Cape Cod 208 Plan Update

What is the 208 Plan?

Clean Water Act Section 208

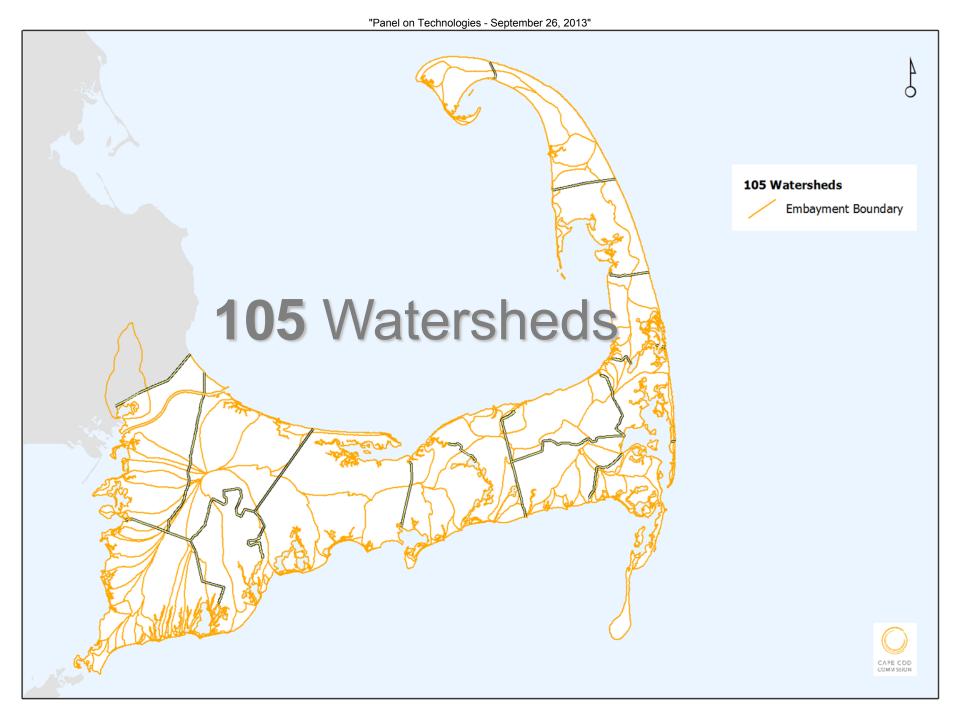
The Commission was directed to update the 1978 Plan

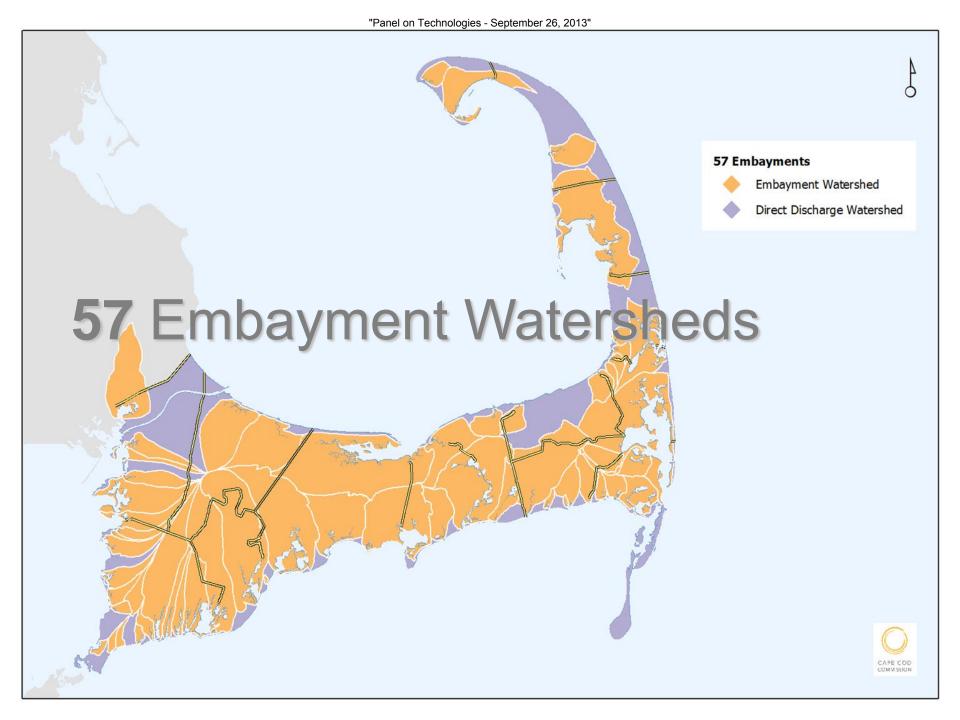
The Commonwealth provided \$3 million to fund the project

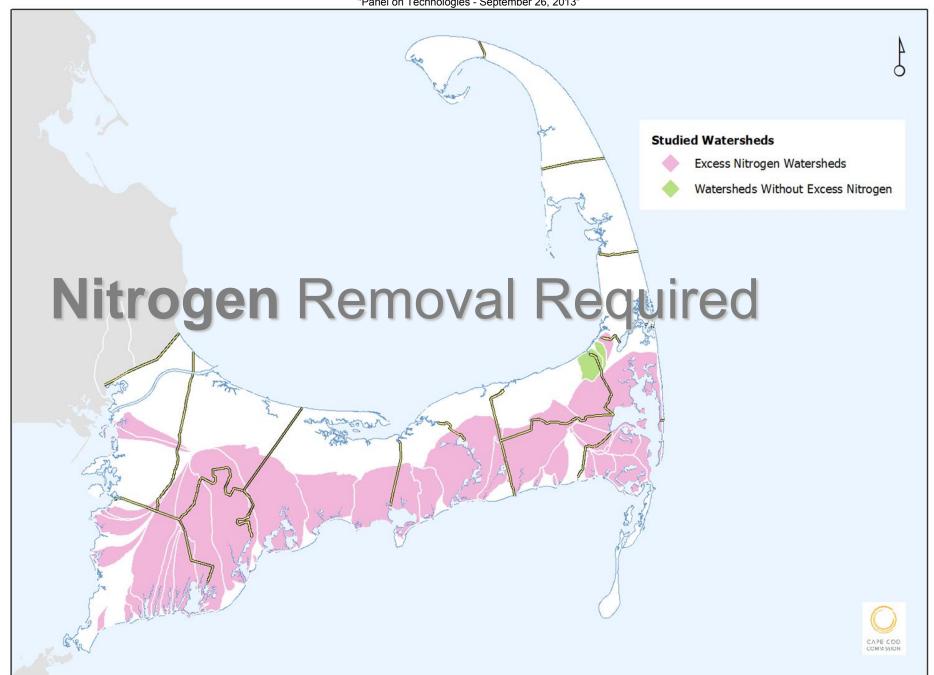
Focus on 21st Century Problems

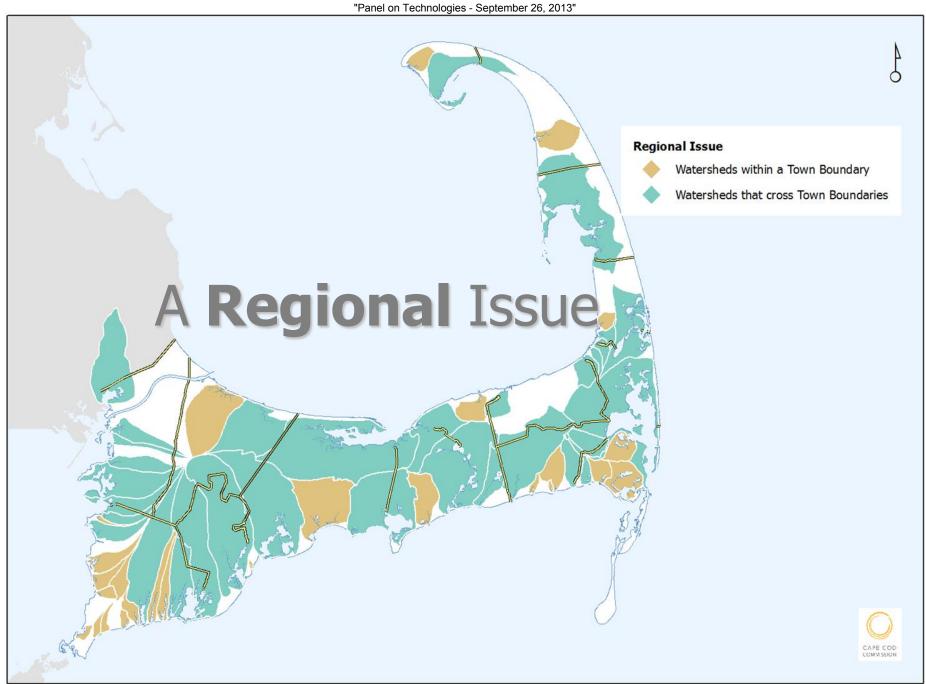
Nitrogen: Saline Waters Phosphorus: Fresh Waters

Growth & Title 5
Limitations









Approach to the 208 Plan Update

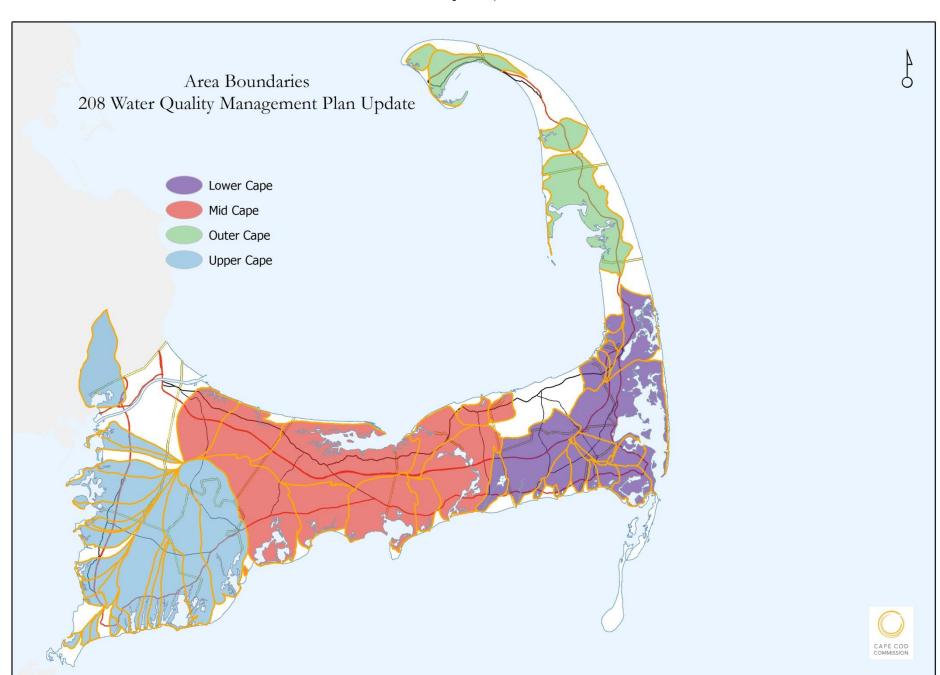
Watershed Based

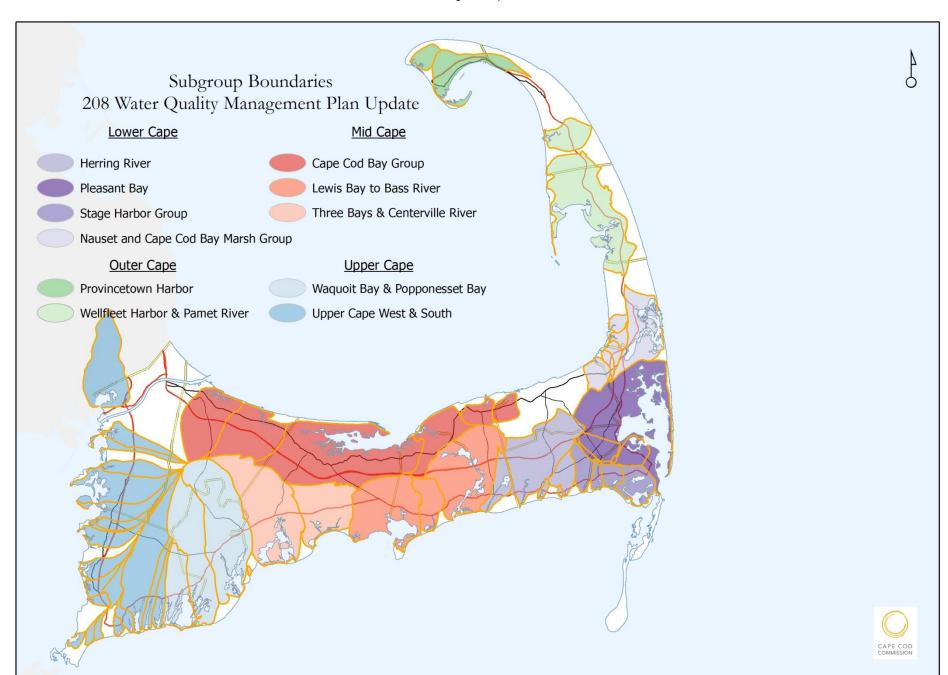
Stakeholder Engagement Maximize Benefits of Local Planning

No Optimal Solutions

Goal:

To generate a series of approaches in each watershed that will meet water quality standards





What is the stakeholder process?

Public Meetings

Watershed Working Groups

Goals, Work Plan & Roles

Affordability, Financing

Baseline Conditions

Technology Options Review

Watershed Scenarios

July

August

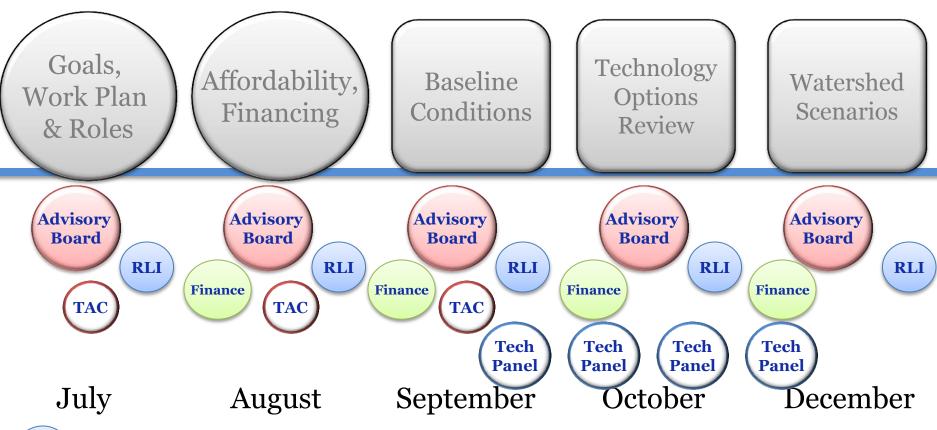
September

October

December

Public Meetings

Watershed Working Groups



RLI

Regulatory, Legal & Institutional Work Group



Technical Advisory Committee of Cape Cod Water Protection Collaborative

The 208 Advisory Board

Mission: To support the 208 planning process by providing advice on the overall approach, reviewing draft work product and offering insight on strategic and tactical decision-making.

Members

Robert Churchill, Broker-Owner of Buyer Brokers of Cape Cod, Churchill Associates Robert Lawton, former Yarmouth Town Administrator
Wendy Northcross, CEO of the Cape Cod Chamber of Commerce
Sheila Vanderhoef, Eastham Town Administrator
Virginia Valiela, Member of the Falmouth Water Quality Management Committee
Robin Wilkins, former Town of Harwich Selectman

The 208 Finance Subcommittee

Mission: Establish a factual basis for discussing issues of affordability, financing, and resources

Members

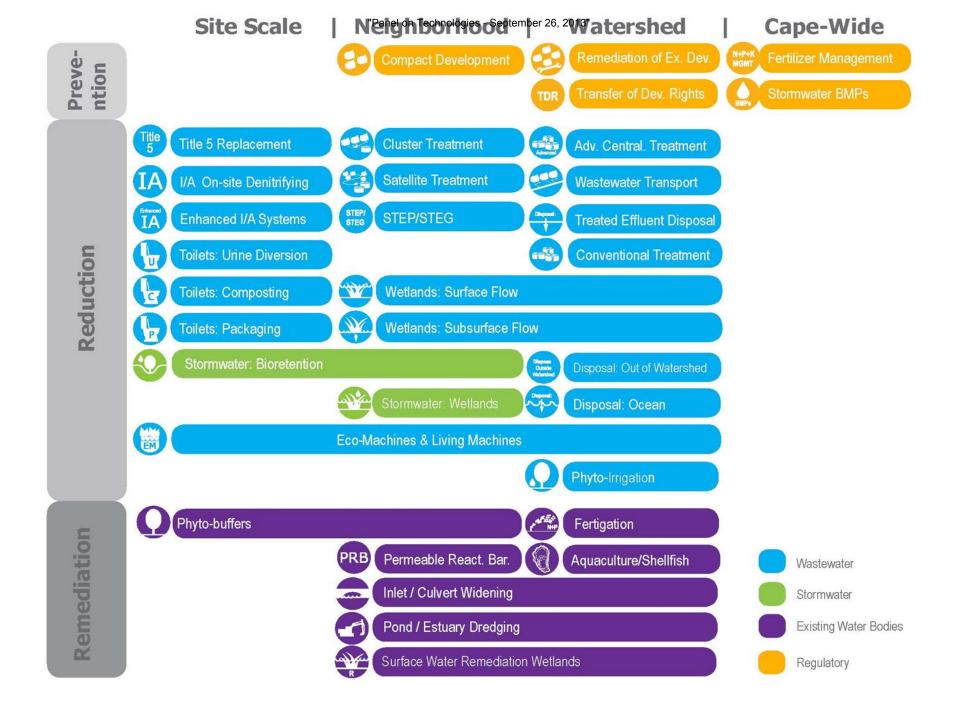
Bob Ciolek, Chair, consultant to Barnstable County Bill Hinchey, Yarmouth Town Administrator Mark Milne, Finance Director, Town of Barnstable

The 208 Panel on Technologies

Mission: The mission of this panel is to review, confirm, and expand upon the matrix of technology options, review the overall planning approach to be used in each watershed, and provide input on a site screening methodology for green infrastructure technologies.

Members

Ivan Valiela, Marine Biological Laboratory
Chris Neill, Marine Biological Laboratory
Eric Davidson, Woods Hole Research Center
Sarah Slaugher, Built Environment Coalition
Anamarija Frankic, UMASS Boston
Patrick Lucey, Aquatex, British Columbia
Jay Prager, Maryland Dept of the Environment





Existing Water Bodies



Regulatory

Targets/ Goals

Present Load:

X kg/day



Target: Y kg/day



Reduction Required:

N kg/day

Composite Target Areas

- A. High Nitrogen Reduction Areas
- B. Pond Recharge Areas

C. Title 5 Problem Areas

Low Barrier to Implementation

- A. Fertilizer Management
- **B. Stormwater Mitigation**





Watershed/Embayment Options

- A. Permeable Reactive Barriers
- C. Constructed Wetlands

B. Inlet/Culvert Openings

D. Dredging







Alternative On-Site Options

- A. Eco-toilets (UD & Compost)
- B. I/A Technologies

- C. Enhanced I/A Technologies
- D. Shared Systems







Priority Collection/High-Density Areas

- A. Greater Than 1 Dwelling Unit/acre
- **B. Village Centers**

- C. Economic Centers
- D. Growth Incentive Zones















