

ANTIOCH UNIVERSITY NEW ENGLAND Center for Climate Preparedness and Community Resilience



Strengthen communities to prepare, respond and recover in the face of climate impacts and other disruptions through collaborative, innovative solutions.

communityresilience-center.org

Dr. Christa Daniels Senior Associate, CCPCR

Climate Change Resilience

... a series of online courses focused on the fundamentals of climate change resilience.

- Engage in each course for 4 weeks
- Enroll for graduate credit or audit the course
- Increase your skill set in climate resilience for better outcomes
- Discover solutions to local issues you face on the job or in your community.
- Register for one course or the whole series.



http://www.communityresilience-center.org/climate-change-resilience-series/

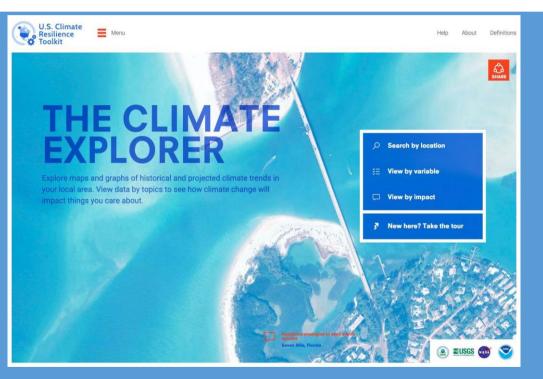


Climate Change Resilience Certificate

Climate Impacts: Vulnerability and Adaptation Planning

Online (1-credit) Course Oct 4, 2020 through Oct 31, 2020

This course focuses on identifying what and who are most vulnerable to such impacts, how to facilitate a stakeholder process to prioritize these identified vulnerabilities, along with an overview of planning for resiliency and adaptation at different scales. After this module, you should feel comfortable knowing what steps need to be taken to integrate resiliency recommendations and projects into community planning and policy processes.



For more information or to register for this course:

https://www.antioch.edu/new-england/resources/centers-institutes/center-climate-preparedness-community-resilience/climate-change-resilience-series/

Climate Change Resilience

... Sneak Preview







Communication, Facilitation and Stakeholder Capacity Building Climate Justice and Equitable Adaptation Public Health

http://www.communityresilience-center.org/climate-change-resilience-series/





Ned Gardiner, PhD Engagement Manager

Meet the challenges of a changing climate by finding information and tools to help you understand and address your climate risks.

toolkit.climate.gov

Logistics



If you have a question, please write it in the Q&A section (not Chat) and select to All Panelists, so we can see the questions.



If you are having technical difficulty, please use Chat and send to Host, so we can address the issue with you directly.



The presentation will be recorded and posted to the Antioch website within a week www.communityresilience-center.org

Published: 07 January 2019

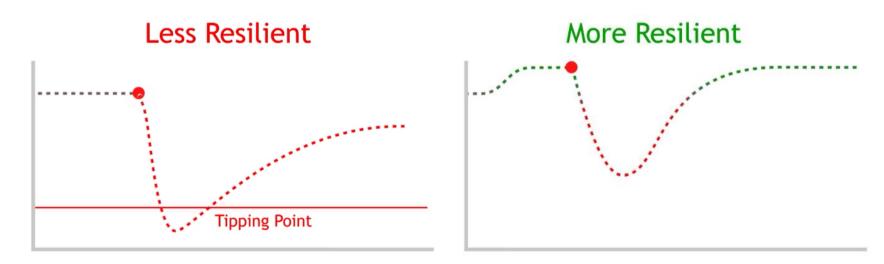
The turbulent world of resilience: interpretations and themes for transdisciplinary dialogue

Susanne Moser ☑, Sara Meerow, James Arnott & Emily Jack-Scott

Climatic Change 153, 21–40(2019) | Cite this article



Social Vulnerability and Climate Resilience



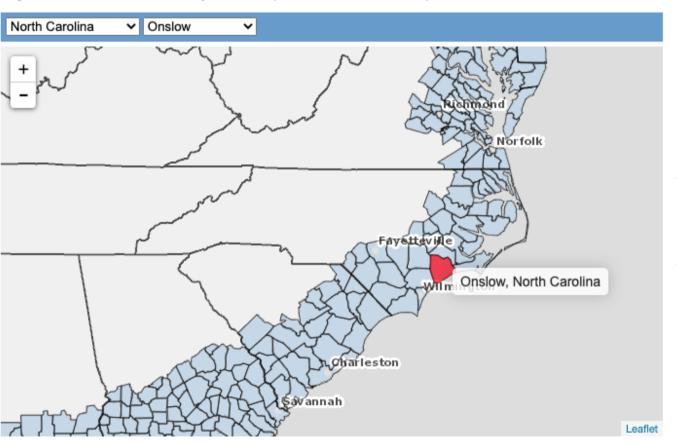


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Welcome to the Coastal County Snapshots

The Coastal County Snapshots turn complex data into easy-to-understand stories, complete with charts and graphs.

To get started, select a state and county from the dropdown menus or from the map below.













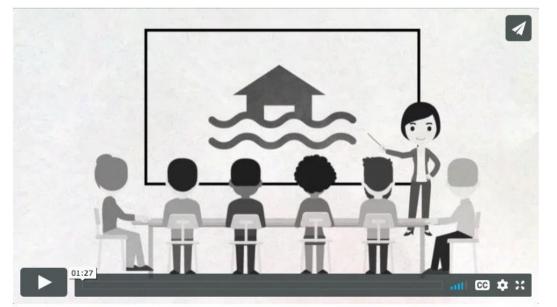
Explore Hazards

- Gather a team of people who want to protect local assets.
- Check past weather events and future climate trends.
- · List the things you value that could be damaged.
- · Determine which of your assets are exposed to harm.

After this exploration, you'll discover if weather and climate represent a hazard to things you value.

Steps to Resilience Explore Hazards Assess Vulnerability & Risks Investigate Options Prioritize & Plan Take Action

Steps to Resilience > Explore Hazards >



Step 1. Explore Hazards

Establish a team

Case Studies

Motivating the Agricultural Community to Build Climate Resilience

Shopping Mall Exhibit Raises Awareness of Sea Level Rise >

Yukon Delta Villages Document Baseline Environmental Data >

View all Step 1 Case Studies >

Tools

Climate at a Glance >

Climate Explorer

FEMA Flood Map Service Center >

Guidelines for Considering Traditional Knowledges in Climate Change Initiatives >

Sea Level Rise Viewer>

View all Step 1 Tools >







Explore graphs and maps of historical and projected climate variables for any county in the contiguous United States.

New!

Climate projection charts are now available for boroughs in Alaska.

To get started, enter a county, city, or zip code



New York City, NY Los Angeles, CA Chicago, IL

Phoenix, AZ Houston, TX Anchorage, AK

Search



> Social Vulnerability Index >



TWEET



PRINT

Social vulnerability is a term describing how resilient a community is when confronted by external stresses on human health. These stresses can range from natural or human-caused disasters to disease outbreaks. By reducing social vulnerability, we can decrease both human suffering and economic losses.

The Social Vulnerability Index (SVI) employs U.S. Census Bureau variables to help users identify communities that may need support in preparing for hazards or recovering from disasters. The tool is particularly useful for emergency response planners and public health officials, as it can identify and map the communities that are most likely to need support before, during, and after a hazardous event.

The SVI uses U.S. Census Bureau data to determine the social vulnerability of every census tract (census tracts are subdivisions of counties for which the Census Bureau collects statistical data). The SVI ranks each tract on 14 social factors, including poverty, lack of vehicle access, and crowded housing, and groups them

Steps to Resilience

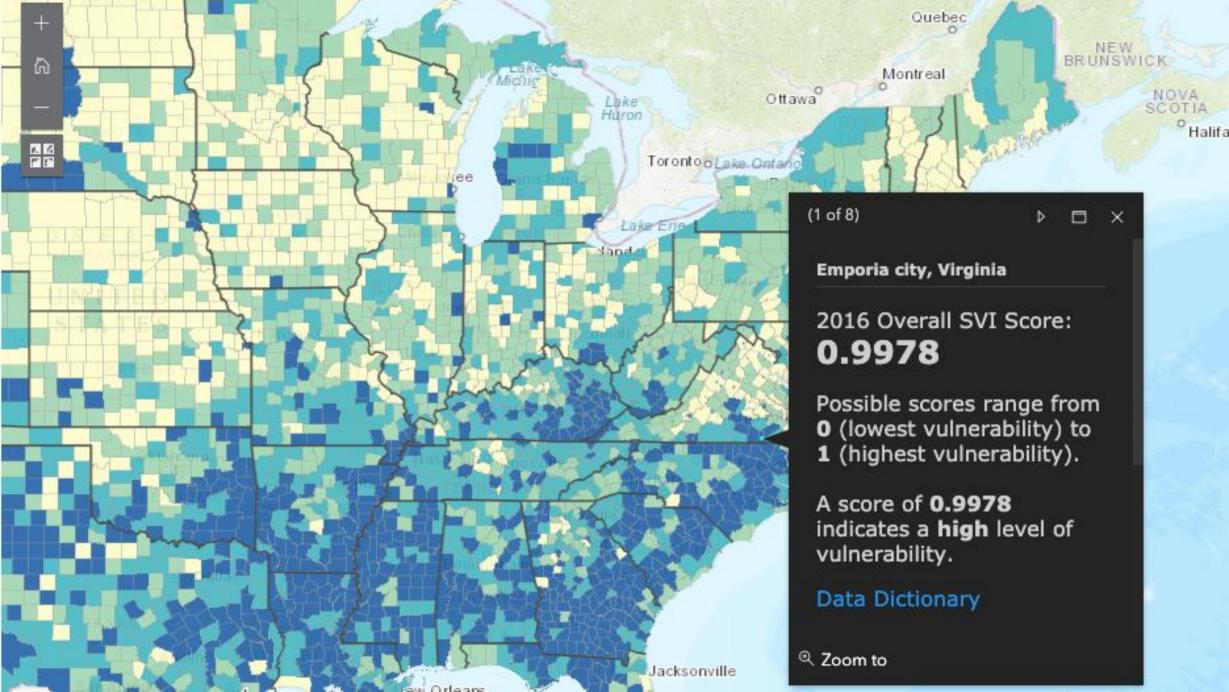
This content supports the highlighted step.



- Assess Vulnerability & Risks
- **Investigate Options**
- Prioritize & Plan
- **Take Action**

Tool URL

http://svi.cdc.gov/>



Tools > Coastal Flood Exposure Mapper >







This tool can serve leaders who want to support a community-based approach to assessing coastal hazard risks and vulnerabilities. The site provides maps that show people, places, and natural resources exposed to coastal flooding.

Based on the Roadmap for Adapting to Coastal Risk training, the tool builds upon knowledge and experiences gained by personnel in NOAA's Office for Coastal Management as they facilitated community-based risk and vulnerability assessments. Users can select their geography and create a collection of maps that can be downloaded or shared online. The site also includes tips for using these maps in a community workshop, case studies illustrating the use of the tool, and resources for continuing risk and vulnerability conversations. Maps are available for coastal areas along the entire U.S. East Coast and Gulf of Mexico.

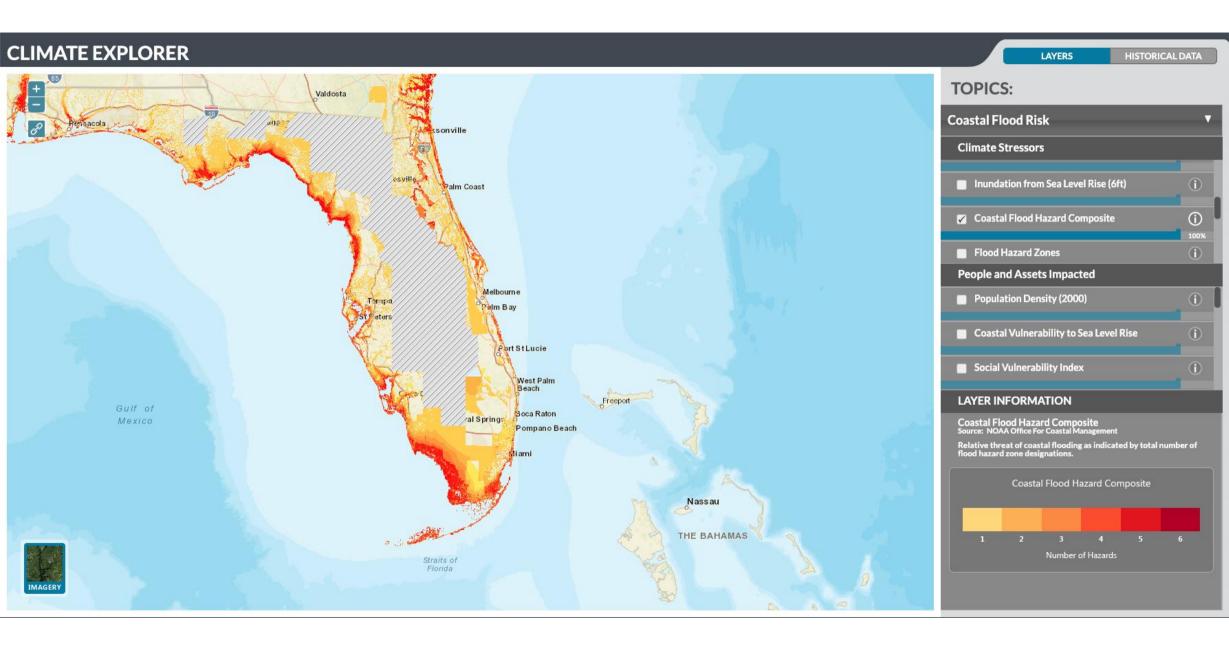
Steps to Resilience

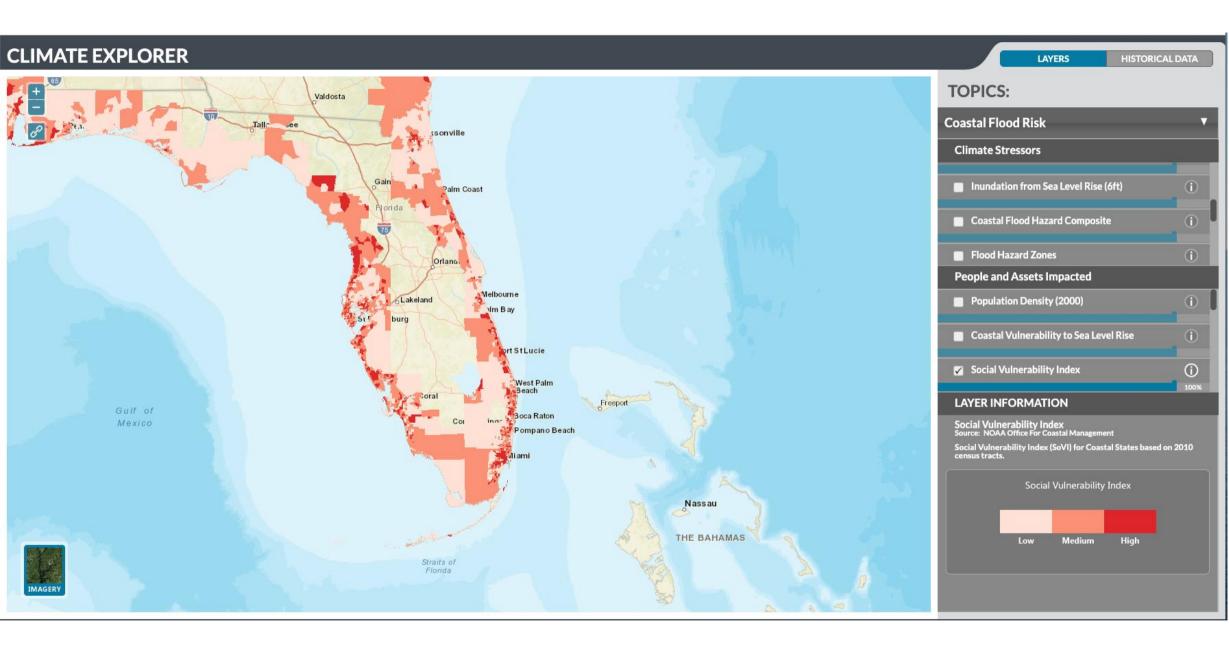
This content supports the highlighted step.

- **Explore Hazards**
- Assess Vulnerability & Risks
- **Investigate Options**
- Prioritize & Plan
- **Take Action**

Tool Webpage

Digital Coast: Coastal Flood Exposure Mapper >







Populations at Risk

Customize and download reports about U.S. populations more likely to experience adverse social, health, or economic outcomes due to race, age, gender, poverty status, or other factors. Reports can be generated for census tracts, counties, or states.





Neighborhoods at Risk

See where flooding, urban heat, and hurricanes impact the most vulnerable people. Map and explore information at the neighborhood level for every community in the U.S. Find climate projections for temperature and precipitation.







A Seat at the Table:

Integrating needs of underrepresented and socially vulnerable populations into coastal hazards planning in New Jersey



Jeanne Herb Bloustein School



Lisa Auermuller
JC NERR





Public Health

The Milken Institute

Trauma

Resilience

Equity

> What makes a community resilient?

lt's a

Fan!

WELLNESS ACCESS

EDUCATION

SELF-SUFFICIENCY PARTNERSHIP

ENGAGEMENT

QUALITY

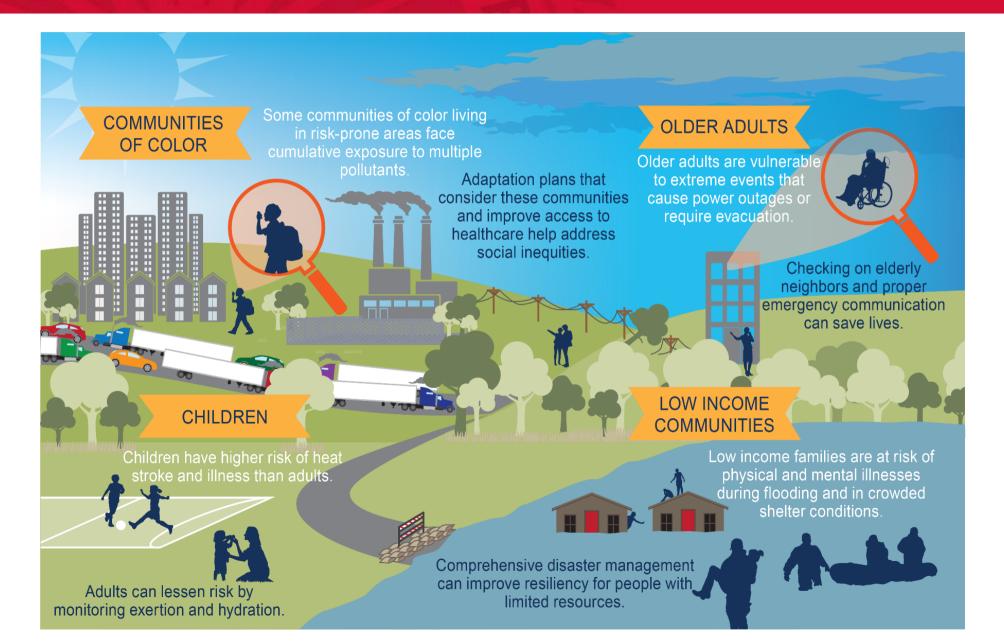
EFFICIENCY

"Our idea...is to bring member ons together and help hem as they respond Ip New Jerseyans repare for disasters." Keith Adams, NJVOAD a Wall! It's **Disaster response** Community Development bpe! COMMUNITY

It's

LA - Communities in Resilience

NJVOAD





Project Tasks





Project Working Group

Literature review

- Public health and social work domains
- Climate change and coastal hazards domains

Data Development

- Service Organization Database
- Identification of socially vulnerable populations

Stakeholder Engagement

- Key informant interviews
- Focus Groups

Coastal community residence planning guidance, training

- Web-based training
- Handouts and printable guidance

Coastal Policy options

- Incentives for local government and community-based organizations;
- Opportunities to address social vulnerability in coastal management;
- Coordination of coastal management with other programs designed to address needs of socially vulnerable populations;
- Recognition of social, economic & physical challenges exacerbated by changing coastal climate conditions in state resilience planning.

Final Report:

https://njclimateresourcecenter.rutgers.edu/resources/a-seat-at-the-table/

Recorded Rutgers Summer Climate Academy Presentation: "New Tools to Visualize and Map Climate Futures in New Jersey"

https://njclimateresourcecenter.rutgers.edu/past_events/summerclimate-academy-new-tools-to-visualize-map-climate-futures-in-newjersey/

Web-based Training site:

https://www.nj.gov/dep/climatechange/trainings/asat-about.html

The Challenge - Traditional Definition of Resilience...



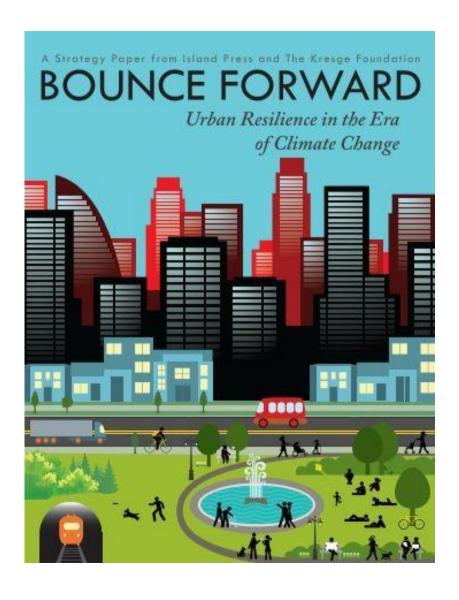
Coastal resilience means building the ability of a community to "bounce back" after hazardous events such as hurricanes, coastal storms, and flooding rather than simply reacting to impacts.



WHAT WE HEARD ABOUT RESILIENCE...



"If you want people to bounce back from a storm, make sure they have the resources they need to live a happy and healthy life **now** and then they can take care of themselves if there's a storm event!"



The Opportunity....

- In a world of rising inequality, risks and opportunities are not equally shared.
- Current understanding of resilience remains siloed.
- Resilience is an idea with potentially transformative power.













What We Learned

Underlying societal inequities are the biggest hurdle to achieving resilience.

Populations most affected by climate change are underrepresented in decision-making.



Socially vulnerable populations & service providers perceive that resources are inequitably distributed.

Government has a role to play but must work with trusted community sources.

Inclusion of socially vulnerable populations is not enough: resilience planning needs to "bake in" assessment of actions.

Including socially vulnerable people in resilience planning creates more resilient communities overall.



Implementation Strategies



Redefine Resilience

✓ Recognize underlying causes of vulnerability





Whole community resilience planning increases overall community resilience

 ✓ Addressing underlying social, economic and physical challenges



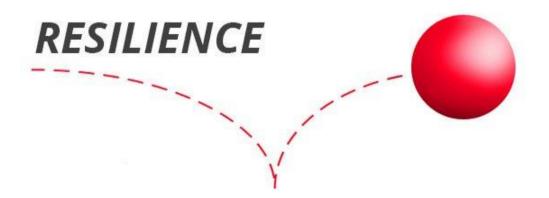
Integrate equity, diversity & inclusion into climate resilience planning

- Add seats to the table for populations that are traditionally underrepresented
- ✓ Adding seats to the table is not enough: Assess impact of resilience actions on socially vulnerable populations.

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Redefining Resilience...

"Bouncing **forward**" to improved conditions where all people live in communities that are healthier, greener, cleaner, more equitable and more prosperous......and more resilient.





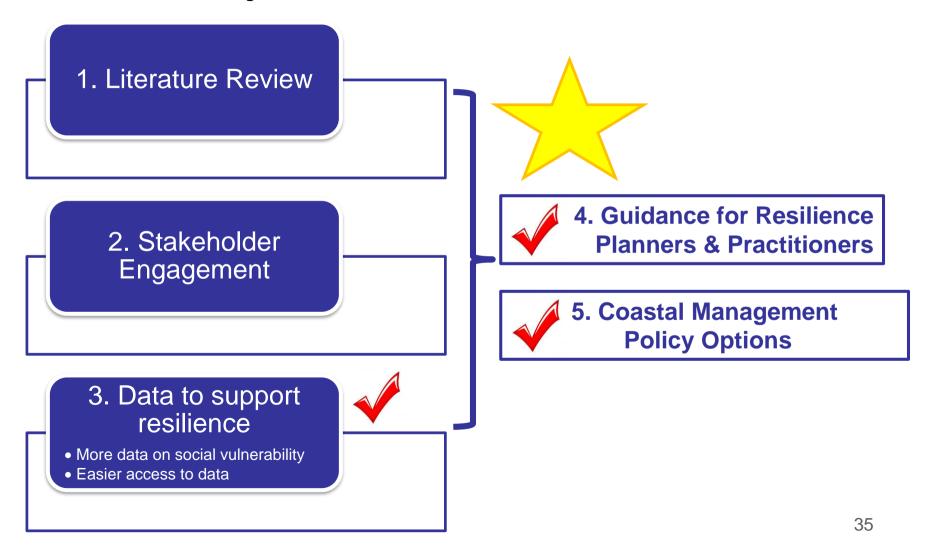
Whole community climate resilience planning:

An opportunity to address social, economic and physical challenges faced by socially vulnerable populations and, in doing so, increase the resilience of a whole community

Integrate equity, diversity & inclusion into resilience planning



Overall Project Outcomes



Project Outcomes - Data



https://njclimateresourcece nter.rutgers.edu/nj-adapt/



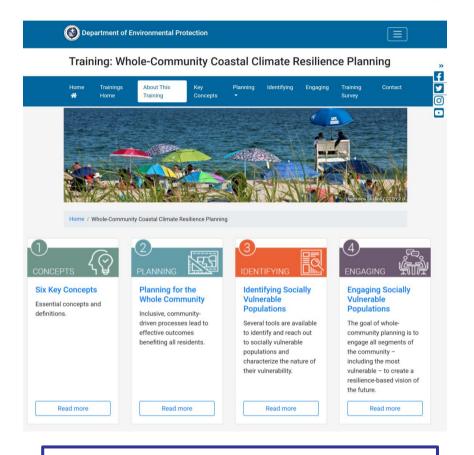
https://www.njfloodmapper.org/



Project Outcomes - Guidance and Training



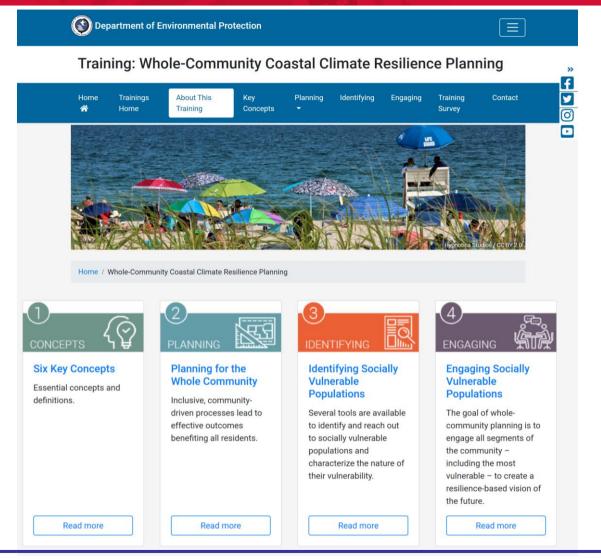




Getting to Resilience

http://www.prepareyourcommunitynj.org/

Web-based Training
https://www.nj.gov/dep/climatechange/trainings/asat-about.html



Web-based Training

https://www.nj.gov/dep/climatechange/trainings/asat-about.html

Outline of training

4 Sections

- 1. Six Key Concepts
- 2. Planning for the Whole Community
- 3. Identifying Socially Vulnerable Populations
- 4. Engaging Socially Vulnerable Populations

Training Evaluation*

Assessing Your Plan's Impact on Socially Vulnerable Populations

The Resilient NJ Planning to Action Framework instructs resilience planners to develop climate adaptation scenarios and the actions needed to achieve those scenarios. Asking the following questions will help planning teams assess the impacts of resilience scenarios and actions on socially vulnerable populations:

- Who will be advantaged/disadvantaged most by the resileince scenarios and actions?
- What current challenges and inequities exist that will be exacerbated by the scenarios and actions under consideration?
- How do priorities of socially vulnerable populations different from other residents with regard to the proposed scenarios and actions?
- Should the scenarios and actions under consideration mitigate historic disadvantages to socially vulnerable populations to ensure their ability to "bounce forward"?
- Is there the possibility that the scenario or action might be less effective for socially vulnerable populations?

Elements to enhance climate resilience planning



Development of a community Social Vulnerability Profile



Inventory of pre-existing social, economic and physical challenges exacerbated by changing coastal climate conditions



Written plan for engaging socially vulnerable populations



Written checklist to assess how the resilience vision, scenarios and actions:

- Affect socially vulnerable populations;
- Affect (+ or -) pre-existing social, economy & physical challenges.



For each hazard, identify increased risks faced by socially vulnerable populations as a feature in the Resilience Vulnerability Assessment.



Project Outcomes – Policy Options 🎺



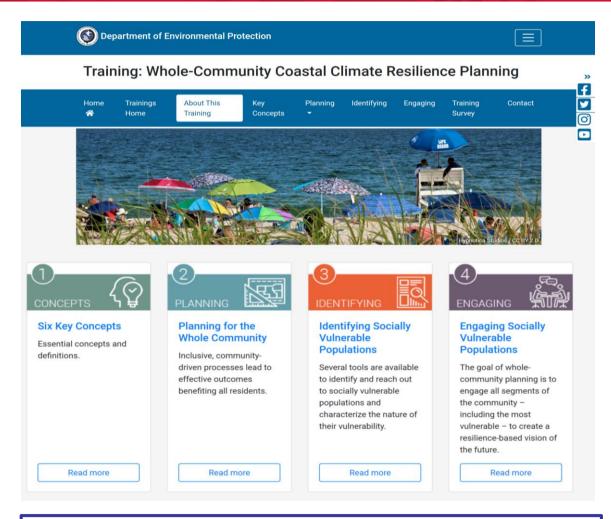


Incentives for local government and community-based organization

Opportunities to address social vulnerability in coastal management

Coordination of coastal management with other programs designed to address needs of socially vulnerable populations

Recognizing social, economic & physical challenges exacerbated by changing coastal climate conditions in state resilience planning





Contact Information:

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Web-based Training

https://www.nj.gov/dep/climatechange/trainings/asat-about.html



Climate Migration:

Research, Analyze, Implement What can We Learn from Other Places?

Thursday, October 22, 2020 12:00-1:15 PM ET

www.communityresilience-center.org