

# Grantee: Connecticut - DOH

## Grant: B-13-DS-09-0002

October 1, 2021 thru December 31, 2021

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<b>Grant Number:</b> B-13-DS-09-0002	<b>Obligation Date:</b>	<b>Award Date:</b>
<b>Grantee Name:</b> Connecticut - DOH	<b>Contract End Date:</b> 09/30/2023	<b>Review by HUD:</b> Original - In Progress
<b>Grant Award Amount:</b> \$54,277,359.00	<b>Grant Status:</b> Active	<b>QPR Contact:</b> No QPR Contact Found
<b>LOCCS Authorized Amount:</b> \$54,277,359.00	<b>Estimated PI/RL Funds:</b>	
<b>Total Budget:</b> \$54,277,359.00		

### Disasters:

#### Declaration Number

No Disasters Found

### Narratives

#### Executive Summary:

Connecticut's resilience activities exist at three scales: local demonstration infrastructure projects that will enhance resilience in the low-moderate income City of Bridgeport as a model for the rest of the state, a regional planning process to create a blueprint for resilience across the MID-URN areas of Fairfield and New Haven Counties, and state policy to institutionalize resilience through the SAFR (State Agencies Fostering Resilience) Council.

In Bridgeport, NDR funds will be used to construct three projects and complete two studies. The state will construct a raised University Avenue to provide dry egress for multiple properties that are receiving state support to remediate brownfields and redevelop as mixed-use, a berm that will encircle the eastern area of the South End and significantly reduce flood risk to a large area that includes power generation and substations as well as affordable and historic housing and future transit-oriented development opportunities, and a resilience design center to act as a community hub for resilience activities. The state will study the potential to leverage the regional energy generation and distribution infrastructure located in the South End of Bridgeport for neighborhood benefit and the opportunities for redevelopment in the flood plain in a responsible and resilient manner.

Across Fairfield and New Haven Counties, NDR funds will be used to develop the regional coastal resilience plan, Connecticut Connections. This plan will be based on modeling to be conducted to better understand flood risk and the combination of coastal surge and riverine flooding and provide a blueprint towards resilience for the communities from Greenwich to Madison.

Statewide, NDR funds will support the SAFR Council in their effort to create a resilience roadmap for the state and to institutionalize resilience into state policies.

The activities being carried out under NDR contribute to the State's efforts to affirmatively further fair housing by: 1) enabling the continued safe habitation of existing affordable housing opportunities within walking distance of jobs, public transportation and amenities; 2) mitigating both present and future flood related issues of both publicly and privately owned properties targeted for future multifamily and economic development; and 3) preserving and increasing the potential for affordable homeownership opportunities in this target neighborhood. In addition, the NDR activities will contribute to addressing the regional need to affirmatively further fair housing by encouraging both housing and economic development in low flood risk and transit-oriented neighborhoods across Fairfield and New Haven counties. Many of these NDR activities address specific action steps found in the State of Connecticut Analysis of Impediments to Fair Housing Choice, which is compliant with and supports the federal obligation to affirmatively further fair housing. These action steps include: 1) encourage the creation and rehabilitation of affordable housing in a variety of locations; 2) collaborate with other state agencies to encourage the creation and rehabilitation of affordable housing; and 3) ensure state and local planning documents affirmatively further fair housing.

#### MID-URN Areas:

The State of Connecticut activities focus on the MID-URN geographies of Fairfield and New Haven Counties with the NDR-funded infrastructure activities limited to the Low-Mod income city of Bridgeport.

#### Key Agencies, Partners, Positions, Personnel:

Staff at the Department of Housing will oversee all activities funded through the NDR grant. In addition to a Director of the program, the state will be competitively procuring program management support for grant management, compliance, finance, and other functions.

The bulk of the work will be conducted by consultants and the state is just completing its first public procurement for alternatives assessment, environmental review, and preliminary engineering. Additional consultants will be procured as needed as the projects progress.

The CT Institute for Resilience and Climate Adaptation (CIRCA) at the University of Connecticut will act a sub-recipient, leading the CT Coastal Connections Regional Plan process.



Other state agencies through the SAFR Council including the Office of Policy and Management, Department of Transportation, Department of Energy and Environmental Protection and others will support the Department of Housing on timely permitting, review, and other support measures to ensure that the outcomes and timelines of the projects are met.

Overall	This Report Period	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$65,693,082.00
<b>Total Budget</b>	\$0.00	\$54,277,359.00
<b>Total Obligated</b>	\$847,781.22	\$14,914,240.82
<b>Total Funds Drawdown</b>	\$847,781.22	\$14,874,396.02
<b>Program Funds Drawdown</b>	\$847,781.22	\$14,874,396.02
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$847,781.22	\$14,874,426.02
<b>HUD Identified Most Impacted and Distressed</b>	\$154,630.38	\$7,104,461.33
<b>Other Funds</b>	\$ 0.00	\$ 11,415,723.00
Match Funds	\$ 0.00	\$ 11,415,723.00
Non-Match Funds	\$ 0.00	\$ 0.00

### Funds Expended

Overall	This Period	To Date
STATE OF CONNECTICUT	\$ 847,781.22	\$ 14,874,426.02
State of Connecticut	\$ 0.00	\$ 0.00

## Progress Toward Required Numeric Targets

Requirement	Target	Projected	Actual
<b>Overall Benefit Percentage</b>	50.00%	100.00%	100.00%
<b>Overall Benefit Amount</b>	\$20,947,018.00	\$42,574,036.00	\$8,017,910.67
<b>Minimum Supporting Leverage</b>	\$925,846,000.00	\$ .00	\$ .00
<b>Minimum Direct Leverage</b>	\$146,820,899.00	\$ .00	\$ .00
<b>Limit on Public Services</b>	\$8,141,603.85	\$ .00	\$ .00
<b>Limit on Admin/Planning</b>	\$12,380,665.59	\$12,383,323.00	\$6,856,485.35
<b>Limit on Admin</b>	\$ .00	\$2,713,868.00	\$1,569,755.71
<b>Most Impacted and Distressed</b>	\$54,277,359.00	\$ .00	\$7,104,461.33

## Overall Progress Narrative:

During the 4th quarter of 2021, CTDOH along with the project team continued a regimented schedule of coordination meetings with CTDEEP and other state agencies, City of Bridgeport departments, stakeholders, and the community. For Administration, the project management consultant team continues to support all aspects of administration including procurement, finance, audit, monitoring, document storage, environmental review, and construction. Into Q4 2021, the key work involved review and resolution of the 60% design submission comments, value engineering and sourcing of additional funding. Additionally, the team will continue the project outreach to stakeholders and state and federal agencies. Q4 also included the advancement of the design documents towards the 90% milestone and continued coordination with the Bassick High School project adjacent to the Flood Risk Reduction Project (FRRP) and stakeholder outreach.

## Project Summary

Project #, Project Title	This Report	To Date	
	Program Funds Drawdown	Project Funds Budgeted	Program Funds Drawdown
9999, Restricted Balance	\$0.00	\$0.00	\$0.00



LTC, Long Term Commitment	\$0.00	\$0.00	\$0.00
NDR-ADMIN-26336, Administration	\$115,637.13	\$2,713,868.00	\$1,569,755.71
NDR-BPT-, Bridgeport South End	\$154,630.38	\$42,574,036.00	\$8,201,875.67
NDR-CCRP-, Connecticut Connections Coastal Resilience	\$577,513.71	\$8,989,455.00	\$5,102,764.64
NDR-SAFR-, SAFR Administration	\$0.00	\$0.00	\$0.00
OV, Outcome Values	\$0.00	\$0.00	\$0.00
SL, Supporting Leverage	\$0.00	\$0.00	\$0.00

## Activities

**Project # / NDR-ADMIN-26336 / Administration**



**Grantee Activity Number: NDR-ADMIN****Activity Title: Administration****Activity Type:**

Administration

**Activity Status:**

Under Way

**Project Number:**

NDR-ADMIN-26336

**Project Title:**

Administration

**Projected Start Date:**

02/08/2017

**Projected End Date:**

09/30/2022

**Benefit Type:**

N/A

**Completed Activity Actual End Date:****National Objective:**

NA

**Responsible Organization:**

STATE OF CONNECTICUT

**Overall****Total Projected Budget from All Sources****Oct 1 thru Dec 31, 2021 To Date**

\$0.00 \$2,713,868.00

**Total Budget**

\$0.00 \$2,713,868.00

**Total Obligated**

\$115,637.13 \$1,569,755.71

**Total Funds Drawdown**

\$115,637.13 \$1,569,755.71

**Program Funds Drawdown**

\$115,637.13 \$1,569,755.71

**Program Income Drawdown**

\$0.00 \$0.00

**Program Income Received**

\$0.00 \$0.00

**Total Funds Expended**

\$115,637.13 \$1,569,755.71

STATE OF CONNECTICUT

\$115,637.13 \$1,569,755.71

**Most Impacted and Distressed Expended**

\$0.00 \$0.00

**Other Funds**

\$ 0.00 \$ 0.00

Match Funds

\$ 0.00 \$ 0.00

Non-Match Funds

\$ 0.00 \$ 0.00

**Other Funds:****Overall****This Period****To Date**

Match Funds

\$ 0.00

\$ 0.00

Department of Energy and Environmental Protection

\$ 0.00

\$ 0.00

Department of Transportation

\$ 0.00

\$ 0.00

Office of Policy and Management

\$ 0.00

\$ 0.00

University of Connecticut, CT Institute for Resilience and

\$ 0.00

\$ 0.00

**Activity Description:**

Grant Administration activities to ensure that the program deadlines are met and all HUD regulations are followed in achieving the desired outcomes of the other projects.

**Location Description:**

Statewide

**Activity Progress Narrative:**

The program management (PM) consultant continues to provide support for all aspects of the program

grant. As the liaison between the project consultants and CTDOH they have established a document management system that will house all aspects of the program including contracts, submittals, reports and registers and financials. The PM has established and continues to maintain efficient workflows that will allow for full tracking of all program components. After the submission of the 60% design for FRRP in Q2, a risk assessment was completed, and an updated risk register and memo were developed and submitted to CTDOH for review. A copy also resides in the document management system. The PM continues to review and process consultant invoices and submitting them to CTDOH for final review and approval. As the grantee, CTDOH has full and final oversight of all aspects of the program and the PM team reports directly to CTDOH.

**Section 3 Qualitative Efforts:**

**Accomplishments Performance Measures**

**No Accomplishments Performance Measures**

**Beneficiaries Performance Measures**

**No Beneficiaries Performance Measures found.**

**Activity Locations**

**No Activity Locations found.**

**Other Funding Sources**

No Other Funding Sources Found

Total Other Funding Sources

**Amount**

\$27,550,000.00

**Other Funding Sources Budgeted - Detail**

**Match Sources**

Department of Energy and Environmental Protection

Department of Transportation

Office of Policy and Management

University of Connecticut, CT Institute for Resilience and Climate Adaptation

Subtotal Match Sources

**Amount**

\$25,000,000.00

\$1,000,000.00

\$350,000.00

\$1,200,000.00

\$27,550,000.00

**Activity Supporting Documents:**

None

**Project # / NDR-BPT- / Bridgeport South End**



**Grantee Activity Number: NDR-BPT-Berm - 2066128**

**Activity Title: Earthen Berm**

**Activity Type:**

Dike/dam/stream-river bank repairs

**Project Number:**

NDR-BPT-

**Projected Start Date:**

02/08/2017

**Benefit Type:**

Area Benefit (Census)

**National Objective:**

Low/Mod

**Activity Status:**

Under Way

**Project Title:**

Bridgeport South End

**Projected End Date:**

09/30/2022

**Completed Activity Actual End Date:**

**Responsible Organization:**

STATE OF CONNECTICUT

**Overall**

**Total Projected Budget from All Sources**

**Oct 1 thru Dec 31, 2021 To Date**

\$0.00 \$35,630,036.00

**Total Budget**

\$0.00 \$35,630,036.00

**Total Obligated**

\$131,649.88 \$6,818,291.31

**Total Funds Drawdown**

\$131,649.88 \$6,818,291.31

**Program Funds Drawdown**

\$131,649.88 \$6,818,291.31

**Program Income Drawdown**

\$0.00 \$0.00

**Program Income Received**

\$0.00 \$0.00

**Total Funds Expended**

\$131,649.88 \$6,818,321.31

STATE OF CONNECTICUT

\$131,649.88 \$6,818,321.31

**Most Impacted and Distressed Expended**

\$131,649.88 \$5,939,118.09

**Other Funds**

\$ 0.00 \$ 0.00

Match Funds

\$ 0.00 \$ 0.00

Non-Match Funds

\$ 0.00 \$ 0.00

**Other Funds:**

**Overall**

**This Period**

**To Date**

Match Funds

\$ 0.00

\$ 0.00

**Activity Description:**

Construct an accredited flood protection line linking the redevelopment of 60 Main Street, the new elevated natural gas-fired power plant, and downtown, removing the eastern South End's critical infrastructure and low-moderate income housing and historic districts from the 100-year flood plain and reinforcing the connection between the Downtown and South End neighborhoods.

**Location Description:**

City of Bridgeport's South End

**Activity Progress Narrative:**

Bi-weekly conference calls were conducted with CT DOH, CT DOT and the Design Team to coordinate issues and review design status. Designer continued to address comments on the 60% final design. Coordination meetings were conducted with CT DEEP, City of Bridgeport and the Bassick High School team. Tree Inventory for Seaside Park was initiated this period. Preparation of subsurface investigation bid documents was completed.



Efforts are underway to resolve questions of long-term ownership of the facilities and plan for operations and maintenance. Preparation of environmental permit applications continued this period.

**Section 3 Qualitative Efforts:**

**Accomplishments Performance Measures**

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of public facilities	0	0/1
# of Linear feet of Public	0	0/3500
# of Linear miles of Public	0	0/1

**Beneficiaries Performance Measures**

	Beneficiaries - Area Benefit Census			
	Low	Mod	Total	Low/Mod
# of Persons	3246	645	4440	87.64

LMI%:	77.08
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**Activity Locations**

**No Activity Locations found.**

**Other Funding Sources**

**Amount**

No Other Funding Sources Found

Total Other Funding Sources

**Other Funding Sources Budgeted - Detail**

**No Other Match Funding Sources Found**

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**Activity Supporting Documents:** None



**Grantee Activity Number: NDR-BPT-ResCtr - 2066127**

**Activity Title: Resilience Center**

**Activity Type:**

Rehabilitation/reconstruction of public facilities

**Activity Status:**

Under Way

**Project Number:**

NDR-BPT-

**Project Title:**

Bridgeport South End

**Projected Start Date:**

02/02/2017

**Projected End Date:**

09/30/2022

**Benefit Type:**

Area Benefit (Census)

**Completed Activity Actual End Date:**

**National Objective:**

Low/Mod

**Responsible Organization:**

STATE OF CONNECTICUT

**Overall**

**Total Projected Budget from All Sources**

**Oct 1 thru Dec 31, 2021 To Date**

\$0.00 \$1,000,000.00

**Total Budget**

\$0.00 \$1,000,000.00

**Total Obligated**

\$3,676.88 \$190,679.64

**Total Funds Drawdown**

\$3,676.88 \$190,679.64

**Program Funds Drawdown**

\$3,676.88 \$190,679.64

**Program Income Drawdown**

\$0.00 \$0.00

**Program Income Received**

\$0.00 \$0.00

**Total Funds Expended**

\$3,676.88 \$190,679.64

STATE OF CONNECTICUT

\$3,676.88 \$190,679.64

**Most Impacted and Distressed Expended**

\$3,676.88 \$165,855.07

**Other Funds**

\$ 0.00 \$ 0.00

Match Funds

\$ 0.00 \$ 0.00

Non-Match Funds

\$ 0.00 \$ 0.00

**Other Funds:**

**Overall**

**This Period**

**To Date**

Match Funds

\$ 0.00

\$ 0.00

**Activity Description:**

Construct a design center in the South End to operate as a community center and provide a central location for providing information to the community and assist the community in future recovery efforts.

**Location Description:**

City of Bridgeport's South End

**Activity Progress Narrative:**

During Final Design, the team will contribute to the collaborative understanding of how NDR funding to the Freeman Houses will be used to create space and programming reflective of the proposed resilience center status of Freeman Houses. No Design Team activity this quarter.

**Section 3 Qualitative Efforts:**





## Accomplishments Performance Measures

No Accomplishments Performance Measures

## Beneficiaries Performance Measures

### Beneficiaries - Area Benefit Census

	Low	Mod	Total	Low/Mod
# of Persons	3240	645	4440	87.50

LMI%:

## Activity Locations

No Activity Locations found.

### Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

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Activity Supporting Documents:

None



**Grantee Activity Number: NDR-BPT-Univ-2066126****Activity Title: University Ave****Activity Type:**

Construction/reconstruction of streets

**Activity Status:**

Under Way

**Project Number:**

NDR-BPT-

**Project Title:**

Bridgeport South End

**Projected Start Date:**

02/08/2017

**Projected End Date:**

09/30/2022

**Benefit Type:**

Area Benefit (Census)

**Completed Activity Actual End Date:****National Objective:**

Low/Mod

**Responsible Organization:**

STATE OF CONNECTICUT

**Overall****Total Projected Budget from All Sources****Oct 1 thru Dec 31, 2021 To Date**

\$0.00 \$7,404,000.00

**Total Budget**

\$0.00 \$5,264,000.00

**Total Obligated**

\$19,303.62 \$1,008,939.72

**Total Funds Drawdown**

\$19,303.62 \$1,008,939.72

**Program Funds Drawdown**

\$19,303.62 \$1,008,939.72

**Program Income Drawdown**

\$0.00 \$0.00

**Program Income Received**

\$0.00 \$0.00

**Total Funds Expended**

\$19,303.62 \$1,008,939.72

## STATE OF CONNECTICUT

\$19,303.62 \$1,008,939.72

**Most Impacted and Distressed Expended**

\$19,303.62 \$878,610.77

**Other Funds**

\$ 0.00 \$ 2,140,000.00

## Match Funds

\$ 0.00 \$ 2,140,000.00

## Non-Match Funds

\$ 0.00 \$ 0.00

**Other Funds:****Overall****This Period****To Date**

## Match Funds

\$ 0.00

\$ 0.00

## Department of Economic and Community Development

\$ 0.00

\$ 0.00

**Activity Description:**

Raise University Avenue from Myrtle Avenue to 60 Main Street to serve as a dry egress corridor for the redevelopment of 60 Main Street and other properties.

**Location Description:**

City of Bridgeport's South End

**Activity Progress Narrative:**

Bi-weekly conference calls were conducted with CT DOH, CT DOT and the Design Team to coordinate issues and review design status. Coordination meetings were conducted with CT DEEP, City of Bridgeport and the Bassick High School team. Preparation of subsurface investigation bid documents continued. Comments received to date on 60% final design submittal have been forwarded to the design team for their evaluation/assessment, and response/incorporation. Due to lack of a formal agreement with the utility companies, the involved Connecticut state agencies are

working to review applicable state statutes and determine the path forward regarding this issue.

**Section 3 Qualitative Efforts:**

**Accomplishments Performance Measures**

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of Public	0	0/1310
# of Linear miles of Public	0	0/1

**Beneficiaries Performance Measures**

	Beneficiaries - Area Benefit Census			
	Low	Mod	Total	Low/Mod
# of Persons	3240	645	4440	87.50

<b>LMI%:</b>	
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**Activity Locations**

**No Activity Locations found.**

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	\$2,365,000.00

**Other Funding Sources Budgeted - Detail**

Match Sources	Amount
Department of Economic and Community Development	\$2,365,000.00
Subtotal Match Sources	\$2,365,000.00

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**Activity Supporting Documents:** None

**Project # / NDR-CCRP- / Connecticut Connections Coastal Resilience**

**Grantee Activity Number: NDR-CCCRP-Coastal - 2066131****Activity Title: Connecticut Connections Coastal Resilience Plan****Activity Type:**

Planning

**Activity Status:**

Under Way

**Project Number:**

NDR-CCRP-

**Project Title:**

Connecticut Connections Coastal Resilience Plan

**Projected Start Date:**

02/08/2017

**Projected End Date:**

09/30/2022

**Benefit Type:**

Area Benefit (Census)

**Completed Activity Actual End Date:****National Objective:**

NA

**Responsible Organization:**

STATE OF CONNECTICUT

**Overall****Total Projected Budget from All Sources****Oct 1 thru Dec 31, 2021 To Date**

\$0.00 \$18,263,026.00

**Total Budget**

\$0.00 \$8,989,455.00

**Total Obligated**

\$577,513.71 \$5,102,764.64

**Total Funds Drawdown**

\$577,513.71 \$5,102,764.64

**Program Funds Drawdown**

\$577,513.71 \$5,102,764.64

**Program Income Drawdown**

\$0.00 \$0.00

**Program Income Received**

\$0.00 \$0.00

**Total Funds Expended**

\$577,513.71 \$5,102,764.64

STATE OF CONNECTICUT

\$577,513.71 \$5,102,764.64

**Most Impacted and Distressed Expended**

\$0.00 \$0.00

**Other Funds**

\$ 0.00 \$ 9,273,571.00

Match Funds

\$ 0.00 \$ 9,273,571.00

Non-Match Funds

\$ 0.00 \$ 0.00

**Other Funds:****Overall****This Period****To Date**

Match Funds

\$ 0.00

\$ 0.00

Department of Economic and Community Development

\$ 0.00

\$ 0.00

Department of Transportation

\$ 0.00

\$ 0.00

**Activity Description:**

Develop a regional coastal resilience plan covering the MID-URN geography of Fairfield and New Haven Counties including modeling of the future impacts of flooding to critical facilities.

**Location Description:**

All of Fairfield and New Haven Counties

**Activity Progress Narrative:**

In this Quarter, the Resilient Connecticut team focused on releasing a final vulnerability assessment report incorporating public comments from the Phase II comment period. The inventory of 63 Resilience Opportunity Areas (ROARs) was reviewed and evaluated using the PERSISTS decision support criteria from the Phase I

Planning Framework. Additional follow-up engagement with municipalities, COGs, and state agencies was conducted to inform prioritization of sites for Phase III. A final Phase II report which documents the planning process, and provides recommendations, is in development and will be released in the first quarter of 2022.

**Planning Activities**

Following the release of a draft for public comments, a final “Phase II: From Regional Vulnerabilities to Resilience Opportunities” report was released incorporating stakeholder feedback: [https://resilientconnecticut.uconn.edu/wp-content/uploads/sites/2761/2021/12/Task-4.2-report\\_final.pdf](https://resilientconnecticut.uconn.edu/wp-content/uploads/sites/2761/2021/12/Task-4.2-report_final.pdf). The report summarizes the vulnerability assessment work that was conducted through the Phase II planning process, leading to the identification of 63 potential project locations for Phase III site and community scale implementation planning. The planning team worked over several weeks in October to review each of the 63 locations and evaluate potential for carrying forward project areas into Phase III. This included utilizing the PERSISTS decision support framework developed in Phase I: <https://resilientconnecticut.uconn.edu/wp-content/uploads/sites/2761/2020/04/Resilient-Connecticut-Planning-Framework-Final-1-30-20> . A list of 20 Resilience Opportunity Areas (ROARs) was developed for additional follow-up with municipalities, COGs and state agencies. This list represents a diverse set of land use typologies among the areas that scored highest using the PERSISTS methodology. A final report for Phase II is being drafted to document the process and present a map portfolio for these 20 locations. The State Agencies Fostering Resilience Council held a meeting on 12/10/21 to review the potential project areas and discuss prioritization. Additional meetings with individual agencies and towns are ongoing to reach a consensus on which areas will be prioritized in Phase III.

**Engagement**

CIRCA hosted a webinar in early October to explain the format and content of the 63 different Resilience Opportunity Area maps that are being considered for Phase III and to help CIRCA work more directly with communities and partners as we move from planning to implementation. CIRCA also continued its webinar focus this quarter by participating in a CT DEEP Climate Solutions Webinar on the use of stormwater authorities as a financing strategy for municipal climate resilience. In this quarter CIRCA released a new fact sheet as part of the Resilient Connecticut Information Series:

<https://resilientconnecticut.uconn.edu/fact-sheets/>. The new Stormwater and Climate Resilience Fact sheet explains what a Stormwater Authority is, outlines steps municipalities can take to establish an authority, describes the types of projects that can be funded with the use of an authority, and includes a model ordinance to establish an authority. This product will be complemented in the next quarter with additional fact sheets to help guide municipalities in the use of this revenue generating tool for resilience. Also in this quarter, a meeting of the Resilient Connecticut Collaborative:

<https://resilientconnecticut.uconn.edu/resilient-connecticut-collaborative/> , was held to provide an update on Phase II activities. The meeting also allowed continued time for networking and a member spotlight for Desegregate Connecticut.

**Technical Supporting Activities**

In this quarter the CIRCA research team continued to develop nearshore modeling for Fairfield and Stamford. For Fairfield, we examined i) different flood scenario design levels to understand the main drivers for flow and ii) compared 10-year, 10-year + 20 inches of sea-level rise, 100-year and 100-year +20 inches of sea level rise flooding scenarios to demonstrate how much of the streets, buildings and community lifelines are flooded. The team compared the Super Storm Sandy results with the water level measurements obtained from the town. The team also modeled Stamford for flooding and the impact of the tide gate there. In the next quarter, the team will work on modeling of the Phase III areas and plan a deployment of wave and current meters for validation purposes.

CIRCA also worked on inter-model comparisons of wave-induced flooding over the wet/dry zone during storm surges.

According to our previous model results at Fairfield, CT, ADCIR-SWAN largely overestimates the wave-induced water level. We built an idealized domain to test the performance of different models, including ROMS-SWAN, FVCOM-SWAVE, ADCIRC-SWAN, and SWAN. The results show that all the models give the same level wave height simulation. However, ADCIRC-SWAN turns to overestimate the total water level compared to ROMS-SWAN and FVCOM-SWAVE. Further modeling tests suggest that enlarging the modeling domain at the cross-shore direction and smoothing the bathymetry at the open boundary could dump the modeling noise in ADCIRC-SWAN.

CIRCA also collected data from heat sensors that have been deployed in the city of New Haven and are working on synthesizing results to dissemination.

**Section 3 Qualitative Efforts:**

**Accomplishments Performance Measures**

	<b>This Report Period</b>	<b>Cumulative Actual Total / Expected</b>
	<b>Total</b>	<b>Total</b>
<b># of Plans or Planning Products</b>	0	0/1
<b># of community engagement</b>	0	6/15

**Beneficiaries Performance Measures**

	<b>Beneficiaries - Area Benefit Census</b>			
	<b>Low</b>	<b>Mod</b>	<b>Total</b>	<b>Low/Mod</b>
<b># of Persons</b>	460395	280398	1802207	41.10

<b>LMI%:</b>	
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## Activity Locations

No Activity Locations found.

### Other Funding Sources

	Amount
No Other Funding Sources Found	
Total Other Funding Sources	\$111,750,000.00

## Other Funding Sources Budgeted - Detail

### Match Sources

	Amount
Department of Economic and Community Development	\$30,350,000.00
Department of Transportation	\$81,400,000.00
Subtotal Match Sources	\$111,750,000.00

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**Activity Supporting Documents:** None

