessments using standardized, science-based methods to quantify and map inundation risks to current and future sea level rise.	TBRPC/Local Governments	
	Enter suggestions here		

Action	Conduct affordable housing stock "windshield or walking tour" assessments to define energy and weather mitigation needs in LMI communities.	local Governments	
	Enter suggestions here		
Action	Develop new construction goals which include potential housing stock losses and specific income categories.	local governments	
	Enter suggestions here		
Add Actions?			
CHAPTER 3: PEOPLE			
Overarching goal	Local and regional responses to the effects of climate change will be advanced through organizational and fiscal management at the local government level, and community-led preparedness and recovery.		
Goal 1	Local governments maximize their efforts to implement climate adaptation and mitigation activities through an expanded internal capacity and cross-departmental coordination.		
Objective 1.1	The Region will strengthen local government organizational capacity by implementing best practices.		
Action	Develop resilience and sustainability plans and synchronize with other plans, including the strategic plans, the Comprehensive Plan, OMB annual plan, and others.	TBRPC, Member Govts.	
	Include the business sector in planning , include CIP and landuse plans		
Action	Resilience and sustainability objectives are integrated into departmental programs, budgets, positions, and performance metrics.	TBRPC, Member Govts.	
	Enter suggestions here		
Action	Local governments establish greenhouse gas reduction goals, strategies and monitoring programs for municipal operations and public facilities.	Local governments	
	Set community targets; integrate larger community (residents and businesses) into planning process in an effective and efficient manner		
Action	Local governments establish renewable energy goals, strategies and target dates for municipal operations and public facilities	Local governments	
	Acknowledge and incent private entities to implement renewable/clean energy targets and improvements to their facilities		
Add Actions?			
Chapter 5: Prosperity			
Overarching goal	The regional economy is protected through integrated disaster preparedness and supports growth through resilience innovation in existing industries and new sectors.		
Goal 1	Businesses can recover quickly from the impacts of current and future climate hazards.		
Action	Encourage collaboration with chambers of commerce and business associations to support energy efficiency retrofits and improvements for businesses	TBP, TBRPC, Local Gov, Business Orgs	
	Make sure to include finance / alteranative resiliency finance institutions which are catalysts for the targeted investments ex. Commercial PACE program in Pinellas County		

Add Actions?			
Goal 2	Key economic sectors and local businesses increase capacity to provide resilience and sustainability services and grow.		
Objective 2.1	Create a coordinated economic and workforce development plan to support growth for higher wage clean energy and resilience-focused construction, engineering, and technology jobs.	TBRPC/ Tampa Bay Works	
	Enter suggestions here		
Action	Support the formation of the Tampa Bay Resilience and Economic Development Initiative (REDI) to engage business, finance markets and civic sector	TBRPC/TBP/TBW	
	Enter suggestions here		
Action	Climate resilience and risk mitigation is integrated into the region's Comprehensive Economic Development Strategies (CEDs).	TBRPC	
	Enter suggestions here		
Action	Engage business sectors to develop recommendations for supporting resilience investment to address the TBP "Business Case for Resilience" study.	Tampa Bay Partnership, TBRPC	
	Enter suggestions here		
Action	Establish partnerships with universities to create Resilience Accelerator(s) to catalyze growth for new resilience-oriented business services and technologies to address the region's challenges.	TBRPC	
	Enter suggestions here		
Action	The TBRPC will work with USF, UF Sea Grant, NOAA and St. Pete Ocean Team to engage fishery management councils, scientists, and other stakeholders to define impacts to regional fisheries and aquaculture businesses and define potential strategies to increase economic resilience to extreme weather and climate change,	TBRPC	
	Enter suggestions here		
Action	The TBRPC will collaborate with IFAS and others to study risks to the agriculture sector and support development of plans to adapt to and mitigate the effects of climate change	TBRPC	
	Enter suggestions here		
Action (NEW)	Collaborate with Universities and Colleges to create updated regional jobs analysis to support regional clean energy goals and actions (i.e. municipal and private sector); define specific workforce skills needed to meet growth for solar, storage, data management and other tasks	TBP/TBRPC	
	Enter suggestions here		
Action (NEW)	Support clean energy and energy efficiency workforce training programs and pathways to transition workers from low-wage jobs.		
	Enter suggestions here		
Action (NEW)	Goals for green economies, jobs and STEAM workforce development goals are updated and integrated into existing workforce programs		
	Enter suggestions here		
Action (NEW)	Promote development of green (sustainability) and blue (resilience) economic clusters		
	Enter suggestions here		
Add Actions?			

Chapter 4: Place Housing/Land Use			
Overarching goal	The region solves the housing affordability crisis and grows resiliently and sustainably through innovative and equitable planning, investment, and construction.		
Goal 1	The region increases the number of resilient, safe, affordable, and attainable homes.		
Objective 1.2	Establish and implement regionally consistent Resilient Green Housing Construction and Site standards, using FGBC and other frameworks, for a wide range of housing types including smaller multi-family properties to support housing affordability goals.		
	Enter suggestions here		
Action	Green and resilience standards for buildings and sites are integrated into Land Development Regulations/Code	Local Governments	
	Enter suggestions here		
Action	Develop incentives for developers to build outside vulnerable areas, and in vulnerable areas, adopt in a resilient/sustainable building standard. way in vulnerable areas.	Local Gov.	
	Provide visibility for existing incentives that will help private investors build more resiliently; improve the accessibility to these existing incentives ex. Pinellas C-PACE Ordinance needs to be commercial construction friendly; from our industry experience C-PACE can really help get ownerships to make the high-cost resilient upgrades upfront on both new construction and renovation of multifamily projects because of the economics associated with "off-balance sheet" non-recourse financing		
Action	Develop policies and strategies to reduce heat island effects in new development or projects, redevelopment, and other opportunities.	Local Gov.	
	Enter suggestions here		
Add Actions?	something about benchmarking or being accountable for building energy use and goals		
Goal 2	Development and redevelopment are more resilient to current and future flooding, heat, wind, and other disasters.		
Action	Enhance/implement requirements to encourage property owners and government facilities to use green design and cooling strategies to reduce carbon emissions.	Local Gov.	
	Enter suggestions here		
Action	Apply HUD energy efficiency requirements for new construction to all multi-family properties.		
	Enter suggestions here		
Action	Support robust, ongoing housing retrofit programs and strategies targeting LMI communities and ALICE populations for rental, owner, and supported living housing.	Local Gov.	
	Enter suggestions here		
Action	Adopt best practices for building design and HVAC to mitigate near-road air pollution to support community health.	Local Gov	
	include/incentivize green roofs as an alternative to mitigate energy consumption, heat island impact and air quality		
Add Actions?	Adopt best practices related to "managed retreat" in floodplains, and in areas where mitigation and adaption is feasible		
Chapter 4: Place (Buildings/Infrastructure)			

Overarching goal	Enhance the capacity of natural systems and infrastructure for climate mitigation and adaptation		
Goal	Infrastructure and services support resilient and healthy community environments, where residents and businesses thrive.		
Objective	Reduce methane and other emissions caused by gas systems and food waste.		Food systems/Clean Energy/Infrastructure
	Enter suggestions here		
Action	Encourage companies to collect data, conduct systems audits and measure their contribution to methane emissions.	local governments	
	could we be more prescriptive...not sure of ultimate intent here		
Action	Companies producing, distributing, and using oil and gas implement technologies and practices to cut methane emissions, reduce strategic and operational risk, and demonstrate their commitment to the environment.	Private sector	
	Enter suggestions here		
Action	Increase communications and awareness of need to reduce food loss and improve waste diversion.	Local Governments, Partners	
	Enter suggestions here		
Action	Develop collaborations with grocery stores, restaurants, universities, schools, and hospitals to encourage implementation of programs that support the Food Recovery Hierarchy.	TBRPC, Local Gov.	
	Food Banks, official and non. (places of worship), farms--Animal Feed		
Action	Implement and or incentivize innovative waste reduction programs to reduce landfill.	local governments	
	Enter suggestions here		
Add Actions?			
Objective	Increase post-disaster power resilience for long-duration outages		
	Enter suggestions here		
Action	Conduct Black Sky Planning for Community lifelines for long-duration, widespread power outages.	Local Gov. /TBRPC/Utilities	
	Enter suggestions here		
Action	Conduct energy and power-resilience assessments for municipal operations, emergency systems to understand essential equipment energy needs	Local Gov.	
	Enter suggestions here		
Action	Develop plan for energy hardening upgrades and reduce reliance on diesel generators for backup power	Local Gov.	
	Enter suggestions here		
Action	Re-assess power requirements to determine if additional generator capacity, battery banks or on-site renewable energy	Local Gov	
	Enter suggestions here		

Action	Use ClearSky tools and resources to identify critical municipal systems and facilities which are candidates for solar and backup battery and micro-grids	Local Gov	
	Enter suggestions here		
Action	Encourage utility implementation and expansion of Clean Energy Connection programs to support local government renewable energy goals		
	Enter suggestions here		
Add Actions?	Plan to utilize existing EV fleet to power key buildings post-disaster		
	integrate resiliency finance providers to help private building owners successfully make solar + storage/energy hardening investments		
PLACE: TRANSPORTATION			
Goal	The Region has a connected multimodal transportation network that is resilient to extreme weather, reduces local emissions and enhances equitable mobility and public safety and health.		
	NOTE The transportation sector represents the largest source of Tampa Bay's GHG emissions, comprising X% of all GHG emissions in 2019 (SACE) The first draft of Transportation Goals and Actions were primarily focused on flood mitigation, road resilience, evacuation etc. The Clean Energy workshop will add new goals and actions to reduce fuel, emissions/pollution, and address heat.		
Objective 1.2	Prioritize transportation infrastructure investments that mitigate or adapt to a changing climate		
	Evacuation and fast charging		
Action	Use data from regional emissions study to update transportation plans and policies to define targets for transportation electrification strategies to reduce emissions.	TBARTA, TBCCC, local governments	
	Enter suggestions here		
Action	Prioritize alternative modes of transportation other than single-occupancy vehicles (e.g., transit, walking, biking, etc.) through comprehensive plan policies, such as Complete Streets, Vision Zero.	Local Gov.	
	Enter suggestions here		
Action	Adopt transportation planning best practices to reduce road air pollution to support community health, with special emphasis for nearby housing, schools, and neighborhoods with concentrations of vulnerable populations.	TBARTA, TBCCC, local governments, MPOs, School Board	
	Enter suggestions here		
Action	Document costs of protective measures needed to reduce roadway air pollution near housing, schools, and neighborhoods with concentrations of vulnerable populations.	TBARTA, TBCCC, local governments, MPOs, School Board	
	Enter suggestions here		
Add Actions?	Encourage work from home or similar to reduce transportation commute		
	Adopt Complete Streets/Urban Design standards as appropriate for community-wide, downtown, main street, etc.		

Objective 1.3	Accelerate the Transition to Clean, Accessible, Resilient, and Equitable Transportation Mobility Systems		
	Enter suggestions here		
Action	Convene a Resilient Transportation working group to review, provide input and update the Regional Rapid Transit Plan and define assessments	TBARTA, TBRPC	
	Enter suggestions here		
Action	Host a regional workshop focused on creating greener transportation infrastructure and multi-modal transportation strategies.	TBRPC, TBARTA, MPOs,	
	Enter suggestions here		
Action	Prepare coordinated request(s) for funding opportunities from federal government.	TBARTA, TBRRC	
	Enter suggestions here		
Action	Collaborate to assess financial needs and feasibility of county-wide transportation tax referenda to support future resilience and sustainable transportation projects.	TBRPC, Local Government, TBARTA	
	Enter suggestions here		
Action	Increase Support technical training on fleet fuel consumption assessments, fuel reduction goals and conducting cost-benefit analysis	Tampa Bay Clean Cities Coalition	
Action	Conduct greenhouse gas and energy assessments for municipal fleet and transportation systems.	Local governments	
	Enter suggestions here		
Action	Develop local plans for transitioning municipal vehicles, fleets, and school buses to fuel efficient hybrid or electric vehicles.	Local governments, School Boards	
	Enter suggestions here		
Action	Utilize local data to define charging infrastructure needs, develop plan and set goals to increase the electrification of transportation and mobility	Local governments	
	Note: federal and state goals for guidelines; provide guidance / best practices on land use and zoning development requirements to encourage installation of charging infrastructure for developments of a certain size? Provide guidance on incentives as well.	TBCCC, TBRPC, TBARTA?	
	Enter suggestions here		
Action	Define and eliminate policy barriers to expand and accelerate plug-in electric vehicle adoption	Local governments	
	Enter suggestions here		
Action	Develop policies/incentives to encourage inclusion of EV, solar + storage infrastructure in new multi-family buildings and commercial buildings.	Local governments, property owners	

	provide visibility on existing incentives / financing mechanisms		
Action	Assess feasibility of coordinated procurement strategies for renewable energy and EV to support smaller local governments	Counties	
	Enter suggestions here		
Add Actions?	<u>general comment to maybe use more "multi-modal" lanaguage througout</u>		