THANK YOU FOR JOINING THE MEETING WILL BEGIN AT 1:00 PM

Chapter 4 Workshop (Place)

Transportation Resiliency

Resiliency Coalition Members & Partners

March 5, 2021
Chapter 4 Workshop (Place)

Transportation Resiliency

Resiliency Coalition Members & Partners

February 25, 2021
MEETING OBJECTIVES

1. Review Best Practices
2. Consider Local Examples
3. Review and Edit Draft Goals/Objectives/Actions
2. Consider How We Measure Success
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<th>TODAY’S SCHEDULE</th>
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<td>WELCOME AND INTRODUCTION</td>
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<td>PURPOSE &amp; ASPIRATIONAL GOAL</td>
<td>1:05 - 1:15</td>
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<td>3</td>
<td>TRANSPORTATION ADAPTATION AND EMERGENCY MANAGEMENT</td>
<td>1:15 - 1:45</td>
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<td>4</td>
<td>BREAKOUT DISCUSSION</td>
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<td>5</td>
<td>BREAK</td>
<td>2:15 – 2:30</td>
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<td>6</td>
<td>CLEAN ACCESSIBLE RESILIENT EQUITABLE TRANSPORTATION</td>
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<td>BREAKOUT DISCUSSION</td>
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<td>8</td>
<td>WRAP UP DISCUSSION</td>
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<tr>
<td>SUBJECT</td>
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<td>Chapter 3, People</td>
<td>Friday, Feb 12th</td>
<td>1:30 PM – 4PM</td>
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<td>Chapter 4, Place – Land Use &amp; Housing</td>
<td>Friday Feb 19th</td>
<td>1:30 PM – 4 PM</td>
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<td>Chapter 4, Place - Ecosystems and Infrastructure</td>
<td>Feb 25th/26th</td>
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<td>Chapter 4, Place - Transportation</td>
<td>Friday, March 5th</td>
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<td>Chapter 5, Prosperity</td>
<td>Friday March 12th</td>
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<td>Clean Energy</td>
<td>Friday, March 19th</td>
<td>1 PM – 4 PM</td>
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<td>Post Integrated Draft</td>
<td>Mid-April</td>
<td>NA</td>
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<td>MPC Meeting to Review Draft Plan</td>
<td>April 29th/30th</td>
<td>TBD</td>
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CHAPTER WORKSHOP PROCESS

• Establish Baseline Provide Background on how goals, objectives and actions were drafted through research on best practices

• Goal Focused Review goals, objectives and actions -- define the keepers, delete the good, what’s missing and revising

• Measuring progress Discussions should include recommendations for Score Card (metrics) to document progress (goals/actions).

• Additional Time for Edits Attendees and members are encouraged to edits goals/objectives/actions 2 weeks after workshop
PLACE

Chapter Purpose and Aspirational Goal
PLACE CHAPTER 4 OVERVIEW

FIVE KEY SECTIONS

1. **Land Use** policies and regulations guide growth to low-risk areas and development in high-risk areas is built to a higher standard.

2. **Housing** is mitigated and new builds are green, resilient, diverse and attainable to all residents.

3. **Ecosystems** are protected from climate change impacts.

4. **Infrastructure** planning considers long-term impacts of climate variability and low-impact development is prioritized.

5. **Transportation** planning considers impacts of extreme heat on users and how transportation drives climate change
PLACE: ASPIRATIONAL GOAL

The region supports resilient communities and neighborhoods while managing growth and preserving and protecting natural resources.
Goal 1*: The Region has a connected multimodal transportation network that is resilient to extreme weather, reduces local emissions and enhances equitable mobility and public safety.

The actions in this chapter build on Community Vulnerability Assessments – goals are defined in Chapter 2.
TRANSPORTATION

ADAPTATION AND EMERGENCY MANAGEMENT
Roads, bridges, tunnels, rails, airports, and other transportation facilities, in inland locations as well as in coastal communities, can be vulnerable to climate-related events.

- Storm-related flooding—exacerbated by rising sea levels in coastal cities—can close tunnels, subway stations, low-lying roads, and marine cargo facilities, either temporarily or permanently.
- Flooding from increasingly frequent heavy downpours can disrupt traffic, damage culverts, and reduce the service life of stormwater infrastructure.
- High temperatures can accelerate the deterioration of pavement on roads and runways, and cause failures of railroad and subway tracks.

While existing transportation infrastructure was designed to handle a broad range of conditions based on historic climate, the frequency and intensity of some extreme weather events is increasing.

https://toolkit.climate.gov/topics/built-environment/transportation
Strategies that transportation departments might use in adapting to climate change include:

- Integrate climate change considerations into asset management.
- Strengthen or abandon infrastructure that is vulnerable to flooding.
- Raise standards for the resilience of new infrastructure.
- Add redundant infrastructure to increase system resiliency.
- Promote zoning, insurance, and disaster recovery policies that discourage development in vulnerable areas.

https://toolkit.climate.gov/topics/built-environment/transportation
Local Standards and Guidelines:
• Design and site infrastructure based on the most probable climate scenario.
• Design infrastructure to accommodate any unfavorable deviations from the most probable scenario.
• Develop standard processes for observing changes over time.
• Design and construct modifications in response to changes.

Privately Developed Infrastructure:
• Require privately developed or managed local road systems to account for existing flood hazards and future road vulnerability.
• Require developers to identify maintenance needs and costs to account for more severe or frequent flooding.
• Require local government maintenance of stormwater and flood protection infrastructure.
**RESILIENT 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.

- **Objective 1:** Prioritize public safety outcomes in transportation improvements for hazard events.

- **Objective 2:** Prioritize transportation infrastructure investments that mitigate or adapt to a changing climate.

- **Objective 3:** Accelerate the Transition to Clean, Accessible, Resilient, and Equitable Mobility Systems.
Objective 1: Prioritize public safety outcomes in transportation improvements for hazard events.

1. **Action:** Update evacuation plans to represent newest data of areas that are transit dependent that will need assistance in evacuation and re-entry.
2. **Action:** Coordinate to improve light signalization between jurisdictions to speed evacuations?
3. **Action:** Continue to implement the recommendations in the Statewide Regional Evacuation Study.
4. **Action:** Improve and expand public education on evacuation planning to improve evacuation times.
Objective 2: Prioritize transportation infrastructure investments that mitigate or adapt to a changing climate.

1. **Action:** Consider future inundation and nuisance flooding to determine areas of flood impacts to roadway stormwater infrastructure (CV 2)

2. **Action:** Regional coordination to prioritize roadway adaptation projects and develop multi-jurisdiction proposals to obtain funding for local projects

3. **Action:** Prioritize and implement mitigation efforts on trails within the Adaptation Action Area and other vulnerable areas.

4. **Action:** Create a research committee consisting of FDOT, the and MPOs and academia and environmental experts to develop research innovative transportation techniques to include causeway designs, mass transit, and water transportation to limit the impacts of sea level rise, flooding and storm surge and improve water quality and natural resource resilience.
Objective 2: Continued…

5. **Action:** Include bicycle and pedestrian improvements when implementing mitigation and adaptation projects.

6. **Action:** Prioritize infrastructure improvements for bus stops serving key populations (shelters, trees in right of way) to mitigate impacts of heat and extreme rain.

7. **Action:** Align transportation investments with the land use recommendations under Goal 7 (Land Use).

8. **Action:** LRTP and Comprehensive Plan Transportation Elements are updated to prioritize Transit Oriented Development in low-risk areas.
BREAKOUT DISCUSSION
Instructions for Breakout Groups

- 30 minutes
- Add your names.
- Select an editor/note taker(s).
- Is this goal on target (Y/N)?
- What are we missing?

• Click on link in Chat Box.
• Click your group tab.
BREAK

Return at 2:35 PM
TRANSPORTATION

CLEAN, ACCESSIBLE, RESILIENT, EQUITABLE
BEST PRACTICES

ENERGY AND TRANSPORTATION IN THE UNITED STATES

• The American Planning Association and its Chapters and Divisions support development of a sustainable energy and transportation agenda. Following the Fourth National Climate Assessment report, APA recognizes that it is imperative to advance important climate-related actions as a core focus of federal transportation policy.
RESILIENT 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.

**Objective 3:** Accelerate the Transition to Clean, Accessible, Resilient, and Equitable Mobility Systems.
Objective 3: Accelerate the Transition to Clean, Accessible, Resilient, and Equitable Mobility Systems.

- **Action:** Convene a Resilient Transportation working group to review/update the Regional Rapid Transit Plan and define assessments
- **Action:** Host a workshop focused on green transportation infrastructure and multi-modal transportation highlighting tools and funding strategies
- **Action:** Collaborate on local funding initiatives and assess feasibility of a coordinated regional transportation tax
- **Action:** Support City-County networking and technical training on fuel consumption assessments, fuel reduction goals and conducting cost-benefit analysis
**OBJECTIVE THREE**

**Objective 3 (Cont.):** Accelerate the Transition to Clean, Accessible, Resilient, and Equitable Mobility Systems.

- **Action:** Conduct GHG and EE assessments for municipal fleet and transportation systems.
- **Action:** Develop local plans for transitioning municipal vehicles and fleets.
- **Action:** Utilize local data to define charging infrastructure needs and develop plan to increase electric mobility to X percent by X.
- **Action:** Install infrastructure to support community and business use of electric or zero-emission vehicles.
- **Action:** Assess feasibility of coordinated procurement strategies for renewable energy and EV to support smaller local governments.
BREAKOUT DISCUSSION

Incorporate Adaptation and Risk Reduction into Budgetary Processes
Regional Resiliency Action Plan

Regional Action Plan

The Tampa Bay Resilience Coalition Memorandum of Understanding tasks members with developing a Regional Resiliency Action Plan (RRAP). The MOU states that the Plan “shall include strategies for coordinated regional preparation for and adaptation to a rapidly changing global environment based on mapping all projected sea-level rise and resulting amplification of localized impacts of hurricanes and tropical storms, and which shall identify funding strategies at the local, state and federal levels for mitigation and adaptation actions to deal with those impacts.”

Science Based The Regional Resiliency Action Plan will include strategies and actions that are based on sound science and technical data. The planning team will work together to identify expert guidance and will use the regional recognized sea-level rise projections as produced by the Tampa Bay Climate Science Advisory Panel to assess sea-level rise vulnerability, inform planning efforts, and provide guidance on what sea-level rise projections should be incorporated into local planning efforts.

Community Involvement The Regional Resiliency Action Plan process will recognizing the importance of involvement by all members of the community. The Coalition Members will engage and involve local businesses, organizations, associations and individuals in developing policies and recommendations which will have the support and commitment of community members and organizations. Community involvement is essential for successful implementation.

2020 Leadership Summit
Plan Purpose and Scope
Planning Timeline and Meetings

Provide Input on draft chapters:
- Provide Input on Chapter 3 People Goals

Meeting Date Audience

Meeting Topic Documents
## REVISION INSTRUCTIONS

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<tr>
<td>1. Please use the “suggesting” feature in the top left to make suggestions in the document OR</td>
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<tr>
<td>2. Download the document to your PC and save. Make edits as needed and upload the document to the Google drive folder or email to <a href="mailto:care@tbrc.org">care@tbrc.org</a></td>
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### Overarching Aspirational 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 plans and synchronize with other plans, including the strategic plan, OMB annual plan, and others. (TBRC, Member Govts.)
- Resilience objectives are integrated into departmental programs, budgets, positions and performance metrics. (TBRC, Member Govts.)
- Member governments will identify a point person or create a dedicated position to coordinate resiliency programs across departments. (TBRC, Member Govts.)
- Identify funding opportunities for increasing organizational capacity necessary to implement resiliency. (TBRC, Member Govts.)

### Option 1:
Use the Suggesting feature
Option 2: Download, Revise and Upload your version to the Folder.
WRAP UP DISCUSSION
Goal 1*: The Region has a connected multimodal transportation network that is resilient to extreme weather, reduces local emissions and enhances equitable mobility and public safety.

The actions in this chapter build on Community Vulnerability Assessments – goals are defined in Chapter 2.