

Statewide Pedestrian and Bicycle Transportation Plan and Economic Impact Study



SWRPC TAC Meeting
February 4, 2019

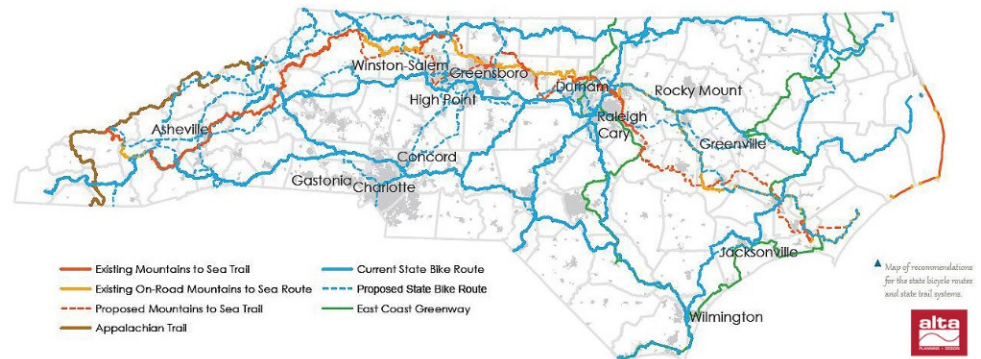
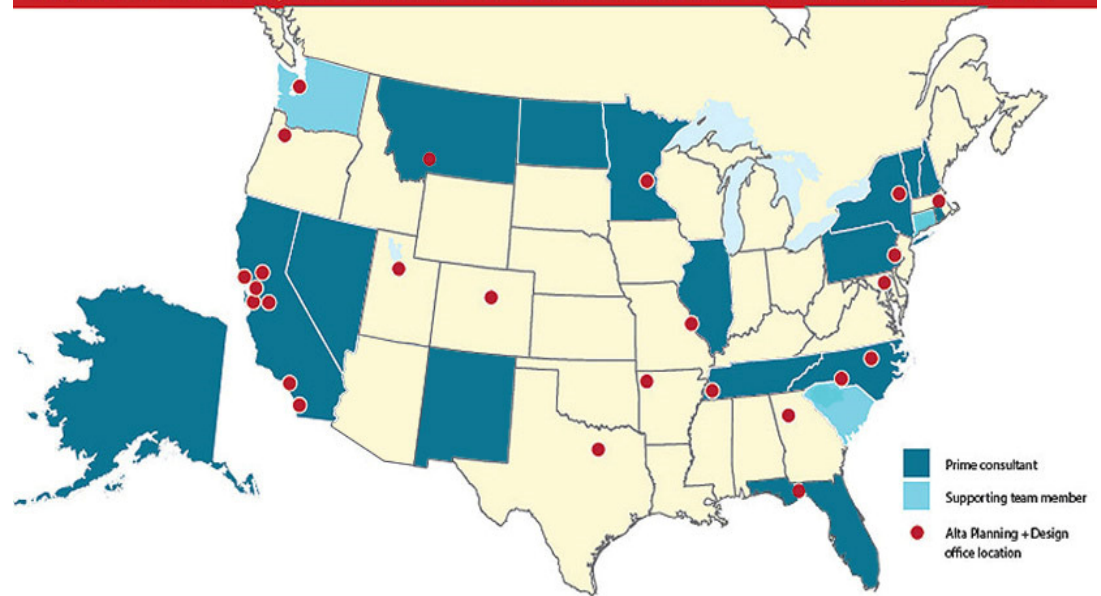


Your Planning Team

Alta Planning + Design

- ❖ Statewide planning efforts in 18 states
- ❖ Bike/ped network planning in dozens of cities, regions & counties
- ❖ Managed by staff from Cambridge MA and Troy NY offices

Statewide Bicycle and Pedestrian Master Plan Experience



Alta's North Carolina
Bike Network Plan



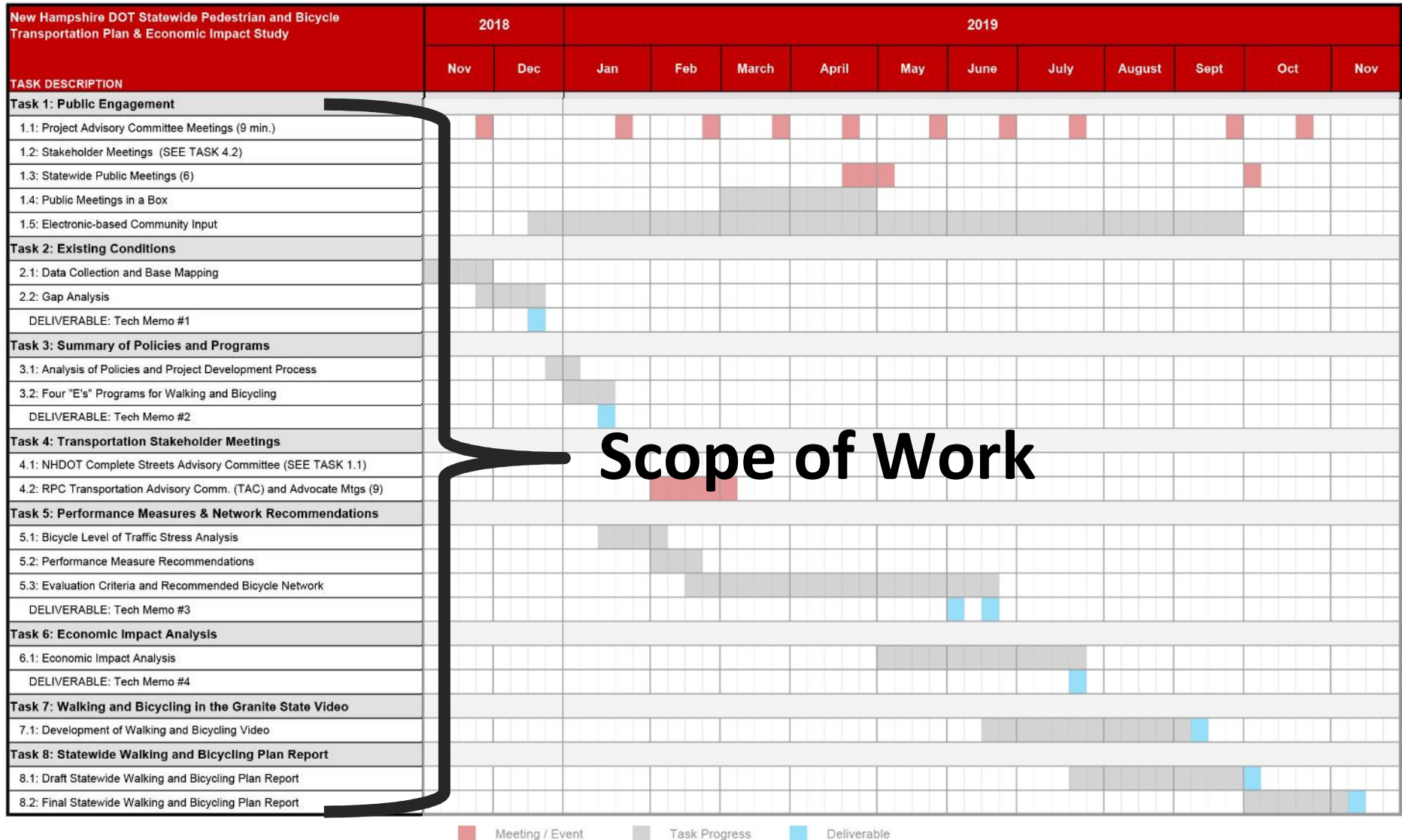
Project Schedule

New Hampshire DOT Statewide Pedestrian and Bicycle Transportation Plan & Economic Impact Study	2018		2019										
	Nov	Dec	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov
TASK DESCRIPTION													
Task 1: Public Engagement													
1.1: Project Advisory Committee Meetings (9 min.)													
1.2: Stakeholder Meetings (SEE TASK 4.2)													
1.3: Statewide Public Meetings (6)													
1.4: Public Meetings in a Box													
1.5: Electronic-based Community Input													
Task 2: Existing Conditions													
2.1: Data Collection and Base Mapping													
2.2: Gap Analysis													
DELIVERABLE: Tech Memo #1													
Task 3: Summary of Policies and Programs													
3.1: Analysis of Policies and Project Development Process													
3.2: Four "E's" Programs for Walking and Bicycling													
DELIVERABLE: Tech Memo #2													
Task 4: Transportation Stakeholder Meetings													
4.1: NHDOT Complete Streets Advisory Committee (SEE TASK 1.1)													
4.2: RPC Transportation Advisory Comm. (TAC) and Advocate Mtgs (9)													
Task 5: Performance Measures & Network Recommendations													
5.1: Bicycle Level of Traffic Stress Analysis													
5.2: Performance Measure Recommendations													
5.3: Evaluation Criteria and Recommended Bicycle Network													
DELIVERABLE: Tech Memo #3													
Task 6: Economic Impact Analysis													
6.1: Economic Impact Analysis													
DELIVERABLE: Tech Memo #4													
Task 7: Walking and Bicycling in the Granite State Video													
7.1: Development of Walking and Bicycling Video													
Task 8: Statewide Walking and Bicycling Plan Report													
8.1: Draft Statewide Walking and Bicycling Plan Report													
8.2: Final Statewide Walking and Bicycling Plan Report													

■ Meeting / Event
 ■ Task Progress
 ■ Deliverable

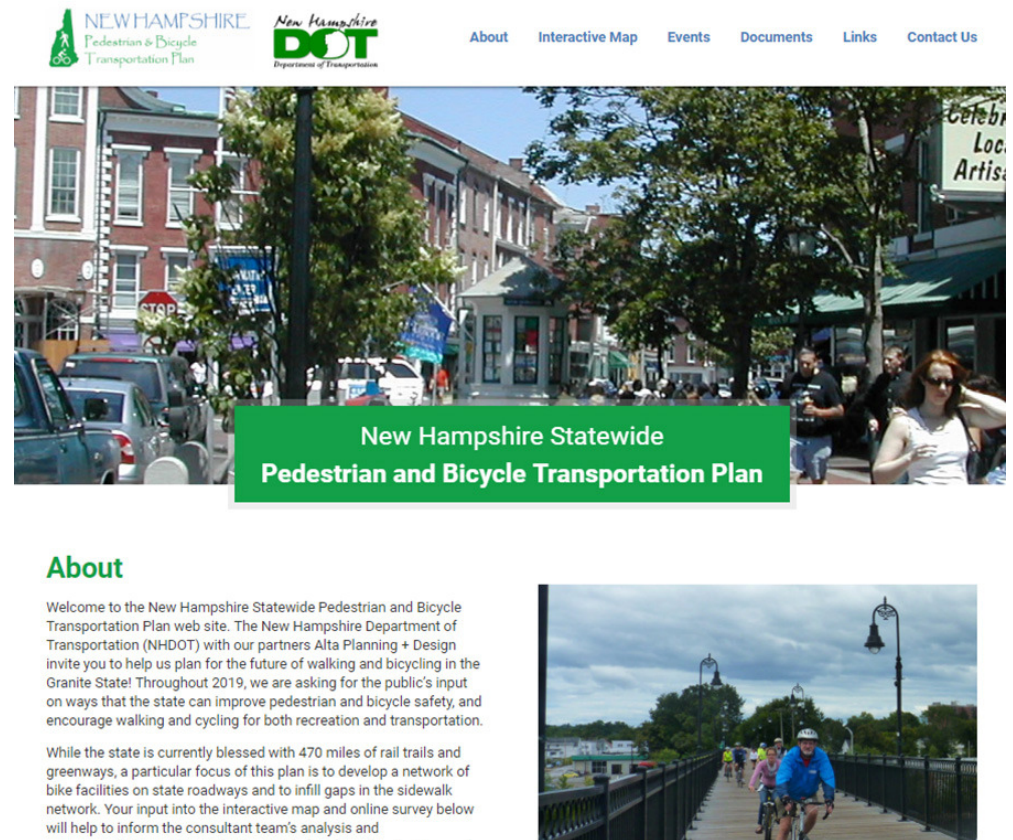


Project Schedule



Task 1: Public Engagement

- ❖ Project website:
www.nhpedbikeplan.com
- ❖ Online input map & survey
- ❖ Monthly CSAC/PAC mtgs
- ❖ Meetings with RPC TACs
- ❖ Six community meetings
- ❖ Getting the word out:
 - Flyers
 - Email blasts
 - Social media posts



Task 1: Public Engagement

Hampshire?

Use the buttons below to tell us your favorite walk or bike destinations and how you like to get there.

[Add a Favorite Destination](#)

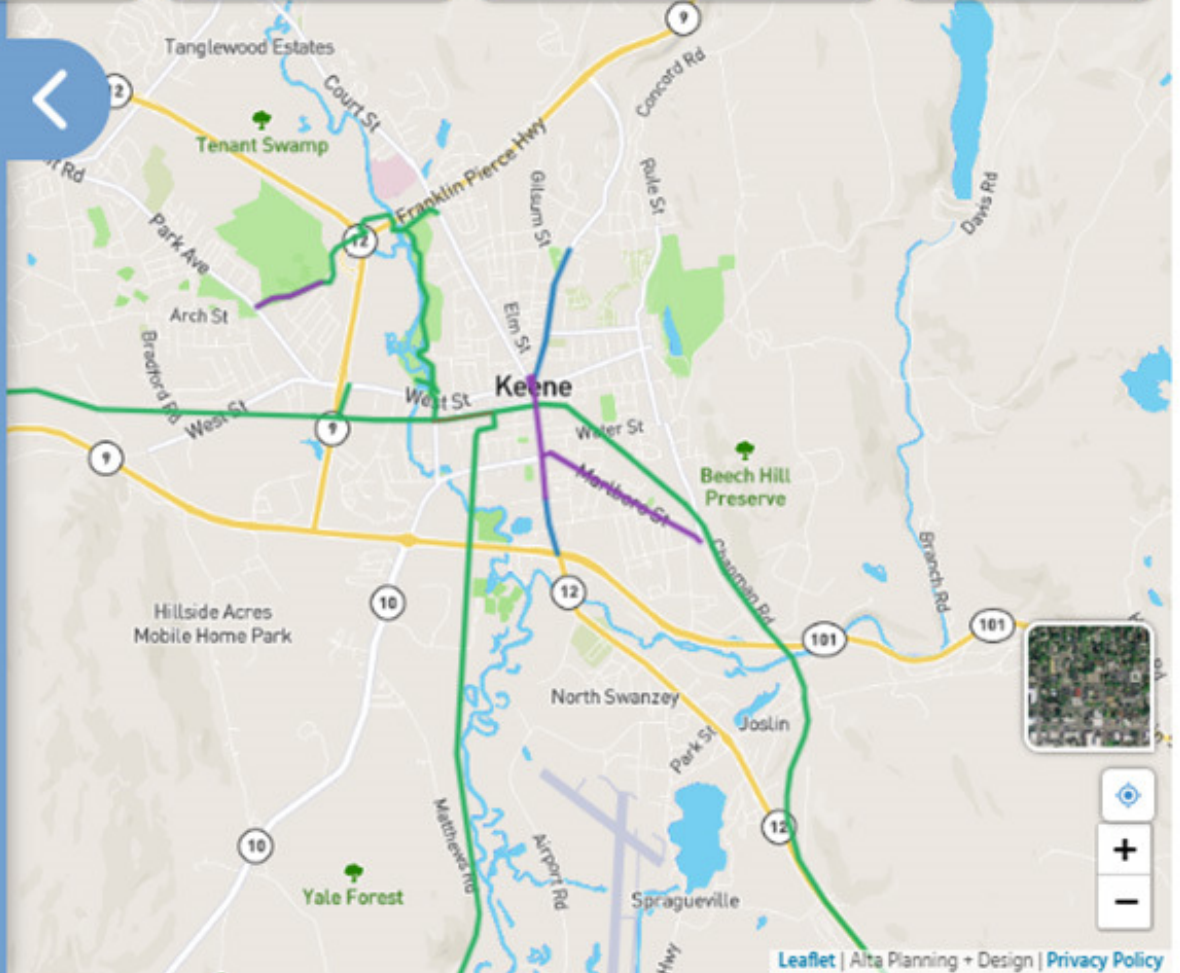
[Add a Favorite Route](#)

If someone has already placed a point or route at one of your favorite locations, just click on the comment and select the "Like" button to let us know that you agree.

Next, what are some barriers preventing you from walking or biking?

[Add a Barrier](#)

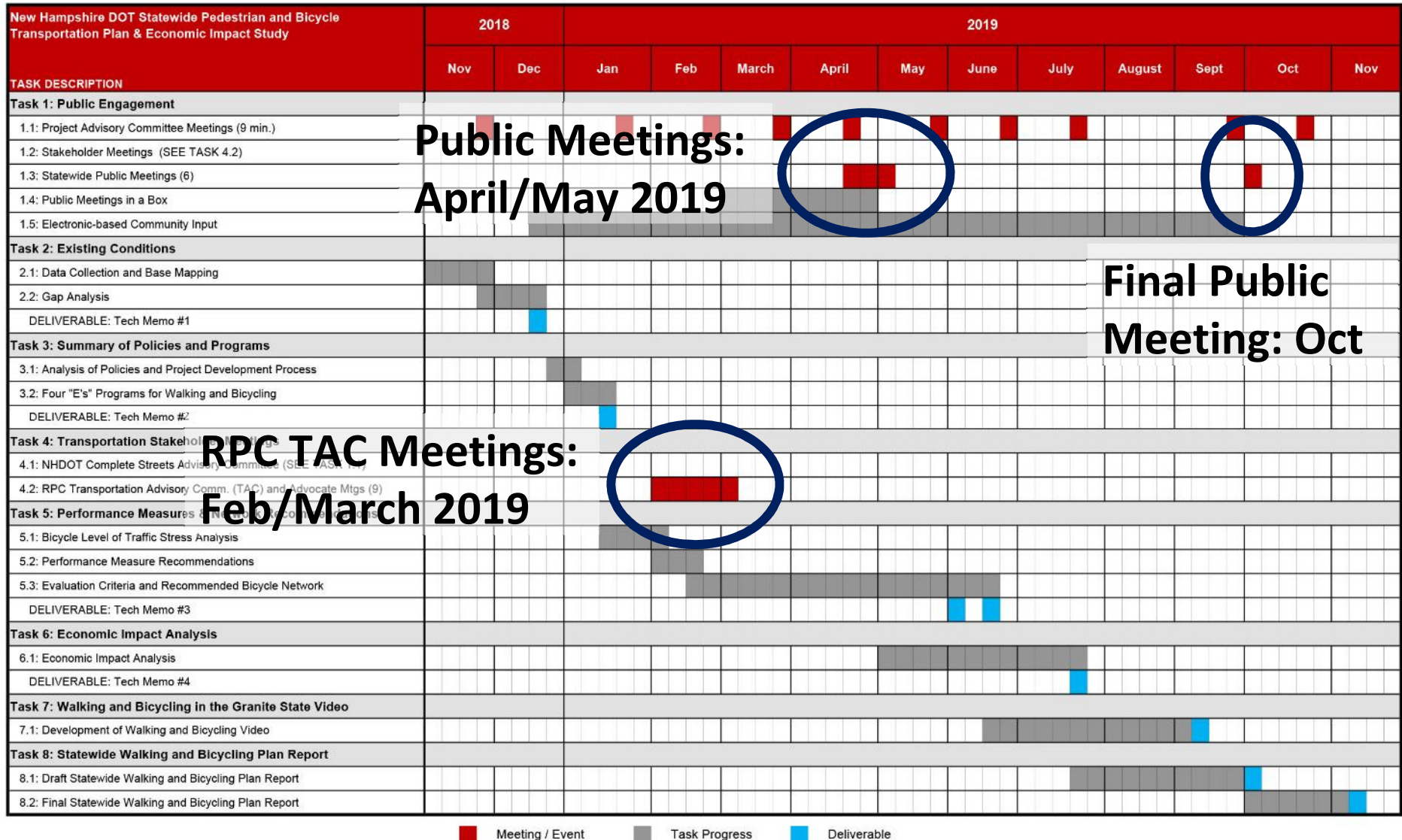
HOMEGET STARTEDHIDE COMMENTSHIDE EXISTING FEATURESVIEW LEGEND

A map of Keene, New Hampshire, showing various streets and landmarks. User-added routes are highlighted in different colors: a green route through the center, a yellow route along the top, and a purple route on the right. Landmarks include Tanglewood Estates, Tenant Swamp, Beech Hill Preserve, and Yale Forest. Major roads like Franklin Pierce Hwy and US-101 are labeled. A sidebar on the left contains navigation and interaction buttons. A bottom bar includes the Leaflet logo and project information.

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Task 1: Public Engagement

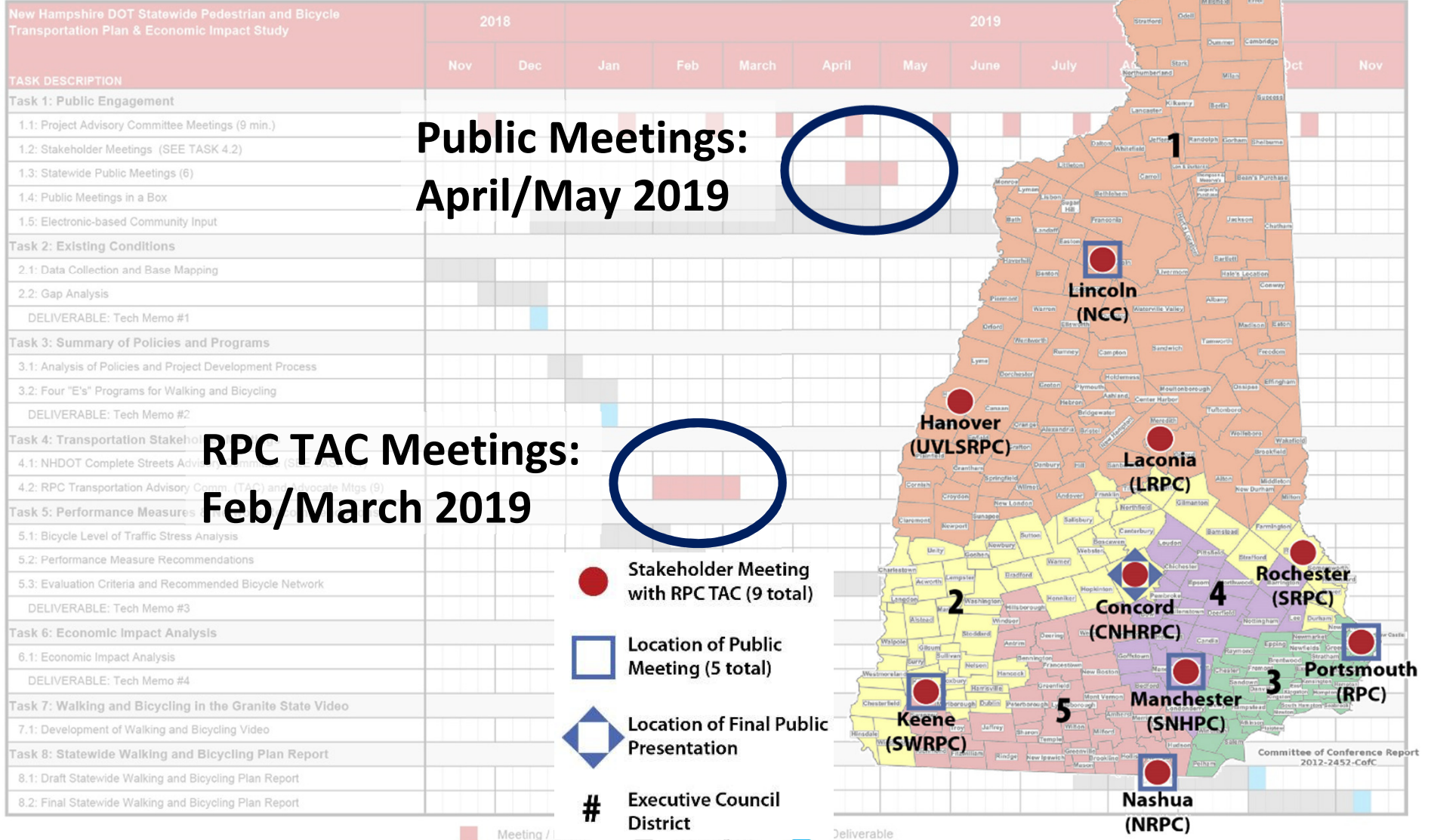


**Public Meetings:
April/May 2019**

**Final Public
Meeting: Oct**

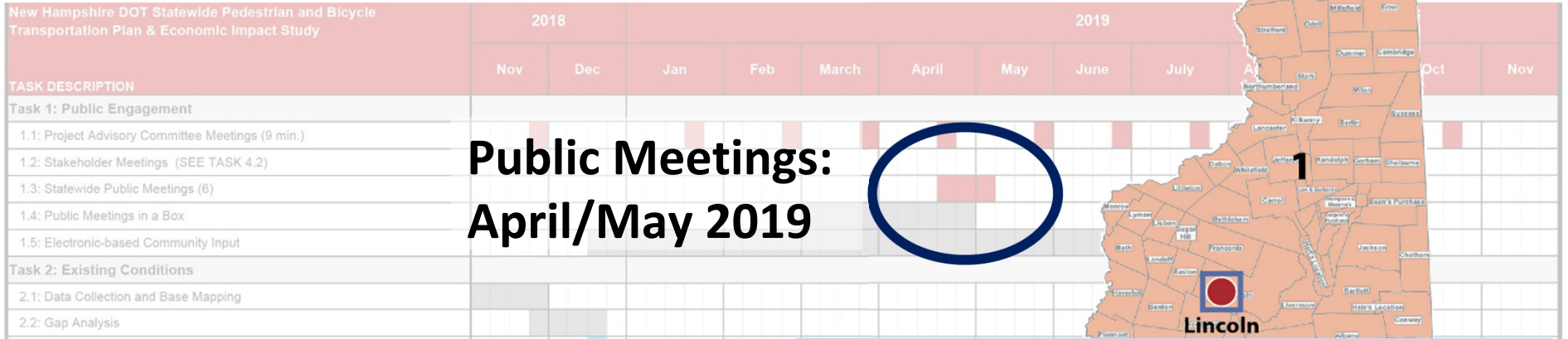
**RPC TAC Meetings:
Feb/March 2019**

Task 1: Public Engagement





Task 1: Public Engagement



Statewide Public Meetings

- ❖ Summary of plan approach
- ❖ Vision and goals
- ❖ Results of BLTS analysis
- ❖ Preliminary bicycle network recommendations
- ❖ Preliminary Evaluation criteria
- ❖ Next steps

Meetings in a Box

- ❖ Public meeting kit for RPCs and municipalities to use
- ❖ Copies of meeting flyers, maps, and handouts
- ❖ Draft slide presentation
- ❖ Template for summary notes/community feedback

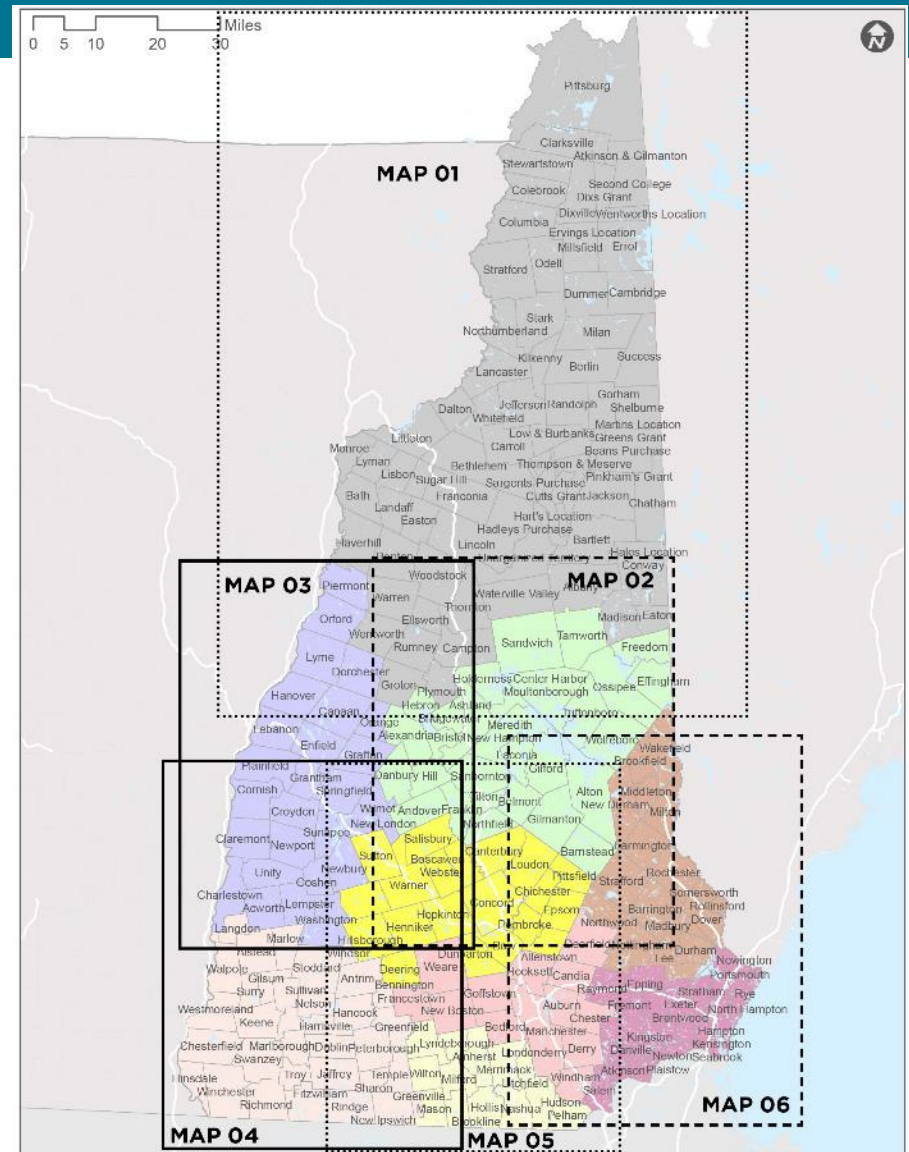
Task 2: Existing Conditions Assessment

Base Mapping

- ❖ Insets based on RPCs
- ❖ Existing walk/bike/trail facility inventory
 - Rail trails and paths
 - Bike lanes
 - sidewalks

Summary of Data & Reports

- ❖ Strava data and other counts
- ❖ RPC ped/bike plans
- ❖ Municipal ped/bike plans
- ❖ Existing programs & events





Task 3: Summary of Policies/Programs

Key Sub-Tasks

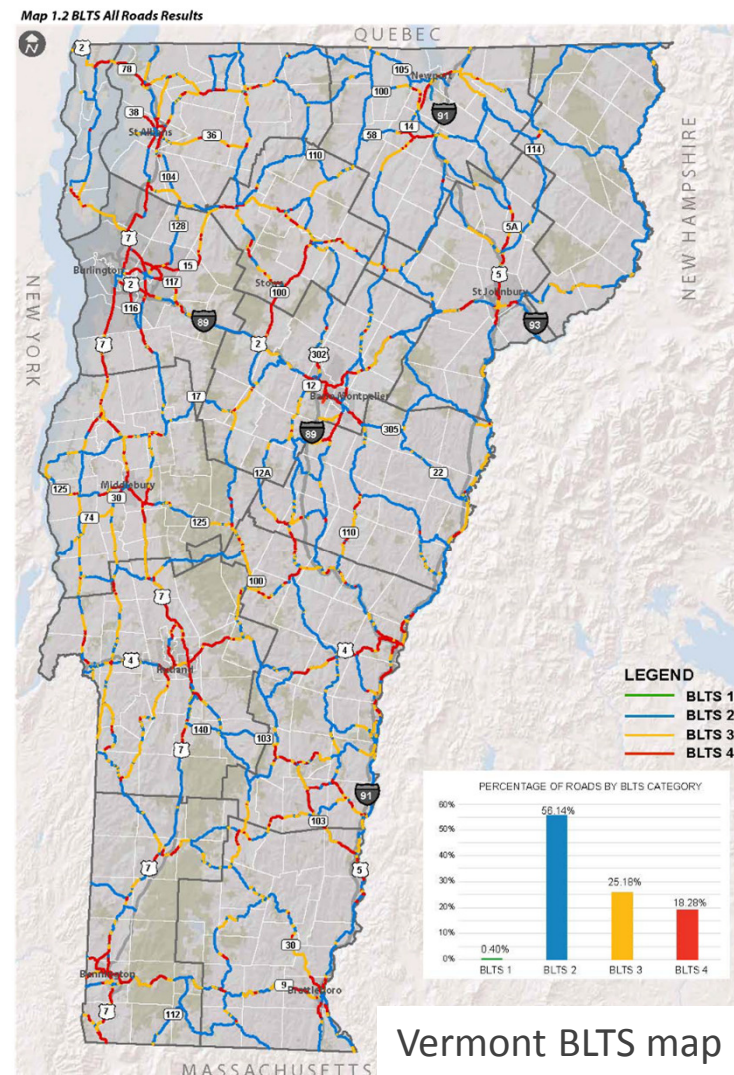
- ❖ Analysis of pedestrian/bicycle-related policies
- ❖ Analysis of NHDOT Project Development Process
- ❖ Compendium of 4 “E’s” programs: Education, Encouragement, Enforcement and Evaluation programs



Lebanon Street, Rt. 120, Hanover

Task 5: Level of Traffic Stress Analysis

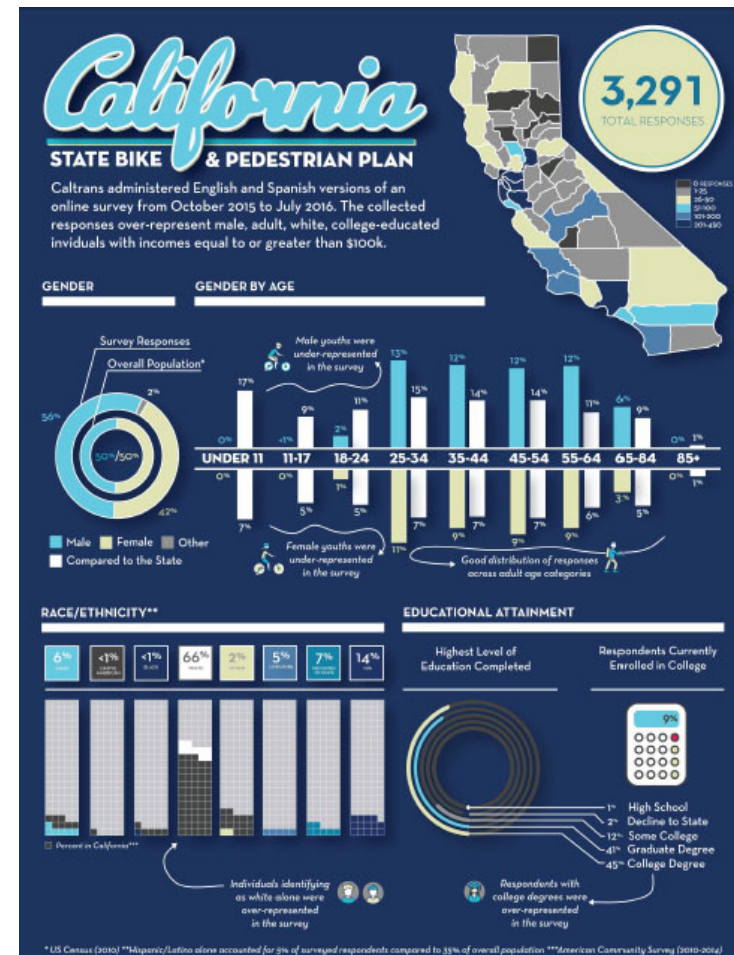
- Inputs include speed, volume, shoulder width, parking and current bike facility
- Evaluates roadways' ability to accommodate user types:
 - ❖ BLTS 1: all ages and abilities
 - ❖ BLTS 2: works well for most bicyclists
 - ❖ BLTS 3: adequate for experienced bicyclists only
 - ❖ BLTS 4: in need of significant improvement for nearly all



Task 5: Performance Measures

Purpose is to track progress over time related to:

- ❖ Ridership on key corridors
- ❖ Bicycle network miles (trails and on-street facilities)
- ❖ % of residents within ¼ or ½ mile to trails
- ❖ Bicycle mode share
- ❖ Number of LAB Bike-Friendly communities, businesses and universities
- ❖ Number of crashes and KSI's

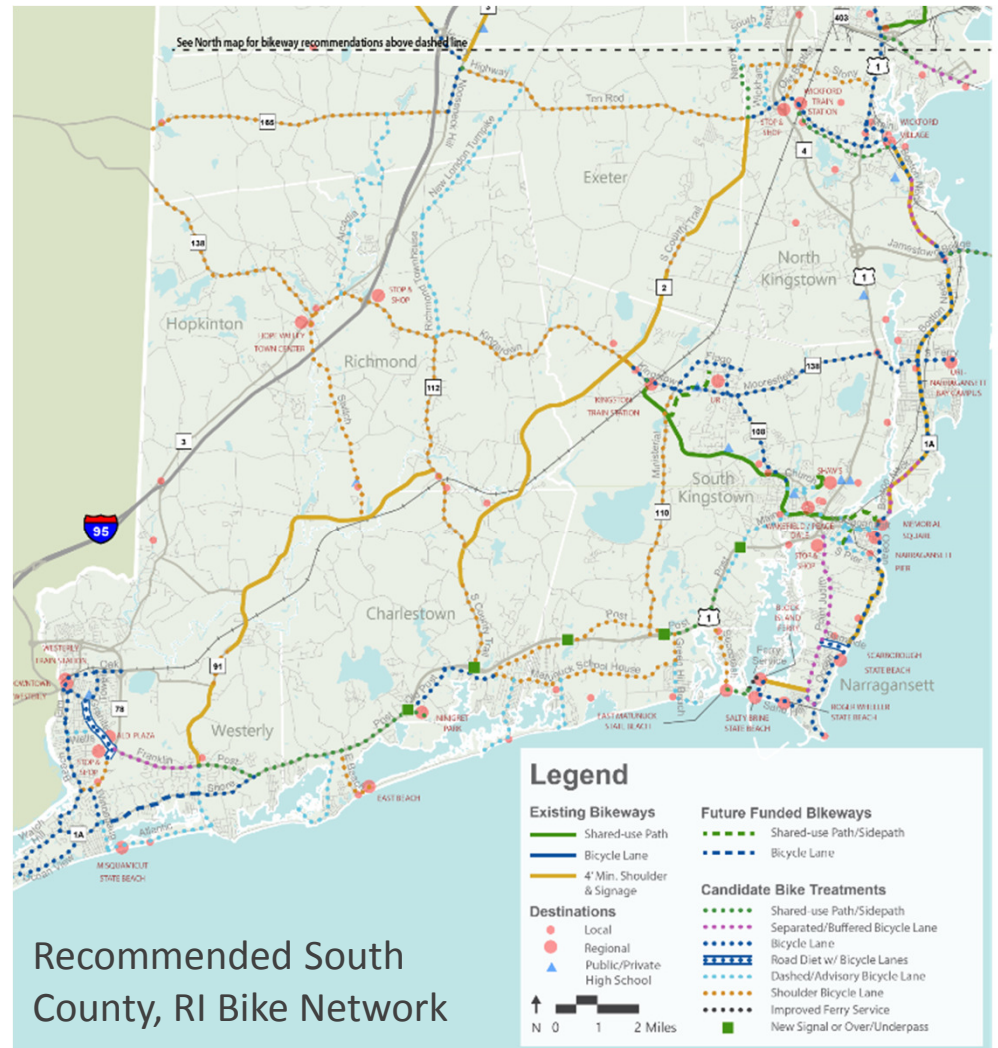


Performance measure infographic for Alta's CA state bike/ped plan

Task 5: Network Recommendations

Network Assumptions

- ❖ Focus on bicycle connectivity/safety
- ❖ Primarily state roads
- ❖ Link critical destinations
- ❖ Intercity routes:
Improved shoulders and side paths
- ❖ Intracity routes: lean towards “all ages and abilities” facilities

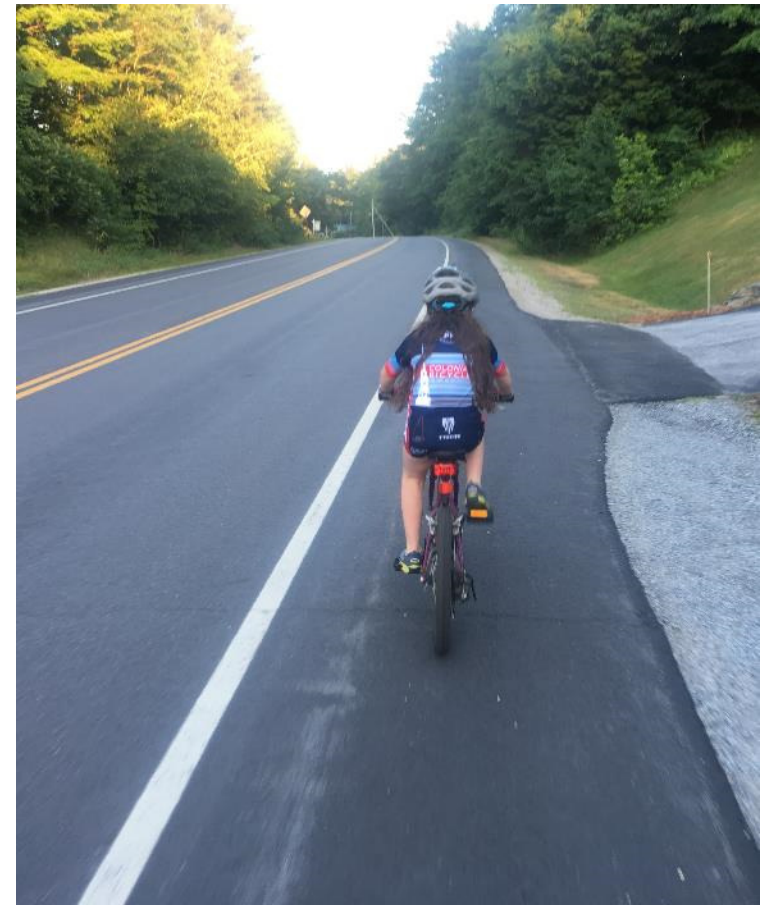




Task 5: Network Recommendations

GIS-based roadway factors include:

- ❖ Right of way/shoulder width
- ❖ Number of traffic lanes
- ❖ Roadway speed and volume
- ❖ Interface with other bike facilities
- ❖ On the current TIP
- ❖ Popular state touring route
- ❖ Safety/crash history
- ❖ Land use density



Route 103, Claremont

Task 5: Project Prioritization

Critical Factors

- ❖ Develop evaluation criteria based on project goals
 - Demand
 - Safety impact
 - Connectivity
 - Equity issues
 - Cost/permitting issues
 - Others...
- ❖ Project evaluated individually and as corridors
- ❖ Criteria can be weighted based on committee needs

Criteria	Maximum Number of Points	Scoring	16-Stroffolino Bridge to Calf Pasture Beach			
			Op-1	Op-2	Op-3	Op-4
<u>User Experience/Aesthetics</u> <i>Prioritizes options that offer the most scenic, recreational, and educational experience for the trail user</i>	2	Majority of trail option has high quality user experience: 2 Less than half of the trail option has high quality user experience: 1 Trail option has low quality user experience: 0	2	1	1	2
<u>Economic Development</u> <i>Prioritizes options that could induce new businesses due to strategic location</i>	2	High likelihood of attracting businesses: 2 Medium to low likelihood of attracting business: 1 Little or no likelihood of attracting businesses: 0	2	2	1	0
<u>Property Acquisition</u> <i>Prioritizes options that require fewer easements on or purchases of private property</i>	2	Option does not impact private landowners: 2 Option requires easements or acquisition across 1-3 private properties: 1 Option requires easements or acquisition across >3 private properties: 0	2	1	1	1
<u>Momentum</u> <i>Prioritizes options that will generate the most community and political support</i>	2	Option is likely to generate significant support within the community: 2 Option is likely to generate some support within the community: 1 Option is unlikely to generate support within the community: 0	1	1	1	1
<u>Permitting Requirements</u> <i>Prioritizes options that involve fewer regulatory hurdles</i>	2	Can be constructed with only Local Approval: 2 Requires only "General Permits" at the state or federal level: 1 Extensive individual state and federal permits required: 0	2	2	2	2
<u>Ease of Construction</u> <i>Prioritizes options with fewer engineering challenges and inconveniences to the community</i>	2	Can be built easily with little or no inconvenience: 2 Construction has some engineering challenges and will create minor inconvenience: 1 Construction has major engineering challenges and will entail significant inconvenience: 0	2	2	2	2
<u>Estimated Construction Cost</u> <i>Prioritizes options with a lower cost per linear foot of completed trail</i>	2	Per Linear Foot cost less than \$150: 2 Per Linear Foot cost is between \$150 and \$250: 1 Per Linear Foot cost exceeds \$250: 0	2	2	2	2
Total Score	20		18	16	14	14

Task 6: Economic Impact Analysis

Sub-tasks

- ❖ Economic impacts of capital investments and O&M
- ❖ Expenditures on bicycle and ped-oriented businesses
- ❖ Tourism impacts (will include surveys to event participants)
- ❖ Benefits of non-motorized travel (travel cost savings, health, enviro and safety)
- ❖ Impact to property values



Kancamagus Highway



Statewide Ped/Bike Transportation Plan

Final Report Contents

- ❖ Vision, Goals and Objectives
- ❖ Existing Conditions Inventory
- ❖ Assessment of Current Policies and Programs
- ❖ BLTS, Gap & Equity Analysis
- ❖ Network Recommendations
- ❖ Prioritization and Phasing
- ❖ Summary of Economic Impact and Benefits Analysis
- ❖ Implementation Plan
- ❖ Design Guidelines



Main Street/Rt. 3, Concord

Summary of Next Steps

February-March work

- ❖ Meetings w/ all RPC Trans. Advisory Committees
- ❖ Ongoing data collection and base mapping
- ❖ Launch of web site, input map and online survey
- ❖ Gap analysis
- ❖ Summary of existing plans and reports
- ❖ Draft Existing Conditions Technical Memorandum #1



Cheshire Rail Trail, Keene

Discussion Items

- 1. Vision, Goals and Objectives**
- 2. Confirming Southwest RPC Existing Conditions Maps**



Ocean Blvd/Rt. 1A, Hampton Beach



Vision, Goals and Objectives

- **Vision:** broad, inspirational statement
- **Goals:** what the stakeholders and public hope to achieve over time
- **Objectives:** action items that will help achieve the goals



Washington Street bike lanes, Keene

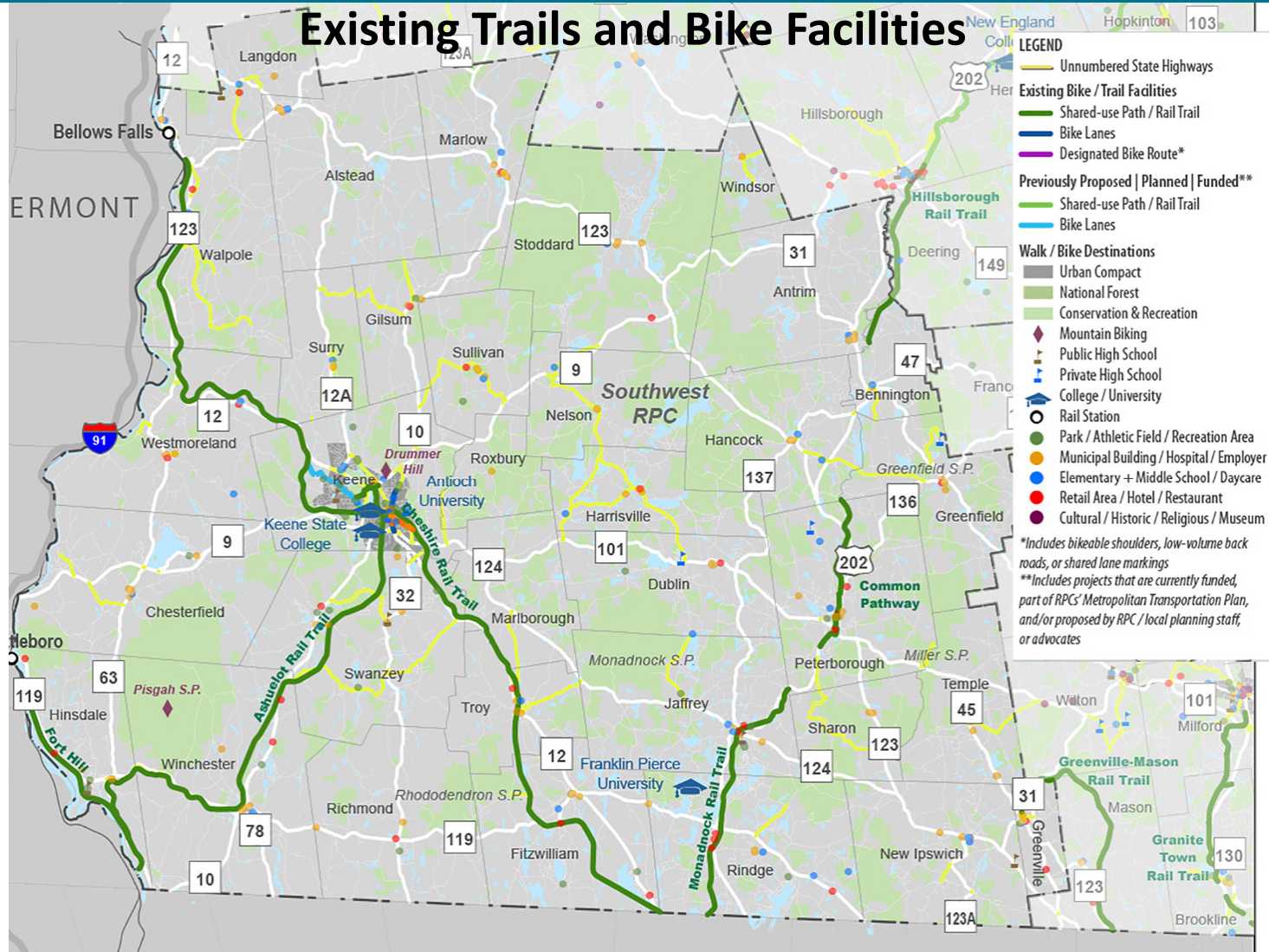


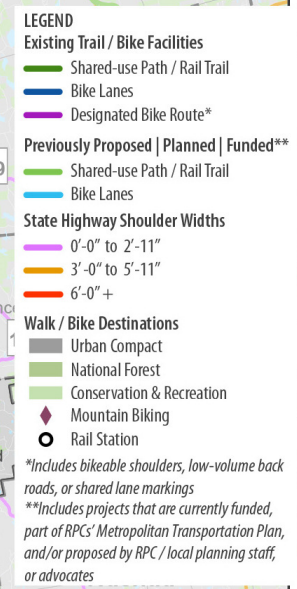
Vision, Goals and Objectives

DRAFT GOALS

1. NETWORK: Connect the State's Network of Walking & Bicycling Routes
2. DESIGN: Reduce the Pedestrian & Bicyclist Level of Stress on State and Local Roads
3. POLICY: Develop Stronger State Policies That Promote Walking & Bicycling
4. EQUITY: Promote Equity in Pedestrian & Bicycle Planning and Funding
5. SAFETY: Increase Pedestrian & Bicycle Safety with Policies and Programs
6. ECONOMY: Leverage Walking & Bicycling to Promote Economic Development
7. HEALTH: Improve Public Health through Walking & Bicycling

SW RPC Existing Conditions





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Task 7: Walking & Bicycling Video

- ❖ Contingent on funding availability at end of project
- ❖ Video is anticipated to include:
 - Interviews with public officials and advocates
 - Footage from public meetings
 - Commentary from experts in walking and bicycling
 - Animations and infographics re: benefits of walking/biking
 - Footage of peer communities for inspiration

