

# 2016 Cape Cod Regional Transportation Plan Development

13 FEBRUARY 2015

CAPE COD JOINT  
TRANSPORTATION  
COMMITTEE



CAPE COD  
COMMISSION



# REGIONAL TRANSPORTATION PLAN (RTP)

- + Long-range plan (2016-2040)
- + Includes all modes
- + Establishes the regional vision
- + Programs infrastructure projects within available funding

## TRANSPORTATION INFRASTRUCTURE FOR CAPE COD

# RTP DEVELOPMENT: PRESENTATION OUTLINE

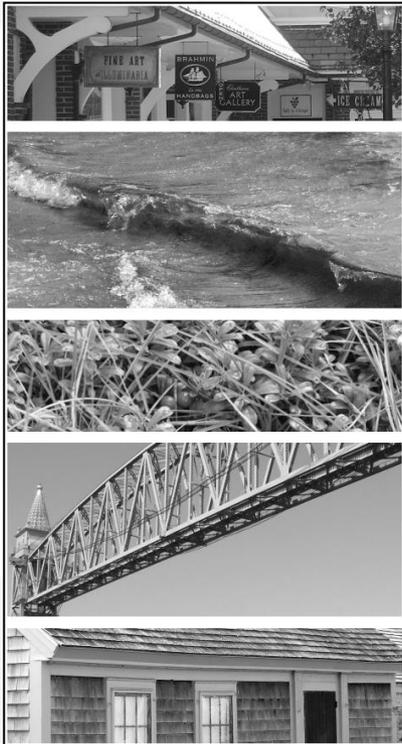
- + Background
- + Process
- + Schedule
- + Document Outline
- + Vision Statement
- + Goals, Objectives, & Performance Measures
- + Next Steps



## BACKGROUND: FEDERAL FOCUS AREAS

- + Performance Measures
- + Access to essential services
- + Regional Cooperation
- + Scenario Planning
- + Livability and Climate Change
- + Title VI & Public Participation

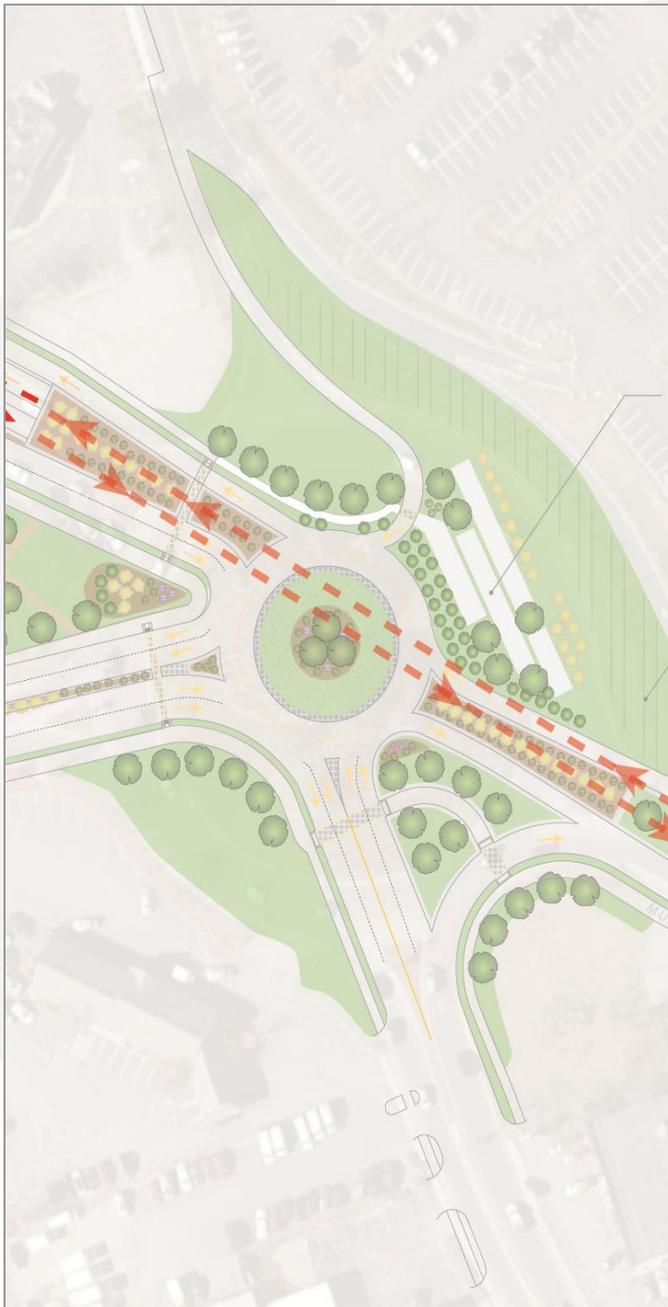
# BACKGROUND: RPP CONNECTION



## The Regional Policy Plan (RPP):

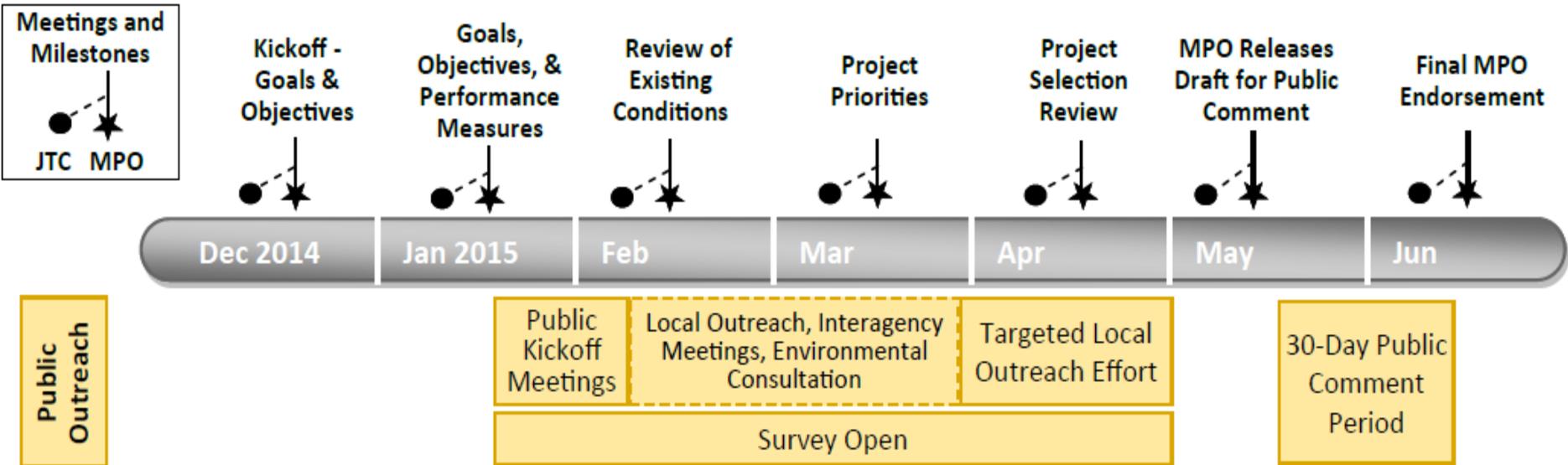
- + “Establishes a coherent set of goals, policies, and standards to guide planning and development on Cape Cod in a way that will protect its resources.”
- + Defines “a strategy that will maintain and improve a transportation system . . . that is safe, convenient, accessible, cost effective, and consistent with the Cape’s historic, scenic, and natural resources.”
- + Vision for Cape Cod is reflected in the RTP so that instruments of change in both documents set a course to the transportation system envisioned in the documents

# RTP UPDATE PROCESS: KEY POINTS



- + Endorsed required by the MPO
- + Developed by MPO staff in consultation with the MPO and JTC
- + Extensive stakeholder and public input sought throughout the process

# RTP UPDATE SCHEDULE: OVERVIEW



# RTP UPDATE SCHEDULE: MILESTONES

<b>Milestone</b>	<b>Completion Date</b>
<b>RTP Outline</b>	December 2014
<b>Draft Goals and Objectives</b>	December 2014
<b>Public Outreach</b>	January-April 2015
<b>Draft Performance Measures</b>	January 2015
<b>Draft Chapters 1- 4 &amp; Technical Appendices</b>	March 2015
<b>Draft Chapters 5 &amp; 6</b>	April 2015
<b>Draft RTP</b>	May 2015
<b>30 Day Public Comment</b>	May/June 2015
<b>RTP Endorsement</b>	June 2015

# RTP DOCUMENT OUTLINE

## **Executive Summary**

**Chapter 1:** Introduction and Plan Development

**Chapter 2:** Goals and Objectives

**Chapter 3:** Cape Cod and Transportation – Past , Present, and Future

**Chapter 4:** Scenario Planning, Livability, and Climate Change

**Chapter 5:** Performance Based Planning/ Project Analysis

**Chapter 6:** Financial Plan

## **Technical Appendices:**

- A. Historical Context
- B. Existing Conditions
- C. Safety
- D. Security
- E. Freight
- F. Bicycle & Pedestrian Issues
- G. Congestion Management
- H. Stormwater Management
- I. Pavement Management
- J. Access to Essential Services and Regional Cooperation
- K. Title VI
- L. Transportation Project Analysis
- M. Air Quality Conformity
- N. Public Comments on Draft RTP



## Vision Statement

Establishes the overarching vision of the plan



## Goals

Expands on the Vision Statement in seven areas of emphasis



## Objectives

Defines focused elements of the Goals



## Performance Measures

Tracks progress in achieving the Objectives



## Strategies and Policies

Details an approach to meet the Performance Measures

Performance-Based  
Planning

# DRAFT VISION STATEMENT

The Cape Cod Metropolitan Planning Organization envisions a transportation system that supports the environmental and economic vitality of the region through infrastructure investment that focuses on livability, sustainability, equity, and preservation of the character that makes our special place special.



# DRAFT GOALS

- ⚙️ Safety
- ⚙️ Environmental and Economic Vitality
- ⚙️ Livability and Sustainability
- ⚙️ Multimodal Options/Healthy Transportation
- ⚙️ Congestion Reduction
- ⚙️ System Preservation
- ⚙️ Freight Mobility

## Goal 1: Provide safe travel options for all users

- Reduce the number and severity of crashes associated with all modes of transportation
- Reduce serious injuries and fatalities associated with all modes of transportation



Reduce crashes, injury crashes, fatal crashes, and crashes involving bicycles and pedestrians by **10% in 10 years**



# Environmental and Economic Vitality



## Goal 2: Maintain, protect, and enhance the natural environment while strengthening the economy

- Minimize negative impacts of the transportation system on the natural environment
- Reduce Greenhouse Gas (GHGs) generated by all transportation modes



**50% of TIP projects** reduce GHG's and provide overall benefits to the natural system



Image adapted from Arlington VA ([www.arlingtonva.us](http://www.arlingtonva.us))

# Environmental and Economic Vitality



## Goal 2: Maintain, protect, and enhance the natural environment while strengthening the economy

- Improve stormwater management and treatment in all transportation improvement projects



**50% of TIP projects** outside of sensitive embayments and **100% of TIP projects** within sensitive embayments provide improved stormwater management and treatment

- Improve connections between housing, job, cultural centers, and essential services within and beyond the region



Improve signal operations along key corridors. **2 every 5 years.**  
Close gaps in the bicycle/pedestrian network. **2 every 5 years.**



Image adapted from Arlington VA ([www.arlingtonva.us](http://www.arlingtonva.us))

# Livability and Sustainability

## Goal 3: Support livable communities and village centers that strengthen the long-term sustainability of the region

- Support mixed-use development in compact village centers



**25% of TIP projects** improve access to or with village centers

- Improve coastal resiliency of the transportation system



**All TIP projects** consider potential impacts of sea level rise during the 25% design review



# Livability and Sustainability

## Goal 3: Support livable communities and village centers that strengthen the long-term sustainability of the region

- Develop a transportation system that is consistent with the local character of Cape Cod and respects the region's reliance on tourism



**All TIP projects** provide meaningful opportunities for local input including public meeting prior to development of design plans and throughout the design process



# Multimodal Options/Healthy Transportation

## Goal 4: Provide a variety of healthy transportation options to all users

- Improve accessibility of all modes to all users



Improve ADA compliant intersections by **10% in 10 years**

- Expand and close gaps in the bicycle and ADA-accessible sidewalk network



Close gaps in the bicycle/pedestrian network. **2 every 5 years.**



# Multimodal Options/Healthy Transportation

## Goal 4: Provide a variety of healthy transportation options to all users

- Improve coordination between all mode



**Five** Multimodal Group meetings **per year**

- Increase the share of travel by means other than the single occupancy vehicle



**Triple** the share of travel by bicycling, walking, and transit **by 2030**



# Congestion Reduction

## Goal 5: Reduce congestion and improve travel time reliability

- Reduce delay for all modes



Reduction in congestion index for Route 6.  
**10% in 10 years**

- Improve connectivity and reliability for all modes of transportation



Improve ADA-compliant sidewalk access to bus stops by **10% in 10 years**.  
Improve operations at bottleneck locations. **2 every 5 years**



# Congestion Reduction

## Goal 5: Reduce congestion and improve travel time reliability

- Minimize the impacts of construction delays on all users, particularly impacts of Cape Cod Canal Bridge maintenance



Implementation of advanced construction techniques for Cape Cod Canal Bridge maintenance projects to **reduce construction impacts by 25%** compared to standard construction practices



# System Preservation

## Goal 6: Preserve, maintain, and modernize the existing transportation system

- Improve the condition of all bridges



Reduce the number of "Structurally Deficient" and "Functionally Obsolete" bridges by **10% in 10 years**

- Improve the pavement condition on all federal-aid eligible roadways



Improve the regional pavement condition index by **10% in 10 years**

- Maintain and improve on and off road bicycle and pedestrian facilities



Reduce the miles of multi-use paths and sidewalks in poor or very poor condition by **10% in 10 years**



# System Preservation

## Goal 6: Preserve, maintain, and modernize the existing transportation system

- Use modern technology to improve transportation efficiency



Bring online **10 new** permanent counting station in **10 years**

- Improve coordination and cooperation between agencies throughout all phases of project development and implementation for all improvement and maintenance project



**Adoption** of an MOU between the MPO and MassDOT outlining how TIP and non-TIP work in the region (including maintenance projects) will be communicated to the MPO and how local input will be addressed by MassDOT



CCTV 01 Route 6 at the sagamore Bridge Connector - 01-01-09

CCTV 01 Route 6 at the sagamore Bridge Connector - 01-01-09

Westbound

Eastbound

# Freight Mobility

## Goal 7: Improve efficiency and reliability of freight movement

- Reduce delays on the freight network
- Improve travel time reliability on the freight network



Reduce the congestion index for Route 6 by **10% in 10 years**

- Minimize Cape Cod Canal bridge maintenance impacts



Implementation of advanced construction techniques for Cape Cod Canal Bridge maintenance projects to **reduce construction impacts by 25%** compared to standard construction practices



# DRAFT GOAL, OBJECTIVES, & PERFORMANCE MEASURES **FEEDBACK**

- + Goals, Objectives, and Performance Measures will continue to be refined
- + Input throughout the process is valuable



# NEXT STEPS



# THANK YOU

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Project information available at:  
[www.capecodcommision.org/rtpupdate](http://www.capecodcommision.org/rtpupdate)