



CAPE COD  
COMMISSION

# 2020 Cape Cod Regional Transportation Plan

February 2019  
Listening Sessions

Eastham | Mashpee | Hyannis

# CAPE COD REGIONAL TRANSPORTATION PLAN

- + Long-range plan (20~25 years)
- + Includes all modes
- + Establishes the regional vision
- + Programs infrastructure projects within available funding (~\$1 Billion)
  - Approximately 25% transit funding and 75% highway funding

**TRANSPORTATION  
INFRASTRUCTURE  
FOR CAPE COD**



# RTP DEVELOPMENT: PRESENTATION OUTLINE

- + Background
- + Review of Existing Conditions
- + Schedule
- + Vision, Goals & Objectives
- + Potential Projects
- + Survey/Mapping Activity
- + Next Steps

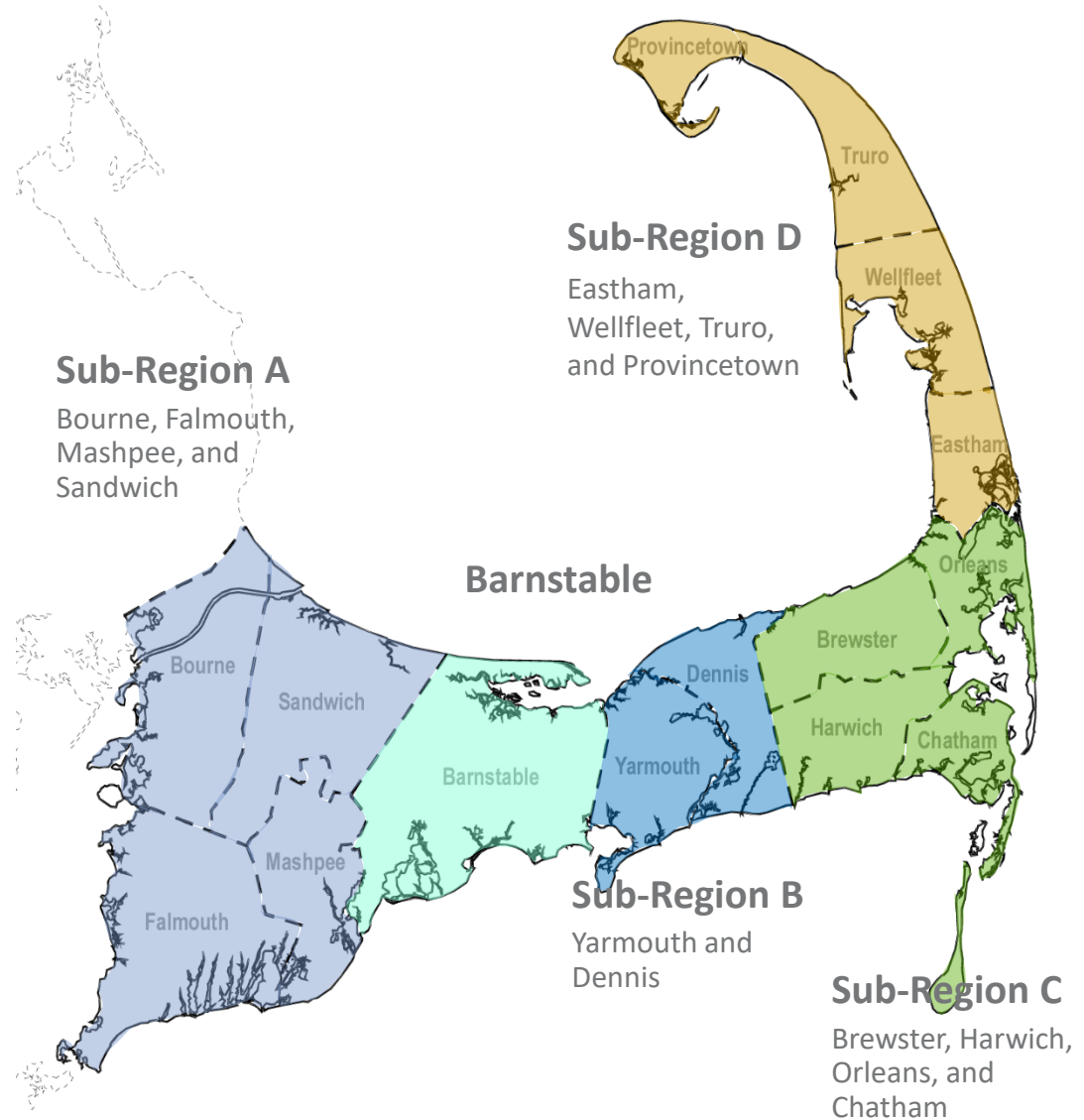
# Cape Cod Metropolitan Planning Organization

## Voting Members:

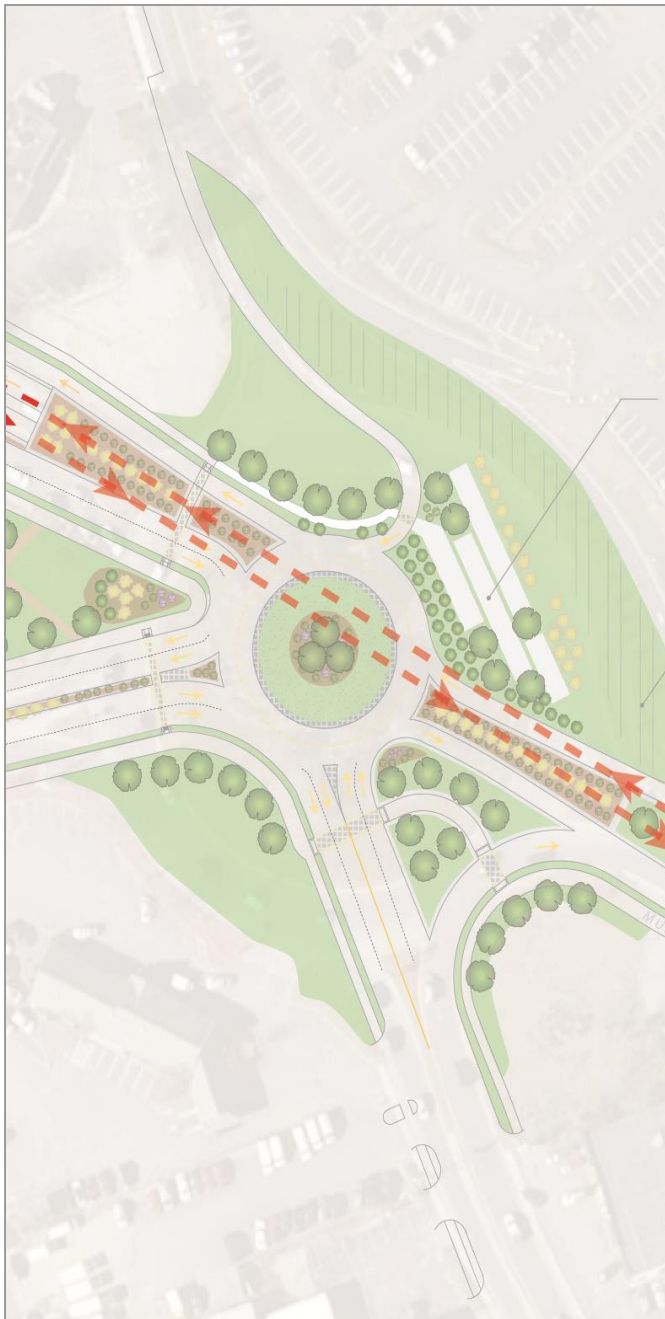
- Massachusetts Dept. of Transportation (MassDOT)
- Barnstable County Commissioner
- Cape Cod Commission
- Cape Cod Regional Transit Authority (CCRTA)
- Mashpee Wampanoag Tribe
- Community Representatives (shown on map)

## Non-Voting Members

- 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 (JTC)**

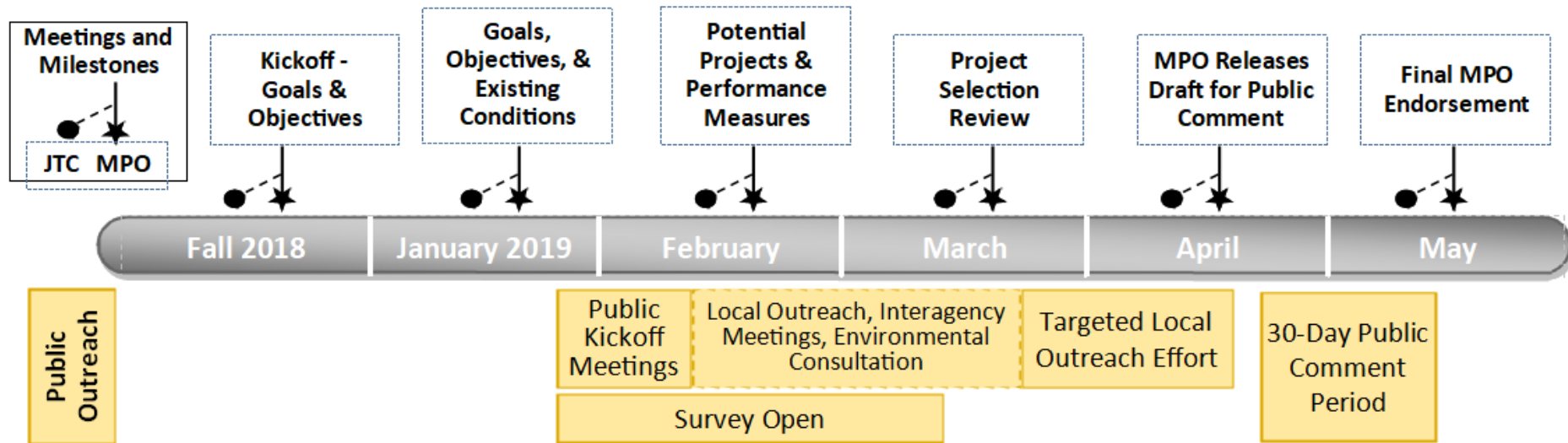


# RTP UPDATE PROCESS: KEY POINTS



- + 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

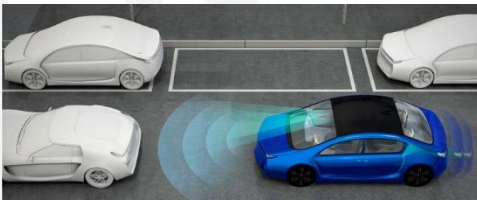
# RTP DRAFT UPDATE SCHEDULE: OVERVIEW





# What is in our Transportation Future?

- + Changing population, demographics, and land use
- + Effects of climate change
- + Technology shifts:
  - + Electric vehicles
  - + Ride sharing
  - + Autonomous vehicles
  - + Dockless bikes and scooters
- + Funding challenges
- + ...and the unknown...



# How do we shape our Transportation Future?



- + Define our regional vision
- + Understand our region and its people
- + Understand our changing world
  - + Climate Change Research
  - + Massachusetts Commission on the Future of Transportation Report
- + Take a comprehensive approach
  - + Cape Cod Regional Policy Plan
  - + Cape Cod Comprehensive Economic Development Strategy



# EXISTING CONDITIONS: BY THE NUMBERS

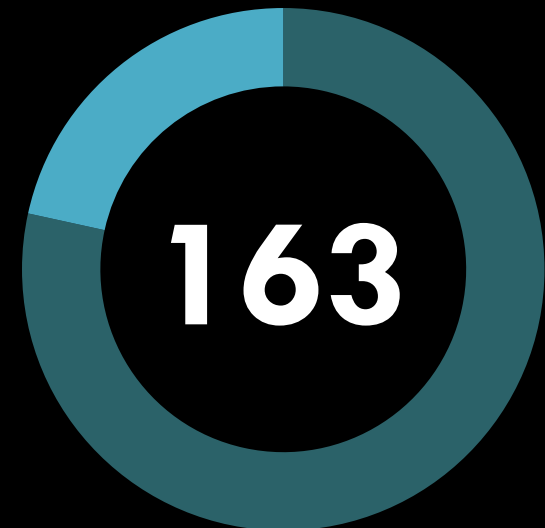
## Miles of Roadway

- 79% Local Roads
- 21% Regional Roads



## Signalized or Circular Intersections

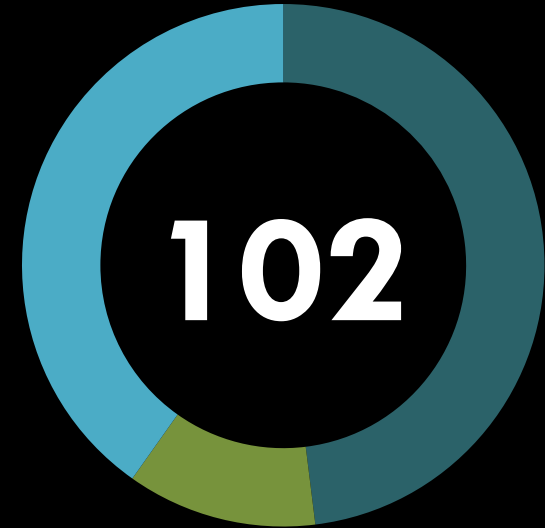
- 83% Signalized
- 17% Circular



# EXISTING CONDITIONS: BY THE NUMBERS

## Bridges

- 48% Over Roadways
- 40% Over Water
- 12% Over Railways



## Airfields and Airports

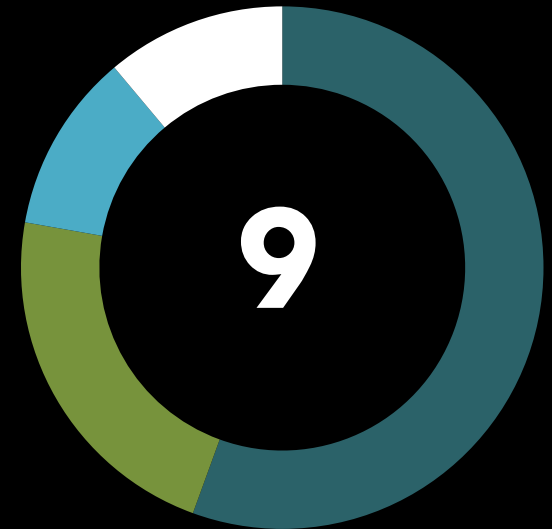
- 3 General Aviation
- 2 Scheduled Carrier Air Service
- 1 Military



# EXISTING CONDITIONS: BY THE NUMBERS

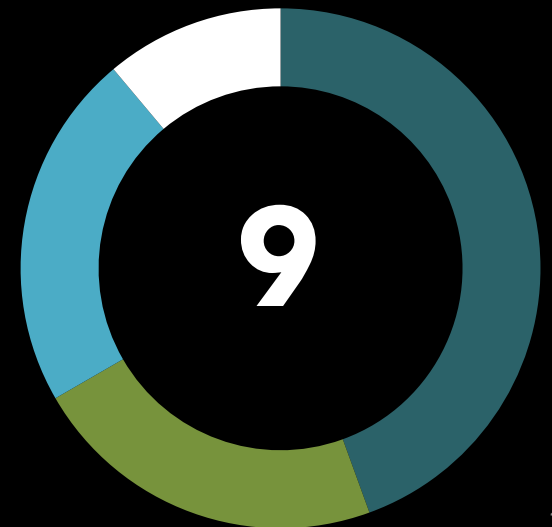
## Cape Cod Ferry Routes By Destination

- 5 Martha's Vineyard
- 2 Nantucket
- 1 Boston
- 1 Plymouth



## Cape Cod Ferry Routes By Departure Location

- 4 Falmouth (Falmouth Harbor or Woods Hole)
- 3 Hyannis (Hyannis Harbor)
- 2 Provincetown (Fisherman's Wharf)
- 1 Harwich Port (Saquatucket Harbor)

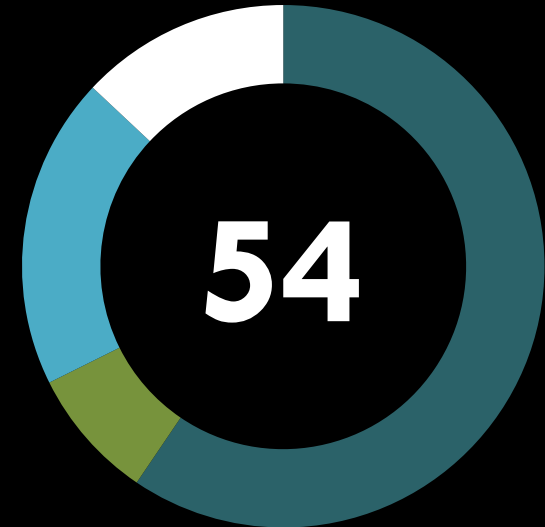




# EXISTING CONDITIONS: BY THE NUMBERS

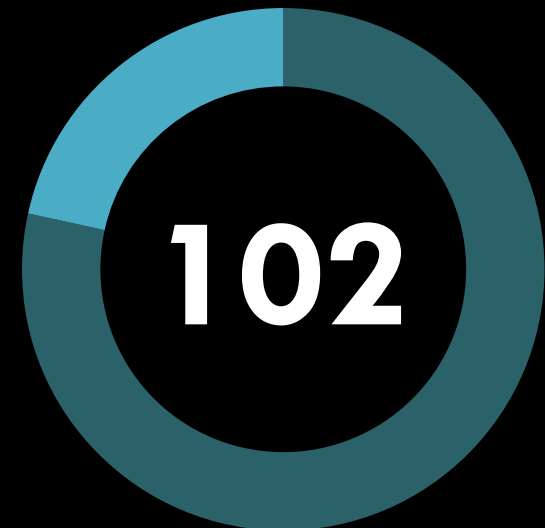
## Miles of Rail Track

- 59% Cape Cod Line
- 19% Otis Branch
- 13% Woods Hole Branch
- 8% Hyannis Branch



## Railroad Crossings

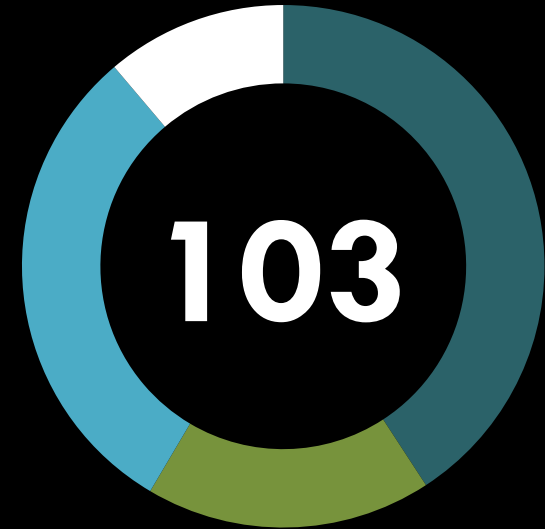
- 78% At-Grade
- 22% Grade Separated



# EXISTING CONDITIONS: BY THE NUMBERS

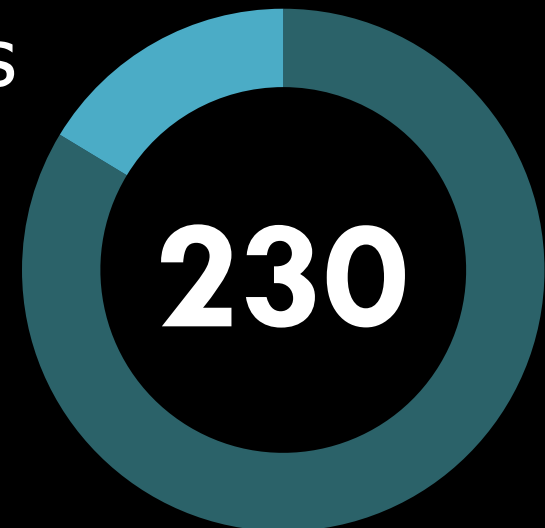
## Miles of Paved Multi-Use Paths

- 39% Cape Cod National Seashore, Nickerson State Park, Other
- 34% Cape Cod Rail Trail
- 17% Cape Cod Canal Bikeway
- 10% Shining Sea Bikeway

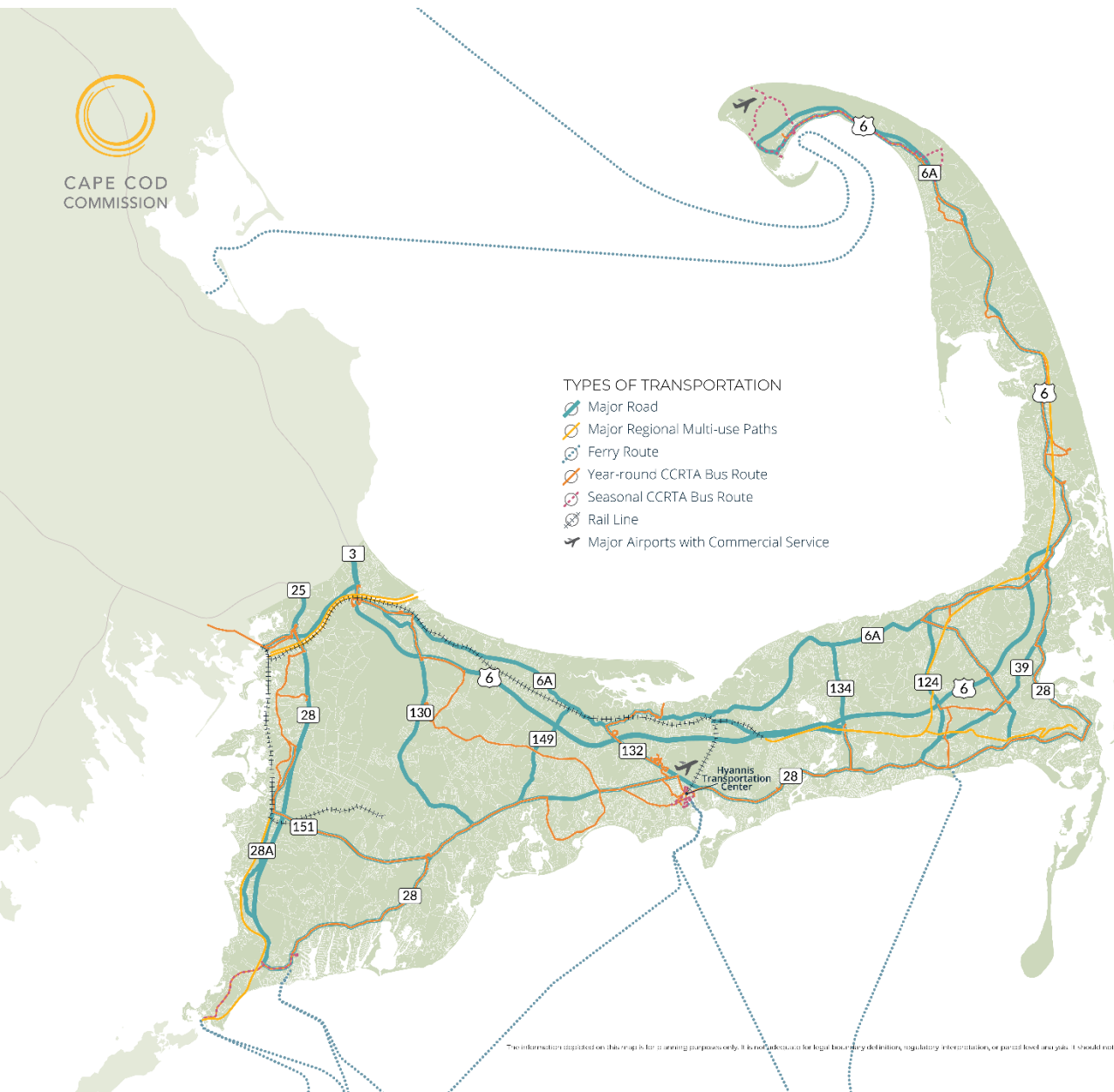


## Miles of Roadway with Sidewalks

- 83% One Side
- 17% Two Sides



# Cape Cod's Transportation Network



## ROADWAYS

3,900 miles of roadways  
80% local roads,  
20% regional roads



## BIKE &amp; PEDESTRIAN

90 miles of multi-use paths  
provide safe, separate mode for  
bicyclist and pedestrians



## MARINE

9 ferry routes link Cape Cod to Boston, Plymouth, Nantucket, and Martha's Vineyard



## PUBLIC TRANSPORTATION

Year-round and seasonal Cape  
Cod Regional Transit Authority  
bus routes and inter-city bus  
connections to Boston and  
Providence



## RAILROADS

Single line for seasonal  
passenger service to Boston,  
freight, and excursions



## AIRPORTS

2 airports with commercial service to Boston, New York, Nantucket and Martha's Vineyard

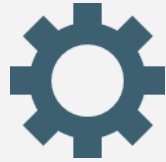
The information displayed on this page is for planning purposes only. It is not adequate for legal, fiduciary, definitions, regulatory interpretation, or permit level analysis. It should not substitute for actual on-site survey or supervised data research. Source: MassDOT, Cape Cod Commission, Cape Cod Regional Transit Authority.





## **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

# RTP VISION STATEMENT

The Cape Cod Metropolitan Planning Organization, informed by public input, 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.





# RTP GOALS

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



# SAFETY

## 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



# 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 (e.g., provision of electric vehicle charging stations)
- Improve stormwater management and treatment in all transportation improvement projects; ensure resiliency in transportation infrastructure
- Improve connections between housing, job, cultural centers, and essential services within and beyond the region



om 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 centers of activity
- Improve coastal resiliency of the transportation system
- Develop a transportation system that is consistent with the local character of Cape Cod and respects the region's reliance on tourism





# Multimodal Options/Healthy Transportation

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

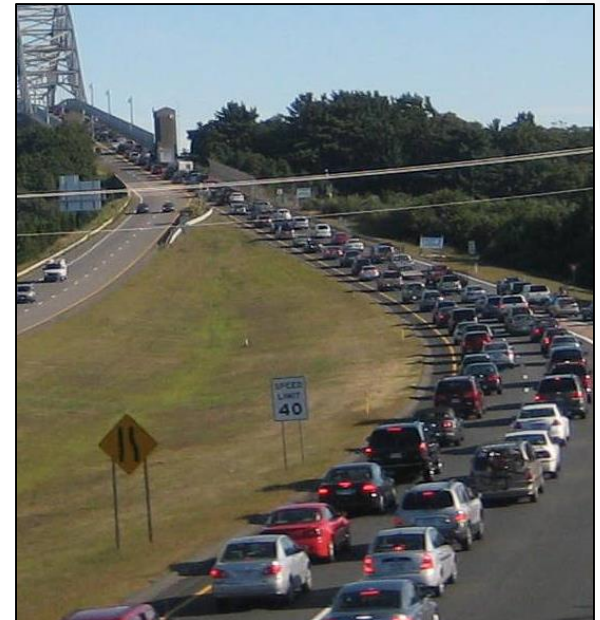
- Improve accessibility of all modes to all users
- Expand and close gaps in the bicycle and ADA-accessible sidewalk network
- Improve coordination between all modes
- Increase the share of travel by means other than the single occupancy vehicle



# Congestion Reduction

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

- Reduce delay for all modes
- Improve connectivity and reliability for all modes of transportation
- Minimize the impacts of construction delays on all users, particularly impacts of Cape Cod Canal Bridge maintenance



# System Preservation

## **Goal 6: Preserve, maintain, modernize, and ensure resiliency of the existing transportation system**

- Improve the condition of all bridges
- Improve the pavement condition on all federal-aid eligible roadways
- Maintain and improve on- and off-road bicycle and pedestrian facilities
- Use modern technology to improve transportation efficiency (e.g., autonomous vehicles, electric vehicle charging stations)
- Improve coordination and cooperation between agencies throughout all phases of project development and implementation for all improvement and maintenance projects



CCTV 01 Route 6 at the Sagamore



UPS 4800



Westbound

# 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
- Minimize Cape Cod Canal bridge maintenance impacts





# Potential Projects

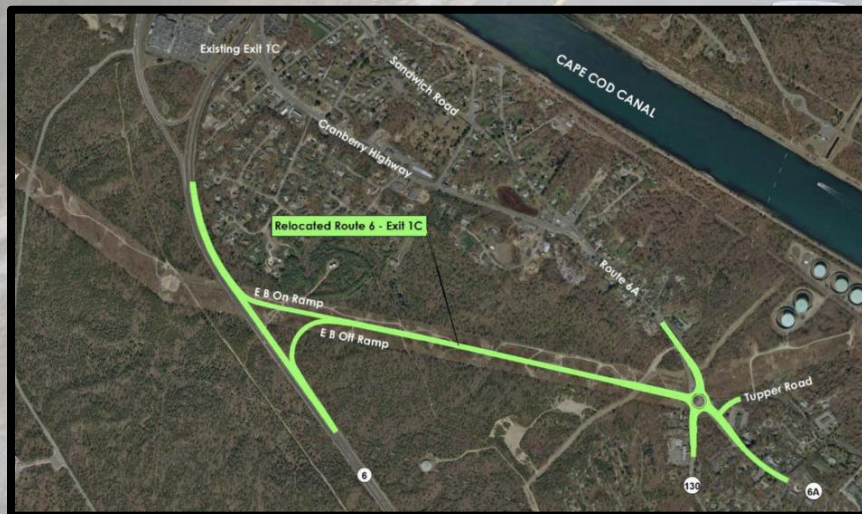
- + Scenic Highway Median Barrier
- + Bourne Rotary replacement (similar to Sagamore Rotary project)
- + Improvements to Hyannis Airport Rotary and surrounding streets





# Potential Projects

- + Reconfigured Route 6 Exit 1C interchange
- + Upgrade of ramps and addition of shoulders (Exit 1C to Exit 12)
- + Transportation monitoring and information (e.g., travel time message boards)





# Potential Projects

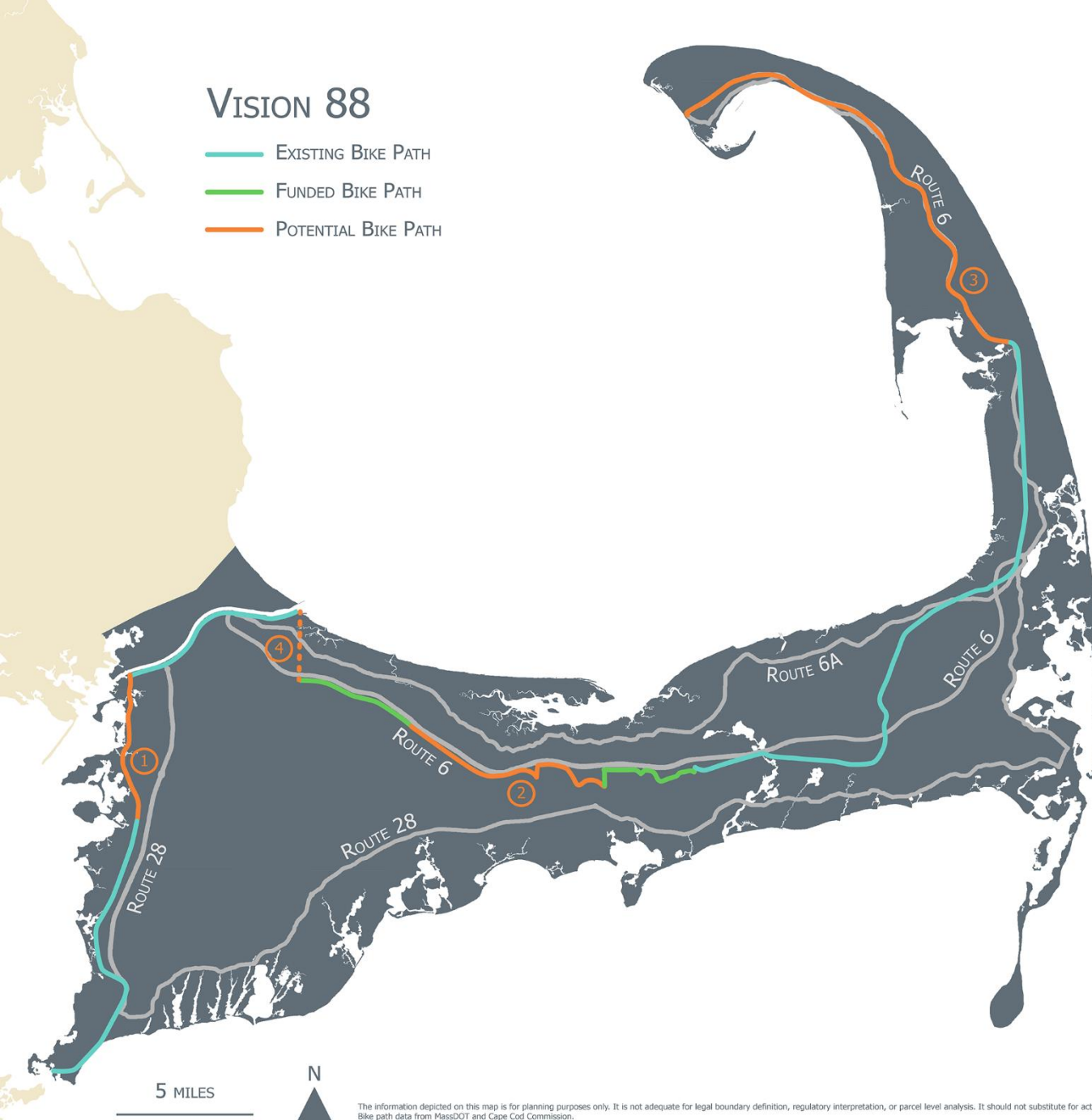
- + Additional travel lanes and multi-use path on Yarmouth Rd/Willow St
- + Extension of Cape Cod Rail Trail from S. Wellfleet to Provincetown
- + Extension of Cape Cod Rail Trail from Yarmouth to Cape Cod Canal Path
- + Bike path to connect the Shining Sea Bikeway to the Cape Cod Canal Path
- + Falmouth-Chatham: Route 28 bicycle accommodations (e.g., bike lanes, wider shoulders, "share the road" program)

# VISION 88

- EXISTING BIKE PATH
- FUNDED BIKE PATH
- POTENTIAL BIKE PATH

- 1 BOURNE RAIL TRAIL ALIGNMENT FROM CAPE COD COMMISSION FEASIBILITY STUDY  
APRIL 2017  
6.4 MILES
- 2 RECOMMENDED PATH ALIGNMENT FROM THE VHB PROJECT NEED FORM  
AUGUST 28, 2016  
8.6 MILES
- 3 RECOMMENDED PATH ALIGNMENT FROM THE CAPE COD COMMISSION OUTER CAPE MASTER BICYCLE PLAN  
SEPTEMBER 2016 | UPDATED FEBRUARY 2017  
18.5 MILES
- 4 NEEDED CONNECTION  
2.7 MILES

TOTAL EXISTING OR FUNDED MILES: 51.8  
TOTAL POTENTIAL MILES: 36.2  
TOTAL MILES: 88



CAPE COD  
COMMISSION

The information depicted on this map 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 supersede deed research. Road data from MassDOT. Bike path data from MassDOT and Cape Cod Commission.



# Potential Projects

- + Cape-wide year-round bus service expansion
- + Increased Rail Service to Buzzards Bay (to/from Boston)
- + Increased Rail Service to Hyannis (to/from Boston)





# NEXT STEP

- Monthly Progress Reports/Discussion
  - Cape Cod Metropolitan Planning Organization
  - Cape Cod Joint Transportation Committee
- Public Workshops/Meetings with various groups
- Public comment period and public meetings during release of draft RTP
- Online survey



# LISTENING SESSIONS/ FEEDBACK

## RTP LISTENING SESSIONS

## Date

## Time

Eastham Town Hall  
2500 State Highway (Route 6), Eastham

Tuesday, February 5, 2019

5:00 PM

Mashpee Library  
64 Steeple St, Mashpee

Wednesday, February 6, 2019

5:00 PM

Hyannis Transportation Center  
215 Iyannough Road, Hyannis

Thursday, February 7, 2019

2:00 PM



SURVEY /

**FEEDBACK EXERCISE**



# THANK YOU

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View project information and  
participate in the online survey at:

[www.capecodcommission.org/rtp](http://www.capecodcommission.org/rtp)

Survey open through March 6