

Agenda

- Climate Change in Maine
- About the Project
- New Gloucester Impacts
- Next Steps
- Open Q&A
- Breakout Station Activities

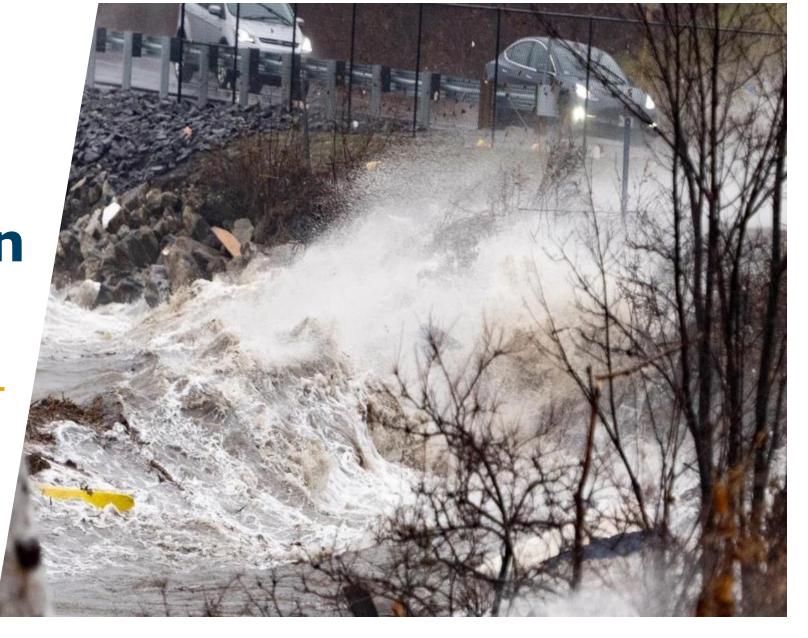
GPCOG

The Greater Portland Council of Governments (GPCOG):

- Is a regional agency sustained by 25 duespaying cities and towns.
- Helps cities and towns do together what they can't do alone.
- Works to make our member communities prosperous and economically sustainable.
- Supports work on transportation, planning, economic development, sustainability, broadband, municipal operations, and more!



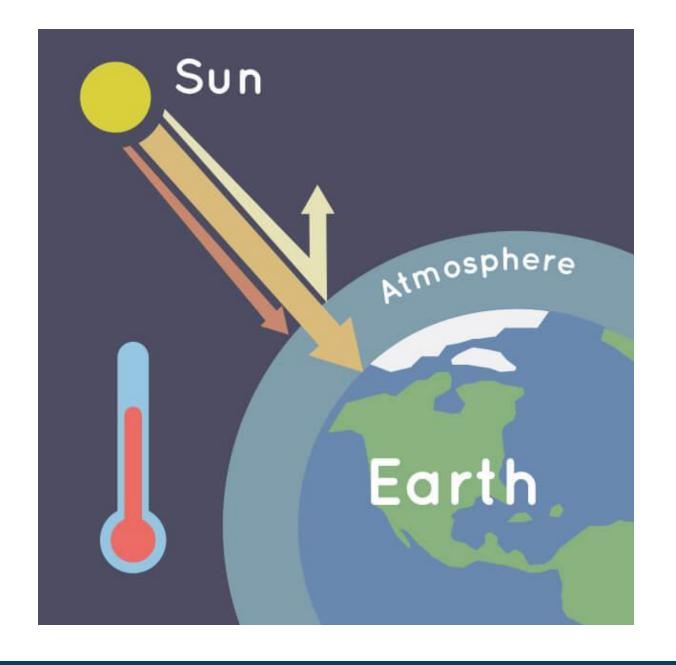
What are we experiencing in Maine?



Why is our Climate Changing?

- The 'Greenhouse Effect' makes Earth livable!
- Burning fossil fuels adds heat-trapping gases like a blanket
- Altering our <u>temperature</u> and <u>precipitation patterns</u>

Big takeaway: Human activity is causing our climate to change.





Warmer Temperatures

What we've seen:

Over 3°F increase

annual temperature

2-week increase

in the growing season



Road ahead:

2°-4°F increase

annual temperature



Up to 2 week shorter

Winter season



More Rain, Less Snow

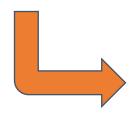
What we've seen:

6-inch increase

annual precipitation

20% decrease

snowfall



Road ahead:

5% increase

total precipitation

50% decrease in snowpack



Experiencing more intense precipitation events

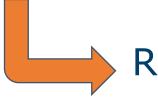


What we've seen:

3 extreme droughts since 2000

30% increase

wildfires



Road ahead:

Increased risk of droughts and wildfires





Marine Conditions

What we've seen:

7.5-inch increase

sea level

2.5°F increase

Casco Bay water temperatures

Road ahead:

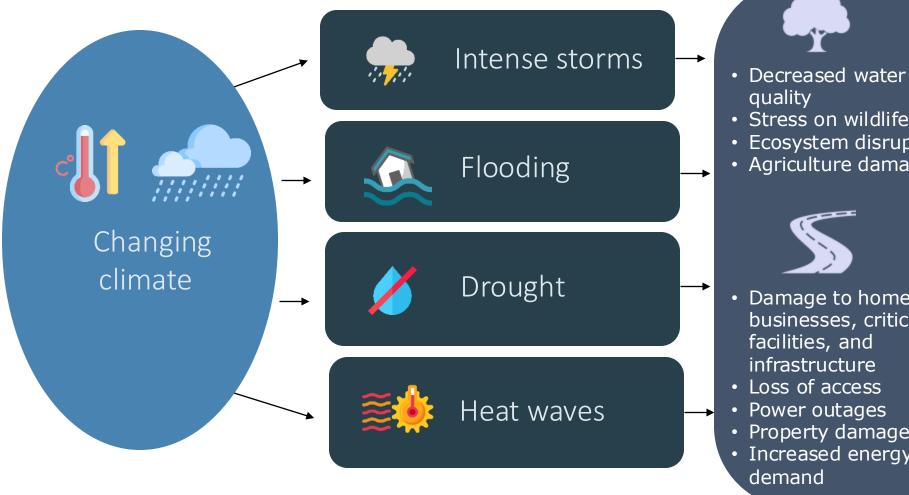
>1 foot of sea level **rise** by 2050

Warmer and more acidic waters



LEAD TO HAZARDS

WHICH CREATE THE **FOLLOWING IMPACTS:**





- Stress on wildlife
- Ecosystem disruption
- Agriculture damage

- Damage to homes, businesses, critical infrastructure

- Property damage
- Increased energy

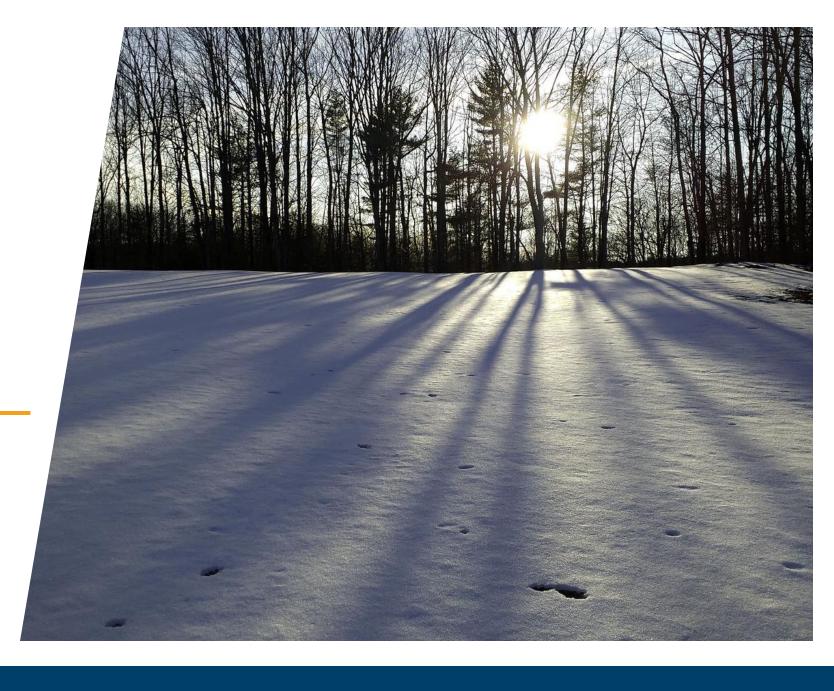


- Heat-related illnesses
- Vector-borne diseases
- Worsening air quality
- Strain on community resources
- Increased social inequity



- Changing tourism seasons
- Changes to tax base
- Increasing costs
- Supply chain Disruptions
- Natural resource job shifts

About the Project



Overview

2023 – enrolled in the **Community Resilience Partnership**

2024 – Received grant to work with GPCOG to complete the New Gloucester Community Risk Assessment and Resilience Engagement Project









Climate Vulnerability Assessment



WHAT •

- Identify climate hazards,
- Analyze risks to community resources
- Recommend priority adaptation strategies

WHY •

- Supports community goals,
- Protects economic development,
- Reduces vulnerabilities
- Creates a healthier, sustainable community

WHO

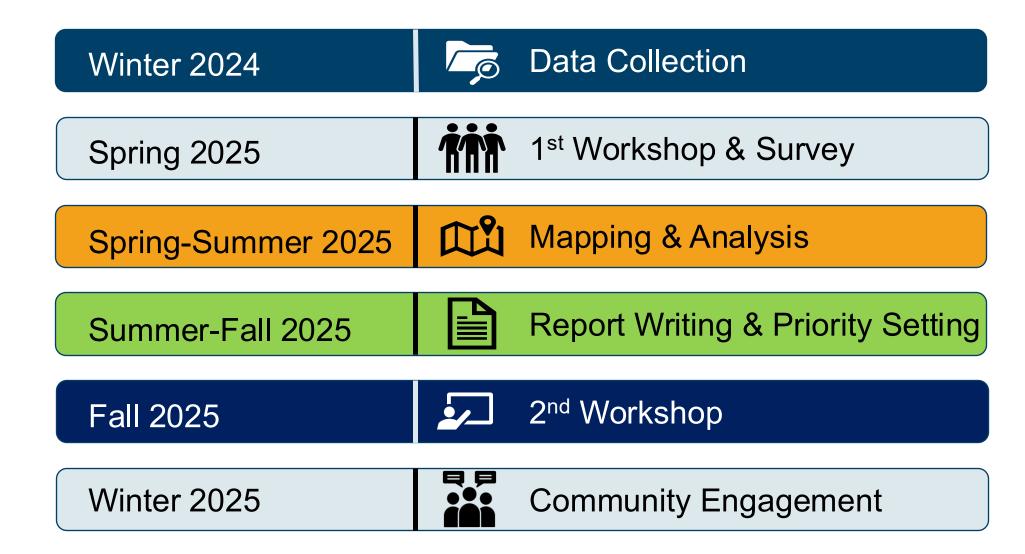
- Environmental Resources Committee
- Town Staff
- Community Partners
- Community input
- GPCOG

Community Engagement

- Project website
- Community Survey
- Two workshops
- Staff and stakeholder interviews
- Educational events
- Outreach materials
- Community Engagement Plan



Project Timeline



What are we analyzing?



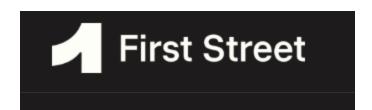
Where do we get our data?

Regional, state, national

- First Street Foundation
- Maine Geological Survey
- Maine DEP
- Beginning with Habitat
- Maine Climate Change Institute
- EPA

Municipal and local

- Available GIS layers from municipality
- Local stakeholders and conservation groups
- Municipal Staff surveys
- Engagement with community members

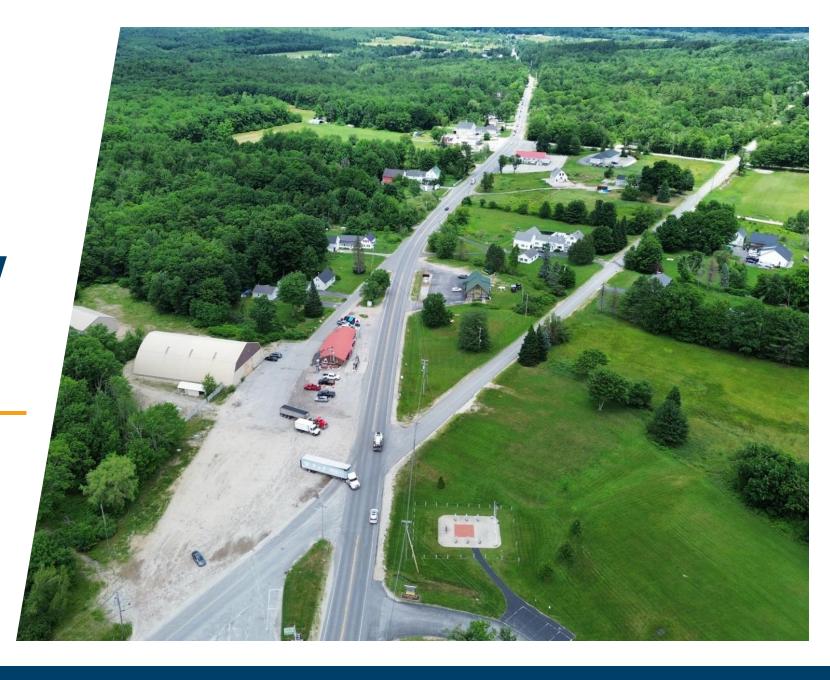








What are we seeing in New Gloucester?



Social Vulnerability

In New Gloucester



15% Population 65+



31% Households with person living with a disability



25% Houses built before 1970



16% Households who are cost-burdened

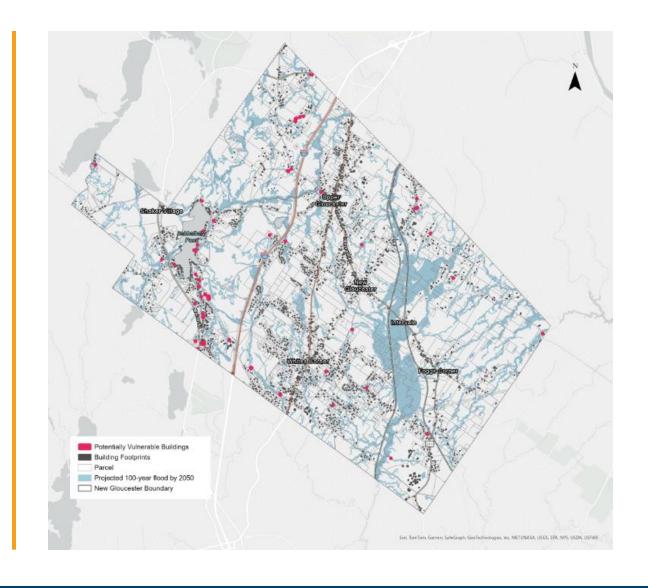
- Certain people and groups are more vulnerable to the impacts of climate change than others
- Reducing social vulnerabilities creates healthier, more resilient communities

Community Assets

At risk:

- Social Services
 (food pantry, medical services, etc.)
- >1,000 acres of agricultural lands
- 65% of trails in flooded areas

- Access to essential services
- Air and water quality
- Property value changes
- Food supply and agriculture

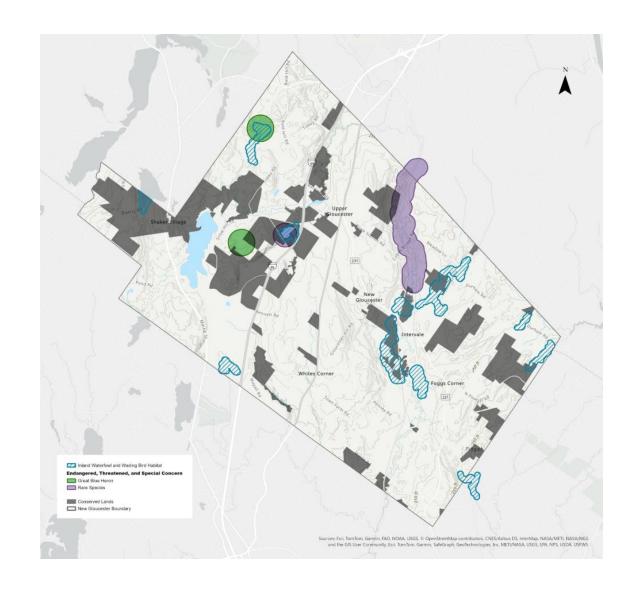


Natural Resources

At risk

- >5,500 acres of conserved lands (18% of town)
- Critical Species
 - Great Blue Heron
 - Wood Turtle
 - Inland Waterfowl

- Strained ecosystem
- Invasive species
- Water quality
- Public Health

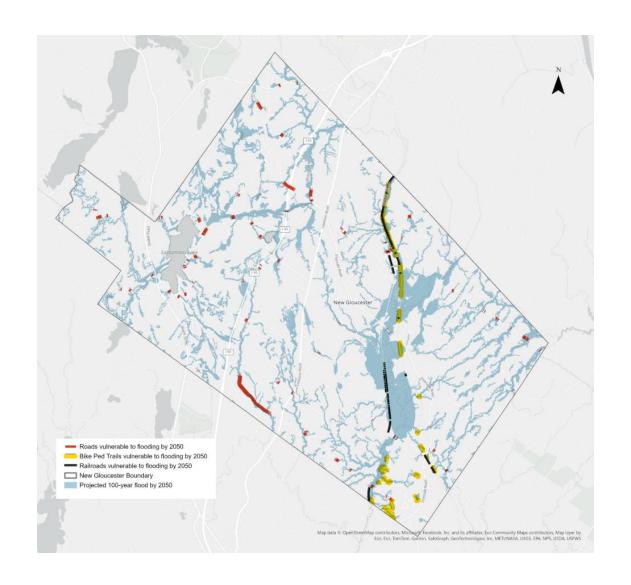


Critical Infrastructure

Potential at risk resources

- Over 7 miles of roads
- 57 buildings
- 19 bridges
- Culverts at risk of overtopping

- Damage to properties
- Restricted access
- Financial strain (for town and property owners)
- Power outages



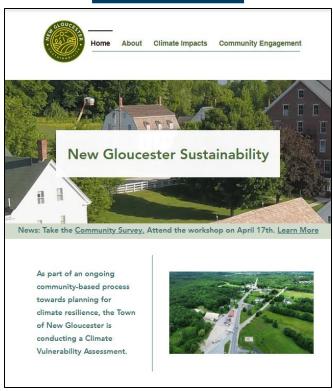
What comes next?

- Bring initial data and input from community to staff and stakeholders
- 2 Refine analysis
- 3 Draft vulnerability assessment report
- 4 Continue community engagement
- 5 Establish priority next steps



Get Involved

Visit the project website



www.NewGloucesterSustainability.com

Take the survey



New Gloucester - Climate
Awareness & Concerns Survey

Tell your friends and neighbors



Questions?



Breakout Stations

Give us your thoughts, ideas, concerns, and feedback!

Leave comments on sticky notes and attach to the posters

Write on the map or posters

Talk to us

