

1

## Notes on Virtual Participation

- This meeting is being hosted on Zoom
- Use chat box for technical questions
- Keep an eye on the chat box for links and other helpful information from meeting moderators

This meeting is being recorded

From Bin Wang to All panelists and other attendees:  
Thanks Linda for noticing the background. Boston Harbor in the Fall.

From Shannon Hulst to All panelists and other attendees:  
Shannon Hulst, Barnstable County's Cape Cod Cooperative Extension & Woods Hole Sea Grant, Floodplain Specialist

From David Azinheira to All panelists and other attendees:  
Hello all -- David Azinheira with Tighe & Bond in Westfield, calling from my home office. Favorite body of water is probably the Burrage ponds in Halifax

From MassFM to All panelists and other attendees:  
Please feel encouraged to post questions through the Zoom Q&A function, or to post a message here in the chat, throughout the presentations.

To: All panelists  
Your text can only be seen by panelists

Audio Settings ^ Chat Raise Hand Q&A Leave Meeting

2

## Welcome & Introductions



3

## Thank You to Tolland's MVP/HMP Committee!

- Jeff LaCasse, Tolland Emergency Management Director
- Pat Storey, Council on Aging
- Alan Binder, Conservation Commission
- Charlie Higham, Pond Committee
- Ed Deming (ret.) / Kate Donovan, Highway Superintendent



4

## Workshop Agenda



Presentation - introduction/overview of MVP/HMP planning grant, climate change and natural hazards



Working together – develop inventory of societal strengths & vulnerabilities



Presentation – overview of what mitigation actions are, what types are competitive for Action Grants



Working together – brainstorm mitigation actions to address societal strengths & vulnerabilities

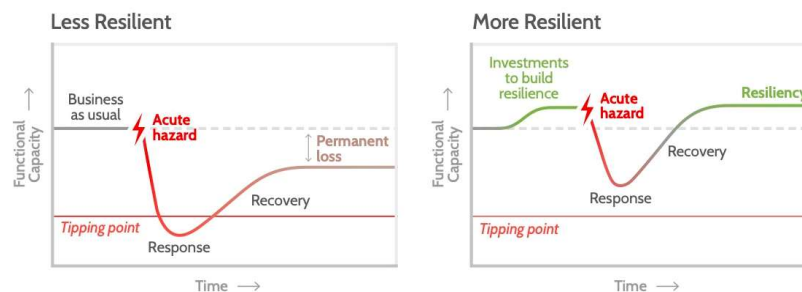


Presentation – next steps, follow-up actions and survey to prioritize mitigation actions

5

## Why Are We Here?

- Help the Town of Tolland improve preparedness for and resilience to natural hazard events

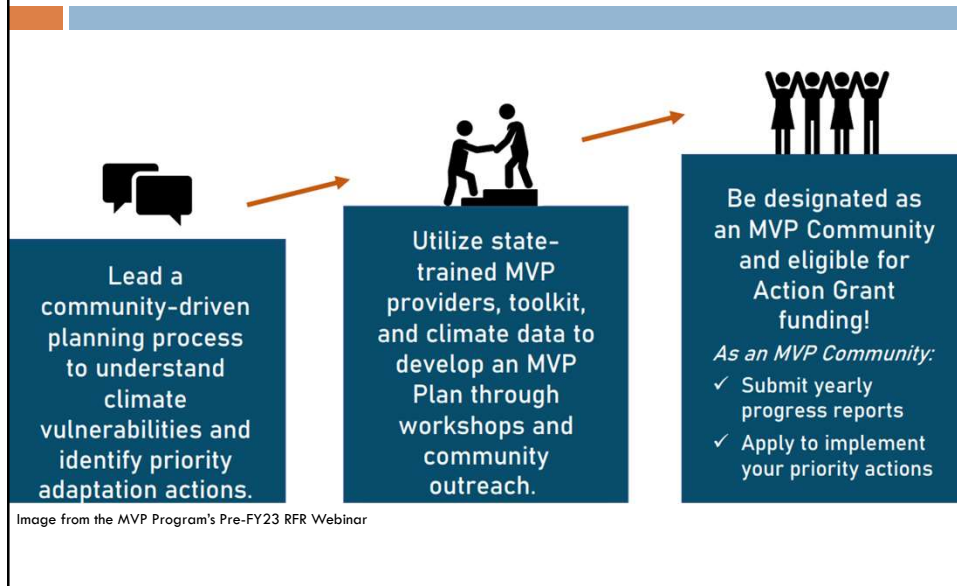


U.S. Climate Resilience Toolkit: <https://toolkit.climate.gov/image/3144>

*Resilient communities don't just recover—they continuously build capacity to reduce the impacts of future climate events*

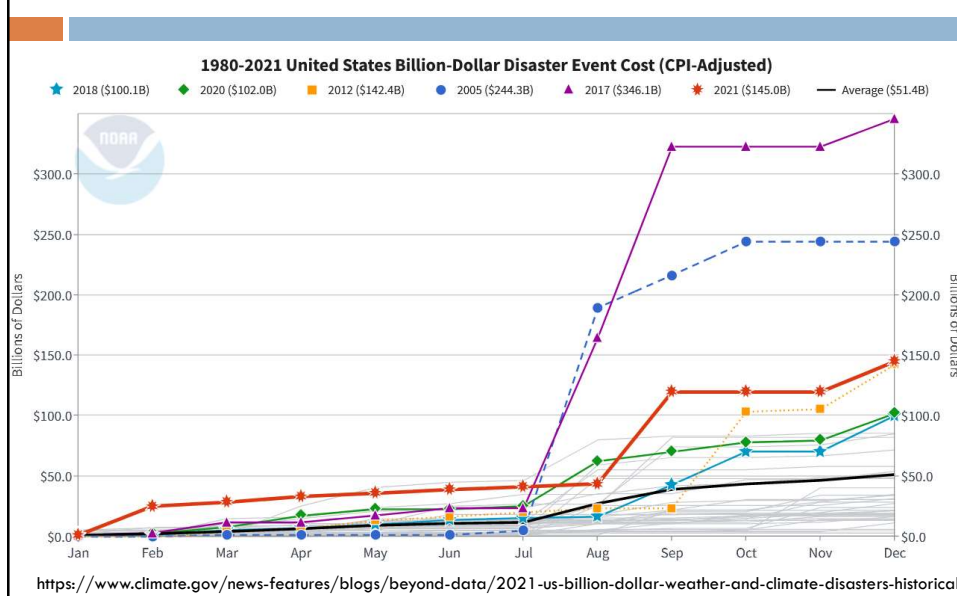
6

## MVP Planning Grant



7

## The Future of Natural Hazards



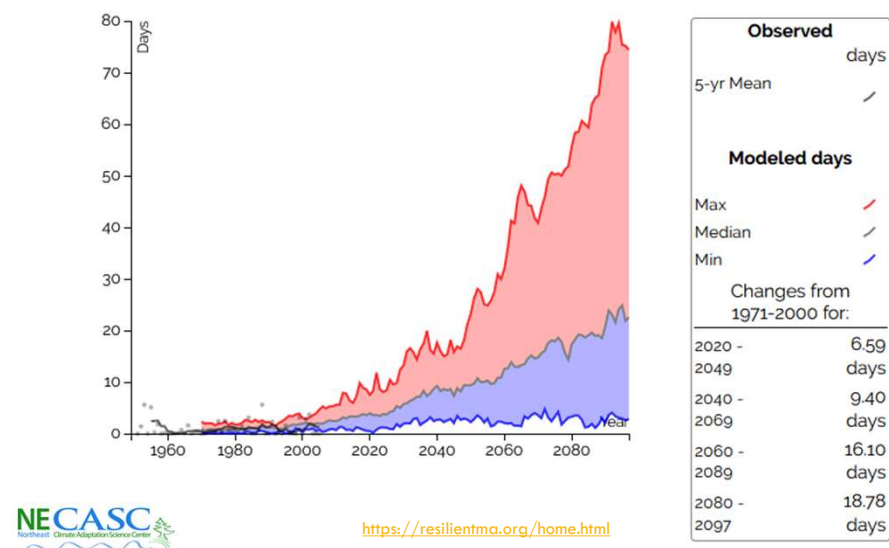
8

## Climate Change - Statewide

Massachusetts Climate	Observed Changes	Projected Changes by 2090
Temperature	↑ 2.9° F since 1895	↑ 7.2° F annual average
Growing Season	↑ 15 days since 1950	
90° Days		↑ 34 days annually
Sea Level Rise	↑ 11 in since 1922	↑ 4 to 10.2 ft above MSL
Heavy Precipitation	↑ 55% since 1958	↑ 47% annually

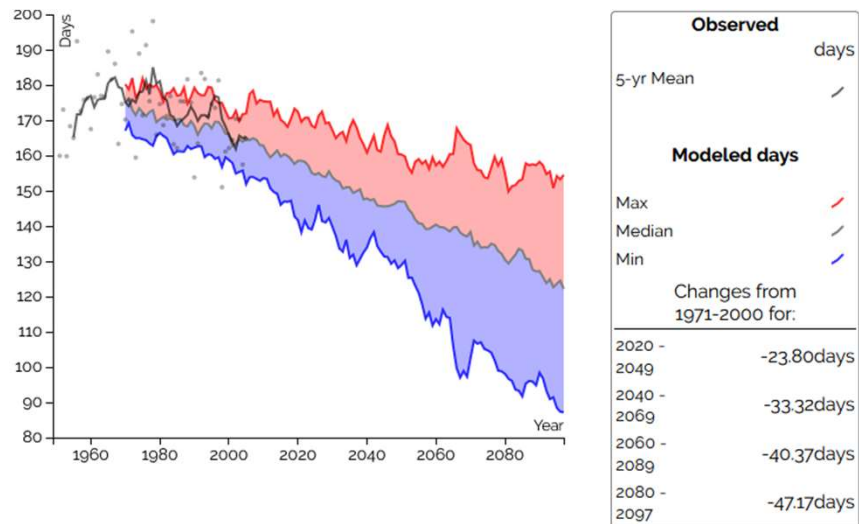
9

## Climate Change – Farmington River Basin, Annual Days Over 90° F



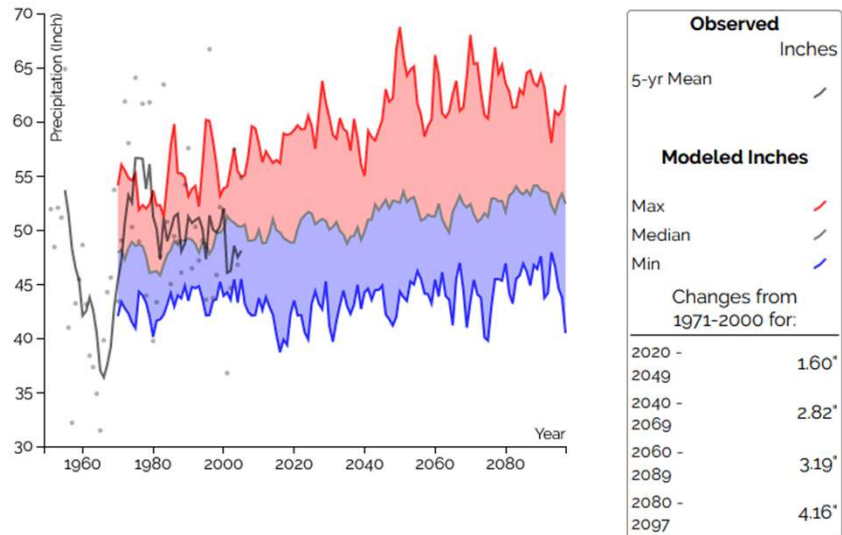
10

## Climate Change – Farmington River Basin, Annual Days Below 32° F



11

## Climate Change – Farmington River Basin, Annual Rainfall



12

## Top Natural Hazards in Tolland

Severe Winter  
Storms /  
Nor'easters

Severe  
Thunderstorms /  
Wind /  
Tornadoes

Flooding

Wildfires /  
Brushfires

13

## Changing Risk of Top Natural Hazards

Severe Winter Storms  
/ Nor'easters

- More winter precipitation is occurring as rainfall and freezing

Severe Thunderstorms  
/ Wind / Tornadoes

- Rainfall patterns are changing to less frequent but more intense rainfall events

Flooding

- Potentially undersized stormwater and stream crossings relative to future large storm events

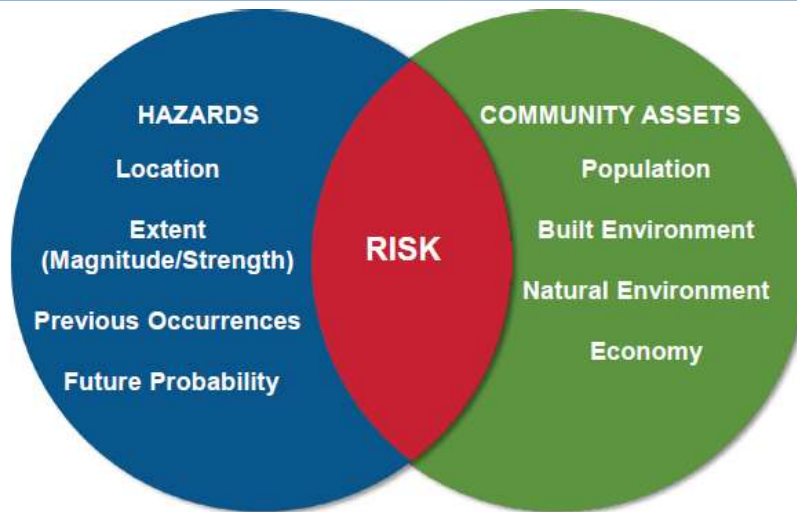
Wildfires / Brushfires

- Longer periods between rainfall events and higher temperatures increase risk

14

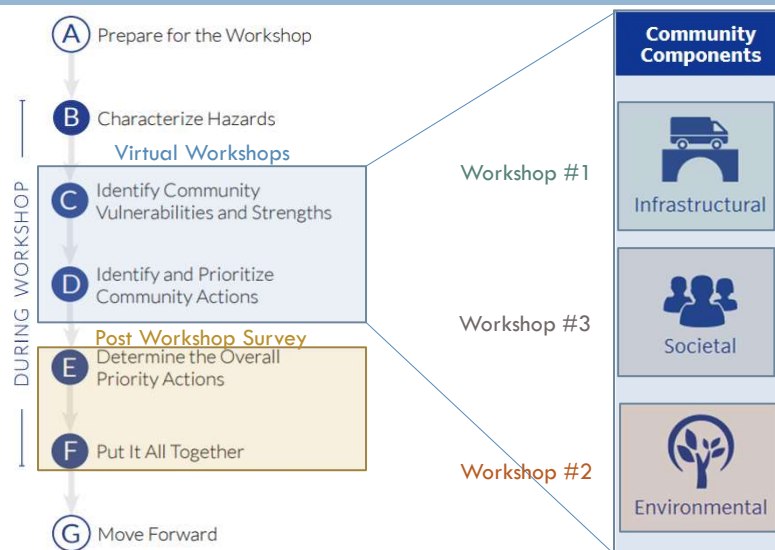


## Community Risk from Hazards



15

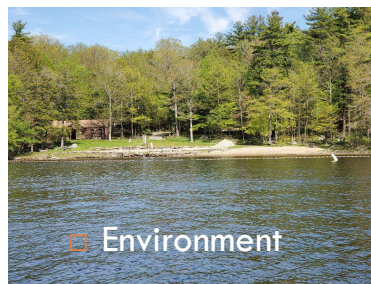
## So, What Now?



16



## What Are Community Components?



17

## Societal Strengths & Vulnerabilities

What are the characteristics of the people living in high-risk areas?

How can hazards intensify these characteristics?

What are the strengths/vulnerabilities of people in your community?

What are areas for improvement in the community?

What is the potential for climate migrants in the future?

Do you anticipate changes from seasonal to permanent residents?

18

## Group Exercise

Use risk matrix to identify societal asset strengths and weaknesses in the Town of Tolland

19

## Mitigation Actions - Considerations

### MVP CORE PRINCIPLES



20

## MVP Action Grant Project Types



Planning, Assessments, Capacity Building, and Regulatory Updates



Design and Permitting



Construction and On-the-Ground Implementation

Note: Demonstrate necessary permits & permissions have been secured

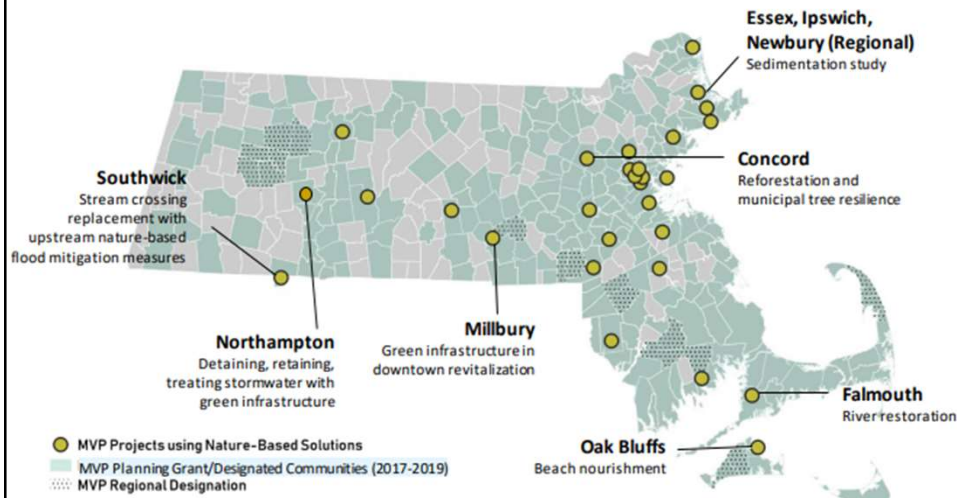
21

## Mitigation Actions – Nature-Based Solutions



22

## Mitigation Actions – Nature-Based Solutions



23

## Projects That Are Not MVP Competitive

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- Diesel generators
  - Tree removal
  - FEMA HMPs
  - Academic studies that are not directly linked to implementation
  - Feasibility or design of solar or solar + battery systems (installation ok)
  - Emergency preparedness projects that don't incorporate climate projections/planning
  - Projects that repair to previous conditions without consideration of climate projections

24

## Mitigation Actions - Societal Project Examples

Strengthen volunteer opportunities for residents

Increase hazard awareness in high-risk areas through education and outreach

Foster a neighbor-helping-neighbor program across the community

Assess and identify vulnerabilities to determine resident needs during emergencies

Conduct routine evacuation drills and tabletop exercises

Extreme weather flyers and communications about available services

25

## Group Exercise

Use risk matrix to identify mitigation strategies to address societal asset strengths and weaknesses in the Town of Tolland

26



## Next Steps

Post-workshop mitigation  
action prioritization survey

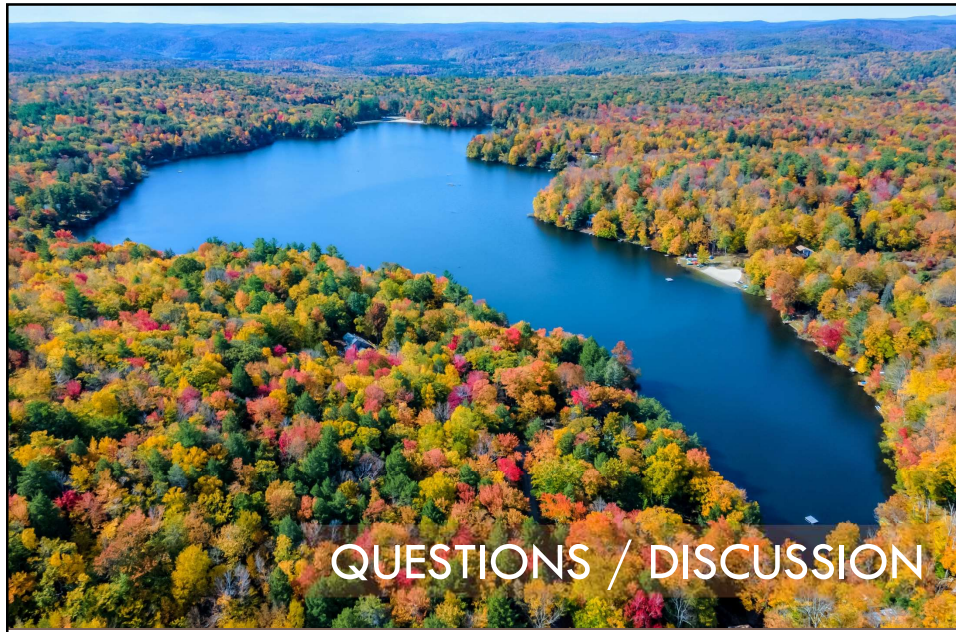
Draft MVP / HMP Plan

Public listening session in  
May / June timeframe

Final MVP /HMP Plan



27



QUESTIONS / DISCUSSION

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28