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
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

- **Meetings and Milestones**
  - JTC MPO

- **Fall 2018**
  - Public Outreach Meetings
  - Local Outreach, Interagency Meetings, Environmental Consultation
  - Targeted Local Outreach Effort
  - Survey Open

- **January 2019**
  - Public Kickoff Meeting

- **February**
  - Potential Projects & Performance Measures

- **March**
  - Project Selection Review

- **April**
  - MPO Releases Draft for Public Comment

- **May**
  - Final MPO Endorsement
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

102 Bridges
6 Airfields and Airports
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
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 & 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

TYPES OF TRANSPORTATION
- Major Road
- Major Regional Multi-use Paths
- Ferry Route
- Year-round CCRTA Bus Route
- Seasonal CCRTA Bus Route
- Rail Line
- Major Airports with Commercial Service
Performance Measures
Tracks progress in achieving the Objectives

Objectives
Defines focused elements of the Goals

Goals
Expands on the Vision Statement in seven areas of emphasis

Vision Statement
Establishes the overarching vision of the plan

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
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
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
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
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
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
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
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)
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

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

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, or supervise deed research. Road data from MassGIS.

Bike path data from MassGIS 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
# RTP Listening Sessions

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Eastham Town Hall, 2500 State Highway (Route 6), Eastham</td>
<td>Tuesday, February 5, 2019</td>
<td>5:00 PM</td>
</tr>
<tr>
<td>Mashpee Library, 64 Steeple St, Mashpee</td>
<td>Wednesday, February 6, 2019</td>
<td>5:00 PM</td>
</tr>
<tr>
<td>Hyannis Transportation Center, 215 Iyannough Road, Hyannis</td>
<td>Thursday, February 7, 2019</td>
<td>2:00 PM</td>
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SURVEY / FEEDBACK EXERCISE
View project information and participate in the online survey at:

www.capecodcommission.org/rtp

Survey open through March 6