



Resilience Coalition Steering Committee

September 13, 2021





AGENDA

- **Call to Order/Welcome** – Chair Long 12:00-12:05
 - **Roll call** – CJ Reynolds
 - **Executive Director Update:** Sean Sullivan 12:05-12:10
 - **Regional Resilience Action Plan:** Cara Serra and CJ Reynolds 12:10-12:40
 - **Project Updates:** CJ Reynolds Uniform Height and Shoreline Policy Guide, Summit Agenda 12:40-12:50
 - **Next meeting:** October 11, 2021
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RRAP INPUT MEETINGS



Management & Planning Committee

- **Thursday Sept. 16th, 9:30 AM – 11:30 AM.** Goal 5 (Habitats & Ecosystems). [Register Here.](#)
- **Friday Sept. 17th, 1:00 PM – 4:00 PM.** Goals 3 (Governance/Finance), 4 (Buildings, Housing, Growth Management), and 6 (Infrastructure). [Register Here.](#)
- **Friday Sept. 24th 1:00 PM – 3:00 PM.** Goal 7 (Transportation). [Register Here.](#)

RRAP 10 OVERARCHING GOALS



Goal 1 Community resiliency is at the top of the public agenda and sustained with science and data.



Goal 2 Adaptation and resilience planning is based on rigorous, consistent, scientifically defined vulnerability assessments.



Goal 3 Leadership, education and empowerment in government, community and business organizations fosters resilient implementation.



Goal 4. Strategic land-use zoning supported by resilient, sustainable construction standards increases community resilience and economic value.



Goal 5 Resilient adaptation protects, preserves and restores thriving habitats and abundant wildlife.



Goal 6 Public infrastructure, services and assets become more resilient through innovative best practices.



Goal 7 Connected multimodal transportation network is resilient to extreme weather, reduces emissions and enhances equitable mobility and public safety.



Goal 8 Food systems become more sustainable and resilient, and access to healthy foods is improved.



Goal 9 Businesses prepare and recover quickly from impacts of extreme weather events and hazards



Goal 10 Regional workforce is skilled and can rapidly adapt to changing conditions.

ACTION THEMES



41 draft regional actions in 5 Chapters

Main Themes (by Chapter)

- 1) Assessments – Vulnerability/Impacts/Costs to Community and Infrastructure
- 2) Neighborhood Resilience Programs
- 3) Policy Tools for Housing, Land Use and Site Development Best Practices
- 4) Advancement of Habitat Improvements & Green Infrastructure
- 5) Transportation Electrification
- 6) Food Systems Resiliency, Security and Waste Reduction
- 7) Business Preparedness & Economic Prosperity



Regional Action Plan Discussion

Define your top five actions.....

Which regional actions are most exciting to you? Why?

Which actions will support major progress, around the region?

What's missing or needs to be strengthened?

What can/should be removed?

REGIONAL ACTIONS



Chapter 1 - Goal 1	
1.1.1	Lead the region to define specific climate change indicators and impact indicators that will be monitored to support planning.
1.1.2	Convene region-wide data work groups to support consistency and best practices in mapping, visualizing and communicating climate risks and impacts to key audiences.
1.1.3	Partner with local organizations to provide training and facilitate discussions with local governments on using new climate risks and impacts indicator data.
Chapter 2 - Goal 2	
2.1.1	Coordinate the production of model scenarios, regional data and maps for extreme rain events and inland flooding.
2.1.2	Coordinate the production of maps and integrate new high-resolution terrestrial LiDAR produced by the State and other agencies into resources.
2.1.3	The TBRPC will coordinate a regional food systems vulnerability assessment to extreme weather and future climate hazards.
2.1.4	Support coordination and implementation of regional and local urban heat island assessments.
2.1.5	TBEP, and the TBRPC and regional scientific partners, will assess ecosystem and habitat vulnerability to identified climate hazards.
2.2.1	Establish partnerships with public health and equity-focused organizations to assess health and workforce impacts and identify health and equity-promoting strategies. Assess the costs of public health impacts related to extreme weather and climate.
2.2.2	Establish and convene a public health and equity subcommittee of the Management Planning Committee, alongside public health partners, to advise on best practices for integrating health impact indicator data into resilience and sustainability planning.
2.2.3	TBRPC, with grant funding, will conduct a region-wide study to quantify and visualize greenhouse gases emitted by non-municipal sources, identify areas with poor air quality that impact nearby by communities and enable decision making to reduce emissions.
2.3.1	Coordinate meetings, produce regional data and support production of local community vulnerability assessments which focus on LMI residents and affordable housing, for member governments.
2.4.1	Continue to assess the economic impacts of increased heat and flood risks, and update the Taking Stock report as needed.
2.4.2	Work with regional partners to assess the economic impacts of property insurance increases.
2.4.3	Support regional efforts to prepare cost-benefit analyses for major adaption grants (i.e.FEMA BRIC and others)

REGIONAL ACTIONS



Chapter 3 - Goal 3	
3.2.1	The TBRPC will coordinate ongoing presentations for Elected Officials on new topics aligned with the objectives of the RRAP.
3.2.2	The TBRPC and local governments develop RRAP implementation matrix to identify annual progress on RRAP actions.
3.3.1	TBRPC will convene local governments to discuss regional funding priorities for adaptation and mitigation projects. TBRPC will support state level legislative action that aligns with regional funding priorities.
3.4.1	The TBRPC will convene LGs and partners to define best practices, encourage peer sharing and support development of a Resilient Neighborhoods Education Program and Toolkit. Concepts to include: pop-up flood information centers, walking flood risk audits and other best practices for engaging community partners and neighborhood leaders.
3.4.2	The TBRPC, LGs and partners identify funding for the implementation of a Resilient Neighborhoods Grant Program to locally implement the Resilient Neighborhoods Education initiatives. The Grant Program will be modeled after the TBRPC's Stormwater Outreach and Education Funding Program.
3.4.3	Support development of regionally consistent flood maps, education programs and disclosure for key audiences: real estate agents, property buyers, homeowners, and renters. (local example: Pinellas County)
Chapter 4 - Goal 4	
4.1.1	Establish Intergovernmental coordination to recommend resilience and sustainability goals, policies, strategies that support retrofits and new construction that prioritize ALICE populations.
4.5.1	Create a Regional Resilient Land Use and Design working group which includes diverse stakeholders including local government staff, citizens, architects, engineers, developers and others to define best practices and recommendations for community health, resilience and quality of life.

REGIONAL ACTIONS



Chapter 4 - Goal 5	
5.1.1	Support adoption of land management strategies such as rolling easements , coastal construction setbacks and living shorelines to promote the long-term resiliency and diversity of critical habitats.
5.1.2	Develop metrics to measure citizen outreach (conducted in Goal 3) effectiveness on topics of potential impacts of climate change on coastal habitats, for example citizen engagement in habitat restoration volunteer projects and behavior changes to adopt recommended mitigation actions.
5.1.3	Support the implementation of the Tampa Bay Habitat Master Plan .
5.2.1	Support research to better quantify the sources, pathways and contribution of atmospheric deposition to stormwater runoff, especially in urban areas with extensive impervious surfaces.
5.2.2	Support outreach to the public about the link between air and water quality and foster behavior changes that reduce air pollution.
5.3.1	The TBRPC will partner with the Tampa Bay CRS user group to identify opportunities for member governments to get CRS credit for Floodplain Species Assessments (512c).
5.4.1	The TBRPC and Coalition Partners will develop policy guidance and recommendations to support regionally consistent shoreline protection practices, and share recommendations with elected officials. Encourage interagency and public process efforts to create shoreline plans for coastal areas including consistent heights.
Chapter 4 - Goal 6	
6.2.2	The TBRPC and TBEP host trainings on implementing green infrastructure best practices.
6.3.1	The TBRPC will collect best practices and provide online resources for green infrastructure, ground water usage, stormwater management, fuel reduction, and carbon sequestration.

REGIONAL ACTIONS



Chapter 4 - Goal 7	
7.2.1	Host a regional workshop focused on green transportation infrastructure, multi-modal transportation, and funding strategies including preparing for funding opportunities from federal government.
7.2.2	The TBRPC will host special topic meetings to discuss collaboration on local funding initiatives.
7.2.3	Support federal and regional initiatives to reduce vehicle emissions, including increased fuel efficiency, mass transit, carpooling, bicycle commuting, telecommuting, and expansion of alternative/electric vehicle fueling stations. Incorporate associated reductions into the Nitrogen Management Consortium's Action Plan Database.
Chapter 4 - Goal 8	
8.1.1	The TBRPC will identify and map food accessibility and proximity for LMI communities for all fresh food outlets and community feeding networks to identify food deserts and areas with low access.
Chapter 5 - Goal 9	
9.1.1	The TBRPC, with input from business organizations, will identify gaps in existing disaster preparedness and recovery related educational materials available for business. The TBRPC will create regionally consistent education materials to fill these gaps. Creation of the materials will be funded through a partnership between local government wishing to use the materials and this funding may be subsidized by state or federal grants. The materials will be disseminated through local governments, business organizations, and media outlets.

REGIONAL ACTIONS



Chapter 5 - Goal 10	
10.1.1	The TBRPC work with Utilities and non-profits to identify opportunities to increase energy efficiency strategies, evaluations for businesses including the potential of business organizations to conduct energy audits.
10.1.2	Climate resilience and risk mitigation is integrated into the region's Comprehensive Economic Development Strategies (CEDs).
10.1.5	The TBRPC will work local, regional, state and federal agencies, USF, UF Sea grant, NOAA and St. Pete Ocean Team to define future impacts to regional fisheries and aquaculture businesses and define potential strategies to increase economic resilience to extreme weather and climate change.
10.1.6	The TBRPC will 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.
10.2.1	The TBRPC will coordinate with regional academic and business leadership to develop Talent Pipeline Management strategies which focus on resilience-oriented jobs and careers. Coordinate with United Way, non-profits, builders, ULI and universities to develop an updated workforce training curricula/program that creates job opportunities for women, people of color and rural communities to participate in resilience-focused construction, engineering and technology jobs.
10.2.2	The TBRPC and Tampa Bay Partnership will partner to identify target industry sectors and their vendors to identify obstacles for pivoting toward more resilient and sustainable practices. With input from these private sector stakeholders, the TBRPC and their partners will identify best practices for these industries to have a stake in creating jobs focused on resiliency and sustainability.
10.2.3	The TBRPC will collaborate with regional partners and agricultural stakeholders to support development of land-use plans that adapt to and mitigate the effects of climate using one or more of the following strategies: (1) identify pressing climate-related data and research needs for the agriculture industry (2) increase awareness of impacts from extreme weather and climate risks to regionally important crops (3) identify and quantify risks associated with increasing heat (4) coordinating agricultural land use planning discussions for the Regional Resilient Land Use and Design working group.
10.3.1	The TBRPC will support planning efforts to expand broadband throughout the region.

Update on the Shorelines Policy Guide and Model Ordinance

- Produced first draft of the guide and model ordinance
- Workshop on Aug 27 obtained input on Guide, scope of ordinance sections, discussed heights, shoreline overlay and classifications
- Next Steps:
 - Revise draft,
 - Meeting with local attorneys and permitting staff, environmental
 - Follow up with USCAE, CSAP, other scientists
- Circulate full draft by Dec.



Establish a Clear Hierarchy of Preferences

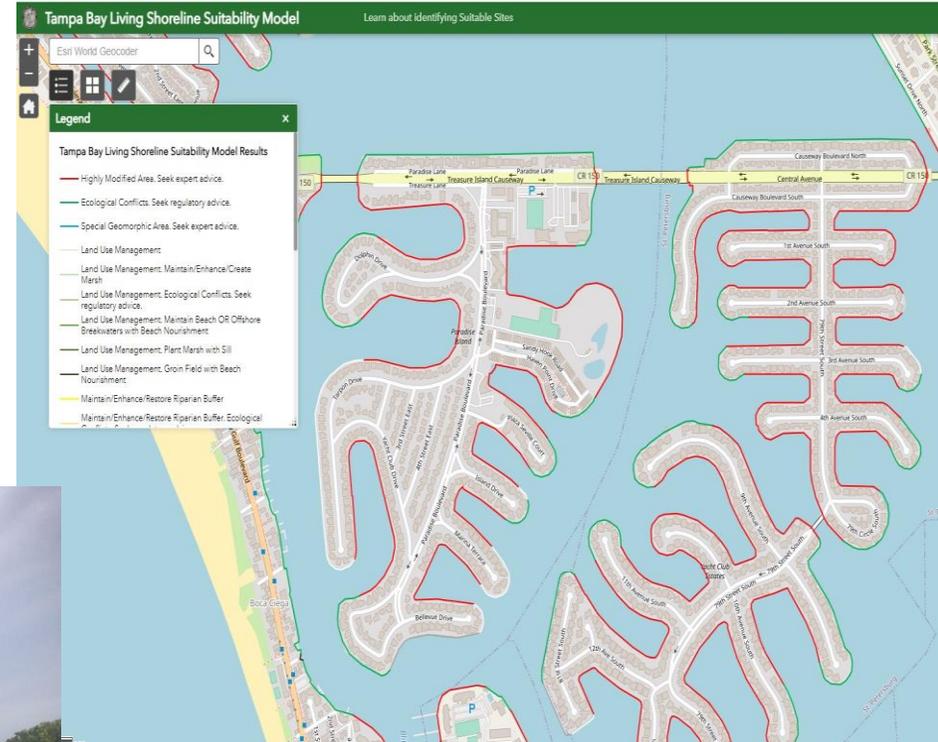
1. Protect and preserve existing natural shorelines
2. Promote installation of living shorelines and hybrid shorelines where appropriate
3. Define locations and conditions for hardened structures

Need to make policy/code understandable to private property owners...

Treasure Island Example: Treasure Bay Golf & Tennis Facility

Currently 2,340 linear feet of hardened shoreline

- 2 distinct shoreline and wave energy climates
- 2 different design recommendations
- 2 different overlay designations



Proposed: Shoreline Overlay Districts

Overlay zoning is a flexible strategy that allows a municipality to encourage or discourage certain types of development in certain areas.

- Shoreline overlay zone/districts are mapped and superimposed on existing districts.
- Parcels in the shoreline overlay zone are simultaneously subject to two sets of zoning regulations.

Shoreline Classifications for Districts

Natural (non-structural)

- Marshes, mangrove, beach

Armored

- Bulkheads, seawalls, revetments, breakwater

Combined

- Hybrid installations with natural edge where possible

Detailed subclassifications and criteria for each.

Appropriate variances are defined

Natural shorelines need tidal surge protection (potential raised upland berm)

Process for Selecting SLR and Tidal Flooding Scenarios

2020 Workgroup recommended: **NOAA High and 2060**

YEAR	NOAA Intermediate High	NOAA High	NOAA High Tide Flood	Combined
2060	2.62	3.48	1.74	5.22

Process for Selecting SLR and Tidal Flooding Scenarios

2020 Workgroup recommended: **NOAA High and 2060**

08/27 Workshop participants majority selected **NOAA Intermediate High and 2070**

YEAR	NOAA Intermediate High	NOAA High	NOAA High Tide Flood	Combined
2060	2.62	3.48	1.74	5.22
2070	3.50	4.56	1.74	5.24

Minimum Elevation for Shoreline Protection

- Preliminary consensus: 5.2 for regional minimum -- round to 5 ft.
- Next steps – discussions with NOAA, USF CMS, USACE
- Guide and code acknowledges future change: height will be reviewed every 5 years after each NOAA SLR update and use CSAP recommendations
- Provide final recommendations to Steering Committee for vote at October meeting

Regional Recommendations from the Project: Support Shoreline Assessments and Mapping

- Need baseline shoreline maps from Citrus to Sarasota County
 - Ask NOAA to Update ESI Shoreline Maps
 - Collaborate with FWC/FWRI to request LSSM tool updates and expansion
 - Apply for local grants, define regionwide mapping and planning grant-- FDEP or FEMA BRIC grant or other?
- USACE Technical Assistance for States -- grant research/planning

Summit Agenda

Goal – support discussion and buy-in on RRAP actions.

- Staff will prepare general schedule and proposed topic categories for discussion at October committee meeting
- Will include panels, presentations from Council members, sponsors and keynotes

Wrap Up

- Next Meeting: October 11, 2021

THANK YOU!

WWW.TBRPC.ORG/RESILIENCYPLAN

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