



Southeastern Connecticut Regional Resilience Guidebook

Acknowledgments

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SCCOG

Southeastern Connecticut Council of Governments

5 Connecticut Avenue, Norwich, CT 06360 (860)-889-2324



19-B Thames Street, Groton, CT 06340 (860)-437-4659



55 Church Street, 3rd Floor New Haven, CT 06510 (203) 568-6270

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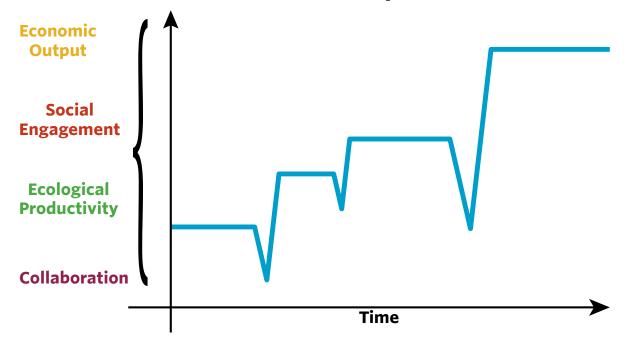
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What is Regional Resilience?

Resilience is a broad concept that describes the ability of a system to absorb, bounce back, and learn from disturbances. In recent years, the term has been increasingly applied to human communities as they prepare for extreme weather events, a changing climate, and uncertain economic, social, and political circumstances.

Resilience describes the ability of a system to become stronger after a disturbance. In engineering, resilience is often compared with strength or durability, which merely measure the ability of a system to accept stress without breaking. Resilient systems on the other hand are able to absorb, bounce back, and even learn from these stresses. Take the instance of different forms of storm protection. Seawalls and levees may have high durability and strength and can be quite effective at holding back floodwaters up to a point. However, these systems are static and will not respond on their own to environmental changes such as changing river courses, eroding coastlines, or rising sea levels. Contrast these systems with coastal ecosystems such as salt marshes and oyster reefs. As these natural systems are confronted with storm surge or sea level rise, they will regenerate and evolve to better respond to future disturbances.

Human communities can exhibit resilience in the same way as ecosystems. Think of a bedroom community where people rarely interact with their neighbors and everyone shops at big box stores. If there were to be a large scale disaster to hit this community, many residents may move somewhere else as there is little about their community that they cannot find elsewhere. In this instance, the community "system" has reached a breaking point and will not be able to reform around its previous existence and purpose. Contrast the bedroom community with a tight-knit, resilient neighborhood where everyone knows everyone else and people work, shop, and recreate near where they live. A storm hitting this area may actually strengthen the bonds of community as people are driven to help their neighbors recover and work with leaders to ensure that the right infrastructure and communication channels are in place to reduce harm from a later event.



Whether an ecosystem, an economy, or a human community, a resilient system is able to absorb disturbances such as a storm or massive layoffs and rebuild stronger than it was before the event.

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Communities within a geographic region often share similar threats, vulnerabilities, and strengths. While resilience at the level of a neighborhood or town is often best defined by interactions amongst residents and perhaps a handful of community concerns, regional resilience is largely determined by communication amongst leadership as well as a complex web of infrastructural, economic, and environmental systems that may face a number of threats simultaneously.

While jurisdictional boundaries between municipalities may be helpful for isolating and addressing some local issues, they may actually create a hindrance when attempting to address large-scale shared challenges such as loss of major industries, flooding along a shared coast or river, or jump-starting a renewable energy sector.

For a region to function as a resilient whole, individual leaders at the community



At a series of workshops during the Fall of 2016, participants from a wide range of professions and communities in Southeastern Connecticut came together to discuss what greater resilience looks like for the region.

scale must have a broad regional awareness of diverse and interrelated sectors including water infrastructure, food provisions, ecosystem services, transportation networks, energy production and distribution, and economic development. With this shared awareness, communities will be able to more readily identify shared challenges and mutually beneficial solutions across a region.

Regional Collaboration in Southeastern Connecticut

The communities in Southeastern Connecticut already exhibit strong regional action in some arenas and have a number of institutional bodies in place to facilitate a regional approach to planning. The Southeastern Connecticut Council of Governments (SCCOG) along with its sister organization the Southeastern Connecticut Enterprise Region (SeCTer) help coordinate much of the planning on a regional scale. Important regional planning documents produced by these two organizations include:

- Regional Plan of Conservation and Development
- Comprehensive Economic Development Strategy
- Multi-Jurisdictional Hazard Mitigation Plan
- Long Range Transportation Plan.

Other important efforts that constitute more regional scale planning efforts in Southeastern Connecticut include:

- Water supply infrastructure planning through the Eastern Water Utility Coordinating Commission (WUCC)
- Emergency preparedness training and mutual aid agreements between municipalities, CT Department of Emergency Services & Public Protection, Division of Emergency Management & Homeland Security (DEMHS) Region 4 Regional Emergency Planning Team

Geologic Context

The combined effects of landform and sea levels creates patterns of flood vulnerabilities in north-south coastal valleys and safety on the adjoining ridges.

As the Atlantic Ocean formed and the continental plates pulled apart, a series of north-south valleys and adjoining ridges formed across modern day Connecticut including the Housatonic, Connecticut, and Thames River Valleys. During the Wisconsin glaciation, ice extended roughly 4 to 25 miles south of New London County where it deposited the rocks and sediment that now form parts of Long Island and Fishers Island. Today, both of these islands act to an extent as Connecticut's natural breakwaters, reducing wave energies generated by wind fetch across the Atlantic Ocean.

As the glaciers retreated, meltwaters rushed into Connecticut's north-south valleys depositing more sediment on top of the bedrock and flowing into a large freshwater lake contained where today's Long Island Sound now resides. Because of the hardness of the underlying bedrock (a remnant of the African continent as it split apart from present day North America), the buildup of sediment did not reach the rates of other areas along the Connecticut coast and eastern seaboard. Additionally, the barrier formed by Long Island prevented further sediment from washing in from the Atlantic. This relative lack of sediment is both a blessing and curse for the region. Because the region lacked low-lying plains found in other parts of the state, much of the development over the past couple hundred years occurred on the well protected, rocky ridges. This creates fewer vulnerable communities relative to the rest of the state. However, the communities and infrastructure that did crop up in flood prone areas often lacks the natural infrastructure such as salt marshes, oyster reefs, and eelgrass beds to lessen the impact of extreme weather.



Separating tectonic plates created a series of rocky ridges and low-lying coastal estuaries along Connecticut's coast. Salt marshes (such as the one above at the mouth of Bride Brook in Niantic) developed upon layers of sediment, washed down from the north.

2 Million Years Ago

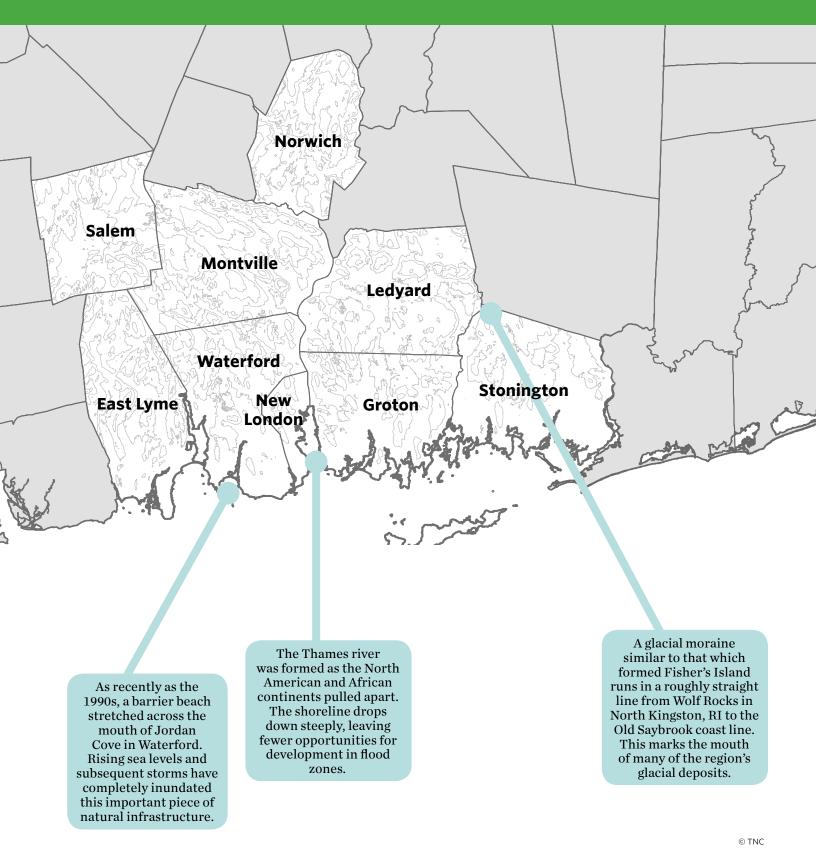
Pangaea begins to break apart forming rifts in the rock including today's Thames River Valley

ca. 20,000 BC Maximum extent of Wisconsin Glacier across Long Island Sound

ca. 8,240 BC Earliest evidence of human settlements in Connecticut

ca. 4,000 BC Sea Level 35 feet lower than present level

ca. 2,000 BC Connecticut climate stabilizes



Recent Climate History

The damages caused by past storms offer cautionary tales and reflect the realities of living near the coast.

While the memories of Irene and Sandy remain vivid in the minds of many present-day residents, perhaps the most noteworthy extreme weather event in Connecticut's recent history is the Great New England Hurricane of 1938. The eye of this storm traveled up the Connecticut River Valley downing trees as far north as Vermont. Southeastern Connecticut lay at the eastern edge of the storm's vortex and received some of the strongest winds and highest waves. This event brought down the rail line and a number of other pieces of critical infrastructure in the region.

While Tropical Storm Sandy did create flooding along the coast in New London County, the storm's most damaging energy dissipated before reaching the region. Tropical Storm Irene on the other hand was a shorter lived storm that did not have time to cause as much destructive force along the southeastern coast.

An important aspect of climate is the effects that global temperatures have on sea level. Over the course of geologic time, the sea level has ranged from below the floor of Long Island Sound to many miles inland in Connecticut.* Since 1938, the mean sea level as measured at the New London tide gauge has risen at a rate of roughly 2.55mm/year. If this current trend were to continue, this would amount to roughly 0.84 feet in 100 years. However, climate scientists project that climate change may in fact accelerate, leading to sea levels perhaps six feet higher by century's end.



The Hurricane of 1938 was the most severe storm to hit New England in modern memory. During this event, floodwaters reached up to Bank Street in downtown New London and decimated parts of Fort Trumbull (above).

1638

"Triple storms" raise tides in Narragansett Bay by 14-15 feet.

1770

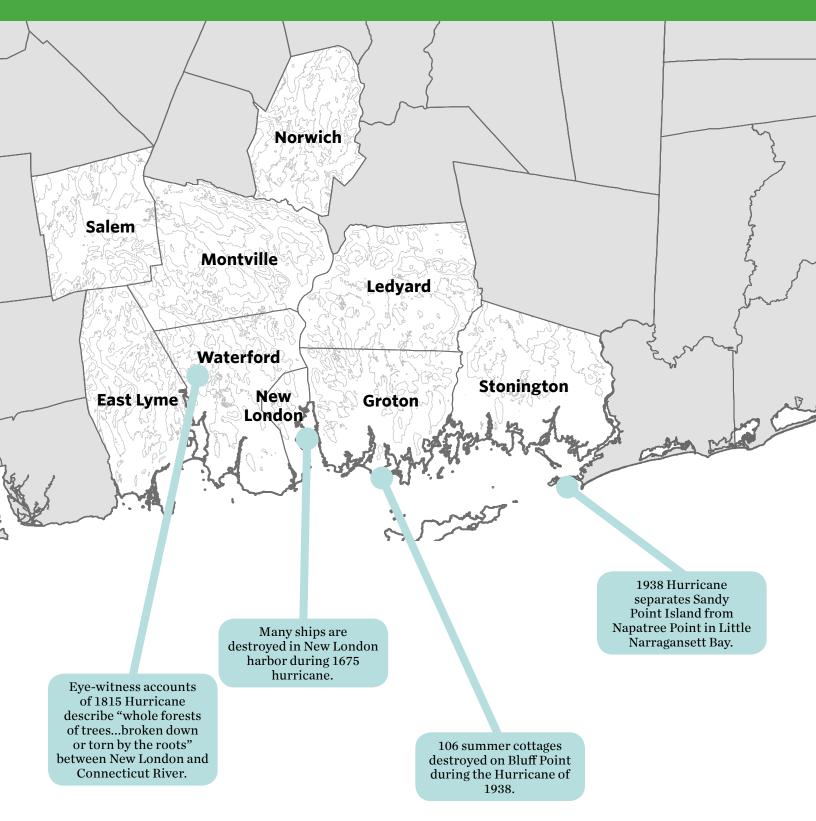
A storm with barometric pressure comparable to 1938 Hurricane drives two vessels ashore in New London harbor

1938

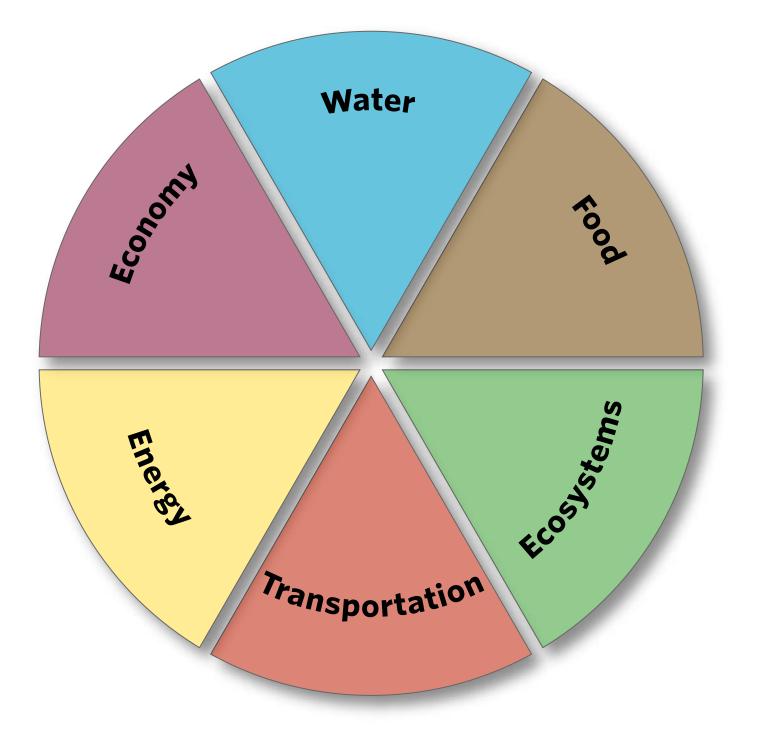
Great New England Hurricane brings gusts of up to 70 mph to New London and floods the waterfront up to Bank Street

2012

Tropical Storm Sandy, considered a near miss for Connecticut, severely damages property on Long Island



*For more information regarding Connecticut's coastal geology and climate history, refer to *A Moveable Shore: The Fate of the Connecticut Coast* (Kent and Patton, 1992)

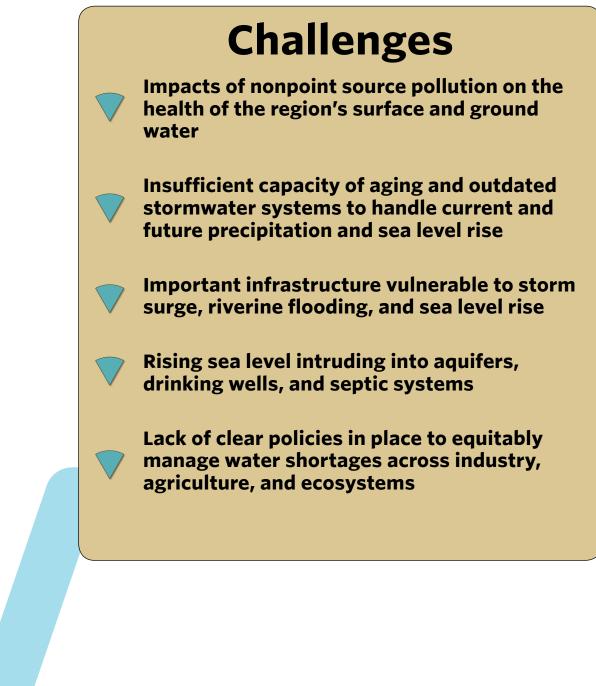


Planning Sectors

During the fall of 2016, a group of over fifty professionals came together for a structured dialogue about the implications of extreme weather, climate change, and shifting social and economic conditions in Southeastern Connecticut. The participants hailed from the fields of land-use planning, economic development, environmental management, public health, social services, transportation, energy, food policy, and emergency management. In these dialogues, participants generated lists of the top challenges posed to and solutions for taking action to ensure regional resilience. Challenges and solutions emerged through the individual and collective discovery across six planning sectors on the opposite page. As anticipated, many of the challenges and solutions overlap between these sectors, reinforcing the reality that true regional resilience will ensure that all of these sectors are comprehensively integrated and addressed.

Water

Natural and managed flows of water in Southeastern Connecticut provide communities with resources for drinking, plumbing, and irrigation and are a key factor in sustaining all of the region's ecosystems. Flooding can cause disruption in the routine and critical activities of communities and water can carry unwanted pollutants into ecosystems, fisheries, and aquifers.





Assess current public and private water supply and distribution capacity

Build upon past projects and foster future opportunities across the region to utilize green infrastructure and improve gray infrastructure to enhance capture and infiltration of runoff

Develop a regionally specific decision support process to help municipalities assess and plan for flooding, efficient water use/reuse, and nonpoint source pollutions, simultaneously

Food

While there is a resurgence of interest in farming and local food, there appears to be a shortage of infrastructure to support these farmers, their business operations, and their access to a broad, regional customer base.

Challenges

Regulatory hurdles faced by producers; particularly new, smaller scale enterprises

Limited processing infrastructure for producers and distributors

Competition for farmland with other, more profitable land-uses such as development

Limited food access for some communities; particularly in parts of Groton and Norwich

Uncertain future environmental conditions present challenges to local and regional agriculture



Explore cooperative funding, sourcing, and distribution models to meet demands for local foods among area residents, schools, and other institutions

Scope feasibility of large scale municipal composting, regional processing facility, and cooperative distribution system

Look to streamline regulatory requirements across multiple state agencies

Create greater housing opportunities in currently developed areas and take steps to promote agricultural careers among the next generation

Explore ways to accommodate the uncertainty of future environmental conditions in farm planning

Reduce flood risk to farmers through dam removal, soil erosion control measures, and watershed management

Conduct a food-shed mapping effort across the region to determine sources and quantities of locally produced food

Ecosystems

The ecosystem services in Southeastern Connecticut help to provide the clean air and water, healthy soils, flood control, and wind protection for the region's towns and cities.

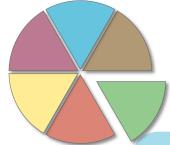
Challenges

Effects of reduced water quantity and quality on natural resources and the derived services and co-benefits for residents

Reduction in ecosystem services such as coastal and riverine flood protection and water purification in forested watersheds

Lack of ecosystem service value integration in existing and future development projects

Need to integrate natural resources and green infrastructure to redefine smart, balanced, and resilient development



Strengthen collaborative leadership that champions benefits of ecosystem services from municipal to regional scale

Catalogue financial mechanisms and incentives for property owners to maintain and enhance natural infrastructure and associated services

Monetize services provided by natural assets when making economic growth and development decisions across the region

Define ways to incorporate ecosystem services directly into permitting requirements for MS4 and other initiatives

Integrate natural infrastructure into zoning codes to reduce conflicts between development and community resilience

Conduct outreach and education for residents and business owners on where and what natural alternatives could be considered alongside standard hard engineering approaches

Transportation

The presence of a few key industries has blessed Southeastern Connecticut with access to a variety of forms of large scale transportation. Despite these assets, there is plenty of room to improve the capacity and sustainability of the region's transportation system and to prepare infrastructure for higher sea levels, flooding, and heat waves.

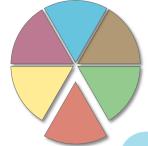
Challenges

Flood vulnerability to critical transportation centers such as New London

Primary arterial roads are vulnerable to flooding, tree falls, and ice impacts

Unreliable emergency transportation for transit-dependent communities to shelters and employment centers

Aging infrastructure including roads, rail, and bridges



Prioritize state and local funding for infrastructure improvements that contribute to overall community resilience

Collaborate on largest regional transportation vulnerabilities and share planning, engineering, and monetary resources across municipalities to enhance regional resilience

Integrate green infrastructure and natural assets into transportation upgrades and retrofits through design standards and codes

Establish mutual aid agreements with nearby urban centers (Hartford, Worcester) to reduce risk to transit-dependent residents during emergencies



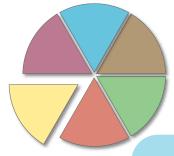
The list of activities that are reliant on the regional energy system is extensive. Without a reliable source of energy and an efficient means to distribute it, many businesses would shut down, community services would collapse, food would spoil, and residents would go cold in the winter.

Challenges

Preparedness and capacity to recover from flooding and high wind events

Communications disconnect between energy consumers and providers leading to potential misunderstandings

Uncertainty surrounding the future of local energy production and supply may hinder further investment in local energy resilience infrastructure such as solar and micro-grid technology



Identify steps to further strengthen and possibly redesign the distribution system in partnership with municipalities

Improve communications among stakeholders within the energy system

Target and incentivize consumer behavior to improve overall regional energy resilience

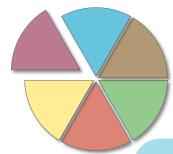
Routinely update state building codes with energy efficiency standards

Update existing response plans with a specific emphasis on speeding up the recovery of energy infrastructure

Economy

The economy is based on connections and dependencies across all planning sectors. As a result, damage to one part of the region can quickly compound, leading to region-wide failures.





Conduct fiscal impact study of extreme weather and sea level rise scenarios to strengthen commitments from community leaders and elected officials

Improve coordination of disaster recovery between public and private stakeholders

Reduce long-term over-reliance on highvalue, residential property for tax revenue

Prioritize compact mixed use areas by infilling downtown and village centers outside of flood hazard areas

General diversification of the economy to increase collective revenue streams and reduce the demands on local ecosystems



Cross-Sector Resilience

The following challenges and solutions represent those areas where multiple planning sectors are directly affected by the physical impacts of extreme weather and climate change. Addressing these issues will have broad reaching benefits across planning sectors and will likely require collaboration across municipalities, professions, and organizations from local to regional scales.

Challenges

Rising sea level intrusion into aquifers, drinking wells, and septic systems

Effects of drought on water quantity and quality for natural resources and the derived services and co-benefits for residents

Flood vulnerability of critical transportation centers such as New London

Preparedness and capacity to recover quickly from flooding and high wind events

Short and long-term effects of flooding and power outages on business continuity and economic recovery



Develop a regionally specific decision support process to help municipalities assess and plan for flooding, efficient use/reuse, and nonpoint source pollution, simultaneously

Integrate natural infrastructure into zoning codes to reduce conflicts between development and community resilience

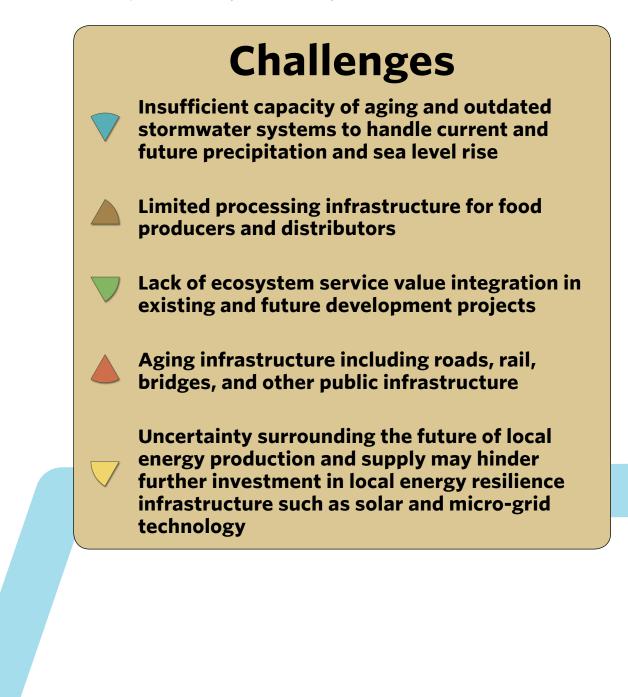
Collaborate on largest regional transportation vulnerabilities and share planning, engineering, and monetary resources across municipalities to enhance regional resilience

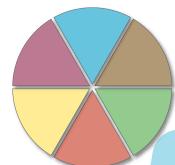
Conduct fiscal impact study of extreme weather, drought, and sea level rise scenarios to strengthen commitments from community leaders and elected officials



Cross-Sector Resilience

Some challenges and solutions that cross planning sectors concern regional support systems that must become more resilient regardless of future climate conditions. Committing the resources and time to addressing these systemic challenges will buffer the region's communities from greater costs and enhance future stability and vibrancy.





Build upon past projects and foster future opportunities across the region to utilize green infrastructure and improve gray infrastructure to enhance capture and infiltration of runoff

Conduct a food-shed mapping effort across the region to determine sources and quantities of locally produced food

Monetize services provided by natural assets when making economic growth and development decisions across the region

Prioritize state and local funding for infrastructure improvements that contribute to overall community resilience across the region



Identify steps to further strengthen and possibly redesign energy distribution system through partnerships across multiple municipalities

Resilience Planning

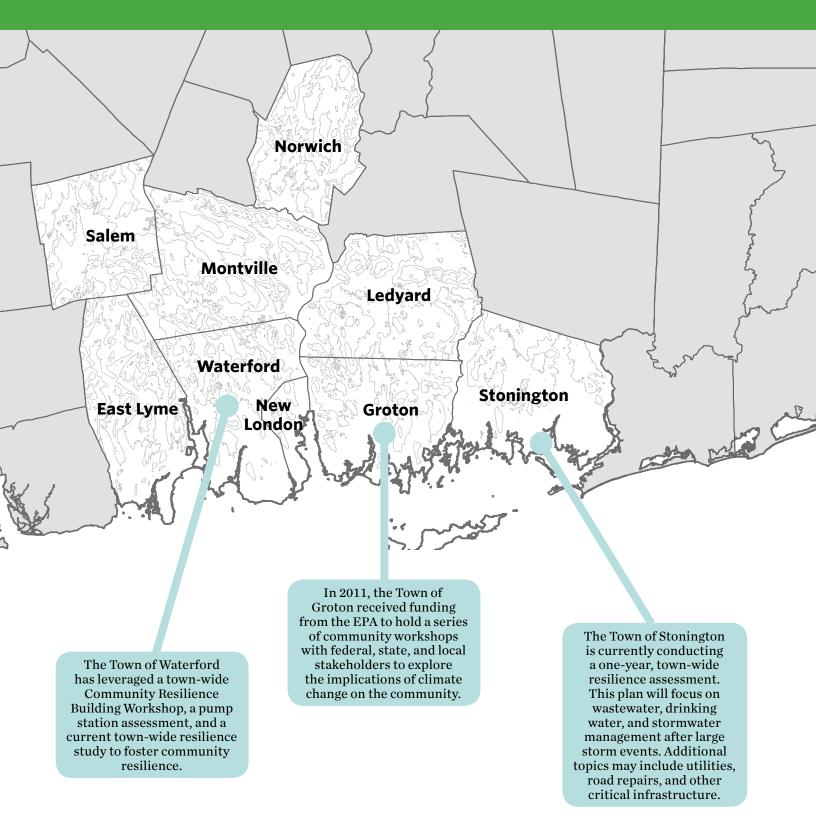
Several municipalities in the region have already begun planning for sea level rise and extreme weather in their communities. These actions benefit not just individual municipalities, but ultimately the region as a whole.

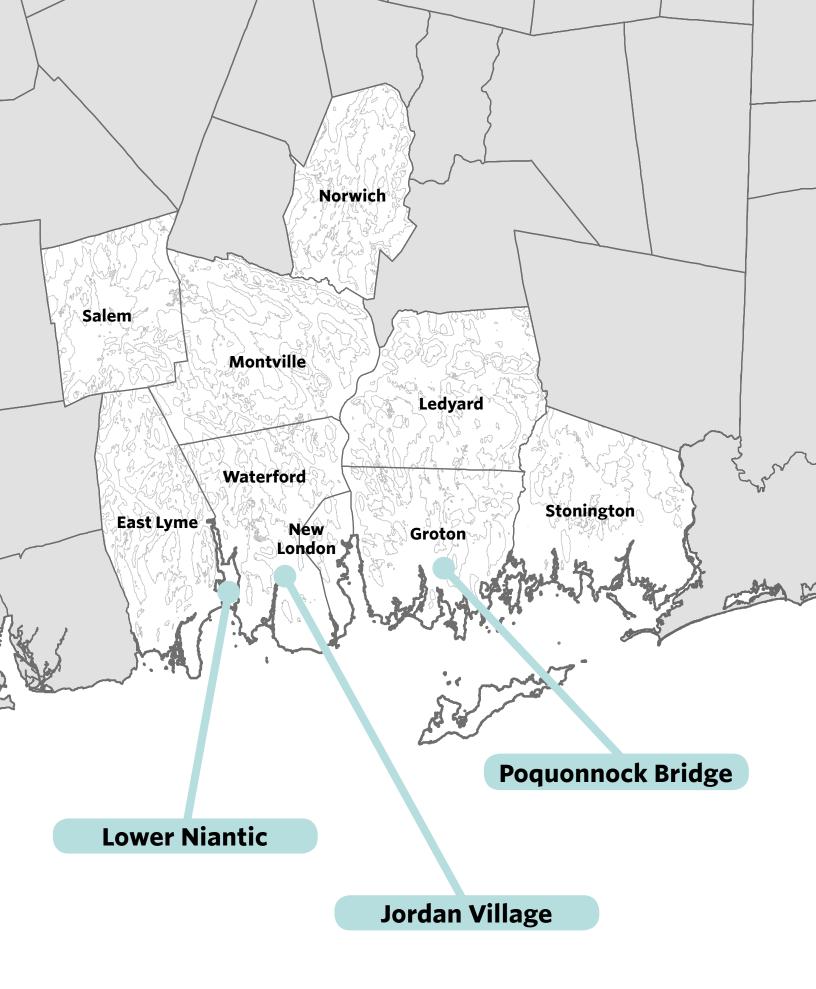
Adapting to extreme weather and a changing climate does not happen overnight. However, the sooner municipalities plan for and move beyond action, the better off they will be in the long run. In 2011, The Nature Conservancy's Coastal Resilience program got the ball rolling with a four-town, Community Resilience Building Workshop to address individual and common vulnerabilities and strengths and priority actions. In that same year, the Town of Groton ran a process in collaboration with the CT DEEP, and the ICLEI. Since then, East Lyme, Stonington, and Waterford have worked with consultants and TNC to assess their vulnerabilities and think through next steps.

At the state level, resilience efforts of this kind have been explicitly encouraged via statewide impact assessments and action planning as part of the 2011 Connecticut Climate Change Preparedness Plan. A number of recommendations in the plan are relevant to this Southeastern Connecticut Regional Resilience Guidebook and warrant periodic review.



A few municipalities in Southeastern Connecticut have convened climate adaptation workshops. At this Community Resilience Building Workshop in Waterford (2015), brought to the town by The Nature Conservancy, municipal planners and officials came to a consensus on their biggest vulnerabilities and strengths along with top priority actions for the community to address over time.







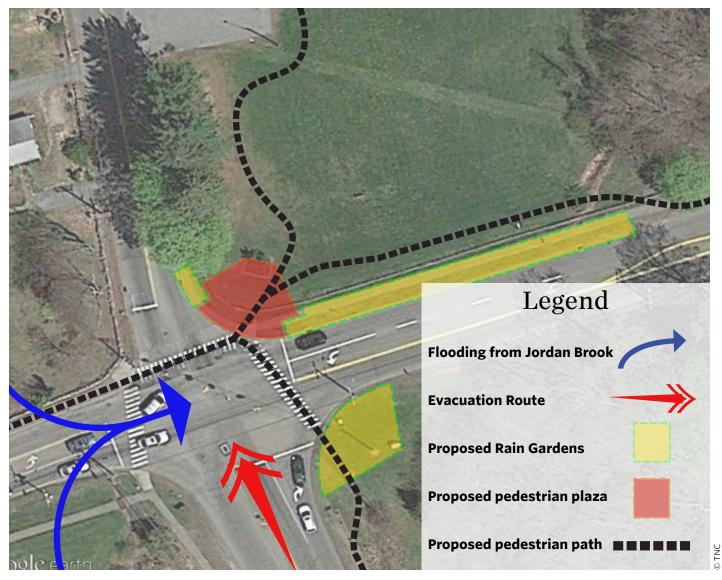
Sample Projects

In this section, the reader will find three conceptual project designs at three nested and progressive scales: neighborhood, municipal, and multi-municipal. The intent is to guide the reader from the local to regional solutions through a suite of actionable scales for resilience. These are by no means the only solutions but represent strategies for how municipalities and regional planning partnerships might approach the challenges of sea level rise and extreme weather as well as socio-economic growth and longerterm stability.

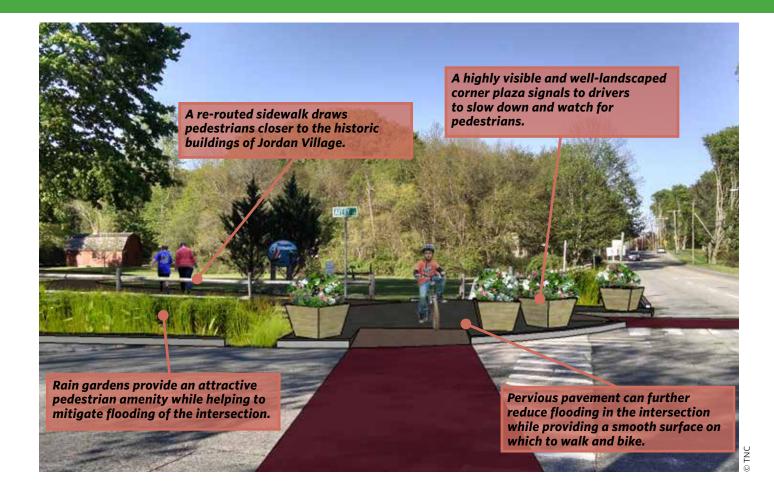
Jordan Village

Sitting within the floodplain of the lower Jordan Brook, the intersection of Rope Ferry Road and Great Neck Road is vulnerable to both flooding from the river as well as to coastal storm surge from Long Island Sound. A thoughtful redesign of the intersection could help increase flood storage capacity, while improving the pedestrian experience.





Using rain gardens, the community of Waterford can reduce flooding at one of its most important intersections.



While fully securing this evacuation route will take a number of different tactics, agencies, and organizations working in tandem, there are important steps that the Town and its citizens can take immediately to begin reducing their vulnerability. Rain gardens can increase the water storage capacity of the landscape surrounding the intersection and all the waterways that drain into it. This will help to divert floodwater away from the intersection and allow it time to infiltrate into the soil before causing a problem for traffic.

These "green infrastructure" strategies for reducing flooding can be designed to enhance the pedestrian experience of the area. Building off the concepts developed in the Waterford Town Center Vision and Strategic Plan, the rendering above depicts a re-routed pedestrian path through the Jordan Village Green. This alignment distances pedestrians from the traffic of Route 1, further promotes the historic barn and houses as destination points, and opens up possibilities for integrating into a larger multi-use greenway through and to the north of the Civic Triangle. Attractive rain gardens can fill in the space left by the removal of the existing sidewalk.

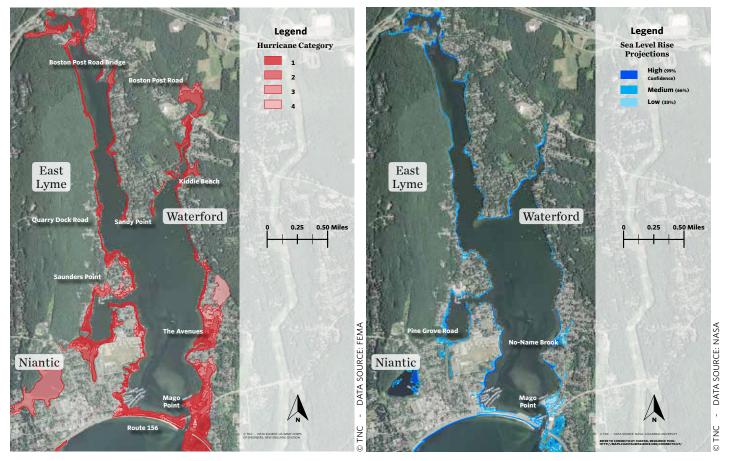
With further input from all relevant stakeholders, it is likely that Jordan Village Green can continue to fulfill its current uses while accommodating increased pedestrian traffic and improved flood mitigation.

Lower Niantic



Analysis

When identifying areas for natural infrastructure solutions, it is important for stakeholders to build a clear understanding of the physical, natural, and human dimensions of a region. This project is focused on building resilience to the shoreline communities and infrastructure around the Lower Niantic River.

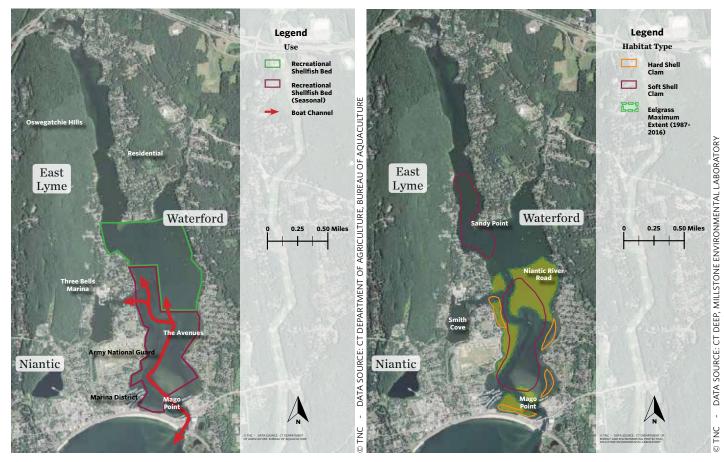


Hurricane model's such as NOAA's SLOSH can be easily viewed through online mapping portals and individual data layers can be downloaded for the Connecticut shoreline.* These models help decision makers understand what areas are most vulnerable to flooding.

Sea level rise models can be projected out at varying time frames to help communities understand where long term retreat or heavy flood protection may be required.

*For town and region-wide resources, refer to Connecticut Coastal Resilience Tool: http://maps.coastalresilience.org/connecticut/

Despite the somewhat sheltered coastal geography of the Lower Niantic, the region is not immune to the implications of rising sea levels and more intense storms. Many of the homes and infrastructure on the river are built directly adjacent to the water with few natural buffers to protect from destructive waves. Furthermore, runoff-cased erosion undermines the structural integrity of storm protection systems such as seawalls on the landward side.



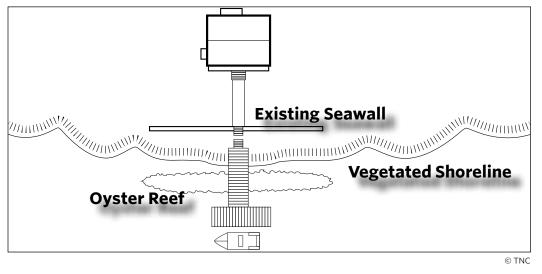
Mapping the land and water uses and the general circulation of people and vehicles around a region helps to ensure that projects are beneficial and, where appropriate, do not interfere with existing uses.

Many communities along the Connecticut coast have mapped threatened or economically important ecological resources such as shellfish beds, salt marsh, and eelgrass populations. Natural infrastructure projects should pay attention to these locations as both areas to avoid disturbing and indicators of the aquatic health.

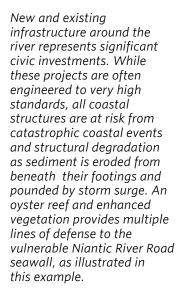
Lower Niantic

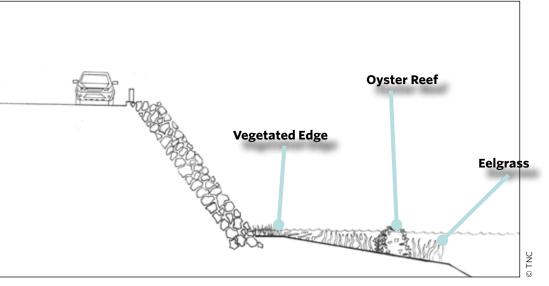
Design

Design alternatives and renderings can help landowners and other stakeholders more fully comprehend their options and the implications of those options. This process can also help to surface previously unforeseen challenges such as how to integrate shoreline restoration with existing coastal infrastructure including seawalls and boat docks.



Many property owners in the Lower Niantic highly value access to their personal boats. While in some instances boat mooring structures can be a challenge to restoration, existing shorefront configurations can often be retrofitted with natural infrastructure elements in ways that protect a homeowner's property while simultaneously contributing to the health of the whole ecosystem. To the *left is just one example of* how a homeowner can build resilience for themselves and for their neighbors.







As sea level rises in the coming decades, salt marsh habitat will continue to decrease unless allowances are made for salt water to advance into upland areas which includes developed areas. Mago Point represents a significant opportunity to expand the amount of salt marsh habitat in the river by strategically channeling through new and existing development, as conceptually depicted here.

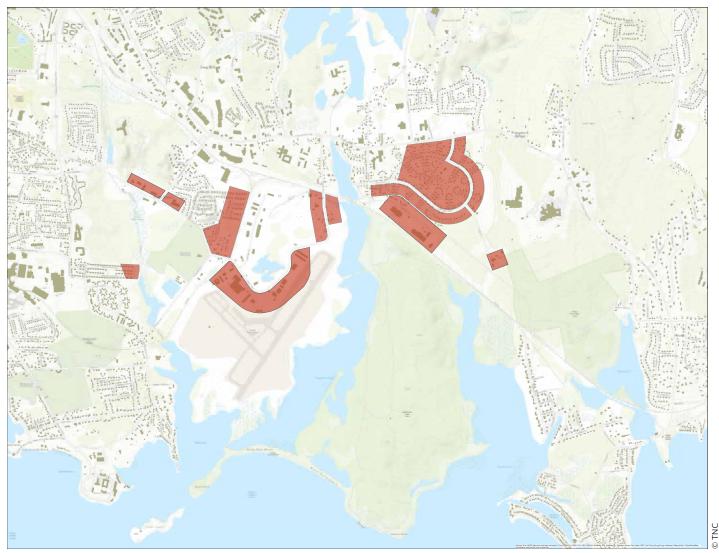
Poquonnock Bridge

Analysis

As one of the largest areas of flood vulnerability on the Connecticut coast the Poquonnock Estuary and floodplains, contain an airport, two water treatment facilities, a major regional road, a rail line, municipal buildings, and multiple residential neighborhoods.



Bubble diagrams such as the one below help synthesize the particular conditions and vulnerabilities of the region. With the information displayed in this way, options may become more apparent to planners and these choices may be able to be better communicated to the general public.



Design

complex challenges and nuanced opportunities resulting in greater confidence in their final strategies to increase common ground. By being flexible in sketching out alternative approaches early on, decision makers can surface A high-level planning process can help to determine the role that the lands and waters in the Poquonnock Estuary can play in local and regional community resilience building and help multiple stakeholders find community resilience.



Conceptual design alternatives can help to move thinking about adaptation strategies forward while encouraging stakeholders to become more clear about their priorities.

Conclusion

Southeastern Connecticut is a collection of communities each with its own individual identity and history. However, the fate of each community is closely tied to the social, environmental, and economic health of the whole region. Therefore, the challenges facing Southeastern Connecticut are best tackled collectively with multiple towns, organizations, associations, foundations, and businesses working together across the region. Our sincere hope is that this regional resilience building process and guidebook helps communities secure greater clarity on the common challenges they face while providing a positive vision for continued dialogue, resource sharing, and collaborative leadership needed to create a truly resilient region.



Charting the course for regional resilience

In the fall of 2016, a partnership between The Nature Conservancy, The Southeastern Connecticut Council of Governments, and The Southeastern Connecticut Enterprise Region convened a group of over fifty stakeholders from Southeastern Connecticut to discuss the impacts of rising sea levels, extreme weather, and changing social and economic conditions on the resilience of the region and its communities. This guidebook provides an overview of the region's unique environmental and climatic history and documents the specific challenges and solutions identified by workshop participants to inform future planning efforts. In this document, the reader will also find examples of current adaptation efforts in the region as well as inspiration for possible on-the-ground projects and resilience planning.





