



CAPE COD
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Cape Cod Metropolitan Planning Organization (MPO) Transportation Planning Certification Review

November 18, 2013



2013 Cape Cod MPO Federal Certification Review Agenda



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| | |
|--------------------|---|
| 9:00-9:30 | Introductions & Opening Remarks |
| 9:30-10:00 | Follow-up on Recommendations from 2008 Review |
| 10:00-10:45 | Livability, Sustainability and The MPO's Intended use of INVEST |
| <i>10:45-11:00</i> | <i>Break</i> |
| 11:00-12:00 | Title VI / Environmental Justice |
| <i>12:00-12:45</i> | <i>Lunch</i> |
| 12:45-1:15 | Public Participation Process |
| 1:15-3:00 | Metropolitan Planning Process and Key Documents |
| <i>3:00-3:15</i> | <i>Break</i> |
| 3:15-4:15 | Interagency Transportation Coordination |
| 4:15-4:30 | Closing Remarks and Adjournment |

MPO Voting Members



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Massachusetts Dept. of Transportation (MassDOT)

County Commissioner

Cape Cod Commission

Cape Cod Regional Transit Authority (CCRTA)

Mashpee Wampanoag Tribe

Barnstable

Bourne, Sandwich, Falmouth, and Mashpee (Sub-Region A)

Yarmouth and Dennis (Sub-Region B)

Brewster, Harwich, Chatham, and Orleans (Sub-Region C)

Eastham, Wellfleet, Truro, and Provincetown (Sub-Region D)

Public Invited:

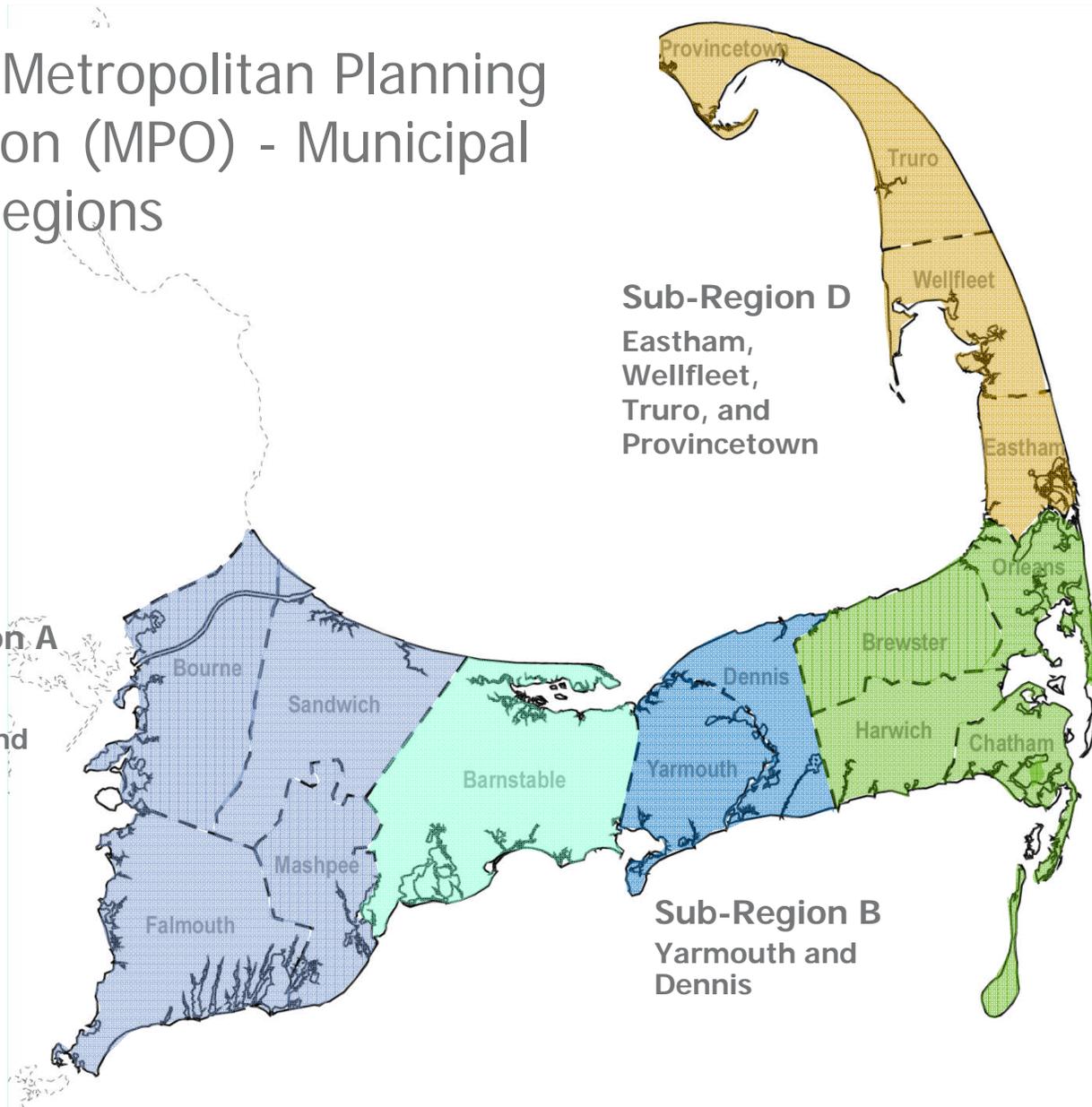
All MPO Votes are conducted at an open public meetings.



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Cape Cod Metropolitan Planning Organization (MPO) - Municipal Member Regions

Sub-Region A
Bourne,
Falmouth,
Mashpee, and
Sandwich



Sub-Region D
Eastham,
Wellfleet,
Truro, and
Provincetown

Sub-Region C
Brewster,
Harwich,
Orleans, and
Chatham

Sub-Region B
Yarmouth and
Dennis

Cape Cod MPO Members, Non-Voting:



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Federal Highway Administration (FHWA)

Federal Transit Administration (FTA)

**Woods Hole, Martha's Vineyard, and Nantucket
Steamship Authority (SSA)**

Army Corps of Engineers (ACOE)

**Cape Cod National Seashore / National Park Service
(CCNS / NPS)**

Cape Cod Joint Transportation Committee (CCJTC)



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Cape Cod Joint Transportation Committee (CCJTC)

Each of the 15 towns has a CCJTC Member, and there is a bicycle representative:

Joseph Rodricks, P.E., Chairman, Dennis
George Allaire, P.E., Vice-Chairman, Yarmouth
Roger Parsons, P.E., Barnstable
George Sala, Bourne
Robert Bersin, P.E., Brewster
Paul Lagg, Chatham
Neil Andres, Eastham
Marlene McCollem, Falmouth
Lincoln Hooper, Harwich
Catherine Laurent, Mashpee
Mark Budnick, Orleans
David Gardner, Provincetown
Paul S. Tilton, P.E., Sandwich
Charleen Greenhalgh, Truro
Mark Vincent, Wellfleet
Dr. Edward Gross, Bicycle Representative

CCJTC Ex-officio / Non-Voting Members:

Jack McCormack, Cape Cod Commission
Thomas Cahir, Cape Cod Regional Transit Authority
Paul Maloney, P.E., Federal Highway Administration
William Gordon, P.E., Federal Transit Administration
Sheri Warrington, MassDOT Office of Transportation Planning
Tim Kochan, MassDOT Highway Division, District 5 Office
Edward DeWitt, Association to Preserve Cape Cod

and the Public:

All JTC votes are conducted at open public meetings.

Opening Remarks from the Cape Cod Commission-MPO Staff Organization



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- **Performance based organization with annual OGSM evaluation as part of budget review (Objectives, Goals, Strategies, Measures)**
- **Interdisciplinary team with expertise in:**
 - Land use planning
 - Natural resources protection
 - Economic development
 - Community design
 - Affordable housing
 - Historic preservation
 - Community character
 - Waste management
 - Energy
 - Climate change
 - Environmental economics
 - Transportation
 - Water resources
 - GIS

Opening Remarks from the Cape Cod Commission-MPO Staff Project Highlights



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Hyannis Access Study

- Regional Multimodal Gateway
- Emphasis on Economic Development
- Thorough Public Outreach within Environmental Justice community



Opening Remarks from the Cape Cod Commission-MPO Staff Project Highlights



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Hyannis Access Study Task Force

- Stakeholders
- Cape Cod Metropolitan Planning Organization (MPO)
- Cape Cod Commission
- Town of Barnstable
- Town of Yarmouth
- Barnstable Airport
- Steamship Authority
- Cape Rail, Inc.
- Chambers of Commerce
- Commonwealth of Massachusetts (MassDOT)



Opening Remarks from the Cape Cod Commission-MPO Staff Project Highlights



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Cape Cod Climate Change Scenario Planning Project

2010-11 Interagency
Transportation, Land Use, and
Climate Change Pilot Initiative

Initiated by federal interagency
working group

Goal: Transportation/land use
scenario for Cape Cod focused on
reducing future Green House Gas
(GHG) emissions and address Sea
Level Rise (SLR)



Figure 1: Trend, Dispersed, and Targeted Scenarios - Change in Density from Baseline Household Density. Source: PlaceMatters and Placeways

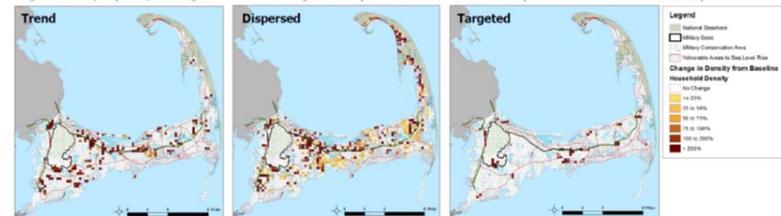
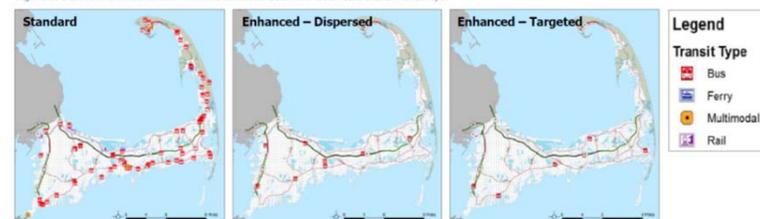


Figure 2: Standard and Enhanced Transit Scenarios. Source: PlaceMatters and Placeways.



Introduction

2013 Cape Cod MPO Federal Certification Review



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Moving Ahead for Progress in the 21st Century

(MAP-21)



- Formal Introductions
- MAP-21
- MPO Performance-Based Planning Activities on 7 national goals

Development of Performance Based Planning targets for 7 National Goal Areas



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1. **Safety** - To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.
2. **Infrastructure Condition** - To maintain the highway infrastructure asset system in a state of good repair
3. **Congestion Reduction** - To achieve a significant reduction in congestion on the National Highway System
4. **System Reliability** - To improve the efficiency of the surface transportation system
5. **Freight Movement and Economic Vitality** - To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.
6. **Environmental Sustainability** - To enhance the performance of the transportation system while protecting and enhancing the natural environment.
7. **Reduced Project Delivery Delays** - To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices

9:30-10:00

**Follow-up on Recommendations
from 2008 Review**

Follow-up on Recommendations from the 2008 Review



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- **Meeting the Planning Requirements of SAFETEA-LU:**
 - Development of the Regional Transportation Plan (RTP), Transportation Improvement Program (TIP), and Unified Planning Work Program (UPWP)
- **Public Involvement (to be discussed later)**
- **Coordination of Planning Agencies**
- **Technical Capabilities**
 - Congestion Management Process, Transit, Intelligent Transportation Systems

2008 Review Follow-up

Response to Recommendations on the Planning Requirements for the RTP



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- Environmental consultation through public workshops documented in the RTP
- During RTP development, extensive consultation occurred with CCC Staff environmental specialists
- Staff specialists are active with all environmental entities on Cape Cod
- This process will be more clearly documented in the next RTP

Cape Cod Metropolitan Planning Organization
**Regional Transportation Plan
Public Workshop Series**



Focus on:
ROADWAYS & THE ENVIRONMENT

Wednesday, July 28, 2010 • 3 PM
Hyannis Transportation Center
215 Hyannough Road, Hyannis MA 02601

Speakers Representing:
Massachusetts Department of Transportation
Cape Cod Commission

- Cape Cod Regional Transportation Plan Overview
- Roadway Improvements
- Cape Cod Environmental Resources
- Public Comments
- Questions & Suggestions

2008 Review Follow-up

Response to Recommendations on the Planning Requirements for the RTP



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- **Increased engagement with Mashpee Wampanoag Tribe**
 - Representative added to the MPO, included in MPO MOU. Specific planning initiatives undertaken with the Tribe.



2008 Review Follow-up

Response to Recommendations on the Planning Requirements for the RTP



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- **All projects over \$10M continue to be listed in the RTP**
 - Ex. Cape Cod Rail Trail Extension - Bourne to Provincetown (over \$28 Million). Identified as priority project in RTP in "*Chapter 7: Analysis of Alternatives*" and programmed within the available highway funding in "*Chapter 8: Recommendations & Financial Plan.*"



2008 Review Follow-up

Response to Recommendations on the Planning Requirements for the TIP



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- **Explanation of Year of Expenditure (YOE) added to the TIP**

(see page 18 of 2014-2017 TIP)



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CAPE COD TIP PROJECTS

B1. CAPE COD PROJECTS, FEDERAL AID AND NON FEDERAL AID

The following pages include the projects for the Cape Cod region that are in this program for Federal Aid or Non Federal Aid funding.

Programming/Implementation Note:

While it is recognized that this TIP is a planning program of projects and implementation must follow from the responsible implementing agency or agencies, the Cape Cod region expects cooperation, communication and an expeditious review process by agencies with the responsibility of overseeing steps toward implementation in order to ensure the maximum compliance with the programmed plan of projects. This effort by overseeing agencies will promote implementation of projects within the planned program and allow the financial plan to remain in balance.

SUMMARY OF FUNDING FOR CAPE COD PROJECTS

The Cape Cod federal aid target amounts, from Federal Highway Administration sources through the Commonwealth of Massachusetts, Massachusetts Highway Department, based on approximately 4.58% of the statewide amounts, are listed below, and the current amount programmed is the right column.

Projects programmed in years 2014-2017 reflect 2014 cost estimates. An inflation rate of 4% per year is added to project cost estimates in years 2015-2017, and therefore, the project cost estimates are by Year Of Expenditure (YOE) for the target projects.

| YEAR | Total Federal Aid | Amount Programmed |
|----------------|--------------------------|--------------------------|
| 2014 | \$ 8,426,248 | \$ 8,426,248 |
| 2015 | \$ 7,248,090 | \$ 6,847,610 |
| 2016 | \$ 7,998,143 | \$ 7,711,200 |
| 2017 | \$ 7,998,143 | \$ 7,168,000 |
| TOTALS: | \$ 31,670,624 | \$ 30,153,058 |

The list of specific Cape Cod projects is presented on the following pages.

2008 Review Follow-up

Response to Recommendations on the Planning Requirements for the TIP



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- **Continued coordination with officials and agencies responsible for planning activities in the region that are affected by transportation**
 - Cape Cod Commission, Town Planners, Mashpee Wampanoag Tribal Council, Cape Cod Regional Transit Authority, and others
- **Project descriptions updated at least annually to reflect the most current information**

2008 Review Follow-up

Response to Recommendations on the Planning Requirements for the UPWP



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- **Training activities for the development of staff continue to be an important part of the UPWP**
 - Low/no cost webinars remain priorities
 - Recent trainings have covered topics including: Title VI, MAP-21/Performance-Based Planning, Improving Public Involvement, Low Cost Safety Improvements, Bicycle Road Safety Audits, Complete Streets/Accommodating All Users, Healthy Transportation Policies, and Climate Change Planning
 - Should “staff training” be a specific task within the UPWP?

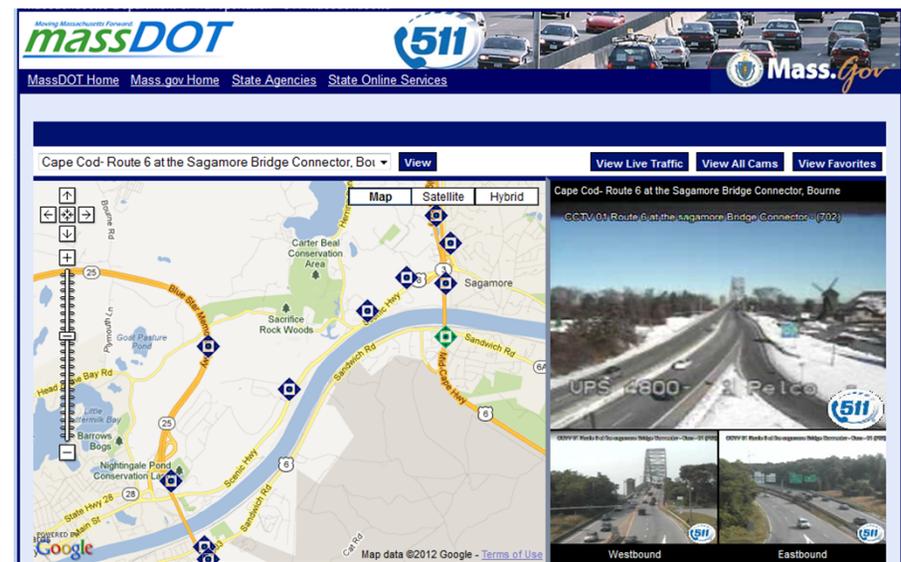
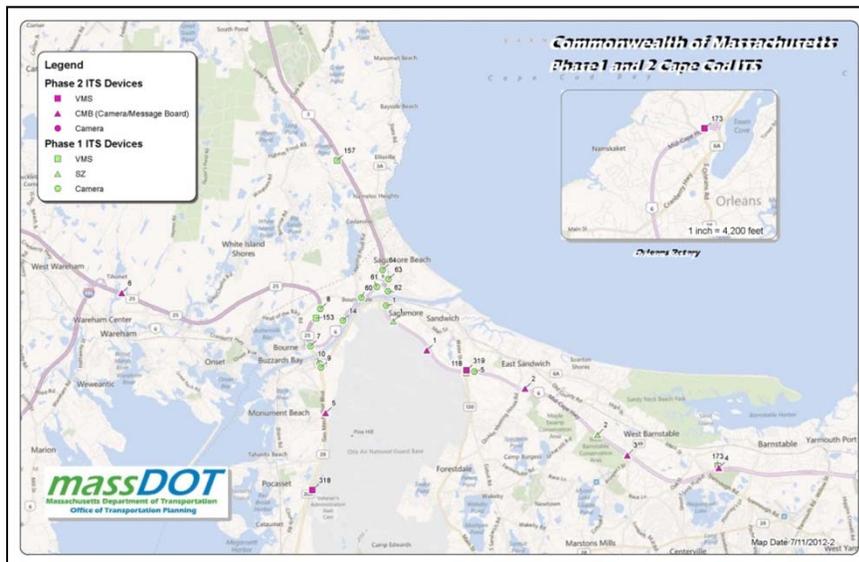
2008 Review Follow-up

Response to Technical Capabilities Recommendations



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- Conducted a study of where real-time traveler information would most benefit the public. Project was funded through the TIP - construction to begin this fall.



2008 Review Follow-up

Response to Technical Capabilities

Recommendations



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- Regional ITS applications and information organized on the Commission's website



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- Cape Cod Metropolitan Planning Organization (MPO)
- Cape Cod Joint Transportation Committee (CCJTC)
- Regional Transportation Plan (RTP)
- Transportation Improvement Program (TIP)
- Unified Planning Work Program (UPWP)
- Projects
- Safety
- Congestion Management
- Traffic Counts
- Smart Transportation

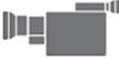
Congestion Management

Information on this page is provided to help travelers avoid congested areas and to help transportation officials identify and improve travel throughout the region.

Site Search

>> Access to Real-time Information

- **Dial 511 for Real-Time Traffic Conditions in Massachusetts:**
 Travelers heading to Cape Cod or anywhere in Massachusetts can use the Massachusetts Department of Transportation (MassDOT) 5-1-1 number to receive the latest on traffic congestion on your route. *Dial 511 on any cell phone in Massachusetts -- or -- dial one of these local phone numbers: Metro Boston (617) 986 - 5511; Central Mass (508) 499 - 5511; and Western Mass (413) 754 - 5511.* You can also go to the MassDOT web site www.mass511.com to sign up for real-time traffic conditions for alerts and gain access to a Mass511 application for smart phones.
- **US Army Corps of Engineers Social Media Updates on Cape Cod Canal Bridge Work:**
Facebook: www.facebook.com/CorpsNewEngland
Twitter: twitter.com/CorpsNewEngland
- **MassDOT's Traffic Cameras:**
 - Route 6 East - 0.5 mile West of Route 6A, Sagamore
 - Route 6 East - 200 feet West of Route 6A, Sagamore
 - Route 6 West - North of Sagamore Bridge, Sagamore
 - 45 State Road, Sagamore Depot, Sagamore
 - Route 3 South at Exit 1, Sagamore
- **MassDOT Roadway Events** (planned and current construction events)





For more information or to report congested areas, please send e-mail to:
trans@capecodcommission.org

Transportation Announcements

Volunteers Needed for Counting Users of Cape Bicycling/Walking Trails
CCC is seeking volunteers to contribute to its new Citizens Bicycle &...
[read more >>](#)

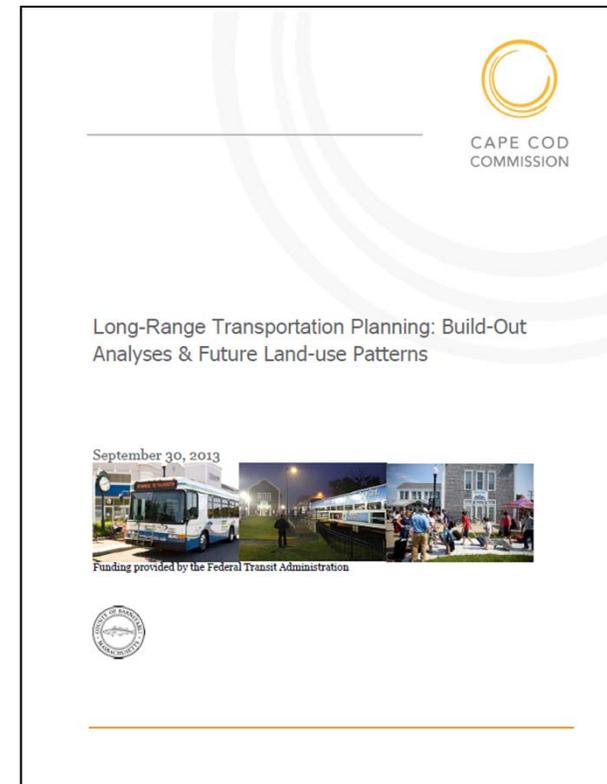
2008 Review Follow-up

Response to Technical Capabilities Recommendations



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- **Increased coordination with CCRTA on transit planning defined with MOUs**
- **Signal coordination analysis included in each study as applicable. More systematic analysis under consideration for a future UPWP task as part of infrastructure analysis initiative.**



10:00-10:45

Livability, Sustainability & INVEST

Massachusetts Mode Shift Goals



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For Immediate Release: 10/09/2012

CONTACT:
MassDOT Press Office
(617) 973-7816

MASSDOT ANNOUNCES MODE SHIFT GOAL TO TRIPLE THE SHARE OF TRAVEL IN MASSACHUSETTS BY BICYCLING, TRANSIT AND WALKING

SPRINGFIELD AND BOSTON (Tuesday, October 9, 2012) – Massachusetts Department of Transportation (MassDOT) Secretary and CEO Richard A. Davey announced today in Springfield and in Boston that MassDOT has established a visionary statewide mode shift goal of tripling the share of travel in Massachusetts by bicycling, transit and walking.

With the mode shift goal MassDOT will be able to foster improved quality of life by improving our environment and preserving capacity on our highway network; by letting other travel options absorb travel demand that is increasingly contributing to highway congestion that is slowing our potential for economic growth. In addition, we will achieve positive public health outcomes by providing more healthy transportation options in a time when our children and adult neighbors are experiencing record rates of obesity.

In the face of tight budgets and scarce resources MassDOT is rising to the challenge of providing sustainable and healthy transportation choices for all of our customers.

mode shift goal and establishing a sustainable transportation system that meets all our maintain,” said MassDOT Secretary Davey.

et more people walking, biking and taking public transportation,” said Energy and This initiative will reduce the number of cars on the road and help us make further progress (G) emission reduction target of 25 percent by 2020.”

partners, community leaders, advocates and customers, MassDOT will reconsider what is fine healthier, greener and cleaner mobility. We are not seeking to accommodate healthy s by walking, bicycling and by transit.

source of greenhouse gas emissions, with the vast majority of transportation emissions signed the Global Warming Solutions Act into law in 2008, and in 2010 established targets of 90 levels by 2020 and an 80 percent reduction from 1990 levels by 2050 – the most the nation.

A Climate Plan is the centerpiece of the strategy and outline designed to achieve the GSC

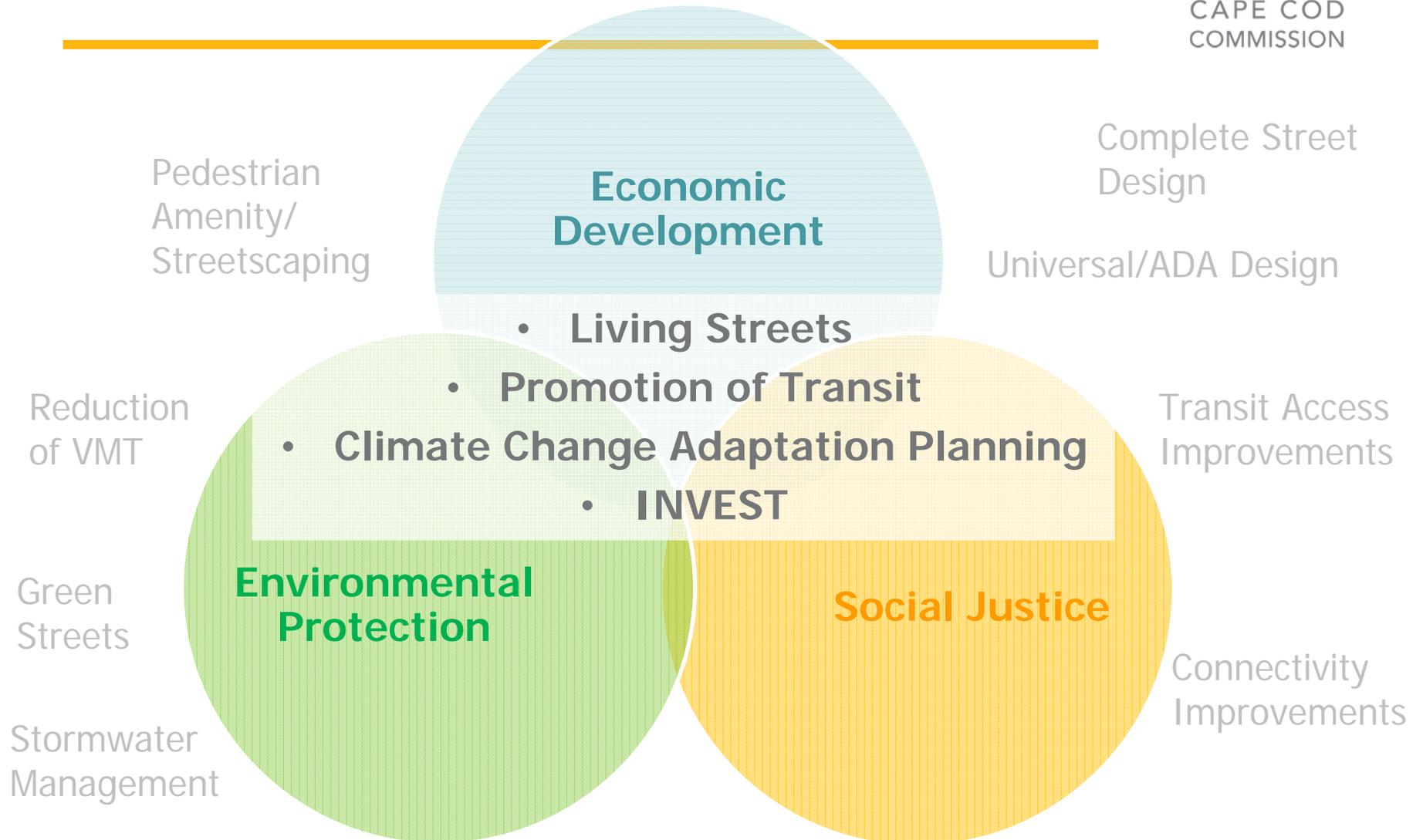


Green DOT Implementation Plan

Sustainable Transportation Planning on Cape Cod



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Living Street Planning



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Complete + Green =

***A Complete Street** considers the needs of all users including cyclists, walkers, the disabled, transit riders, and drivers*

***A Green Street** incorporates green infrastructure for stormwater management and increased tree canopy for carbon sequestration*



***A Living Street** considers the needs of **all users in balance** with Storm water Best Management Practices to design context-sensitive solutions which improve the streetscape's functionality and form.*

Living Streets Design Manual



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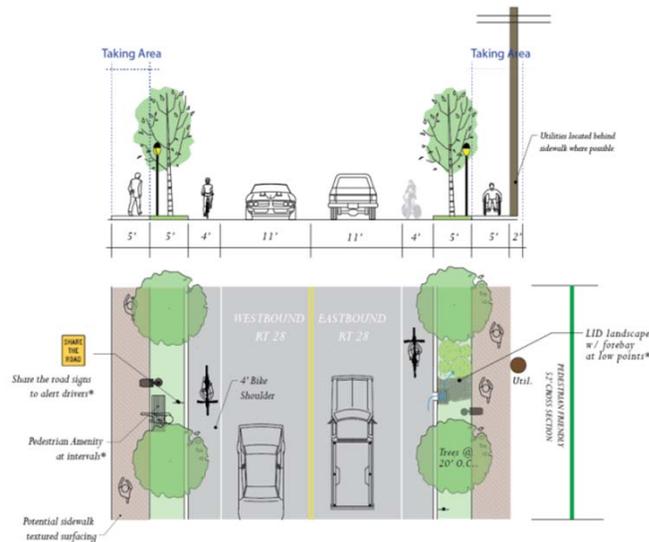


- **Context Sensitive Design Guidance**
- **Design Toolkit**
- **Case Studies Implementation Planning**
- **Resources**

Living Streets Planning Studies



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- **Orleans-Brewster Route 6A Living Streets Project (UPWP 2011)**

- Partnering Municipalities
- Historic Considerations
- Connectivity improvements

- **Yarmouth Route 28 Living Streets Project (UPWP 2012)**

- Capacity considerations
- ROW constraints
- High profile roadway

Access to Transit/Transit Oriented Development

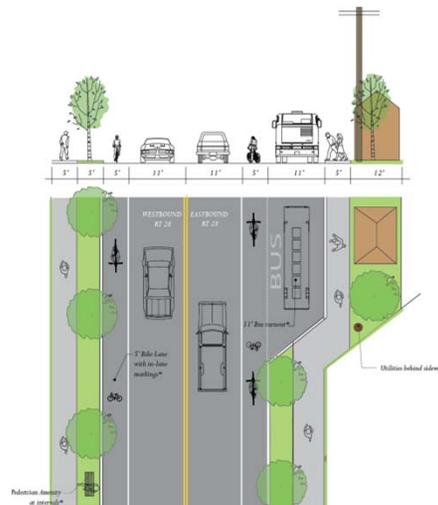
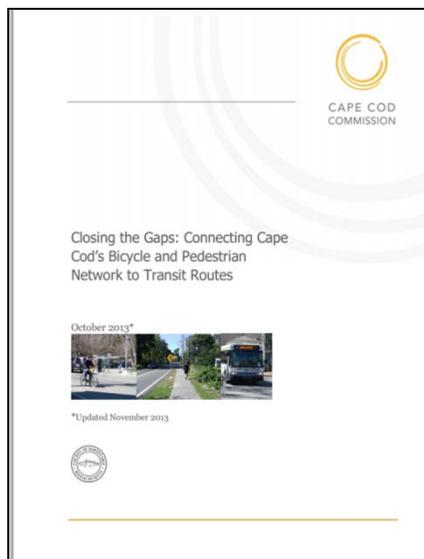


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Improving Transit Ridership through partnerships with the CCCRTA:

- Promotion of dedicated transit facilities in all CCC studies/plans
- Increased Public Awareness around Transit via free transit maps
- Development of report on closing gaps in transit connectivity



MPO & Climate Change



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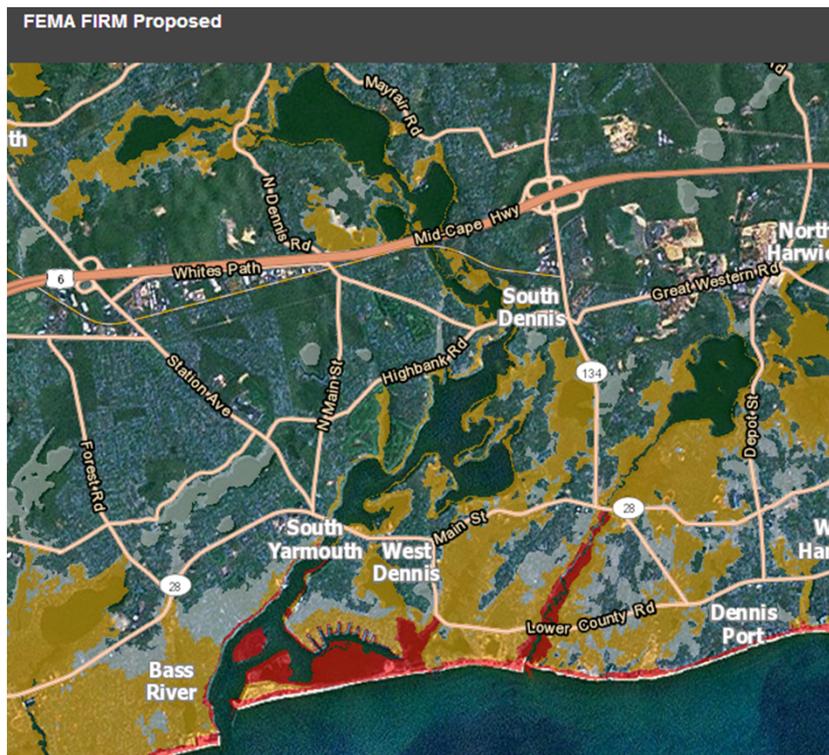
- **Regional Transportation Plan**
 - Smarter infrastructure; location & protection
 - Web mapping tools
- **Unified Planning Work Program**
 - FHWA vulnerability assessment of critical transportation infrastructure
 - FHWA mitigation strategy for critical transportation infrastructure
- **Climate Change Adaptation**
 - Interagency Scenario Planning Pilot Project (Volpe)
 - Multi-Hazard Mitigation Plans
 - Regional Policy Plan
 - Green Infrastructure Plan
 - Land Use Vision Mapping; Priority Protection Areas

Climate Change: RTP

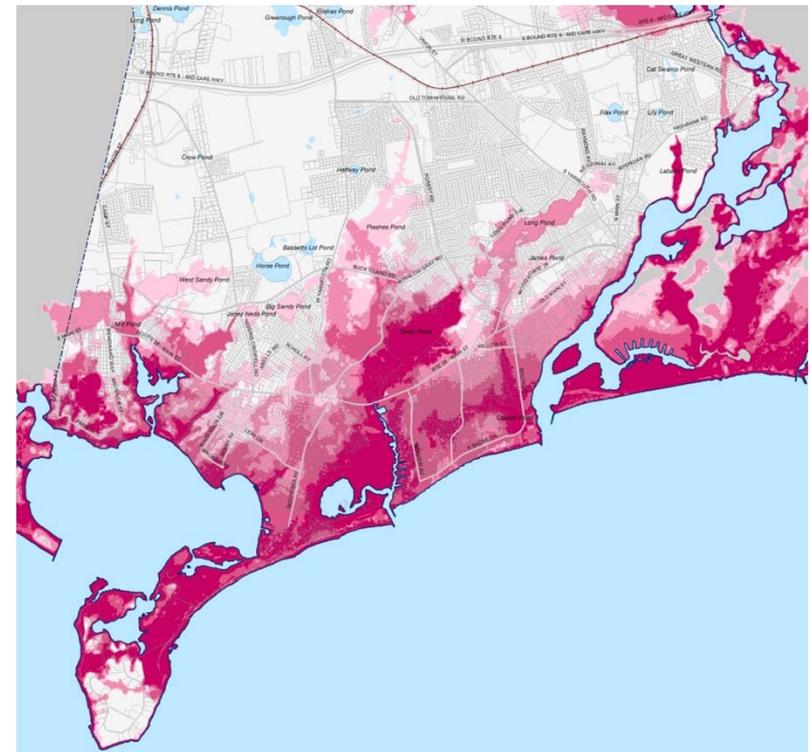


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- Smarter Infrastructure: Location & Protection



Preliminary [FIRMs](#) (2013)



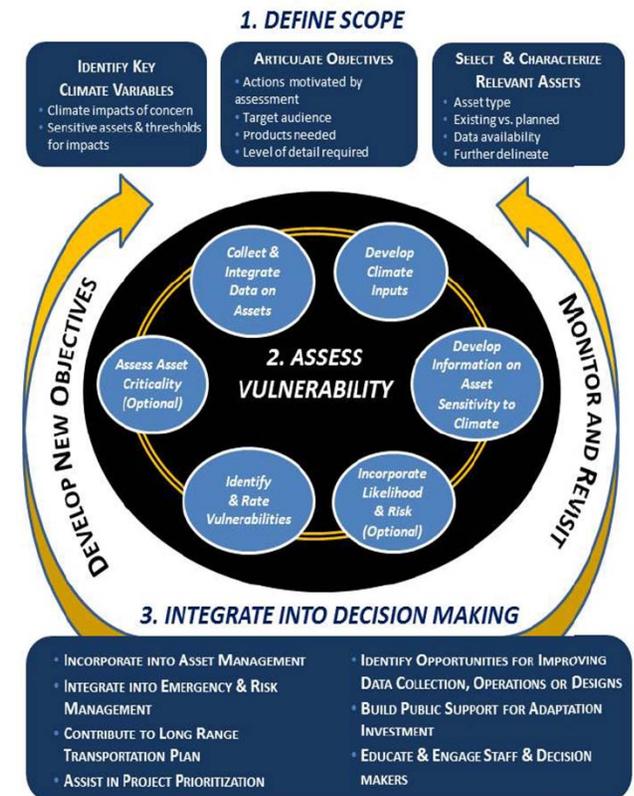
[SLOSH](#) (2013)

Climate Change: UPWP FY 13 & 14



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- **Risk & Vulnerability Assessment of Critical Transportation Infrastructure**
 - Federal Highway Administration’s (FHWA) Vulnerability Assessment Framework
 - Identify regional critical assets and modes
 - Assess vulnerability to climate impacts
- **Mitigation & Adaptation Strategy for Critical Transportation Infrastructure**
 - Develop mitigation strategy for vulnerable assets and modes



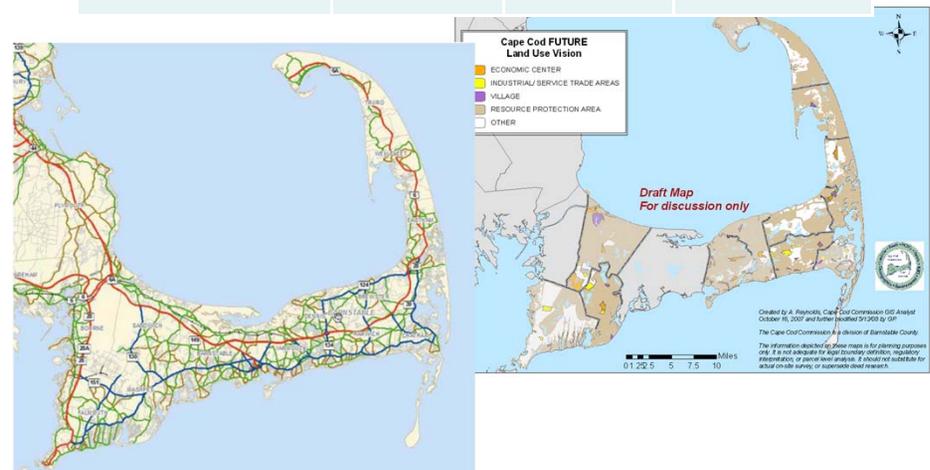
Climate Change: Scenario Planning Project - Process



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- **Data collection**
 - Transportation infrastructure/services
 - Land use, population
 - Resource protection
 - SLR

| Growth Type | Base Year (2008) | Horizon Year (2030) | Delta (2030-2008) |
|-------------|------------------|---------------------|-------------------|
| Population | 224,335 | 284,335 | 60,000 |
| Households | 95,660 | 123,660 | 28,000 |
| Employment | 91,238 | 107,738 | 16,500 |



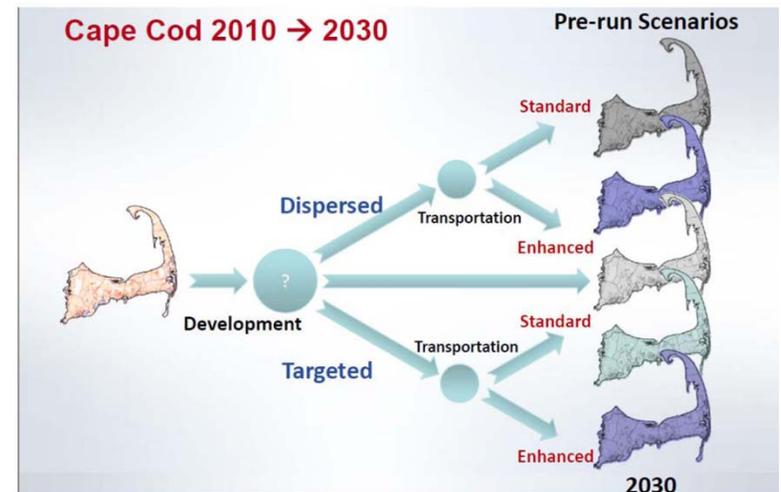
Climate Change: Scenario Planning Project - Scenario Development



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- **5 Preliminary scenarios developed by consultant**
 - Incorporated climate change mitigation /adaptation
 - Population and employment based on growth projections for 2030 and transit improvements

- **Four scenarios refined by workshop participants**

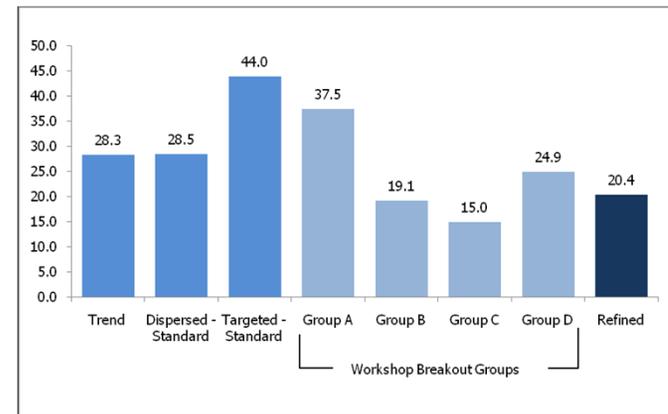


Climate Change: Scenario Planning Project - Scenario Assessment

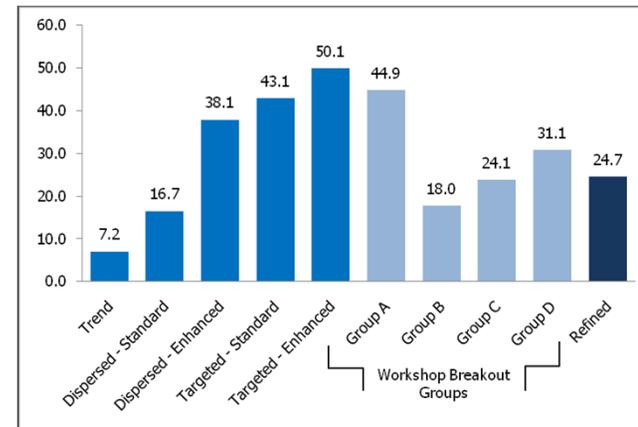


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- **Scenarios assessed using performance indicators**
 - GHG, adaptation to SLR, transit access, protection of natural systems, etc.



Percentage of New Population in Vulnerable Areas



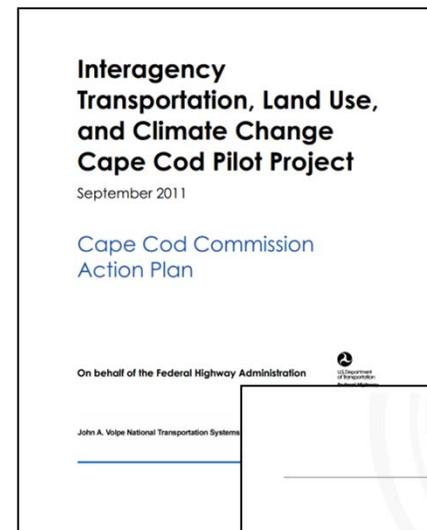
Percentage of New Population Served by Transit

Climate Change: Scenario Planning Project - Outcomes



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- Development of Cape Cod Commission Action Plan
- Exposure to scenario planning tools (CommunityViz) for transportation/land use planning
- Data used in transit specific study comparing 3 future build out scenarios



Climate Change: Scenario Planning Project - Current/Future Efforts



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- Cape-wide buildout analysis for 208 water quality plan update using CommunityViz
- 2014 RPP update will focus on resiliency from storm events/SLR
 - Transportation/land use two components of RPP
- Exploring use of regional scenario planning tools for RPP/next RTP

Climate Change: Adaptation Planning

- Multi-Hazard Mitigation Plans



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- **Process**
 - Assemble local MHM Planning Committee
 - Conduct hazard identification; includes regional climate impacts
 - Conduct risk and vulnerability assessment
 - Develop mitigation strategy
- **FEMA Certified Regional MHM Plan**
- **5 Local Certified MHM Plans**
- **Grant request to develop 5 additional Local MHM Plans (pending)**

Climate Change: Adaptation Planning

- Regional Policy Plan



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- **Regional Policy Plan Update**
 - Climate Lens
- **Green Infrastructure Plan**
 - Component of 208 Water Quality Plan
- **Land Use Vision Map Update**
 - Priority Protection Areas
 - Greater focus on vulnerable coastal areas



INVEST
ECONOMIC • SOCIAL • ENVIRONMENTAL



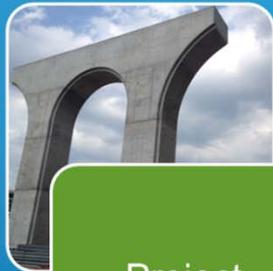
The Sustainability Triple Bottom Line

The Infrastructure Voluntary Evaluation Sustainability Tool

U.S. DOT Federal Highway Administration



System
Planning &
Processes



Project
Development



Operations &
Maintenance



U.S. Department of Transportation
Federal Highway Administration



INVEST – Project Development Module



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- **Review of Hyannis Access Study**
 - Study looked at congestion issues in overburdened transportation network
 - Interdisciplinary analysis
 - Economic center with Environmental Justice population and natural resource constraints

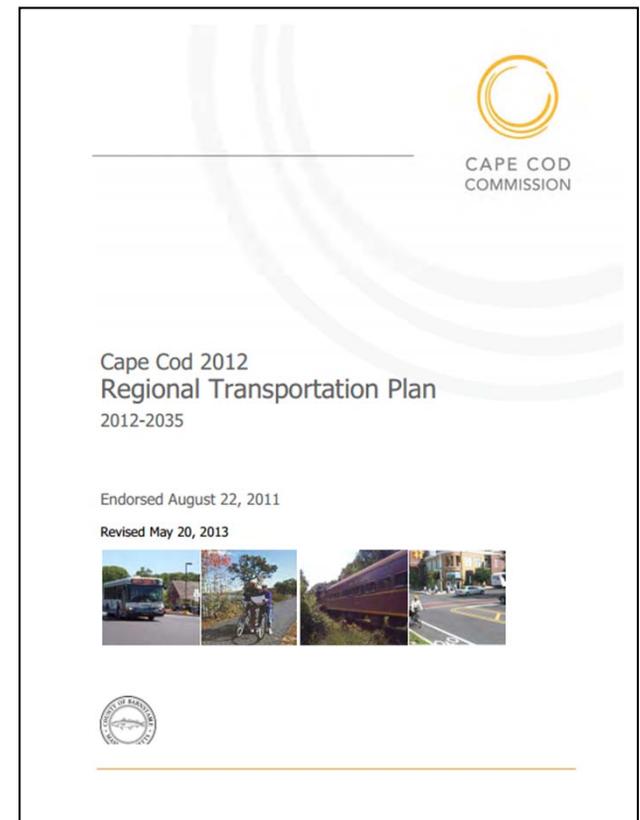


INVEST – System Planning Module



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- **Review of Cape Cod Regional Transportation Plan (RTP)**
 - 25-Year planning document that sets framework for projects and programs across the region
- **INVEST project will:**
 - Provide assessment of how well sustainability is incorporated into the current document
 - Identify areas for potential improvement
 - Be used to inform update to the RTP



INVEST – Project Team and Work Plan



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-
- **Interdisciplinary team of 6 staff members**
 - **Expertise in transportation, natural resources, economic development, cultural resources, water resources, energy & climate change**
 - **2 staff to evaluate and score each question relative to Hyannis Access Study**
 - **Workshop in December to discuss scoring, lessons learned from INVEST process, etc.**
 - **RTP update evaluation to begin in early 2014**



10:45-11:00

15 minute Break

11:00-12:00

Title VI & Environmental Justice

Compliance Work Plan



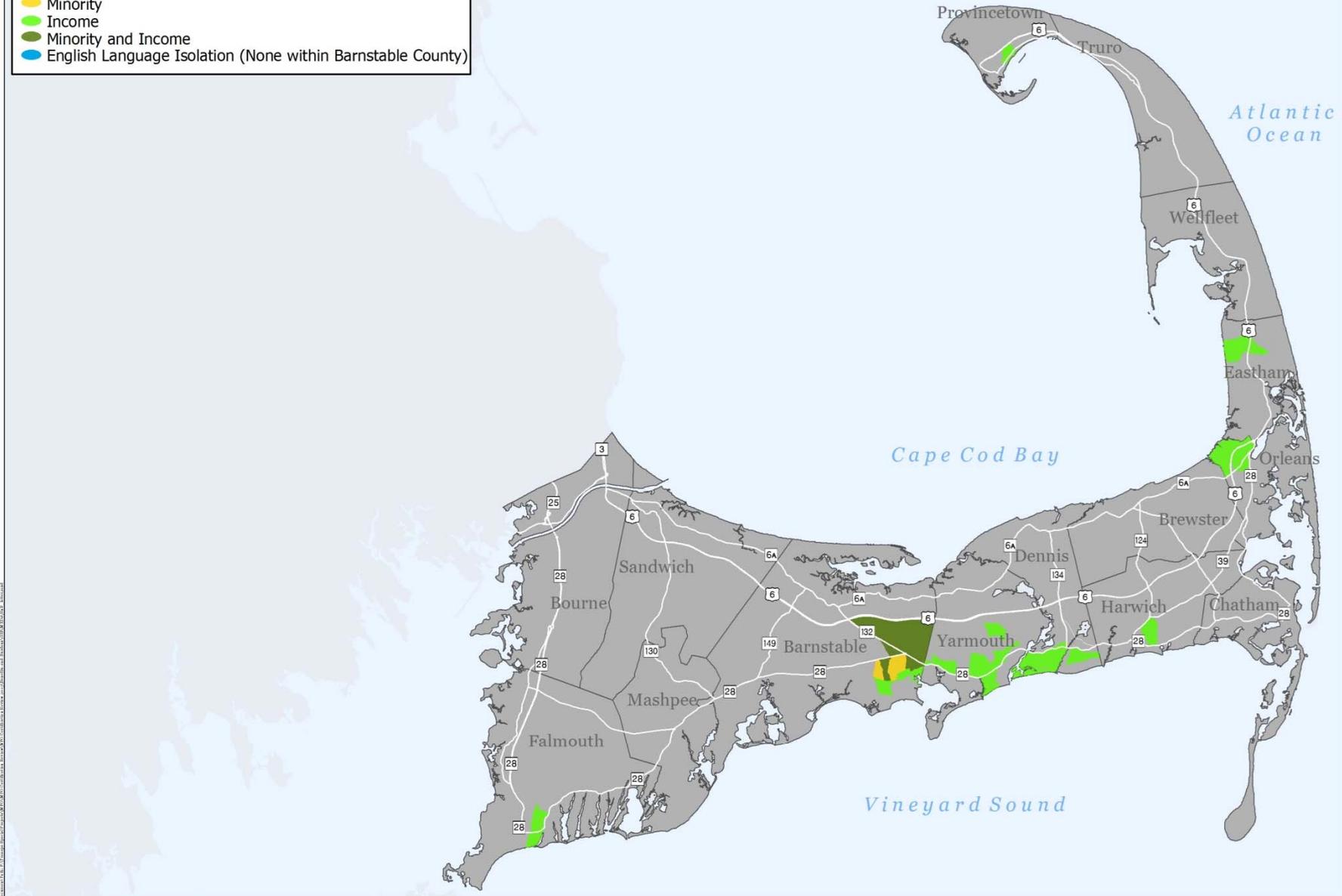
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Title VI Compliance Plan January 2013 Update

| REQUIREMENT | COMMENTS | Status | Timeframe for completion (Short, Medium, Long) |
|---|---|---|--|
| Provide non-discrimination policy statement and notification to public of Title VI obligations & protections against discrimination | Drafted a new policy statement for CCMPO based on model language per MassDOT. New policy statement to be incorporated into amended Environmental Justice/Title VI section of the Public Participation Plan (PPP). | Complete. Statement available on website. | Short |
| Develop Title VI complaint procedures | Drafted new complaint procedures with CCC Title VI coordinator as complaint contact. Revised per MassDOT OCR to provide MassDOT (and/or MCAD) as complaint contact. Procedure and contact info will be incorporated into PPP. | Complete. Procedures incorporated into non-discrimination policy statement. | Short |
| Record complaints, investigations, lawsuits | Maintaining a log is less applicable now that MassDOT is contact, but CCC will track any complaints, investigations, lawsuits received through MassDOT OCR. | Complete | Short |
| Notify beneficiaries of protections under Title VI | Notification consists of a brief policy statement with Title VI protections & contact info to be placed on agendas, meeting notices, etc. | Complete | Short |

Environmental Justice 2010 Populations

- Minority
- Income
- Minority and Income
- English Language Isolation (None within Barnstable County)



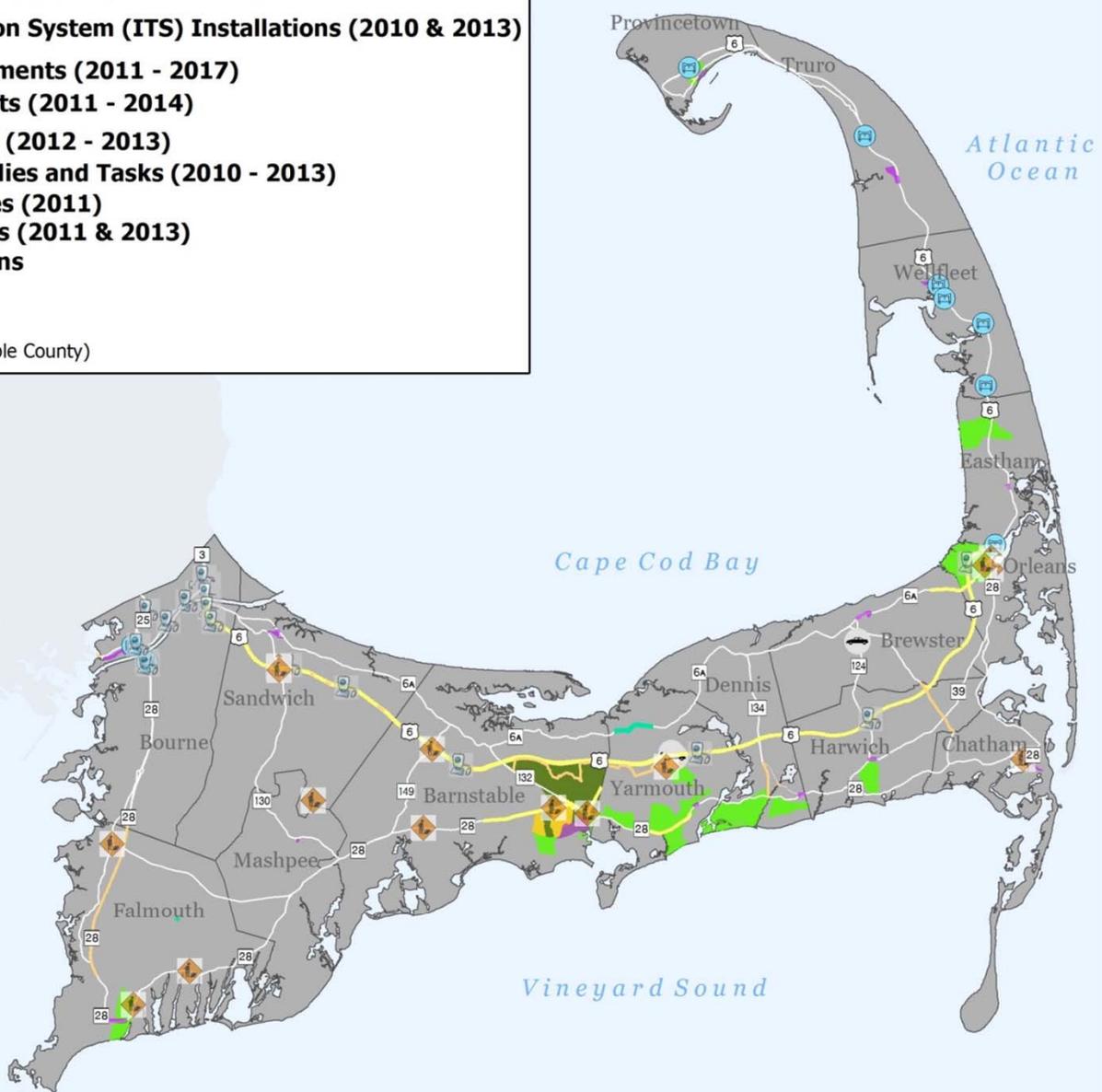
Census 2010 Environmental Justice Populations

The information depicted on these maps is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel level analysis. It should not substitute for actual on-site survey, or separate deed research.

Date: 11/13/2013
User: sgoulet



-  **MassDOT TIP Specific Location Improvements (2010 - 2017)**
-  **MassDOT TIP Intelligent Transportation System (ITS) Installations (2010 & 2013)**
-  **MassDOT TIP Road Segment Improvements (2011 - 2017)**
-  **MassDOT UPWP Road Segment Projects (2011 - 2014)**
-  **MassDOT UPWP Town Center Projects (2012 - 2013)**
-  **MassDOT UPWP Specific Location Studies and Tasks (2010 - 2013)**
-  **MassDOT RSA Specific Location Studies (2011)**
-  **MassDOT RSA Road Segment Projects (2011 & 2013)**
- Environmental Justice 2010 Populations**
 -  Minority
 -  Income
 -  Minority and Income
 -  English Language Isolation (None within Barnstable County)



Barnstable County TIP, UPWP and RSA Projects & Census 2010 Environmental Justice Populations

The information depicted on these maps is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel level analysis. It should not substitute for actual on-site surveys, or supervisory deed research.

Date: 11/14/2013
User: sgoulet

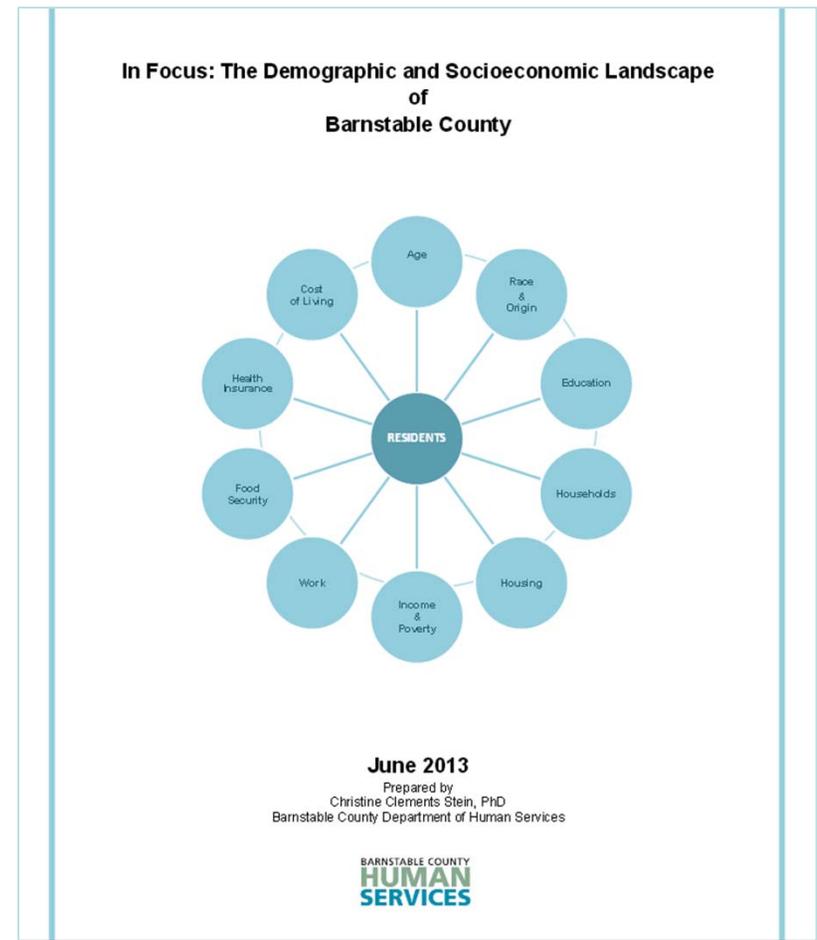


Language Assistance Plan



CAPE COD
COMMISSION

- Draft County Plan under development
- 4 Factor Analysis for county departments
- Refine to meet MPO needs





12:00-12:45

Lunch Break

12:45-1:15

Public Participation Process

Public Participation Process



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COMMISSION

**Public Participation Plan
guides public process of
each CCC project**

**CCC staff currently
updating public
participation plan to
address Title VI and
expanded outreach goals**



Public Participation Process



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COMMISSION

PPP Document includes:

- **Overview of MPO Structure**
- **Regional Context**
- **New Goals and Strategies for:**
 - Meeting Environmental Justice/Title VI requirements including translation strategies/document availability
 - Methods for collecting feedback
 - Information on public meetings

Public Participation Process



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COMMISSION



- **Assessment of PPP effectiveness:**
 - Some ideas include surveys, data collection, development of measures
 - Looking for FHWA guidance
- **Process for responding to public input**
 - Currently, MPO responds to all significant public input
- **Form subcommittee of MPO?**

1:15-3:00

**Metropolitan Planning Process
& Key documents**

Important Documents



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COMMISSION

Regional Transportation Plan (RTP) — a long-range, 20 year, plan for the region.

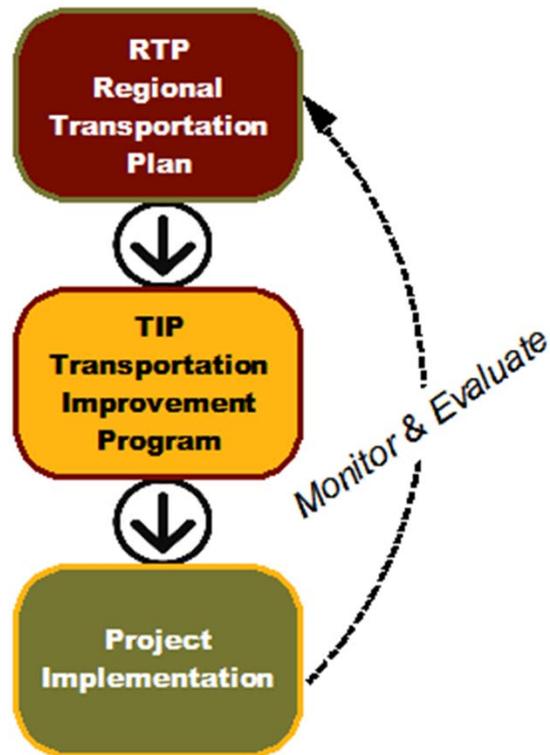
Transportation Improvement Program (TIP) — a short range, 4 year, program of projects within available financial resources.

Unified Planning Work Program (UPWP) — an annual program of MPO staff planning activities to be accomplished during the next year.

Congestion Management Process



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“MPOs were created in order to ensure that existing and future expenditures for transportation projects and programs were based on a continuing, cooperative and comprehensive (3-C) planning process.”

The Transportation Planning Process: Key Issues / A Briefing Book for Transportation Decision makers, Officials, and Staff

Transportation Planning Capacity Building Program, FHWA and FTA, Sept. 2007

Congestion Management Process: Online Resource



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**Cape Cod Metropolitan
Planning Organization
(MPO)**

**Cape Cod Joint
Transportation
Committee (CCJTC)**

**Regional
Transportation Plan
(RTP)**

**Transportation
Improvement Program
(TIP)**

**Unified Planning Work
Program (UPWP)**

Projects

Safety

**Congestion
Management**

Traffic Counts

Smart Transportation

Congestion Management

Site Search



Information on this page is provided to help travelers avoid congested areas and to help transportation officials identify and improve travel throughout the region.

» Access to Real-time Information

- **Dial 511 for Real-Time Traffic Conditions in Massachusetts:**



Travelers heading to Cape Cod or anywhere in Massachusetts can use the Massachusetts Department of Transportation (MassDOT) 5-1-1 number to receive the latest on traffic congestion on your route. *Dial 511 on any cell phone in Massachusetts -- or -- dial one of these local phone numbers: Metro Boston (617) 986 - 5511; Central Mass (508) 499 - 5511; and Western Mass (413) 754 - 5511.* You can also go to the MassDOT web site www.mass511.com to sign up for real-time traffic conditions for alerts and gain access to a Mass511 application for smart phones.

- **US Army Corps of Engineers Social Media Updates on Cape Cod Canal Bridge Work:**

Facebook: www.facebook.com/CorpsNewEngland
Twitter: twitter.com/CorpsNewEngland

- **MassDOT's Traffic Cameras:**

- Route 6 East - 0.5 mile West of Route 6A, Sagamore
- Route 6 East - 200 feet West of Route 6A, Sagamore
- Route 6 West - North of Sagamore Bridge, Sagamore
- 45 State Road, Sagamore Depot, Sagamore
- Route 3 South at Exit 1, Sagamore



- **MassDOT Roadway Events** (planned and current construction events)



*For more information or
to report congested areas,
please send e-mail to:*

trans@capecodcommission.org

Transportation Announcements

**Volunteers Needed for Counting Users of
Cape Bicycling/Walking Trails**

CCC is seeking volunteers to contribute to
its new Citizens Bicycle &...
[read more >>](#)

Congestion Management Process: Examples



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- **Belmont Circle**
- **Hyannis Access Study**
- **Route 28/Yarmouth Road**

Congestion Management Process: Belmont Circle



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Belmont Circle - Existing Configuration with Approximate Dimensions
Bourne, MA



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The information depicted on these maps is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel level analysis. It should not substitute for actual on-site survey, or approved deed research.

Drawn: shopper

Date: 6/28/2012

Congestion Management Process: Hyannis Access Study - *Implementation*



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Congestion Management Process: Route 28/Yarmouth Road Intersection



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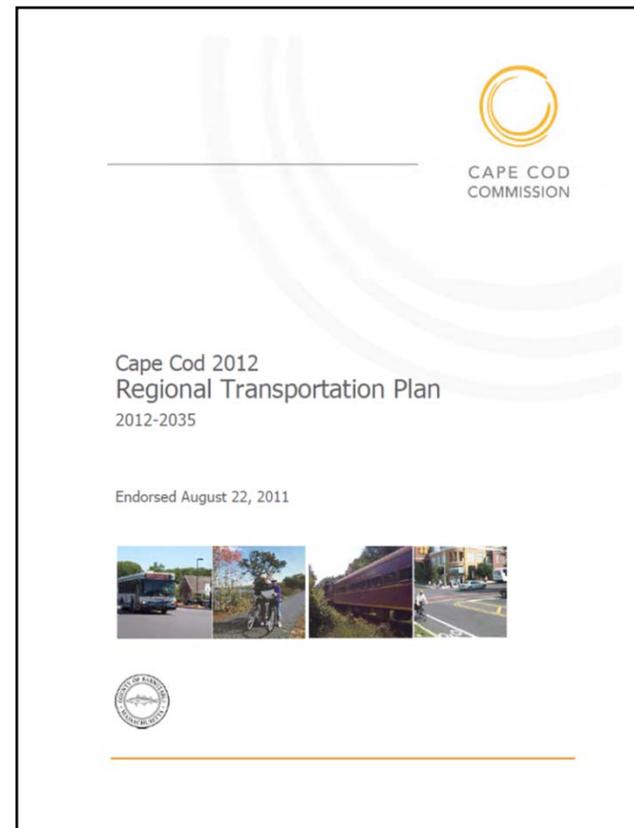
Regional Transportation Plan (RTP)



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Long-range, 20 year, transportation plan, updated once every four years, that considers:

- All transportation modes
(Walk, Bike, Car, Bus, Ferry, Airplane, Train)
- Existing conditions
- Problem areas (safety, congestion)
- Planning factors
- Air Quality Conformity
- Financially constrained
- Public input
- Recommended policies, problem area solutions and/or alternatives



More info at:

www.capecodcommission.org/departments/technicalservices/transportation/rtp

RTP Focus Workshops



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- Panel Presentations by Cape Cod Commission Staff and Stakeholders:

Cape Rail, Barnstable Municipal Airport, Cape Air, HyLine Cruises, Cape Cod Regional Transit Authority, Plymouth & Brockton Street Railway, Massachusetts Department of Transportation, MassBike

**Cape Cod Metropolitan Planning Organization
Regional Transportation Plan
Public Workshop Series**



**Focus on:
RAIL, AIR, & FERRY TRANSPORTATION**

Monday, July 19, 2010 • 10:00 AM
Hyannis Transportation Center
215 Hyannis Road, Hyannis MA 02601

Speakers Representing:
Cape Rail • Barnstable Municipal Airport
HyLine Cruises • Cape Cod Commission

- Cape Cod Regional Transportation Plan
- Projects to Improve Rail, Air, & Ferry
- Public Comments
- Questions & Suggestions

**Cape Cod Metropolitan Planning Organization
Regional Transportation Plan
Public Workshop Series**



**Focus on:
PUBLIC TRANSPORTATION**

Monday, July 19, 2010 • 3 PM
Hyannis Transportation Center
215 Hyannis Road, Hyannis MA 02601

Speakers Representing:
Cape Cod Regional Transit Authority
Plymouth & Brockton Street Railway
Massachusetts Department of Transportation

- Cape Cod Regional Transportation Plan Overview
- Transportation on Cape Cod

**Cape Cod Metropolitan Planning Organization
Regional Transportation Plan
Public Workshop Series**



**Focus on:
BICYCLING & PEDESTRIAN ISSUES**

Saturday, June 26, 2010 • 1:30 PM
Hyannis Transportation Center
215 Hyannis Road, Hyannis MA 02601

Lev Malakhoff & Clay
Cape Cod Commission

- Cape Cod Regional Transportation Plan
- Grand List of Projects to Improve
- Public Comments
- Questions & Suggestions

This event is part of MassBike's
"Cape Cod Bicycle" Series
Starting at 9:00 AM
Details: www.massbike.org/about

**Cape Cod Metropolitan Planning Organization
Regional Transportation Plan
Public Workshop Series**



**Focus on:
ROADWAYS & THE ENVIRONMENT**

Wednesday, July 28, 2010 • 3 PM
Hyannis Transportation Center
215 Hyannis Road, Hyannis MA 02601

Speakers Representing:
Massachusetts Department of Transportation
Cape Cod Commission

RTP Public Meetings



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Cape Cod Metropolitan Planning Organization
Meetings beginning in July 2010

Cape Cod Joint Transportation Committee
Meetings beginning in February 2010

Regional Transportation Plan Public Meetings:

- August 16, 2011 – 3:30 PM – Cape Cod Commission Office (Barnstable)
- Thursday, March 18, 2010 – 1:30 PM – **Bourne Memorial Community Center**
- Tuesday, March 16, 2010 – 4:00 PM – **Hyannis Transportation Center**
- Monday, March 15, 2010 – 7:00 PM – **Salt Pond Visitors' Center (Eastham)**

CCJTC Projects Review Subcommittee - **Hyannis Transportation Center**

- Friday, February 4, 2011 - 10 AM

Transportation Public Meeting – Cape Cod Commission office, Barnstable

- Tuesday, January 4, 2011 – 4:00 PM

RTP Public Meetings (continued)



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COMMISSION

National Park Service – Teleconference with Denver Service Center @ Cape Cod Commission office, Barnstable

- **Tuesday, December 14, 2010 – 2:00 PM**

Transportation Open House – Cape Cod Commission office, Barnstable

- **Thursday, August 12, 2010 – 1:30 PM**

Orleans Traffic Safety Committee - Orleans Police Department

- **Wednesday, May 26, 2010 - 10 AM**

Harwich Board of Selectmen - Harwich Town Hall

- **Monday, May 24, 2010 - 7:15 PM**

Sandwich Bicycling Committee - Sandwich Hollows Function Room

- **Tuesday, May 4, 2010 - 7 PM**

MassDOT State Transportation Plan Workshop - [Hyannis Transportation Center](#)

- **Tuesday, April 20, 2010 - 6 PM**

Regional Transportation Plan (RTP)

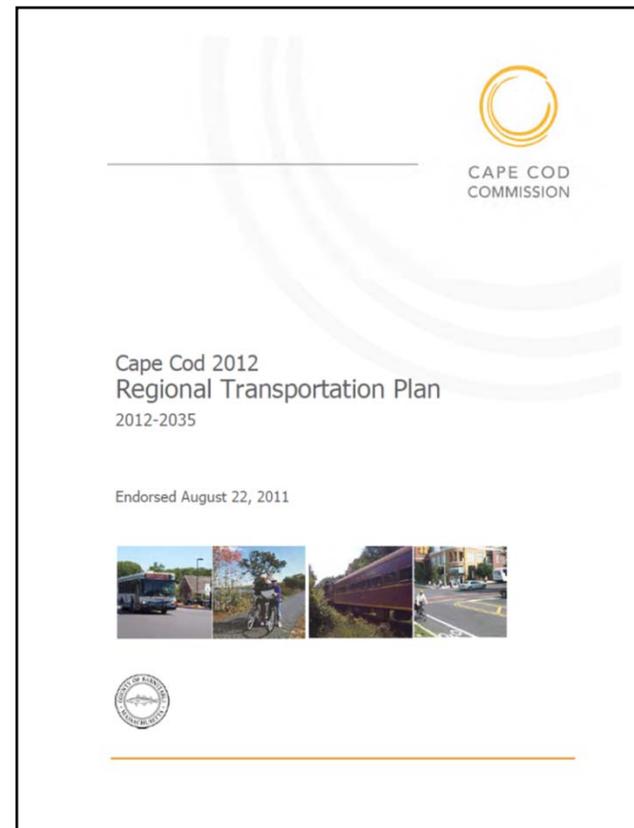


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- 34 Transportation Programs
- 139 Transportation Projects
- 21 Transportation Smart Solutions
- 28 Transportation Studies

Total Funding 2012-2035

- Highway: \$964M
- Transit: \$182M



More info at:

www.capecodcommission.org/departments/technicalservices/transportation/rtp

Ranking of RTP Projects

RTP Chapter 7: Alternatives



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CCJTC Subcommittee
was established to
draft priorities
developed through
public input,
consistent with RTP
Goals



RTP Chapter 7: Projects Ranking



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COMMISSION

Printed: 6/14/2011

Projects

Cape Cod Regional Transportation Plan

| RTP# | Type Rank | TOWN | Title | Description | Category | Ann. Cost /yr (\$K) | Start Cost (\$K) | Total Cost (\$K) |
|------|-----------|--|---|--|------------------------|---------------------|------------------|------------------|
| 3802 | Project 1 | Barnstable | Hyannis Access Improvements | Improve access to downtown Hyannis per Hyannis Access Study. Construct 2 additional travel lanes w/landscaped median on Yarmouth Road to connect from existing 4-lanes in Yarmouth to Route 28 in Hyannis. Includes multi-use path and sidewalk. | Highway | | 50,000 | 50,000 |
| 3305 | Project 2 | Bourne | Rte 6 Reconfigure Interchange One | Improve westbound on-ramp near Sagamore Bridge during peak times for off-cape traffic flow. Route 6, Exit 1: Reconfigure WB on-ramp | Highway | | 11,500 | 11,500 |
| 3302 | Project 3 | Capewide | Cape Cod Rail Trail Extensions | Extend Cape Cod Rail Trail from Bourne to Provincetown via new bike path, including direct connection to Hyannis Transportation Center | Bicycle/ Pedestrian | | 74,000 | 74,000 |
| 4085 | Project 4 | Bourne | Route 25 Access Ramp Widening/Belmont Circle Modification | Widen Route 25 Ramps to 2 lanes in each direction. Modify Belmont Circle to 2-way travel. Construct pedestrian underpass at Route 25 Ramps. Per 2007 "Buzzards Bay Village Comprehensive Transportation Plan." | Highway | | 5110 | 5,110 |
| 4011 | Project 5 | Sandwich Barnstable Yarmouth | Route 6 Hydroplaning | Route 6 stormwater improvements to remove runoff from traveled way, including construction of shoulders as needed | Safety | | 10,000 | 10,000 |
| 3306 | Project 6 | Capewide | Year-Round Daily Rail Service | Implement year-round daily rail service from Hyannis to Buzzards Bay, Middleborough (connect to Boston), Providence, RI, (connect to T.F. Green Airport and N.Y. City) | Rail | 1,000 | 3,000 | 26,000 |
| 3319 | Project 6 | Capewide | Transportation Management Center | Design & construct Operations Center to monitor traffic operations, issue real-time reports to traveling public, control variable message signs and coordinated traffic signals | ITS/ Management | | 6,450 | 6,450 |
| 3332 | Project 8 | Orleans, Eastham, Wellfleet, Truro, Provincetown | Rte 6 Improvements Orleans to Provincetown | Implement improvements in the corridor between Orleans and Provincetown per the <i>Rte 6 Safety and Traffic Flow Study</i> | Highway | | 5,000 | 5,000 |

Financial Constraint

RTP Chapter 8: Recommendations & Financial Plan



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COMMISSION

- Estimate of available highway funds provided by MassDOT
- Estimate of available transit funds provided by CCRTA/MassDOT
- Highway funding breakdown:
 - Regional Discretionary
 - Major Infrastructure
- Funding timeframes by 5-year “bands”



CAPE COD
COMMISSION

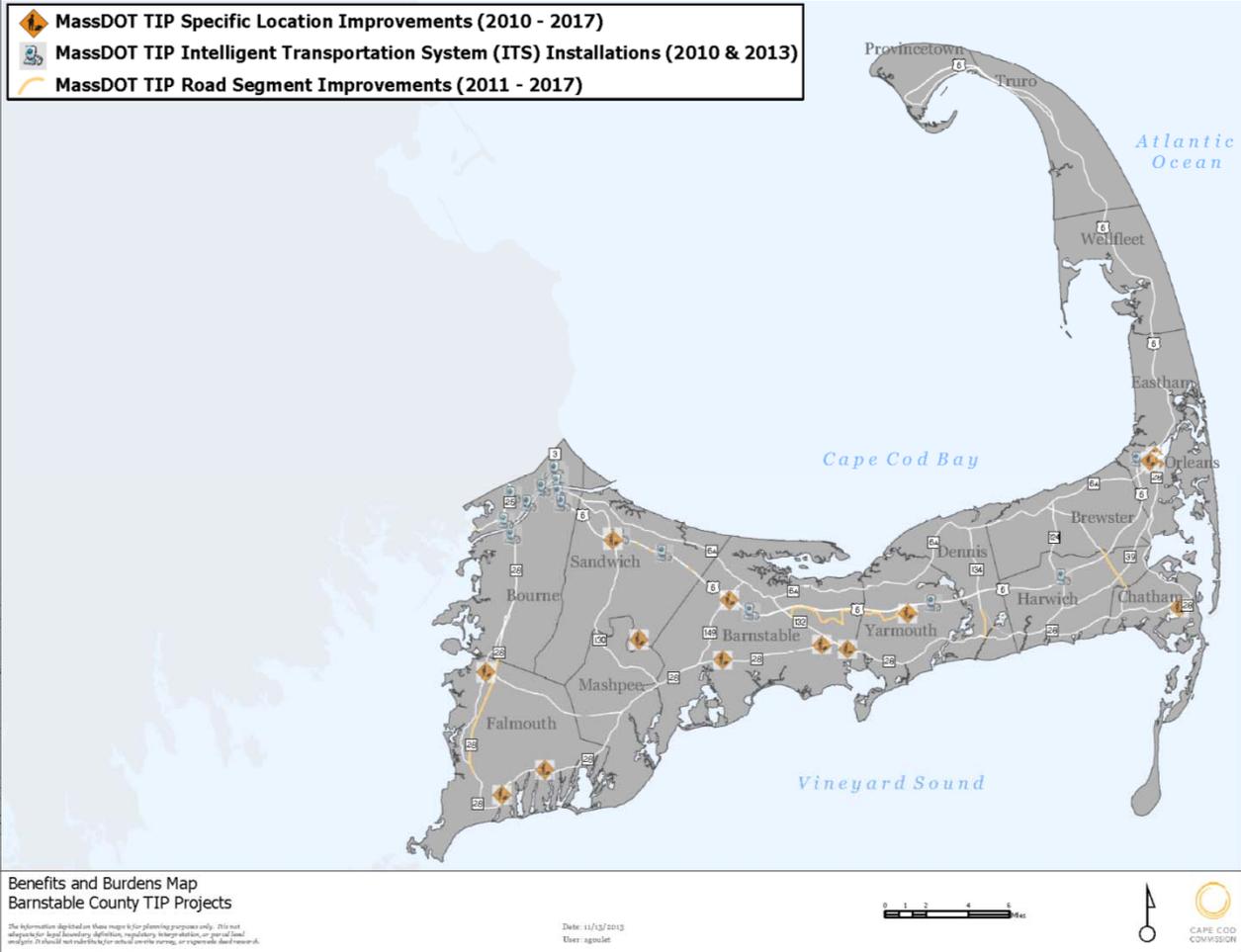
RTP Chapter 8: Allocation of Funding

| Project / Program | 2012 Total Estimated Cost | Year of Expenditure (YOE) Estimated Cost | Regional Discretionary Source Amount | Major Infrastructure Source Amount | Total YOE Estimated Cost | Years of Funding Source |
|--|---------------------------|--|--------------------------------------|------------------------------------|--------------------------|-------------------------|
| Barnstable: Hyannis Access Improvements Phase I #3802 | \$ 6,378,549 | \$7,462,000 | \$ 0 | \$7,462,000 | \$7,462,000 | 2012-2015 |
| TIP Projects | | \$32,619,000 | \$32,619,000 | | \$32,619,000 | 2012-2015 |
| Subtotal Funding | \$6,378,549 | \$40,081,000 | \$32,619,000 | \$7,462,000 | \$40,081,000 | 2012-2015 |
| Barnstable: Hyannis Access Improvements Phase II #3802 | \$43,621,451 | \$55,195,052 | \$45,166,052 | \$10,029,000 | \$55,195,052 | 2016-2020 |
| TIP Projects | | \$5,585,948 | \$5,585,948 | | \$5,585,948 | 2016-2020 |
| Subtotal Funding | \$43,621,451 | \$60,781,000 | \$50,752,000 | \$10,029,000 | \$60,781,000 | 2016-2020 |
| Bourne: Route 6 Reconfigure Interchange One #3305 | \$11,500,000 | \$18,411,871 | \$8,259,871 | \$10,152,000 | \$18,411,871 | 2021-2025 |
| Capewide: Cape Cod Rail Trail Extensions #3302 Phase I | \$22,422,816 | \$35,899,651 | \$30,899,651 | \$5,000,000 | \$35,899,651 | 2021-2025 |
| TIP Projects | | \$32,723,478 | \$32,723,478 | | \$32,723,478 | 2021-2025 |
| Subtotal Funding | \$33,922,816 | \$87,035,000 | \$71,833,000 | \$15,152,000 | \$87,035,000 | 2021-2025 |
| Capewide: Cape Cod Rail Trail Extensions Phase II #3302 | \$6,265,854 | \$12,205,261 | \$12,205,261 | \$0 | \$12,205,261 | 2026-2030 |
| Bourne: Route 25 Access Ramp Widening/Belmont Circle Modification #4085 | \$5,110,000 | \$9,953,772 | \$0 | \$9,953,772 | \$9,953,772 | 2026-2030 |
| Sandwich Barnstable Yarmouth : Route 6 Hydroplaning #4011 | \$10,000,000 | \$19,479,005 | \$10,918,777 | \$8,560,228 | \$19,479,005 | 2026-2030 |
| Capewide: Transportation Management Center #3319 | \$6,450,000 | \$12,563,958 | \$12,563,958 | \$0 | \$12,563,958 | 2026-2030 |
| Orleans, Eastham, Wellfleet, Truro, Provincetown: Route 6 Improvements #3332 | \$5,000,000 | \$9,739,502 | \$9,739,502 | \$0 | \$9,739,502 | 2026-2030 |
| Bourne: Otis Rotary Area Improvements #3315 | \$5,000,000 | \$9,739,502 | \$9,739,502 | \$0 | \$9,739,502 | 2026-2030 |
| TIP Projects | | \$35,000,000 | \$35,000,000 | | \$35,000,000 | 2026-2030 |
| Subtotal Funding | \$37,825,854 | \$108,681,000 | \$90,167,000 | \$18,514,000 | \$108,681,000 | 2026-2030 |

Transportation Improvement Program (TIP)



CAPE COD COMMISSION



More info at: www.capecodcommission.org/departments/technicalservices/transportation/tip

“HIGHWAY” Projects → TIP (Transportation Improvement Program)

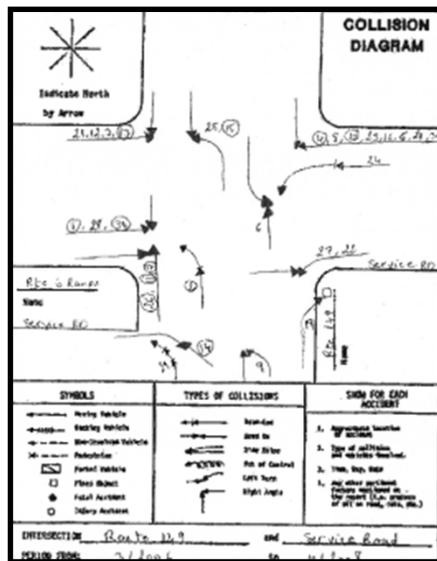


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COMMISSION

Step 1 – Project Idea / CCC staff will assist in preparing a Project Need Form (PNF).

STEP

- 4
- 3
- 2
- 1

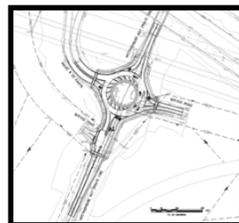
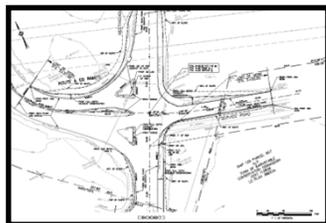


“HIGHWAY” Projects → TIP (Transportation Improvement Program)



CAPE COD
COMMISSION

Step 2 – A Project Information Form (PIF) is prepared by Town and CCC staff.



COMMONWEALTH OF MASSACHUSETTS
MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

PROJECT INITIATION FORM

Project File Number: _____

Part I: Summary Information

A. Proponent Information

Municipality/Agency submitting form: _____

Municip. Contact: _____ Completed by: _____
 Title: _____ Title: _____
 Department: _____ Representing: _____
 Email: _____ Email: _____
 Phone: _____ Phone: _____

B. Geographic Location of Proposed Project or Program (check all that apply)

Highway Division District: Statewide District 3
 District 1 District 4
 District 2 District 5

MPO: Statewide Merrimack Valley MPO
 Berkshire MPO Montachusett MPO
 Boston Region MPO Nantucket
 Cape Cod MPO N. Middlesex MPO
 Central Mass MPO Old Colony MPO
 Franklin County TPO Pioneer Valley MPO
 Martha's Vineyard Southeastern Mass MPO

Municipality(ies): _____

C. Maximum Geographic Extent or Coverage of the Project or Program (Check one)

Statewide
 MassDOT Highway Division Districtwide
 Entire Metropolitan Planning Organization
 Regional Transit Authority district
 Municipality(ies) only

MassDOT Highway Division Page 1 of 13 November 2009

STEP

- 4
- 3
- 2
- 1

“HIGHWAY” Projects → TIP (Transportation Improvement Program)



CAPE COD
COMMISSION

Step 3 –Favorable recommendation from the CCJTC moves the project to consideration by the Cape Cod MPO.

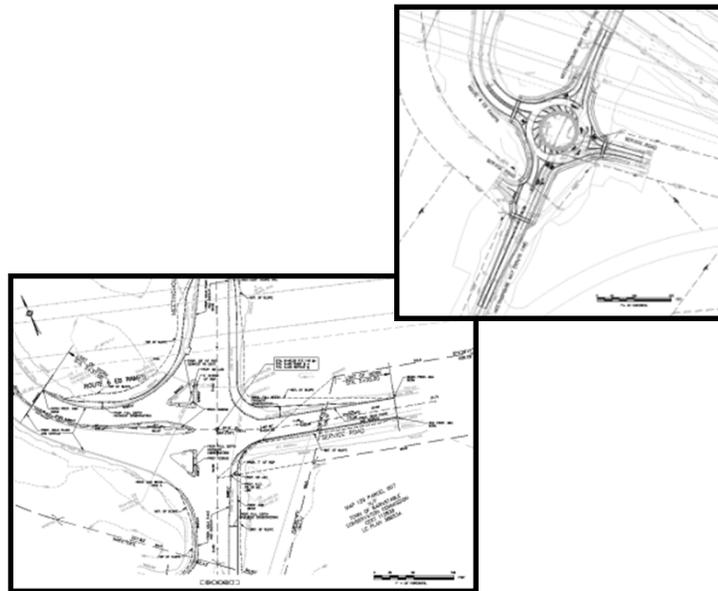
STEP

4

3

2

1



“HIGHWAY” Projects → TIP (Transportation Improvement Program)

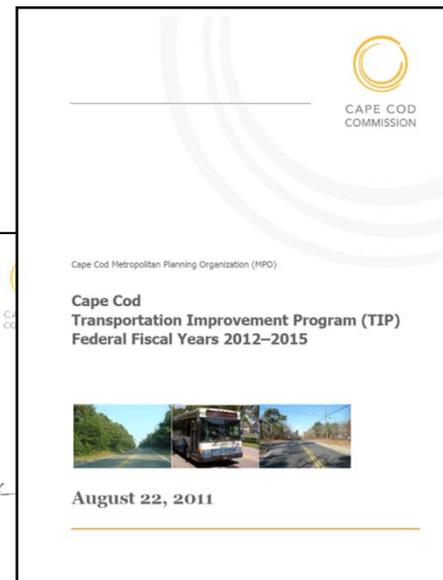


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COMMISSION

Step 4 – Project is listed on the TIP, MPO votes to endorse, and the TIP is included in the State Transportation Improvement Program (STIP).

STEP

- 4
- 3
- 2
- 1



“TRANSIT” Projects → TIP (Transportation Improvement Program)



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COMMISSION

Step 1 – Transit projects originate with the Cape Cod Regional Transit Authority (CCRTA) identifying location, project type, and reason.



STEP



“TRANSIT” Projects → TIP (Transportation Improvement Program)



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COMMISSION

Step 2 – Favorable recommendation from the CCJTC moves the project to consideration by the Cape Cod MPO.

STEP



“TRANSIT” Projects → TIP (Transportation Improvement Program)



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COMMISSION

Step 3 – Project is listed on the TIP, MPO votes to endorse, and the TIP is included in the State Transportation Improvement Program (STIP).

STEP

- 3
- 2
- 1



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Cape Cod Metropolitan Planning Organization (MPO)

**Cape Cod
Transportation Improvement Program (TIP)
Federal Fiscal Years 2012–2015**

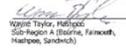


August 22, 2011

Cape Cod Metropolitan Planning Organization (MPO)
CAPE COD TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

SIGNATORY CERTIFICATION:

Date: August 22, 2011

| | |
|--|--|
|  Jeffrey B. Mullis, Secretary, CEO Massachusetts Department of Transportation (MassDOT) |  Francis A. DeRubeis, P. E., Administrator NewDOT Highway Division |
|  Peter Graham, Chairman Cape Cod Commission |  Vincent Polach, MPO Representative Barnstable County Commission |
|  Ronald J. Berggren, Chairman Cape Cod Regional Transit Authority |  Jason Slinn, Representative Mashpee Wampanoag Tribal Council |
|  Frederick Chipolo, Chairman Bourneville Town Council |  Wyatt Taylor, Mattapoisett Supervisor & Boardman, Falmouth, Mattapoisett, Sandwich |
|  Lawrence P. Gok, Ph.D., Director San Rafael B. (Barnstable, Chatham, Dennis, Haverhill, Yarmouth) |  Arlene Eckman, Executive Sub-Region C (Barnstable, Dukes, Provincetown, Truro, Wellfleet) |

July–August 2011 | Cape Cod TIP for FY 2012–2015 Page 4

RTP ➔ TIP Consistency Project Flow



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COMMISSION



RTP → TIP Consistency



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COMMISSION

RTP Projects

RTP Programs

Large TIP Projects
(examples shown below)

Over \$10M

- Route 132 Boulevard
- Mitchell River Bridge

Smaller TIP Projects
(examples shown below)

Intersection Improvements

- Exit 5 Roundabout
- Old Town House Road/Forest Road

Additional CCRTA Service

- Outer Cape Bike Shuttle
- Bourne & Sandwich route expansions

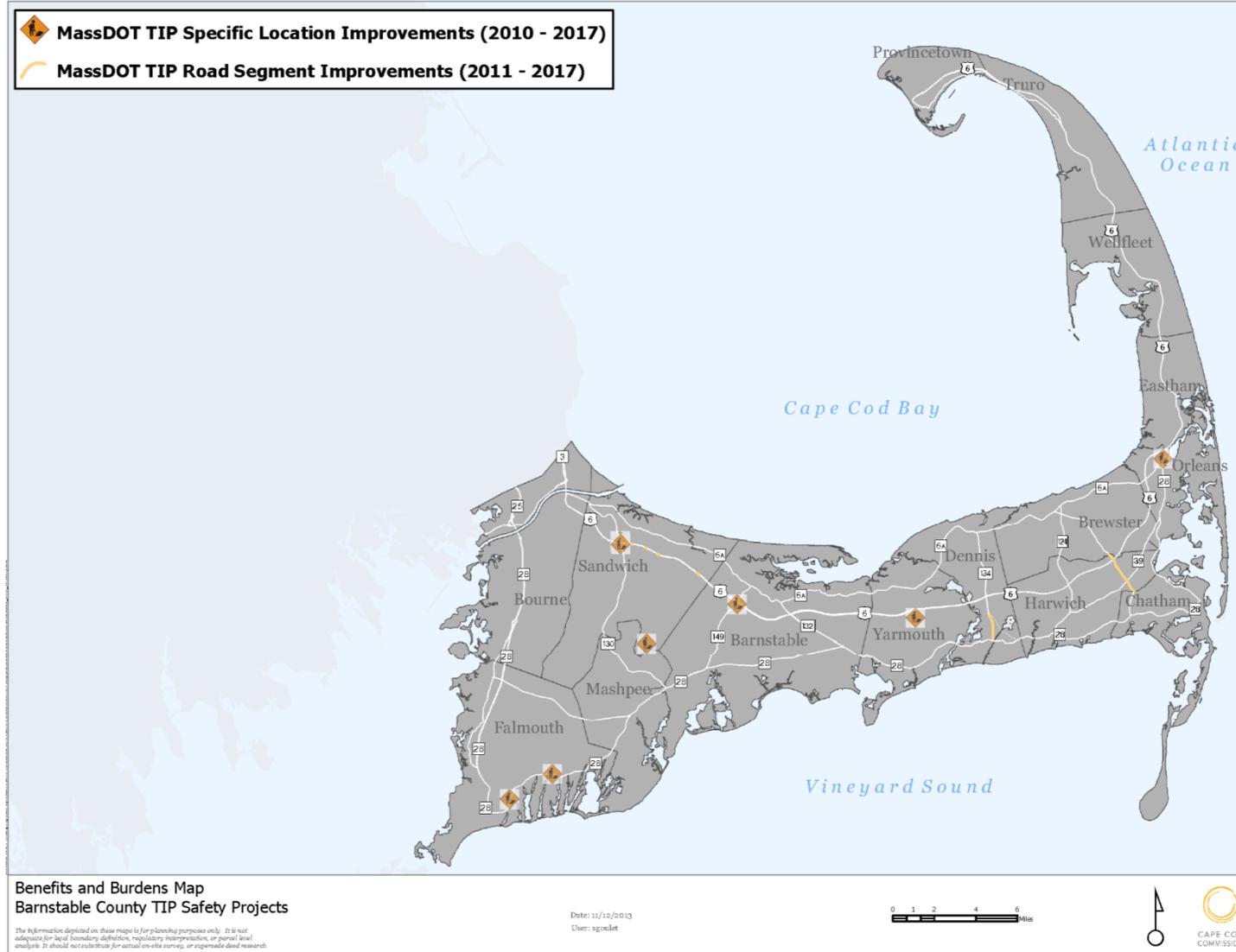
Cape-wide Intelligent Transportation Systems

- Canal Area Real-Time Traveler Information

Map of Tip Safety Projects



CAPE COD
COMMISSION



Recent Safety Studies



CAPE COD
COMMISSION

- Road Safety Audits in Eastham, Brewster, Yarmouth, Barnstable, Falmouth, Sandwich, Bourne
- Various Speed Studies
- Bourne Rotary Study
- Hyannis Access Study
- Analysis of Select Locations on Route 6 in Wellfleet



50 Top Crash Locations Identified and Progress Tracked



CAPE COD
COMMISSION



CAPE COD
COMMISSION

Barnstable County High Crash Locations

July 2010
Updated March 2012





COMMISSION

INDEX OF INTERSECTION NOTES

TABLE 1: INDEX OF INTERSECTION NOTES

| Note | Intersection | Town | Notes |
|------|---|------------|--|
| 1 | Route 6 (Mid-Cape Highway) @ Route 132 (Iyannough Road) - Exit 6 | Barnstable | Signalization; TIP year 2005, 2006, 2007 |
| 2 | Route 6 (Mid-Cape Highway) @ Route 134 (East West Dennis Road) - Exit 9 | Dennis | RSA 2009 |
| 3 | Otis Air Force Base Rotary @ Rt 28 / Sandwich Rd / Connery Ave | Bourne | CCC Safety Study 2006 |
| 4 | Route 6 (Mid-Cape Highway) @ Willow Street - Exit 7 | Yarmouth | Additional lanes; TIP year 2004 |
| 5 | Route 6 (Mid-Cape Highway) @ Route 149 (Prospect Street) - Exit 5 | Barnstable | RSA conducted 2010; under design, TIP year 2010 |
| 6 | Route 6 (Mid-Cape Highway) @ Route 130 (Forestdale Road) - Exit 2 | Sandwich | CCC Safety Study 2008; RSA 2009; under design; TIP year 2010 |
| 7 | Route 28 (Falmouth Road) @ Bearses Way | Barnstable | RSA conducted 2009; under review by town |
| 8 | Route 28 (Falmouth Road) @ Route 149 (Prospect Street) | Barnstable | Signal design; construction 2010; TIP year 2009 |
| 10 | Route 28 (Falmouth Road) @ South County Road | Barnstable | Signal design; construction 2010; TIP year 2009 |
| 11 | Route 28 (Iyannough Road) @ Yarmouth Road | Barnstable | New design concepts recommended in Hyannis Access Study; part of Yarmouth Road Corridor Study |
| 12 | Route 134 (East West Dennis Road) @ Upper County Road | Dennis | RSA 2010; TIP year 2012 |
| 14 | Route 132 (Iyannough Road) @ Shoot Flying Hill Road | Barnstable | Route 132 construction relocated intersection - TIP year 2005, 2006, 2007 |
| 15 | Airport Rotary @ Rt 132 / Rt 28 EB/WB / Barnstable Rd | Barnstable | New design concepts recommended in Hyannis Access Study |
| 16 | Rt 132 (Iyanough Road) @ Phinneys Lane | Barnstable | Upgrade signals/additional lanes 2009; TIP year 2005, 2006, 2007 |
| 17 | Route 132 (Iyannough Road) @ Independence Road / Enterprise Road | Barnstable | Left turn lane added to 132 southbound |
| 18 | Eastham Rotary @ Rt 6A/28 / Rt 6, Smith Ln | Eastham | CCC Safety Study 2009; recommendations included in Route 6 Outer Cape Safety and Traffic Flow Study 2004 |
| 19 | Route 28 (Falmouth Road) @ Old Stage Road | Barnstable | RSA 2007 |
| 20 | Route 28 (Chatham Road) @ Route 6A (Cranberry Highway) | Orleans | CCC Safety Study 2006; TIP year 2012 |
| 21 | Route 28 (Main St / Iyannough Rd) @ East Main Street | Yarmouth | Recommendations included in Route 28 Safety and Traffic Flow Study 2006 |
| 22 | Route 28 (Falmouth Road) @ Phinneys Lane | Barnstable | RSA 2007 |
| 23 | Route 28 (Main Street) @ Route 134 / Swan River Road | Dennis | Added left turn lanes and new signal phasing, pedestrian improvements 2009/2010 |

Cape Cod Safety Projects FFY 2010-2013

| FFY | Town | Location/Description | Source | SHSP Emphasis |
|------|------------|---|--------------------|--|
| 2010 | Barnstable | Roundabout Construction at Intersection of Rt 149 & Rt 6 (EB) Exit Ramp | HSIP | Intersections, Driver Safety Awareness |
| 2010 | Sandwich | Intersection & Signal Improvements @ 2 Locations at Rt 130 Ramps/Rt 6 | STP | Intersections |
| 2011 | Sandwich | Rt 6, Cable Barrier Installation | HSIP | Lane Departures, Head-On and Cross Median Crashes, Minimizing Consequences of Leaving Road |
| 2011 | Harwich | Reconstruction of Rt 137 from Queen Anne Road to the Brewster T.L. | STP-U | Bicycles, Pedestrians |
| 2011 | Sandwich | Intersection Safety Improve & Rel. Work, South Sandwich, Cotuit & Harlow Rds | HSIP | Intersections |
| 2012 | Yarmouth | Intersection & Signal Improvement at Old Town House Rd and Forest Rd | HSIP | Intersections |
| 2012 | Dennis | Reconstruction on East West Dennis Rd (Rt 134) from Main St (Rt 28) to Upper County Rd | CMAQ TE HSIP | Bicycles, Pedestrians |
| 2013 | Orleans | Roundabout Improvements at Routes 28 & 6A | CMAQ HSIP | Intersections |
| 2013 | Falmouth | Intersection Improvements at East Falmouth Highway (Route 28), Davisville Road & Old Meetinghouse Road and Intersection Improvements at Teaticket Highway (Route 28) and Jones Road/Worcester Court | CMAQ | Intersections |

Bottleneck Projects



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- Route 132 Boulevard Project



- Route 28 at Yarmouth Road
- Canal area



Low Cost Options



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- Bourne Rotary restriping plan
- Shank Painter Road project – Provincetown
- Yarmouth Route 6A safety project
- Mitigation required through Development of Regional Impact review process





3:00-3:15

15 minute Break

3:15-4:15

Interagency Transportation Coordination

MPO Coordination – Regional Planning Partners



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dcr
Massachusetts



15 Municipalities



community development partnership



4:15-4:30
Closing Remarks

In Closing



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- **Cape Cod MPO and Cape Cod Commission staff, with the support of its state and federal partners,**
 - remain dedicated to improving transportation in the regional through a cooperative, continuing, and comprehensive planning approach;
 - look forward improving the planning process by incorporating the principles of MAP-21;
 - welcome an opportunity to expand our public outreach and participation processes to all Barnstable County residents; and,
 - as always, work to “keep a special place special.”

Comments or questions:



CAPE COD
COMMISSION

Comments may be sent to either FHWA or FTA at the addresses below. If you submit comments you should indicate the general nature of your involvement with the Cape Cod MPO.

FHWA: Ms. Pamela Stephenson, Division Administrator
55 Broadway, 10th Floor, Cambridge, MA 02142

or via email: michael.chong@dot.gov

FTA: Ms. Mary Beth Mello, Regional Administrator
55 Broadway, Suite 920, Cambridge, MA 02142

or via email: nicolas.garcia@dot.gov