Resilient Connecticut Phase II

Workshop to Discuss Potential Regional Adaptation/Resilience Opportunity Areas

- SCRCOG  ✓ May 24, 2021
- MetroCOG  ✓ May 25, 2021
- WestCOG  ✓ May 26, 2021
- NVCOG  ✓ May 27, 2021

This workshop is being recorded
## Team Present Today

<table>
<thead>
<tr>
<th>Individual</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Victoria Vetre, CFM, SLR Consulting</td>
<td>Presenter and Breakout Room Controller</td>
</tr>
<tr>
<td>David Murphy, PE, CFM, SLR Consulting</td>
<td>Presenter and Breakout Room Facilitator</td>
</tr>
<tr>
<td>Scott Choquette, CFM, Dewberry</td>
<td>Breakout Room Facilitator</td>
</tr>
<tr>
<td>Johanna Greenspan-Johnston, Dewberry</td>
<td>Breakout Room Facilitator</td>
</tr>
<tr>
<td>John Truscinski, CFM, CIRCA</td>
<td>Facilitator</td>
</tr>
<tr>
<td>Joanna Wozniak-Brown, PhD, CIRCA</td>
<td>Facilitator</td>
</tr>
<tr>
<td>Yaprak Onat, PhD, CIRCA</td>
<td>Facilitator</td>
</tr>
<tr>
<td>Katie Lund, CIRCA</td>
<td>Facilitator</td>
</tr>
</tbody>
</table>
Workshop Objectives

• Review Methods to Identify Potential Opportunities
  ✓ What is a potential adaptation/resilience opportunity area?
  ✓ How did we link vulnerability mapping with zones of shared risk and regional assets/infrastructure?

• Presentation of Potential Opportunity Areas
  ✓ What does the general profile of areas look like in the region or community that you represent?

• Breakout Rooms for Discussion about Specific Opportunity Areas
  ✓ Do you have any thoughts about these areas?
  ✓ Did we miss anything?

• Report Out
  ✓ What is your impression of the potential opportunity areas?

• Open Discussion and Next Steps
  ✓ What types of adaptation and resilience projects could you imagine in these areas?
  ✓ How can you participate in the next few steps?
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Workshop Schedule

• Review Methods to Identify Potential Opportunities
  ✓ 1:05 to 1:30 PM
• Presentation of Potential Opportunity Areas
  ✓ 1:30 to 1:55 PM
• Breakout Rooms for Discussion about Specific Opportunity Areas
  ✓ 2:00 to 2:30 PM
• Report Out
  ✓ 2:30 to 2:40 PM
• Open Discussion and Next Steps
  ✓ 2:40 to 3:00 PM
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Review Methods to Identify Potential Opportunities
Getting Oriented

What is a Potential Regional Adaptation/Resilience Opportunity Area?

- Potential
  - Something that has been identified through analysis of vulnerabilities and risks, but we cannot know yet whether this will make it to the end
- Regional
  - Of significance to more than one community; of significance to a COG or the State
- Adaptation
  - Changing over time to address the challenges caused by climate change
- Resilience
  - The ability to prepare, withstand, recover, and adapt
- Opportunity
  - Something positive we can do where a climate-related challenge exists
- Area
  - More than a handful of parcels; part of a community, municipality, or neighborhood
Getting Oriented

*How Did We Get Here? Recap of Discussion Opportunities*

- Summit of November 2020
  - Presented the Results of Resilient Connecticut Phase I
  - Transition into Phase II of Resilient Connecticut
- COG-Based Meetings – fall 2020 through Present
  - Monthly updates to COGs and COG committees
- January/February 2021 Workshops
  - Vulnerability assessment
  - Zones of shared risk
- Webinar of March 2021
  - Update on the vulnerability assessment
Getting Oriented  
*Area of Focus*

- Fairfield and New Haven Counties
- Communities with Transit-Oriented Development (TOD) Potential
- Communities with “Resilience Corridor” Potential
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Getting Oriented
*Not Starting from Scratch*

• Worked with COGs to collect data

• Resilient Connecticut builds on other planning efforts such as Hazard Mitigation Plans, POCDs, and Community Resilience Building workshops
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Getting Oriented
Transition from Challenges to Opportunities

Task 3
Refine the Inventory of Resiliency Planning Projects and Data, and Develop a Database Tool
Compile the Data to Set the Stage

Task 4
Develop a Regional Risk and Vulnerability Assessment and Identify Regional Zones of Shared Risk
Identify the Climate Challenges

Task 5
Develop Regional Resilience and Adaptation Scenarios
Identify the Opportunities
Getting Oriented

Transition from Challenges to Opportunities

Task 3
Refine the Inventory of Resiliency Planning Projects and Data, and Develop a Database Tool

Task 4
Develop a Regional Risk and Vulnerability Assessment and Identify Regional Zones of Shared Risk

Task 5
Develop Regional Resilience and Adaptation Scenarios

Compile the Data to Set the Stage

Identify the Climate Challenges

Identify the Opportunities

Draft report will be issued late June 2021
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

# Getting Oriented

## Terms to Understand

<table>
<thead>
<tr>
<th>Considerations</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Vulnerability</td>
<td>A contributor to climate risk associated with flooding, this is a combination of flood exposure, flood sensitivity, and flood adaptive capacity. Examine in the CCVI viewer.</td>
</tr>
<tr>
<td>Heat Vulnerability</td>
<td>A contributor to climate risk associated with heat, this is a combination of heat exposure, heat sensitivity, and heat adaptive capacity. Examine in the CCVI viewer.</td>
</tr>
<tr>
<td>Social Vulnerability</td>
<td>Factors such as poverty and lack of access to transportation that may weaken a community’s ability to prevent losses during a disaster.</td>
</tr>
<tr>
<td>Zone of Shared Risk</td>
<td>Areas that face common challenges already, or caused by climate change, and therefore risks are shared among or between groups of people that may have different perspectives and priorities for resilience.</td>
</tr>
<tr>
<td>Regional Asset or Infrastructure</td>
<td>Asset or Infrastructure that serves more than one community; or is important to a region.</td>
</tr>
<tr>
<td>Area of Planned Development Present</td>
<td>Areas identified in POCDs and RPOCDs for a variety of development and redevelopment.</td>
</tr>
<tr>
<td>Federal Opportunity Zone</td>
<td>Opportunity Zones provide tax benefits to people and companies with the goal of investing in urban areas.</td>
</tr>
<tr>
<td>Transit-Oriented Development Area</td>
<td>Supports creation of compact, pedestrian-oriented, mixed-use communities centered around train or transit systems.</td>
</tr>
</tbody>
</table>
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Social Vulnerability Index

Zones of Shared Risk

Legend
- 0.82 - 1.00
- 0.62 - 0.81
- 0.41 - 0.61
- 0.21 - 0.40
- 0.00 - 0.20
### Regional Assets and Infrastructure that Serve Numerous Communities by Spanning the Region

- Amtrak
- MetroNorth
- CTrail
- Interstate Highways
- Merritt/Wilbur Cross Parkway
- Route 8
- Route 7
- Route 1
- Major Water Systems such as Aquarion Water Company and Regional Water Authority
- GHNWPCA and other Major Sewer Systems
- Eversource and UI transmission

And more...

### Regional Assets that Serve Numerous Communities from One Location

- State facilities
  - State facilities like courthouses, public safety facilities, State police facilities
  - CT DOT highway garages
- Hospitals
- Major Ports
  - New Haven
  - Bridgeport
  - Stamford
- Airports
- Danbury Mall Mass Distribution Facility and similar
- UConn branches
- Colleges in the CSCU System such as Gateway CC and SCSC

And more...

### Regional Economic Assets that Serve Numerous Communities from One Location

- Major employers
- Major employment areas
- Large tourist sites and museums
- Historic districts
- Long Wharf area
- Steel Point area
- Retail shopping malls

And more...
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Planned Development Area

Legend
- Development Area

Transit-Oriented Development Area

Legend
- TOD Area
Overlay and Score Process

- Linked Regional Assets with ZSR
  - Of 656 ZSR, 626 are “regional”
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Overlay and Score Process

- Linked Regional Assets with ZSR
  ✓ Of 656 ZSR, 626 are “regional”
- Identified top 20% of RZSR
  ✓ Based on number of assets in each RZSR
  ✓ 86 in top 20% - have between 6 and 16 assets
Overlay and Score Process

• Linked Regional Assets with ZSR
  ✓ Of 656 ZSR, 626 are “regional”

• Identified top 20% of RZSR
  ✓ Based on number of assets in each RZSR
  ✓ 86 in top 20% - have between 6 and 16 assets

• Identified intersection of top RZSR and:
  ✓ High flood/high heat scenario
  ✓ TOD areas
  ✓ Planned future development
Tier 1 and Tier 2

Not based on priority, just the process

• Tier 1, typically all intersect:
  - RZSR
  - High flood/high heat
  - TOD
Tier 1 and Tier 2

Not based on priority, just the process

• Tier 1, typically all intersect:
  ✓ RZSR
  ✓ High flood/high heat
  ✓ TOD

• Tier 2, not a perfect intersect:
  ✓ Contains RZSR
  ✓ Proximity to TOD
  ✓ Not fully encompassed by high flood/high heat
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas
Presentation of Potential Opportunity Areas
Here are some **reminders** for our discussion:

- Regional adaptation/resilience opportunity areas are the geographic locations that our team has identified based on overlays of flood vulnerability, heat vulnerability, social vulnerability, zones of shared risk, and regional assets and infrastructure.

- Each potential regional adaptation/resilience opportunity area identified in the region is depicted on an individual page.

Here are some **hints** for our discussion:

- **Scores** associated with the flood, heat, and social vulnerabilities are *relative* scores. A score of “0.9” in one opportunity area demonstrates higher vulnerability than a score of “0.5” in a nearby opportunity area.

- **ID numbers** for the zones of shared risk include a watershed ID. For example, “6900” is the Naugatuck River watershed.

- “**Areas of planned development**” have been gathered from community plans, but the names that we selected for these information sheets are a work in progress.
What should you keep in mind while discussing resilience opportunity areas?

✓ Are there other assets in a particular area that may have been overlooked?
✓ Is there a resource or asset located outside of this area that alleviates some vulnerability?
✓ Is there a specific flood or heat risk location that comes to mind?
✓ Are there any other planning efforts occurring in a specific opportunity area?
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk:
7000-06-20-0
Town: Bridgeport

Flood Vulnerability
- Average Flood Vulnerability Score: 4.95

Heat Vulnerability
- Average Heat Vulnerability Score: 3.98

Combined Vulnerability
### Resilient Connecticut Phase II

**Potential Regional Adaptation/Resilience Opportunity Areas**

<table>
<thead>
<tr>
<th>Area #3</th>
<th>Location: Bridgeport</th>
<th>Tier 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: South End</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Considerations

<table>
<thead>
<tr>
<th>Characteristics of Area</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flood Vulnerability</strong></td>
</tr>
<tr>
<td><strong>Heat Vulnerability</strong></td>
</tr>
<tr>
<td><strong>Social Vulnerability</strong></td>
</tr>
<tr>
<td><strong>Zone of Shared Risk</strong></td>
</tr>
<tr>
<td><strong>Regional Infrastructure Present</strong></td>
</tr>
<tr>
<td><strong>Area of Planned Development Present</strong></td>
</tr>
<tr>
<td><strong>Federal Opportunity Zone Present</strong></td>
</tr>
<tr>
<td><strong>Transit-Oriented Development Area</strong></td>
</tr>
</tbody>
</table>

The Rebuild By Design and Resilient Bridgeport projects are already underway in this area.
Area #3
Name: South End
Location: Bridgeport
Tier 2

- What are the flood-related benefits?
- What are the heat-related benefits?
- What are the benefits to vulnerable populations?
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

NVCOG REGION
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk:
6911-00-402-0
Town: Waterbury

Flood Vulnerability

Heat Vulnerability

Avg Flood Vulnerability Score
3.75

Low → Flood Vulnerability → High

Avg Heat Vulnerability Score
3.71

Low → Heat Vulnerability → High
Resilient Connecticut Phase II

Potential Regional Adaptation/Resilience Opportunity Areas

<table>
<thead>
<tr>
<th>Area #1</th>
<th>Location: Waterbury</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: Waterville</td>
<td>Tier 2</td>
</tr>
</tbody>
</table>

**Considerations**  
**Characteristics of Area**

<table>
<thead>
<tr>
<th>Characteristics of Area</th>
<th>Flood Vulnerability</th>
<th>Heat Vulnerability</th>
<th>Social Vulnerability</th>
<th>Zone of Shared Risk</th>
<th>Regional Infrastructure Present</th>
<th>Area of Planned Development Present</th>
<th>Federal Opportunity Zone Present</th>
<th>Transit-Oriented Development Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Vulnerability</td>
<td>0.26 (moderate-high)</td>
<td></td>
<td></td>
<td></td>
<td>Museum, public sewer and water, Route 8</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Heat Vulnerability</td>
<td>0.31 (moderate-high)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Vulnerability</td>
<td>0.82 (high)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone of Shared Risk</td>
<td>Naugatuck River: 6900</td>
<td>Hancock Brook: 6911</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regional Infrastructure</td>
<td>Museum, public sewer and water, Route 8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Present</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area of Planned Development</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Present</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Opportunity Zone</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Present</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transit-Oriented Development</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk: 6900-00-405-0
Town: Waterbury
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk: 6900-22-409-0
Town: Waterbury

Flood Vulnerability

Combined Vulnerability

Heat Vulnerability

Avg Flood Vulnerability Score 2.02
Avg Heat Vulnerability Score 4.94
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk: 6900-00-406-0
Town: Waterbury

Flood Vulnerability

Heat Vulnerability

Combined Vulnerability

Avg Flood Vulnerability Score: 3.37
Low → Flood Vulnerability → High

Avg Heat Vulnerability Score: 3.75
Low → Heat Vulnerability → High
### Considerations

<table>
<thead>
<tr>
<th>Characteristics of Area</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Vulnerability</td>
<td>0.13 to 0.26 (moderate-high)</td>
</tr>
<tr>
<td>Heat Vulnerability</td>
<td>0.33 to 0.52 (moderate-high)</td>
</tr>
<tr>
<td>Social Vulnerability</td>
<td>0.84 to 0.92 (high)</td>
</tr>
<tr>
<td>Zone of Shared Risk</td>
<td>Naugatuck River: 6900</td>
</tr>
<tr>
<td>Regional Infrastructure Present</td>
<td>TOD, MetroNorth, public water and sewer</td>
</tr>
<tr>
<td>Area of Planned Development Present</td>
<td>Freight Street, Hillside Village, Downtown Waterbury Village</td>
</tr>
<tr>
<td>Federal Opportunity Zone Present</td>
<td>Yes, two tracts</td>
</tr>
<tr>
<td>Transit-Oriented Development Area</td>
<td>Waterbury Station</td>
</tr>
</tbody>
</table>
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk: 6900-00-412-0
Town: Naugatuck

Flood Vulnerability
- Avg Flood Vulnerability Score: 3.74

Heat Vulnerability
- Avg Heat Vulnerability Score: 3.94
### Resilient Connecticut Phase II

**Potential Regional Adaptation/Resilience Opportunity Areas**

<table>
<thead>
<tr>
<th>Area #3</th>
<th>Location: Naugatuck</th>
<th>Tier 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: Naugatuck</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Considerations

<table>
<thead>
<tr>
<th>Characteristics of Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Vulnerability</td>
</tr>
<tr>
<td>Heat Vulnerability</td>
</tr>
<tr>
<td>Social Vulnerability</td>
</tr>
</tbody>
</table>

#### Zone of Shared Risk

- Naugatuck River: 6900

#### Regional Infrastructure Present

- Historic district, TOD, MetroNorth, public water and sewer

#### Area of Planned Development Present

- Downtown and Route 8 mixed-use

#### Federal Opportunity Zone Present

- N/A

#### Transit-Oriented Development Area

- Naugatuck Station

---

**Legend**

- Other Facility
- Shelter
- Opportunity Areas
- Regional Zones of Shared Risk
- TOD Area
- High Flood/Mhigh Heat Area
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk:
6900-00-418-0  
Town: Beacon  
Falls/Ansonia

Flood Vulnerability

Heat Vulnerability

Combined Vulnerability
## Resilient Connecticut Phase II

### Potential Regional Adaptation/Resilience Opportunity Areas

<table>
<thead>
<tr>
<th>Area #4</th>
<th>Location: Seymour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: Seymour</td>
<td>Tier 2</td>
</tr>
</tbody>
</table>

#### Considerations

<table>
<thead>
<tr>
<th>Characteristic of Area</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Vulnerability</td>
<td>0.29 (moderate-high)</td>
</tr>
<tr>
<td>Heat Vulnerability</td>
<td>0.17 (moderate-low)</td>
</tr>
<tr>
<td>Social Vulnerability</td>
<td>0.32 (moderate-low)</td>
</tr>
</tbody>
</table>

#### Characteristics of Area

- **Zone of Shared Risk**: Naugatuck River: 6900
- **Regional Infrastructure Present**: MetroNorth, TOD, public water and sewer service
- **Area of Planned Development Present**: Economic development areas
- **Federal Opportunity Zone Present**: N/A
- **Transit-Oriented Development Area**: Seymour
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk:
6900-00-422-0
Town:
Ansonia/Derby

Flood Vulnerability

Combined Vulnerability

Heat Vulnerability

Avg Flood Vulnerability Score 4.56
Low → Flood Vulnerability → High

Avg Heat Vulnerability Score 3.91
Low → Heat Vulnerability → High
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk:
6900-00-422-99
Town: Ansonia
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk:
6900-00-422-100
Town: Ansonia

Flood Vulnerability

Combined Vulnerability

Heat Vulnerability
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Area #5
Name: Ansonia
Location: Ansonia
Tier 2

<table>
<thead>
<tr>
<th>Considerations</th>
<th>Characteristics of Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Vulnerability</td>
<td>0.38 (high)</td>
</tr>
<tr>
<td>Heat Vulnerability</td>
<td>0.35 (moderate-high)</td>
</tr>
<tr>
<td>Social Vulnerability</td>
<td>0.80 (moderate-high)</td>
</tr>
<tr>
<td>Zone of Shared Risk</td>
<td>Naugatuck River: 6900</td>
</tr>
<tr>
<td>Regional Infrastructure Present</td>
<td>Electric substation, law enforcement, wastewater treatment plant, MetroNorth</td>
</tr>
<tr>
<td>Area of Planned Development Present</td>
<td>Mixed use with industrial and downtown areas</td>
</tr>
<tr>
<td>Federal Opportunity Zone Present</td>
<td>Main Street</td>
</tr>
<tr>
<td>Transit-Oriented Development Area</td>
<td>Ansonia Station</td>
</tr>
</tbody>
</table>
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk:
6900-00-422-96
Town:
Ansonia/Derby
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk: 6900-00-422-95
Town: Derby

Flood Vulnerability
- Avg Flood Vulnerability Score: 4.61

Heat Vulnerability
- Avg Heat Vulnerability Score: 4.08
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk: 6000-00-445-0
Town: Derby

Flood Vulnerability

Combined Vulnerability

Heat Vulnerability

Avg Flood Vulnerability Score: 4.98
Low → Flood Vulnerability → High

Avg Heat Vulnerability Score: 4.52
Low → Heat Vulnerability → High
### Resilient Connecticut Phase II

#### Potential Regional Adaptation/Resilience Opportunity Areas

<table>
<thead>
<tr>
<th>Area #6</th>
<th>Location: Derby/Shelton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: Derby</td>
<td>Tier 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Considerations</th>
<th>Characteristics of Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Vulnerability</td>
<td>0.38 (high)</td>
</tr>
<tr>
<td>Heat Vulnerability</td>
<td>0.35 (moderate-high)</td>
</tr>
<tr>
<td>Social Vulnerability</td>
<td>0.80 (moderate-high)</td>
</tr>
<tr>
<td>Zone of Shared Risk</td>
<td>Naugatuck River: 6900, Housatonic River: 6000</td>
</tr>
<tr>
<td>Regional Infrastructure Present</td>
<td>Electric substation, law enforcement, wastewater treatment plant, MetroNorth, regional transit center</td>
</tr>
<tr>
<td>Area of Planned Development Present</td>
<td>Economic development zone</td>
</tr>
<tr>
<td>Federal Opportunity Zone Present</td>
<td>N/A</td>
</tr>
<tr>
<td>Transit-Oriented Development Area</td>
<td>Derby/Shelton Station</td>
</tr>
</tbody>
</table>
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Breakout Rooms for Discussion About Specific Areas
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Report Out
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Report Out

• What are some of the key findings?
  (missing asset/infrastructure, prioritize asset/infrastructure,

• What are the take-aways?
  (are some areas better opportunities, planning efforts/projects already under way, possible linkages with Resilient Connecticut and other efforts)

• What should happen next?
  (identify other opportunity areas, project types, municipal or community engagement, explore specific vulnerabilities)
Next Steps
Next Steps

• Draft report of potential adaptation/resilience opportunities to be issued June 2021
  ✓ Will describe the flood and heat CCVI tools, the zones of shared risk, the TOD area in the regions, regional assets and infrastructure, etc.

• Transition from Resilient Connecticut Phase II to Resilient Connecticut Phase III
  ✓ CIRCA’s Resilient Connecticut team will work with COGs, municipalities, and State agency partners to advance the Phase II planning in a number of these opportunity areas over the next two years.
  ✓ CIRCA’s Resilient Connecticut team will be looking for the opportunity areas where they can make the most impact and provide the most value (e.g. where planning gaps exist, where alignment can be drawn with COG and community priorities, and where local or state leverage is possible).
  ✓ CIRCA will help identify other funding opportunities going forward.
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Examples of Adaptation and Resilience Projects

- What are the flood-related benefits?
- What are the heat-related benefits?
- What are the benefits to vulnerable populations?
- What is the connection to TOD and resilient corridors?

Example: Meriden Green – Flood Mitigation Project near Meriden TOD
Examples of Adaptation and Resilience Projects

- What are the flood-related benefits?
- What are the heat-related benefits?
- What are the benefits to vulnerable populations?

Example: Resilient Bridgeport – Flood Protection System and Resilience Community Center
Examples of Adaptation and Resilience Projects

- What are the flood-related benefits?
- What are the heat-related benefits?
- What are the benefits to vulnerable populations?

Example: Rebuild By Design Bridgeport – Stormwater Management Improvements and Green Infrastructure
Examples of Adaptation and Resilience Projects

Example: Freight Street TOD – green infrastructure to reduce heat and new buildings to withstand floods
Resources

• Resilient Connecticut web site
  https://resilientconnecticut.uconn.edu/

• Climate fact sheets
  https://resilientconnecticut.uconn.edu/2020/10/07/connecticut-climate-fact-sheets-now-available/

• Climate Change Vulnerability Index (CCVI)
  https://resilientconnecticut.uconn.edu/ccvi/

• Resilient Connecticut Story Map
  https://mminc.maps.arcgis.com/apps/MapSeries/index.html?appid=c700755a764e421596f9fa3719ea5262&folderid=f47a498583604f3f9601ce1de67f7407
Resilient Connecticut Phase II
Potential Regional Adaptation/Resilience Opportunity Areas

Zone of Shared Risk:
6900-00-416-0
Town: Beacon Falls

Flood Vulnerability

Combined Vulnerability

Heat Vulnerability

Avg Flood Vulnerability Score: 3.48
Avg Heat Vulnerability Score: 1.78