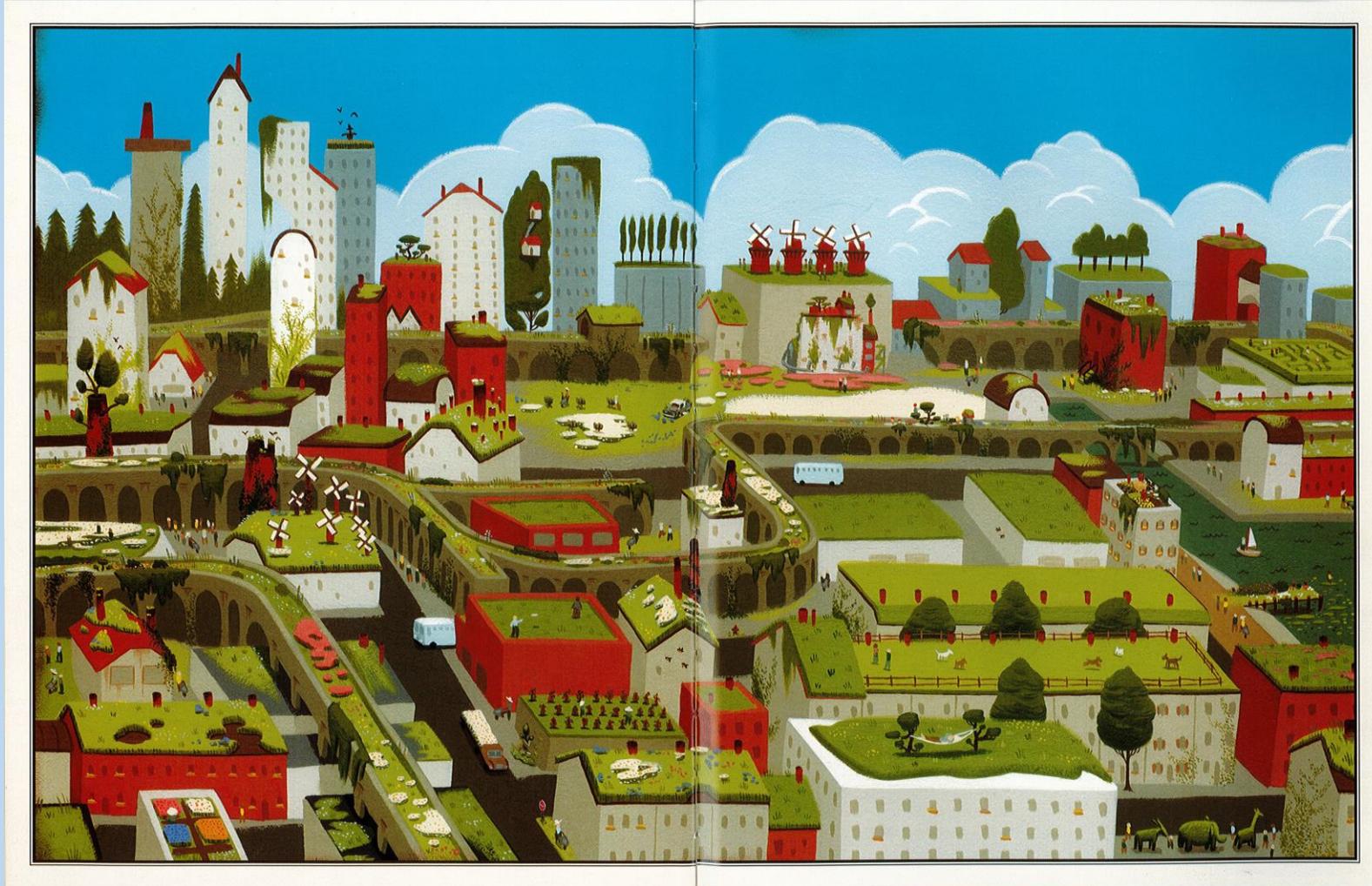




Sara Burns Water Resource Scientist  
[sara.burns@tnc.org](mailto:sara.burns@tnc.org)

# MVP CORE PRINCIPLES

## 4. Employing nature-based solutions.



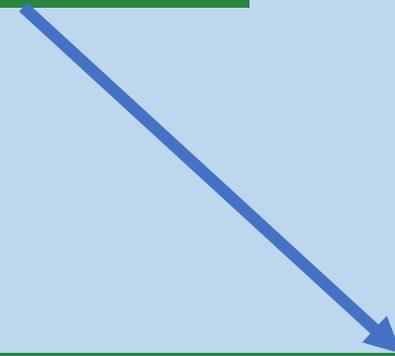
With Permission: from *The Curious Garden*, by Peter Brown

# Nature-Based Solutions

Projects that **protect, restore, and/or manage** an existing ecological system or mimic natural processes to **protect public health** and **clean water**, to **increase natural hazard resilience**, and to **sequester carbon**.



Conservation



Restoration and green stormwater management



# NBS Anywhere - At Any Scale

Protect



Rural

Restore



Suburban

Manage



Urban

# MVP CORE PRINCIPLES

5. Achieving **broad** and multiple community benefits

# Example Action Grant Projects

Redesigns and Retrofits

## Boston



Moakley Park - Resilience Preliminary Design, Technical Analysis, and Pre-Permitting

FY19 Grant Award:  
\$1,500,000

Nature-based solutions

Community co-benefits



Retrofitting a major waterfront park into a legacy park that uses nature-based solutions to address climate vulnerabilities while providing important access to recreation for residents.



# MVP CORE PRINCIPLES

7.Utilizing regional solutions toward **regional** benefit.

## Action Grant Example

# Boxford, Topsfield, & Ipswich regional resilience

12 re-designed culverts in the Howlett Brook Watershed

- Increased Flood Resilience
- Fish Passage, Aquatic Habitat



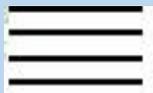
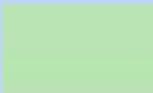
# MVP CORE PRINCIPLES

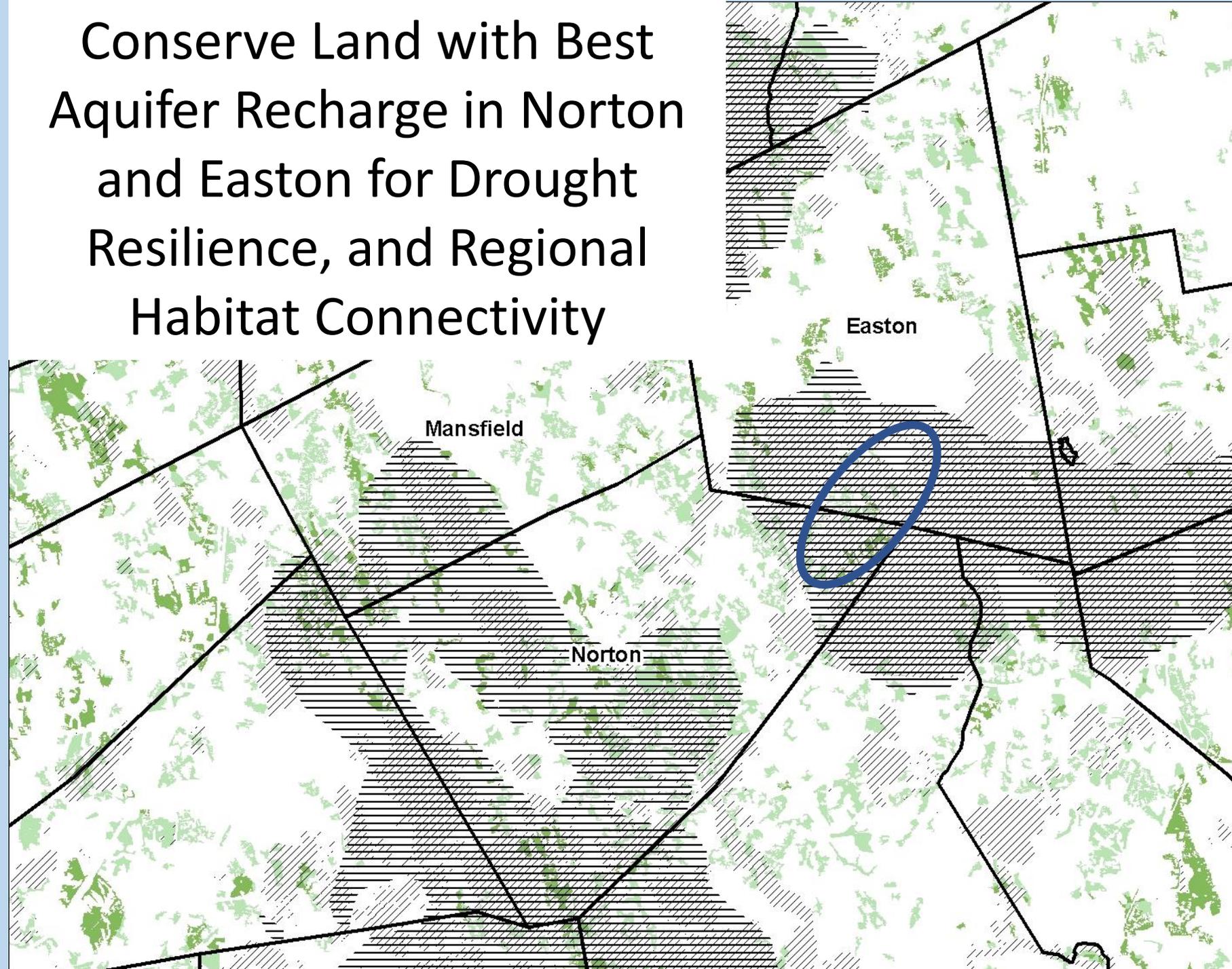
1. Furthering a community identified priority action to **address climate change impacts.**
2. Utilizing **best available climate change data for a proactive solution.** Data from local-level climate change vulnerability studies may also be used.



# Conserve- Drought resilience and habitat

## Conserve Land with Best Aquifer Recharge in Norton and Easton for Drought Resilience, and Regional Habitat Connectivity

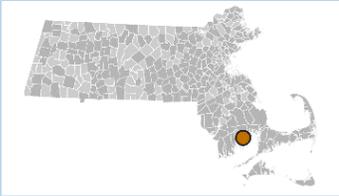
-  Conserve for High Quality Habitat
-  Conserve for Regional Habitat Connectivity
-  Good Aquifer Recharge Potential
-  Best Aquifer Recharge Potential



# Example Action Grant Projects

Land Acquisition for Resilience

## Mattapoisett



Pine Island Pond  
Watershed Lands  
Project

FY19 Grant Award:  
\$960,000

Partnership between the Town, the Mattapoisett Land Trust and the Buzzards Bay Coalition to purchase 120 acres of pristine forest, streams, freshwater wetlands and coastal salt marsh in the Pine Island Pond area of Mattapoisett.



Data utilization

Proactive

# Siting NBS Opportunities for Hazard Mitigation

Project Goals: Map sites that offer Best Bang for the Buck

