

Maine Climate Council

Community Resilience Planning, Public Health, and Emergency Management Working Group

Co-chairs Judy East, Nirav Shah, Rebecca Boulos, and Anne Fuchs



Maine Climate Council

PROCESS TIMELINE



June 2019
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Oct 2019 - June 2020
Working Groups & Scientific + Technical Subcommittee
Meet Monthly to Develop Mitigation & Adaptation Recommendations, Characterize Climate Impacts



June 2020 - Dec 2020
Maine Climate Council Considers and Selects Final Strategies for State Climate Action Plan



Dec 1, 2020
State Climate Action Plan Delivered to Legislature



Community Resilience Planning, Public Health & Emergency Management Working Group Members

Co-chairs: **Judy East**, Land Use Planning Commission; **Dr. Nirav Shah**, Maine Center for Disease Control and Prevention; **Rebecca Boulos**, Maine Public Health Association; **Anne Fuchs**, Maine Emergency Management Agency

Senator David Miramant, Maine State Legislature

Senator Marianne Moore, Maine State Legislature

Rep. Genevieve McDonald, Maine State Legislature

Rep. Beth O'Connor, Maine State Legislature

Anne Ball, Maine Downtown Center

Andrew Barton, University of Maine

Bruce Berger, Maine Water Utilities Association

Lance Boucher, American Lung Association

Howard Carter, City of Saco

Joe Chappell/Margaret Cushing, Cumberland County
Emergency Management Agency

John Egan, Coastal Enterprises, Inc.

Bob Faunce, Town of Damariscotta

Elsie Flemings/Katie Freedman, Healthy Acadia

Kristina Ford, Town of Boothbay

David Gardner, Maine Department of Transportation

Steven C. Golieb, Town of Millinocket

Mark Green, Downeast Community Partners

Nancy Hasenfus, Retired physician

Gwen Hilton, Maine Land Use Planning Commission

Chace Jackson, American Heart Association

Tora Johnson, University of Maine at Machias

Eileen Johnson, Bowdoin College

Debbie Johnson, Maine Department of Economic and
Community Development

Nan Johnson, Federal Emergency Management Agency

Kohl Kanwit, Department of Marine Resources

Chuck Lubelczyk, Maine Medical Center Research Institute

Jessie Perkins, Bethel Area Chamber of Commerce

Patricia Pinto, AARP Maine

Michael Plaziak, Maine Rural Water Association

Hayley Prevatt, City of Portland Public Health

Grainne Shaw, Sagadahoc County Emergency Management
Agency

Abbie Sherwin, Southern Maine Planning and Development
Commission

Anna Siegel, US Youth Climate Strikes, Youth Rep.

Ray Sisk/Leticia vanVuuren, Knox County Emergency
Management Agency

Peter Slovinsky, Maine Geological Survey

Lisa Sockabasin, Wabanaki Public Health

Charlie Soltan, Soltan Bass, LLC

Esperanza Stancioff, University of Maine/Maine Sea Grant

Marla Stelk, Association of State Wetland Managers

Michele Walsh, Maine Department of Agriculture,
Conservation and Forestry



Community Resilience, Public Health + Emergency Management Working Group

Climate Strategy Recommendations

Community Resilience Planning

1. Comprehensive Review of Maine Laws to Achieve Resilience and Economic Security in the Face of Climate Change
2. Improve Delivery System of Technical Assistance on Resilience to Municipalities
3. Funding Mechanisms to Achieve Resilience

Public Health

4. Improve Public Health Behavior Related to Climate Impacts Through Investments in Public Health Monitoring and Education
5. Conduct Public Education About Climate Change Health Effects and Resources
6. Reduce Impacts from High Intensity Weather Events
7. Improve Health Systems' Capacity to Mitigate & Adapt to Climate Change

Emergency Management

8. Develop a State Infrastructure Climate Adaptation Fund



STRATEGY #1 Initiate a Comprehensive Review of Maine Laws to Achieve Resilience & Economic Security in the Face of Climate Change

Update Maine laws to promote community resilience

- 9 DRAFT sub-strategies on land use and water use rules

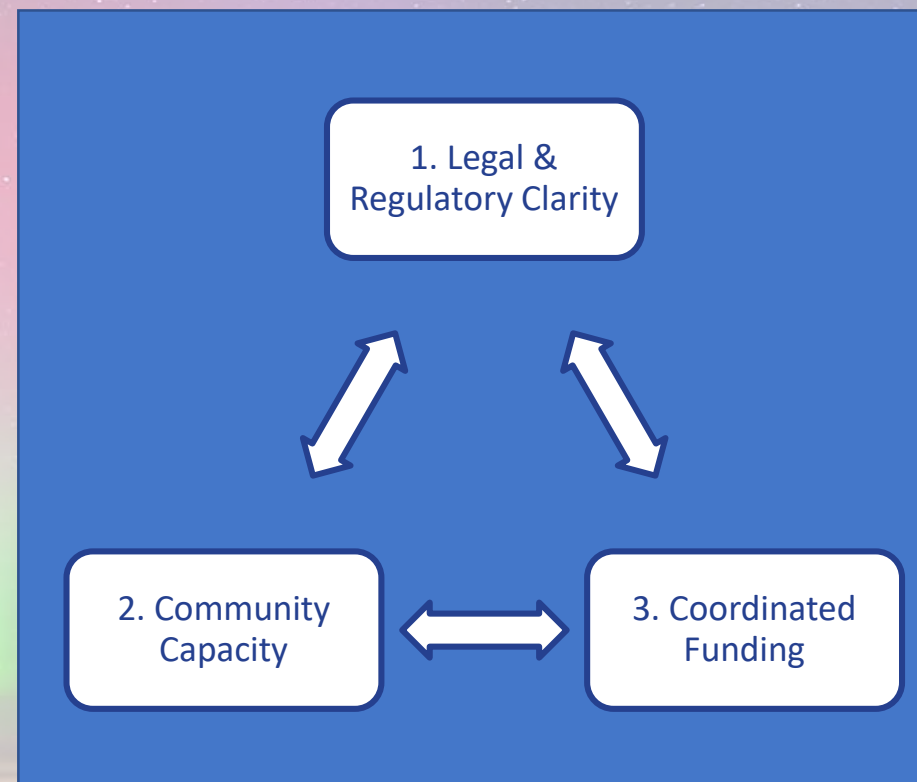
Consistent and science-based definitions

Minimize the compliance burden on

- Applicants, permitting & compliance staff, local regulators

Enable development in areas identified by communities

Coordinate change with robust technical assistance and training





STRATEGY #2 Improve Delivery System of Technical Assistance on Resilience to Municipalities

Expand state technical assistance to communities

- Designate agency resilience officers to coordinate assistance
- Train and certify code enforcement officers

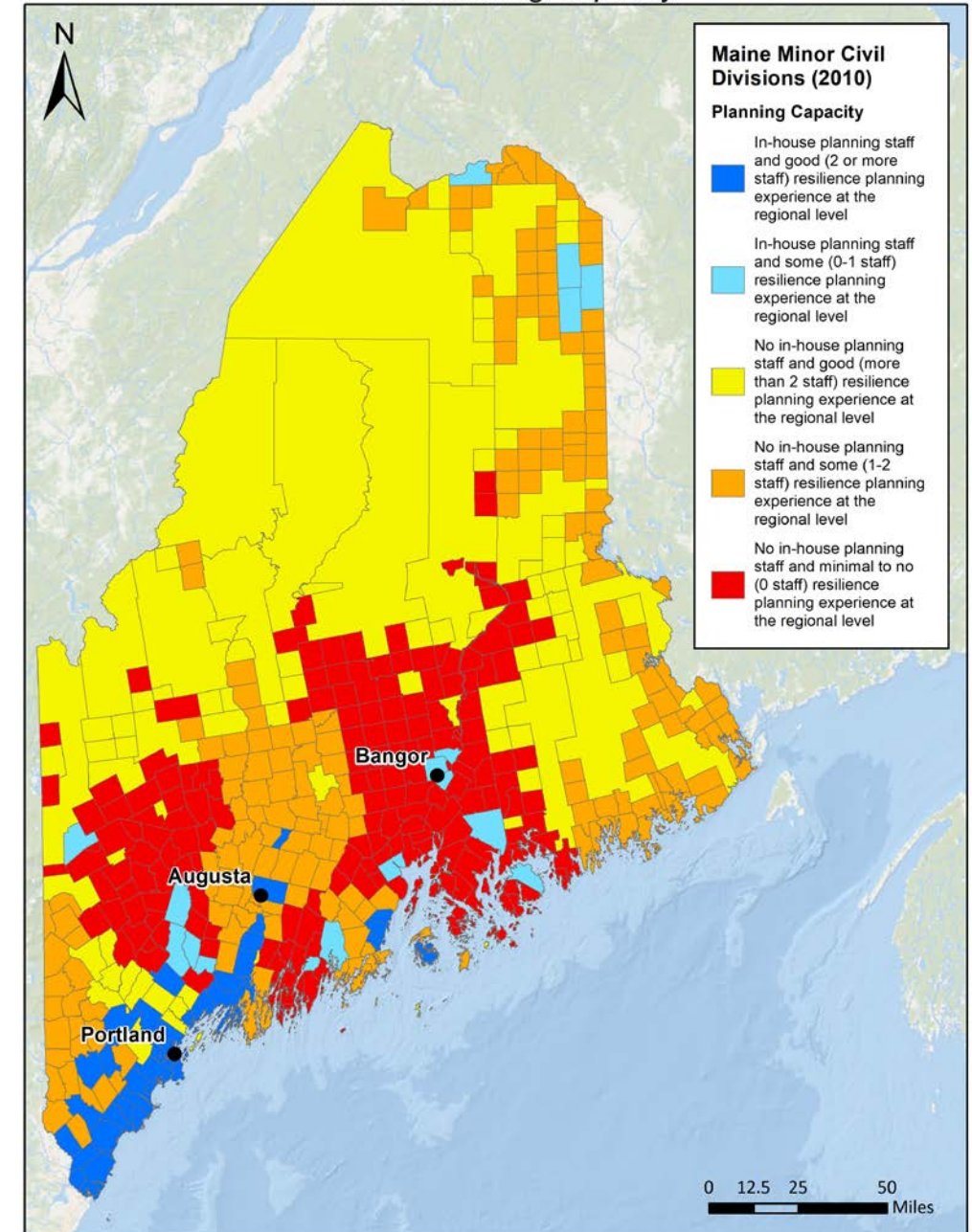
Support regional delivery of technical assistance

- Provide training to and by regional planning organizations
- Promote sharing of knowledge and tools among communities

Seek efficiencies in the creation and delivery of assistance

- Leverage expertise in the nonprofit, private, and academic sectors

Maine Minor Civil Divisions Resilience Planning Capacity



Service Layer Credits: Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



STRATEGY #2 Improve Delivery System of Technical Assistance on Resilience to Municipalities

Use existing governing structures and processes

- Integrate resilience into existing plans, regulations, and governance
- Incentivize municipalities to designate resilience officers

Support municipalities to understand the impacts of a changing climate

- Scale technical assistance to different community types & sizes

Provide a clearinghouse for data, tools, funding sources, and case studies



One size does not fit all

Don't reinvent the wheel,
but DO air up the tires



STRATEGY #3 Funding Mechanisms to Achieve Resilience

Establish cabinet-level leadership to coordinate agency efforts.

- Designate a lead agency and a state resilience officer.

Create a clearinghouse of funding programs and finance mechanisms

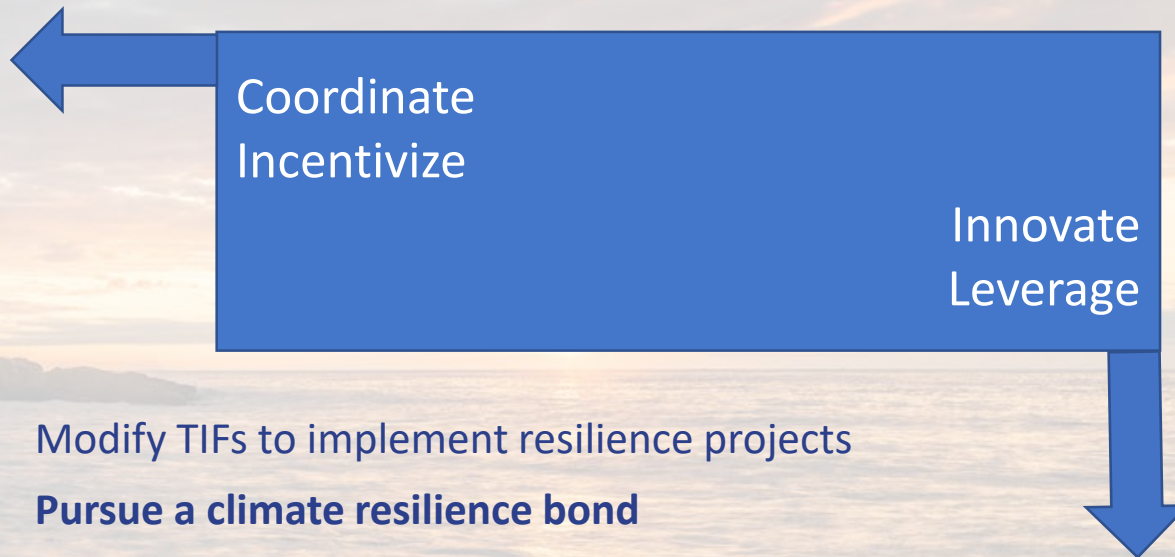
Incentivize communities to cooperate regionally

- Especially in competing for federal grants

Incentivize inclusion of resilience and greenhouse gas emission reduction strategies into plans, regulations, capital investment, and staffing

- Give preference to communities/regions with resilience plans

Establish a Maine Climate Corps
for
climate-related **workforce development.**



Modify TIFs to implement resilience projects

Pursue a climate resilience bond

- Successful examples in MA & RI

Create a Maine Infrastructure Bank

- Merge management of existing loan funds
- Be customer-centric vs. program-centric (customer = municipality)

Develop new financing/leverage mechanisms

- Pursue larger capital markets
- Climate Resilience Authorities
- State Infrastructure Climate Adaptation Fund



STRATEGY #8 State Infrastructure Climate Adaptation Fund

- **Enables municipalities funds to meet local cost share requirements of federal funding programs.**
 - Increased execution of large and small adaptation projects resulting in avoided disaster dollars
 - Increased use of federal grant programs for large infrastructure projects, resulting in less stress on rate and tax payers
- **Incentivizes further mitigation**
 - Increased participation in hazard mitigation and climate adaptation planning
 - Increased participation in the National Flood Insurance Program
 - Increased participation in Community Rating System

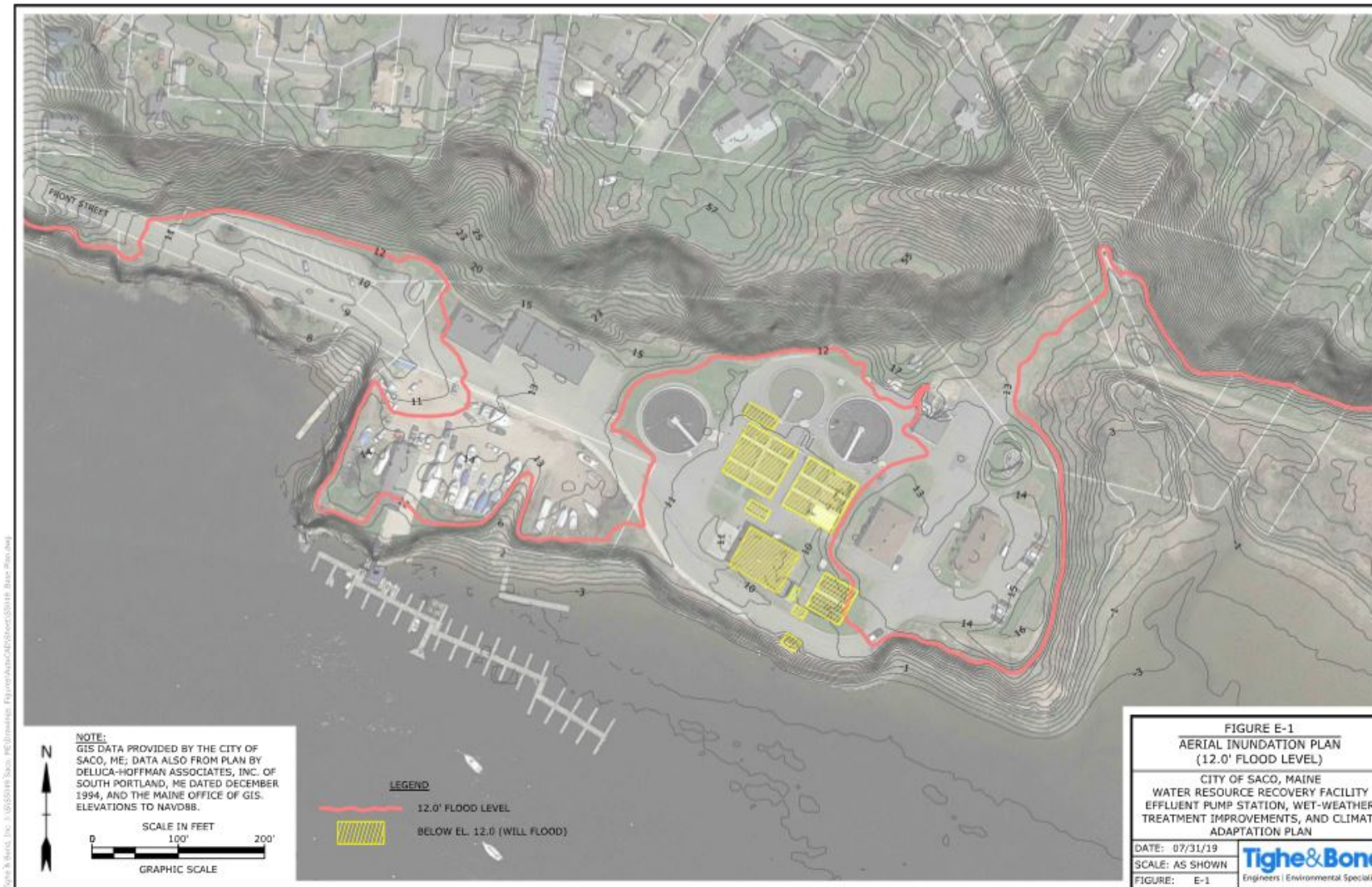
Providing a state infrastructure funding opportunity encourages the “whole-community” approach.

Saco Water Resource Recovery Facility

Engineering Analysis:
\$80,000

Proposed Adaptation:
\$10,800,000

Cost of Doing Nothing:
\$14,300,000 - \$43,000,000



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Prepare for Climate Change Impacts



Build Healthy and Resilient Communities

Enhance and coordinate assistance and funding for community resilience

Improve the planning and legal tools that build resilience

Invest in public health monitoring and education

Protect water sources from high intensity weather events



Invest in Climate-Ready Infrastructure

Assess the vulnerability of Maine's infrastructure

Provide technical assistance and seed funding to unlock federal funding for infrastructure projects

Give particular to Maine's working waterfronts and seaports



Protect Maine's Environment and Natural Resource Economies and Promote Natural Climate Solutions

Protect Maine's natural and working lands and waters

Support Maine's natural resource economies

Increase carbon sequestration

Improve monitoring to understand and manage the response to climate change

Reduce Maine's Greenhouse Gas Emissions



Bring the Future of Transportation to Maine

Increase electric vehicle use

Reduce emissions from current gas and diesel engines

Reduce Vehicle Miles Traveled (VMT)

Explore funding options for transportation needs & emissions reductions



Modernize Maine's Buildings

Improve the design and construction of new buildings

Promote climate-friendly building products

Transition to cleaner heating and cooling systems

Institute a Renewable Fuel Standard

Weatherize existing buildings

Lead by Example in publicly funded buildings

Incentivize hospitals to be carbon neutral



Reduce Carbon Emissions in Maine's Energy and Industrial Sectors

Ensure adequate affordable clean energy supply

Initiate a stakeholder process to modernize Maine's electric grid

Accelerate the decarbonization of industrial use and processes

Encourage highly efficient Combined Heat and Power facilities

Develop financing options to meet clean energy and emission reduction targets

What's Next?

- Next Maine Climate Council meeting: Oct. 1, 2020
 - Wednesday, Oct. 21
 - Thursday, Nov. 12

