



Municipal Vulnerability Preparedness (MVP)



State and local partnership to build resiliency to climate change

1. Engage Community

2. Identify CC impacts and hazards

3. Complete assessment of vulnerabilities & strengths

4. Develop and prioritize actions

5. Take Action

Overview of the Process (Steps & Tasks)

✓ (A) Prepare for the Workshop

- 1 Establish a core team with goals.
- 2 Engage stakeholders.
- 3 Prepare materials for workshop.
- 4 Decide on participant arrangements.

✓ (B) Characterize Hazards

- 1 Identify past, current, and future impacts.
- 2 Determine the highest-priority hazards.

✓ (C) Identify Community Vulnerabilities and Strengths

- 1 Identify infrastructural vulnerabilities and strengths.
- 2 Identify societal vulnerabilities and strengths.
- 3 Identify environmental vulnerabilities and strengths.

DURING WORKSHOP

(D) Identify and Prioritize Community Actions

- 1 Identify and prioritize infrastructural actions.
- 2 Identify and prioritize societal actions.
- 3 Identify and prioritize environmental actions.

(E) Determine the Overall Priority Actions

- 1 Identify highest-priority actions.
- 2 Further define urgency and timing.

(F) Put It All Together

- 1 Generate final workshop products.

(G) Move Forward

- 1 Continue community outreach and engagement.
- 2 Secure additional data and information.
- 3 Inform existing planning and project activities.

Community Components



Infrastructural



Societal



Environmental

Nature-based Solutions

Nature-Based Solutions use natural systems, *mimic* natural processes, or *work in tandem with* traditional approaches to address natural hazards like **flooding**, **erosion**, **drought**, and **heat islands**.



**Green
Infrastructure**



**Low Impact
Development (LID)**

Nature based solutions at every scale

Rural, suburban, or urban

Conserve available open space providing ecosystem services



Integrate concepts into new development at neighborhood scales



Restore resilience in urban areas at site specific scale

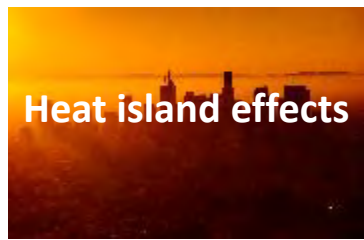


Free services provided by nature-based solutions

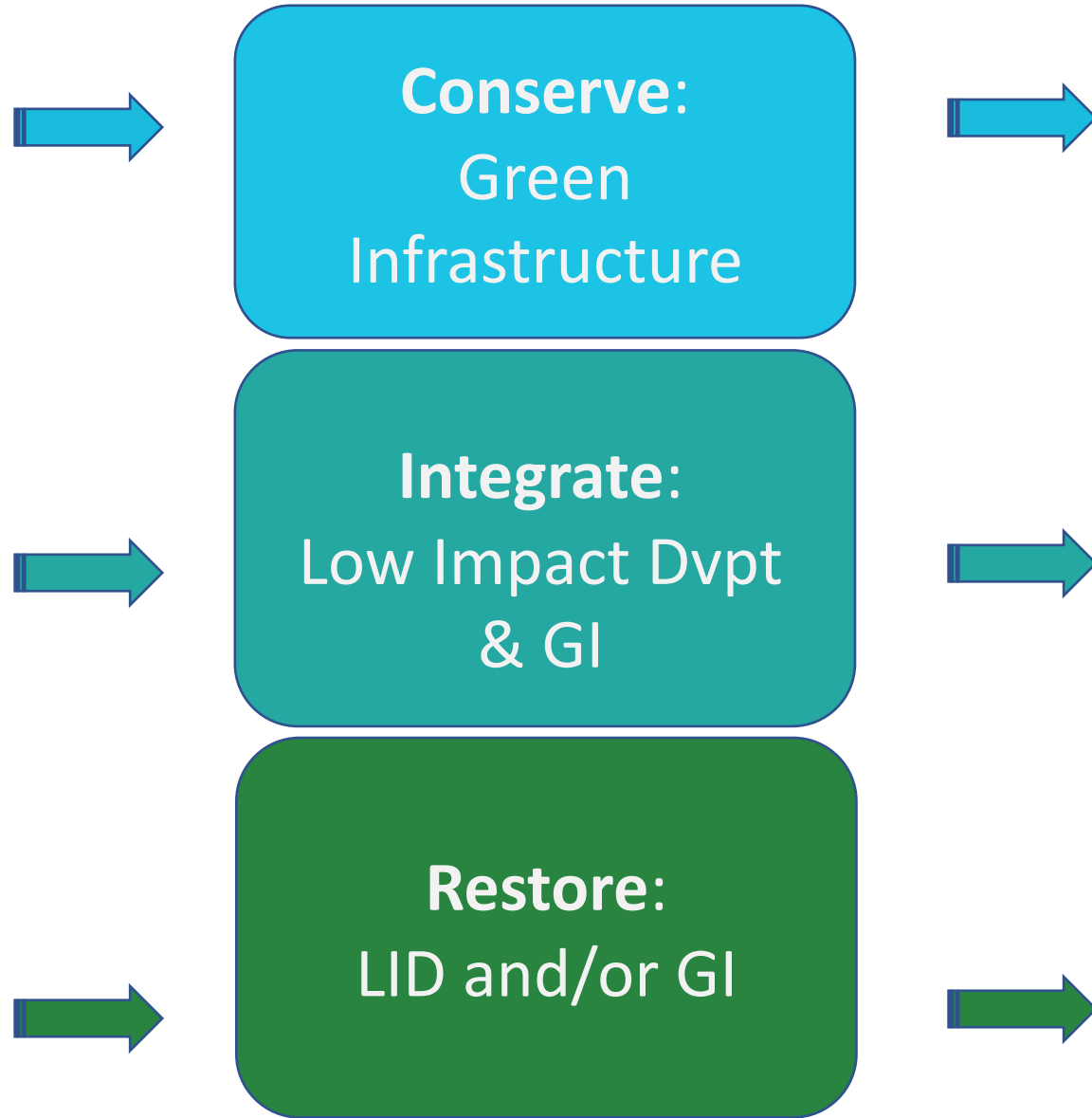
- Control flooding and nonpoint source water pollution
- Maximize groundwater recharge
- Limit flooding associated with sea level rise
- Support biodiversity
- Control tax rates and reduce infrastructure costs
- Enhance quality of life



Hazards



Nature-based solutions



Municipal benefits



Avoided Costs



Enhanced Safety



Environmental Services

Linking Local and Regional

Benefits:

- Contribute to a watershed-scale approach to addressing water balance, water quality and flooding concerns
- Maximize the utility of local conservation planning

How to link:

- Comprehensive/Master Plans
- Open space residential development and TDR
- Complete Streets Plans
- Hazard Mitigation Plans
- Water resource protection overlay districts
- Floodplain management
- Wetland protection districts and bylaws
- Open Space & Recreation Plans

... here's the high tech driver of the MVP Plan



Examples of MVP Planning Strategies

- Identifying and protecting vulnerable areas containing critical green infrastructure
- Forest assessments/planning
- Dam removal/River restoration
- Stream crossing upgrades
- Culvert replacement
- Coldwater Stream/ORW certification
- Stormwater retrofits/Low Impact Development (LID) practices, comprehensive bylaw review
- Assessing areas for road safety, water quality improvement, habitat restoration, and land conversion



Potential Funding for Priority Projects

- Complete Streets and Chapter 90 Funds
- DER Culvert Replacement Grant Program and Priority Projects assistance (dam removal/river restoration)
- EEA Planning Grants, DLTA (through your RPAs), MVP (Planning and Action Grants), DCS, MDAR, Dam and Seawall Repair Program
- Mass Environmental Trust (MET)
- DEP Sections 604 (b) and 319 Grants Programs
- NRCS, NOAA, EPA, NEP, RDA programs
- Public – Private Partnership, Foundation Grants
- MA CZM Coastal Pollution Remediation Grants (CPR) and Coastal Resiliency Grants

Baker Administration's Support



“Projects that propose **nature-based solutions** or strategies that rely on green infrastructure or conservation and enhancement of natural systems to improve community resilience will **receive higher scores.**”

EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS

Matthew A. Beaton, Secretary

Grant Announcement

Combuys Bid # BD-18-1042-ENV-ENV01-25921

Request for Responses (RFR) ENV 18 POL 03

Dated: April 13, 2018

MUNICIPAL VULNERABILITY PREPAREDNESS GRANT PROGRAM (MVP)

IMMEDIATE NEEDS ROUND FY 18

MVP ACTION GRANT

1. Grant Opportunity Summary

...cal assistance for municipalities who have
...f Energy and Environmental Affairs (EEA) as
...edness (MVP) Community (“MVP
...tions identified through the MVP planning
...essment and action planning that has led to

...bility Preparedness Grant Program supports
...Climate Change Strategy for the
...d technical support to cities and towns to
...ate change vulnerability assessments and
...s resilience to top natural and climate-related
... (CRB) Workshop Guide
...ogram is split into Planning Grants, which
..., leading to designation as an “MVP
...through this opportunity), which seek to

...implement key priorities and projects identified through the MVP Planning Grants.

C. ELIGIBLE PROJECTS: Funding is to advance priority climate adaptation actions identified by “MVP Communities” to address climate change impacts resulting from extreme weather, sea level rise, inland and coastal flooding, severe heat, and other climate impacts. (See further detail on eligible projects in Section 2B.). Projects that propose nature-based solutions or strategies that rely on green infrastructure or conservation and enhancement of natural systems to improve community resilience will receive higher scores.