



**NASHUA REGIONAL
PLANNING COMMISSION
METROPOLITAN PLANNING
ORGANIZATION**

Fiscal Year 2020 – 2021

**Unified Planning
Work Program**

APRIL 2019

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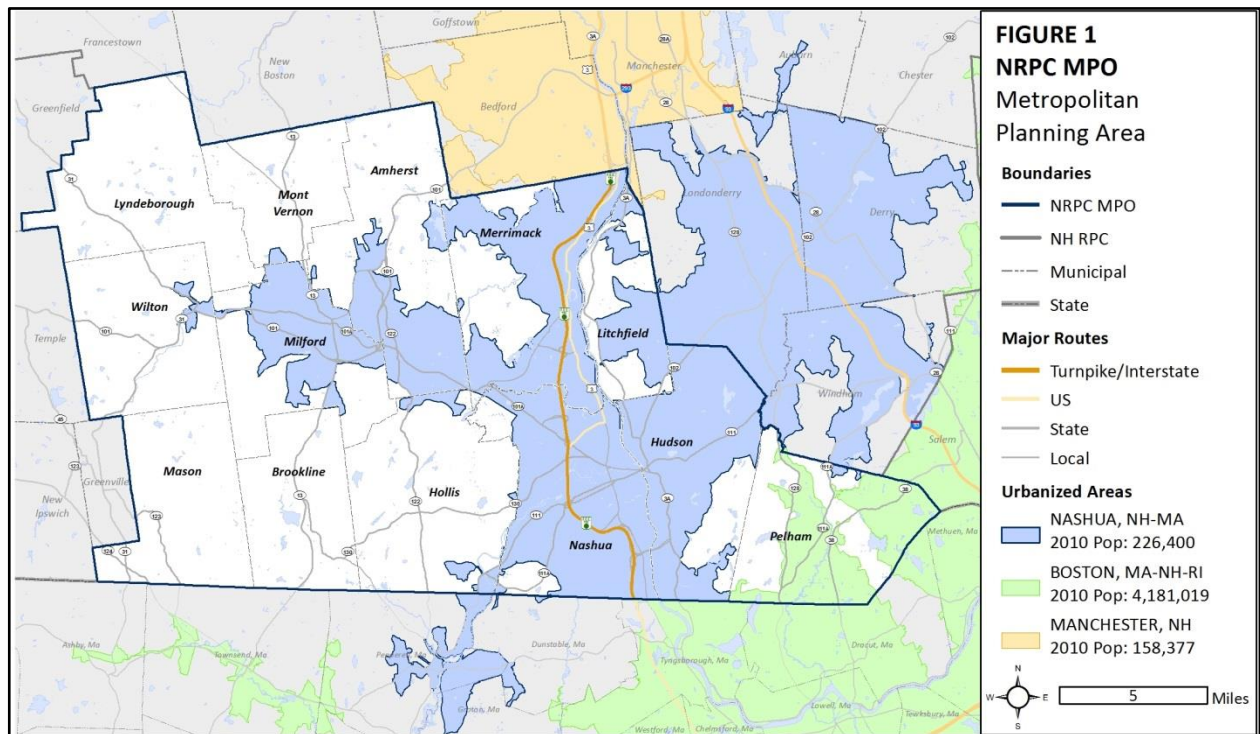
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INTRODUCTION

The purpose of the Unified Planning Work Program (UPWP) is to present all transportation planning activities anticipated within the Nashua Metropolitan Planning Organization (MPO) region during Fiscal Years 2020 and 2021, regardless of funding sources, in a single document. It is developed to meet the requirements of 23 CFR Part 450, Subpart C. The work program is intended to facilitate review procedures, funding applications, grant decisions and allocations, technical and financial monitoring and periodic evaluation of substantive and procedural aspects for intermodal transportation planning under prescribed guidelines.

The Metropolitan Planning Area (MPA) for the Nashua MPO /Nashua Regional Planning Commission (NRPC) includes thirteen communities: Amherst, Brookline, Hollis, Hudson, Litchfield, Lyndeborough, Mason, Merrimack, Milford, Mont Vernon, Nashua, Pelham, and Wilton. These communities are part of the Nashua Urbanized Area (UZA) or are anticipated to become urbanized over the next 20 years. In addition, the Nashua UZA extends to the east/northeast into the communities of Auburn, Derry, Londonderry and Windham. These communities are a part of the Southern New Hampshire Planning Commission's (SNHPC) Metropolitan Planning Area. Since the Nashua UZA extends into the SNHPC MPA, Federal transportation planning rules require that the Nashua MPO coordinate transportation planning responsibilities with Federal Highway Administration (FHWA), NHDOT, SNHPC, and public transportation operators to address the overlap in planning areas.



The Nashua UZA population exceeds the 200,000 person threshold and therefore is a federally designated Transportation Management Area (TMA). In this capacity, the Nashua MPO has additional requirements to fulfill which include the selection of all 23 USC and 49 USC Chapter 53 funded projects

(excluding projects on the NHS and Tribal Transportation Program, Federal Land Transportation Program and Federal Lands Access Program) and the programming of Surface Transportation Block Grant program funds and related set-aside funds for Transportation Alternatives. In addition, the Nashua MPO must maintain a Congestion Management Process to ensure that funding is available for projects proposed to increase capacity.

The UPWP was developed by the Nashua Regional Planning Commission and MPO as a joint responsibility with the Nashua Transit System (NTS) and NHDOT. Full cooperation was maintained with the municipalities, recognizing the key role of local elected officials in establishing funding priorities within the urban area and with state transportation planning and implementing agencies.

The lead responsibility for developing the UPWP lies with the NRPC, which has three major responsibilities: 1) NRPC is the designated MPO for the Nashua Metropolitan Planning Area, by letter of the Governor of New Hampshire and is responsible as the lead transportation planning organization for the Nashua Urbanized Area; 2) NRPC is the official area-wide planning agency for the City of Nashua and twelve surrounding New Hampshire towns; 3) NRPC is the designated Metropolitan Clearinghouse for this same area, under the provisions of the State of New Hampshire's Intergovernmental Review Process, using the Office of Energy and Planning as the Single Point of Contact for review of the federally funded projects in the Nashua area. **This integration of comprehensive transportation and area-wide planning and intergovernmental review responsibilities in the UPWP ensures that the work program is well structured and coordinated.**

Transportation Planning Goals, Factors and Emphasis Areas

The NRPC MPO's transportation planning priorities are guided by regional, state and national factors. With an effort placed on consistency and conciseness, the following long-range **Metropolitan Transportation Plan goals** were developed with public input and community guidance. The goals support and advance the development of a transportation system that contributes to the region's mobility, quality of life, system sustainability, and continued project implementation.

Mobility

1. Improve the availability of transportation options for people and goods.
2. Support travel efficiency measures and system enhancements targeted at congestion reduction and management.
3. Assure all communities are provided access to the regional transportation system and planning process.

Quality of Life

4. Preserve and enhance the natural environment, improve air quality, and promote active lifestyles.
5. Encourage livable communities which support sustainability and economic vitality.

System Sustainability

6. Ensure adequate maintenance and enhance the safety and reliability of the existing transportation system.
7. Pursue long-term sustainable revenue sources to address regional transportation system needs.

Implementation

8. Provide for timely project planning and implementation.
9. Develop cost-effective projects and programs aimed at reducing the costs associated with constructing, operating, and maintaining the regional transportation system.

The Fixing America's Surface Transportation Act (FAST Act) requires that the following ten **Planning Factors** be considered by MPOs in the development their respective UPWPs:

1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
2. Increase the safety of the transportation system for motorized and non-motorized users.
3. Increase the security of the transportation system for motorized and non-motorized users.
4. Increase the accessibility and mobility of people and for freight.
5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
6. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
7. Promote efficient system management and operation.
8. Emphasize the preservation of the existing transportation system.
9. Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.
10. Enhance travel and tourism.

The following matrix shows how the FAST-Act planning factors are reflected in the MPO work tasks:

UPWP Work Task	FAST Act Planning Factors									
	1	2	3	4	5	6	7	8	9	10
100 - MPO Administration and Training										
Task 101: Invoices and Accounting							•			
Task 102: MPO/TMA Program Administration	•	•	•	•	•	•	•	•	•	•
Task 103: Training	•	•	•	•	•	•	•	•	•	•
Task 104: Indirect Cost Adjustments	Not Applicable									
Task 105: Performance Measures	•	•	•	•	•	•	•	•	•	•
200 - Policy and Planning										
Task 201: Ten Year Plan	•	•	•	•	•	•	•	•	•	•
Task 202: Planning and Environmental Linkages	•	•	•	•	•	•	•	•	•	•
Task 203: Transportation Planners Collaborative					•	•	•	•		
Task 204: Interagency Consultation Process					•	•	•	•		
Task 205: Transportation Improvement Program	•	•	•	•	•	•	•	•	•	•
Task 206: Congestion Management Process	•	•		•	•	•	•		•	•
Task 207: Intelligent Transportation System	•	•	•	•	•	•	•	•	•	•
Task 208: Metropolitan Transportation Plan	•	•	•	•	•	•	•	•	•	•
Task 209: Transportation Air Quality Conformity	•				•	•				•
Task 210: State Long Range Transportation Plan	•	•	•	•	•	•	•	•	•	•
Task 211: Bicycle and Pedestrian Planning	•	•	•	•	•	•	•	•	•	•
Task 212: Freight Planning	•	•	•	•	•	•	•	•	•	
300 - Public Involvement and Coordination										
Task 301: Transportation Technical Advisory Committee	•	•	•	•	•	•	•	•	•	•
Task 302: Committee Meetings	•	•	•	•	•	•	•	•	•	•
Task 303: Public Participation Plan	•				•	•				
Task 304: Public Outreach	•	•	•	•	•	•	•	•	•	•
Task 305: MPO/TMA Policy Committee Meetings	•	•	•	•	•	•	•	•	•	•
400 - Plan Support (Data, Modeling, GIS)										
Task 401: Traffic Count Program	•	•		•	•	•	•	•	•	•
Task 402: SADES Inventory	•	•		•	•	•	•	•	•	•
Task 403: Geographic Information System	•	•	•	•	•	•	•	•	•	•
Task 404: Demographics	•	•	•	•	•	•	•	•	•	•
Task 405: Equipment and Supplies	•			•	•	•	•	•	•	
Task 406: Travel Demand Model	•			•	•	•	•	•	•	•
Task 407: Memberships, Subscriptions & Professional Costs	•	•	•	•	•	•	•	•	•	•
500 - Technical Assistance and Transit Support										
Task 501: Local and Regional Assistance	•	•	•	•	•	•	•	•	•	•
Task 502: Statewide Assistance	•	•	•	•	•	•	•	•	•	•
Task 503: Local Public Agency Program Support	•	•	•	•	•	•	•	•	•	•
Task 504: Special Projects	•	•	•	•	•	•	•	•	•	•
Task 505: Regional Coordinating Council (RCC)	•	•	•	•	•	•	•	•	•	•
Task 505: Regional Coordinating Council (RCC)	•	•	•	•	•	•	•	•	•	•
Task 506: Transit Assistance	•	•	•	•	•	•	•	•	•	•
Task 507: Transportation Demand Management	•	•	•	•	•	•	•	•	•	•
600 – Nashua Interregional Transit Expansion Study										
Task 601: Public Outreach	•	•	•	•	•	•	•	•	•	•
Task 602: Operational Analysis & Feasibility Review	•	•	•	•	•	•	•	•	•	•

The FHWA NH Division Office and FTA Region 1 Office have outlined **Planning Emphasis Areas (PEAs)** specific to New Hampshire that are designed to guide development of the 2020-2021 UPWPs. National PEAs were last released on May 27, 2016 and continue to influence the work tasks performed by the MPO.

New Hampshire PEAs:

1. MAP-21/FAST Act and Planning Final Rule – Compliance, Planning Performance Measures.
2. Urbanized Area Set-asides, Suballocation and Project Selection.
3. Congestion Management Process (CMP) Implementation.
4. Freight Planning.
5. Fiscal Constraint and Financial Planning.
6. Metropolitan and Statewide Travel Demand Model Maintenance.
7. Data Collection for HPMS and CMP Development, Maintenance and Monitoring.
8. Planning and Environment Linkages (PEL).
9. Climate Change and Stormwater Impacts, Resiliency.
10. Livability and Sustainability.
11. Project Monitoring.

National PEAs:

1. MAP-21/FAST Act Implementation – Transition to Performance Based Planning and Programming.
2. Regional Models of Cooperation – Ensure a Regional Approach to Transportation Planning by Promoting Cooperation and Coordination across Transit Agency, MPO and State Boundaries.
3. Ladders of Opportunity – Access to Essential Services.

The following matrix shows how the PEAs are reflected in the MPO work tasks:

UPWP Work Task	NH PEAs											Nat'l PEAs		
	1	2	3	4	5	6	7	8	9	10	11	1	2	3
100 - MPO Administration and Training														
Task 101: Invoices and Accounting														
Task 102: MPO/TMA Program Administration	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 103: Training	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 104: Indirect Cost Adjustments	<i>Not Applicable</i>													
Task 105: Performance Measures	•	•	•	•	•	•	•	•	•	•	•	•	•	•
200 - Policy and Planning														
Task 201: Ten Year Plan	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 202: Planning and Environmental Linkages	•	•	•	•		•		•	•	•	•	•	•	•
Task 203: Transportation Planners Collaborative	•			•	•			•	•	•	•	•	•	
Task 204: Interagency Consultation Process	•	•			•	•		•	•	•	•	•	•	
Task 205: Transportation Improvement Program	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 206: Congestion Management Process	•	•	•	•		•	•	•		•	•	•	•	
Task 207: Intelligent Transportation System	•	•	•	•		•	•		•	•	•	•	•	•
Task 208: Metropolitan Transportation Plan	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 209: Transportation Air Quality Conformity	•	•	•		•	•	•	•	•	•	•	•	•	
Task 210: State Long Range Transportation Plan	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 211: Bicycle and Pedestrian Planning	•	•	•	•				•	•	•	•	•	•	•
Task 212: Freight Planning	•	•	•	•		•	•	•	•	•	•	•	•	•
300 - Public Involvement and Coordination														
Task 301: Transportation Technical Advisory Committee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 302: Committee Meetings	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 303: Public Participation Plan	•	•			•			•	•	•	•	•	•	•
Task 304: Public Outreach	•	•			•			•	•	•	•	•	•	•
Task 305: MPO/TMA Policy Committee Meetings	•	•	•	•	•	•	•	•	•	•	•	•	•	•
400 - Plan Support (Data, Modeling, GIS)														
Task 401: HPMS Traffic Counts	•	•	•	•		•	•	•	•	•	•	•	•	
Task 402: SADES Inventory	•	•						•	•	•		•		•
Task 403: Geographic Information System	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 404: Demographics	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 405: Equipment and Supplies	•	•	•	•		•	•	•	•	•	•	•		
Task 406: Travel Demand Model	•			•		•	•	•	•	•	•	•	•	•
Task 407: Memberships, Subscriptions and Professional Costs	•	•	•	•	•	•	•	•	•	•	•	•	•	•
500 - Technical Assistance and Transit Support														
Task 501: Local and Regional Assistance	•	•	•	•		•	•	•	•	•	•	•	•	•
Task 502: Statewide Assistance	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Task 503: Local Public Agency Program Support	•	•						•	•	•	•	•	•	•
Task 504: Special Projects								•	•	•	•	•	•	•
Task 505: Regional Coordinating Council (RCC)	•							•	•	•	•	•	•	•
Task 506: Transit Assistance	•	•	•					•	•	•	•	•	•	•
Task 507: Transportation Demand Management	•	•	•					•	•	•	•	•	•	•
600 – Nashua Interregional Transit Expansion Study														
Task 601: Public Outreach	•	•	•					•	•	•	•	•	•	•
Task 602: Operational Analysis & Feasibility Review	•	•	•					•	•	•	•	•	•	•

Current transportation planning regulations require efforts be made to involve users of public transportation in the planning process. NRPC has done this for a number of years through on-board surveys and active coordination with the Nashua Transit System and Souhegan Valley Transportation Collaborative. Additionally, freight shippers must be incorporated into the process. A specific work task associated with this UPWP is to improve coordination with the freight industry and develop and maintain a list of companies that will be utilized for the Transportation Improvement Program (TIP)/ Metropolitan Transportation Plan (MTP) development public involvement process.

Recently completed regional planning activities placed emphasis on the six **Livability Principles** developed by the US Environmental Protection Agency (EPA), Department of Housing and Urban Development (HUD) and Department of Transportation (USDOT). These principles support community-based planning decisions to consider:

1. More Transportation Choices:
 - Develop safe, reliable and affordable transportation choices to decrease household transportation costs, reduce energy consumption and dependence on foreign oil, improve air quality, reduce greenhouse gas emissions, and promote public health.
2. Equitable, Affordable Housing:
 - Expand location- and energy-efficient housing choices for people of all ages, incomes, races, and ethnicities to increase mobility and lower the combined cost of housing and transportation.
3. Economic Competitiveness:
 - Improve economic competitiveness through reliable and timely access to employment centers, educational opportunities, services and other basic needs by workers, as well as expanded business access to markets.
4. Support Existing Communities:
 - Provide analysis of strategies like transit oriented, mixed-use development, and land recycling—to increase community revitalization and the efficiency of public works investments and safeguard rural landscapes.
5. Coordinate Policies and Leverage Investment:
 - Provide information to communities that may allow Federal funding to remove barriers to collaboration, and increase effectiveness of all levels of government to plan for future growth, including making smart energy choices such as locally generated renewable energy.
6. Value Communities and Neighborhoods:
 - Provide opportunity for communities to enhance the unique characteristics by investing in healthy, safe, and walkable neighborhoods—rural, urban, or suburban.

The following matrix shows how the Livability Principles are reflected in the MPO work tasks:

UPWP Work Task	Livability Factors					
	1	2	3	4	5	6
100 - MPO Administration and Training						
Task 101: Invoices and Accounting						
Task 102: MPO/TMA Program Administration					•	
Task 103: Training	•	•	•	•	•	•
Task 104: Indirect Cost Adjustments	<i>Not Applicable</i>					
Task 105: Performance Measures	•	•	•	•	•	•
200 - Policy and Planning						
Task 201: Ten Year Plan	•		•	•	•	•
Task 202: Planning and Environmental Linkages	•	•	•	•	•	•
Task 203: Transportation Planners Collaborative					•	
Task 204: Interagency Consultation Process					•	
Task 205: Transportation Improvement Program	•		•	•	•	•
Task 206: Congestion Management Process	•		•		•	
Task 207: Intelligent Transportation System			•			
Task 208: Metropolitan Transportation Plan	•	•	•	•	•	•
Task 209: Transportation Air Quality Conformity	•	•		•	•	
Task 210: State Long Range Transportation Plan	•		•	•	•	•
Task 211: Bicycle and Pedestrian Planning	•	•	•	•	•	•
Task 212: Freight Planning			•	•	•	
300 - Public Involvement and Coordination						
Task 301: Transportation Technical Advisory Committee	•			•	•	•
Task 302: Committee Meetings	•	•	•	•	•	•
Task 303: Public Participation Plan				•	•	•
Task 304: Public Outreach				•	•	•
Task 305: MPO/TMA Policy Committee Meetings	•	•	•	•	•	•
400 - Plan Support (Data, Modeling, GIS)						
Task 401: HPMS Traffic Counts			•	•		
Task 402: SADES Inventory	•			•	•	•
Task 403: Geographic Information System	•	•	•	•	•	•
Task 404: Demographics	•	•	•	•	•	
Task 405: Equipment and Supplies				•		
Task 406: Travel Demand Model	•	•	•	•	•	
Task 407: Memberships, Subscriptions and Professional Costs	•	•	•	•	•	•
500 - Technical Assistance and Transit Support						
Task 501: Local and Regional Assistance	•	•	•	•	•	•
Task 502: Statewide Assistance	•	•	•	•	•	
Task 503: Local Public Agency Program Support				•	•	•
Task 504: Special Projects	•	•	•	•	•	•
Task 505: Regional Coordinating Council (RCC)	•	•	•	•	•	•
Task 506: Transit Assistance	•	•	•	•	•	•
Task 507: Transportation Demand Management	•	•	•	•	•	•
600 – Nashua Interregional Transit Feasibility Study						
Task 601: Public Outreach	•	•	•	•	•	•
Task 602: Operational Analysis & Feasibility Review	•	•	•	•	•	•

This work program contains five work categories developed jointly by FHWA, NHDOT, Nashua Transit System (NTS) and the MPO. Each work category lists specific tasks and a list of possible work products. While many work products are maintained on an ongoing basis, those with a shorter timeframe are annotated as to when progress can be anticipated. Each work category includes the anticipated budget required to substantially complete the listed tasks within the fiscal year. NRPC, with guidance and direction from the Transportation Technical Advisory Committee, the NRPC Executive Committee and full Commission, is the responsible party for all tasks identified within this UPWP, unless otherwise specified.

CATEGORY 100 - MPO ADMINISTRATION AND TRAINING

Purpose: This category facilitates the management and supporting administrative tasks that are necessary for the operation of the MPO and Transportation Planning Program. It includes general administrative tasks relevant to the fulfillment of the FY 2020-2021 MPO Unified Planning Work Program (UPWP). It ensures all work is in compliance with federal and state regulations. This includes completion of timesheets and monthly work program reports, attendance at staff meetings, training and other administrative tasks. It includes coordination meetings between MPOs relative to the development and monitoring of Performance Measures.

TASK 101 Invoices and Accounting

Reporting: NRPC will develop detailed invoices and monthly reports that describe transportation planning activities completed by staff. This task will include refinements to the financial accounting and reporting system and procedures as necessary.

Financial Management and Audit: NRPC staff will conduct the day to day accounting needs of the MPO. This includes refinements to the MPO financial accounting and reporting system to better meet agency and reporting needs. NRPC staff will support work related to the preparation of financial audits in compliance with the OMB Super Circular.

Contract Administration: NRPC staff will administer the UPWP contract and any transportation related sub-contracts and agreements. This task will include meetings with NHDOT to discuss UPWP contracts, maintenance of the Disadvantaged Business Enterprise (DBE) program and goals, and Title VI implementation.

Task 101 – Anticipated Outcomes:

- Weekly timesheets with notes detailing UPWP timesheet charges, monthly invoices with progress reports.
- Annual audit report and implementation of any management recommendations from auditors.

TASK 102 MPO/TMA Program Administration

UPWP Development & Amendments: This task provides for the development, implementation, and administration of the MPO 2022-2023 UPWP and amendment of the FY 2020-2021 UPWP.

UPWP Administration: This task is to provide for the general administrative tasks relevant to the fulfillment of the FY 2020-2021 UPWP and to ensure compliance with federal and state regulations. This includes monthly work program reports, the annual UPWP performance report, the UPWP mid contract review meeting, the NHDOT UPWP Midterm Review, attendance at bi-weekly transportation staff meetings and bi-weekly Project Management meetings and other transportation-related administrative tasks.

MPO Operations: This task allows NRPC staff to address changes and updates to the MPO Prospectus, NRPC By-laws, and to maintain the Transportation Technical Advisory Committee (TTAC) Membership. It also allows management to address the day to day operations of the MPO including staff supervision, review of time sheets and transportation program coordination at an agency level. Updates to the MPO Prospectus and MPO By-laws as needed to update policies specific to the Transportation Management Area (TMA).

Implementation of Federal Performance Based Planning requirements will be conducted through various tasks identified in this UPWP, including MPO Program Administration. Collaboration and coordination with regional transit providers, the other NH MPOs, NHDOT, FHWA and FTA will continue through regularly scheduled meetings and workshops to review, refine, and evaluate mandated and supplemental measures; to assess progress towards meeting targets; and to incorporate measures into MPO plans and processes.

MPO Certification Review: Prepare for the 2020 TMA Certification Review by FHWA and FTA. Staff will address action items identified in the Review Report through update of the MTP and other UPWP task categories.

Task 102 – Anticipated Outcomes:

- Execution of TMA Programming authority.
- Development of Fiscal Year (FY) 2022 – 2023 UPWP (December 2020 – February 2021).
- Reports and amendments to FY 2020-2021 UPWP and closeout of FY 2018-2019 UPWP.
- UPWP Midterm Review Report.
- Develop materials for 2019 Federal Certification Review.

TASK 103 Training

Training: This task entails attendance at transportation conferences and training for staff to improve and maintain transportation planning and policy, GIS, and other related skills. Specific tasks include, but are not limited to, the following:

- Transportation training events offered by FHWA, FTA, NHDOT, CTAA (Community Transportation Association of America), NTI (National Transit Institute), ITE (Institute of Transportation Engineers) and other relevant organizations.

- GIS training offered by commercial and nonprofit software vendors, academic institutions, and regional professional organizations, including but not limited to ESRI and its partners, NEURISA, NEARC, and UNH and its affiliates.
- TransCAD and Synchro software training, offered by private sector companies.
- Statistical and demographic data training offered by the U.S. Census Bureau, NHOEP and other relevant organizations.

Review of Transportation Materials and Documents: Staff will become familiar with transportation materials from a range of sources, including FHWA, TTA, NHDOT, NHDES in order to become familiar with guidance on implementing transportation planning programs.

Task 103 – Anticipated Outcomes:

- Improved staff skills to implement effective regional and transportation planning activities
- Knowledge of CFRs, federal and state guidance, rulemakings, new reports, best practices research and other transportation-related planning materials.
- Transportation planning training course certifications.
- Summaries of information obtained at conferences, workshops, seminars.

TASK 104 Indirect Cost Adjustments

Indirect Cost Set Aside: Not applicable; NRPC will negotiate a predetermined rate.

TASK 105 Performance Measures

This task provides for the administration functions associated with the development of federally-mandated performance measures and targets. NRPC participates in Partnering for Performance in NH (PFPNH), comprised of the four NH MPOS and federal and state agencies to address the shift towards performance-based planning, as well as moving toward coordinated approaches to transportation planning in general.

Task 105 – Anticipated Outcomes:

- Participation in monthly meetings of the Partnering for Performance in New Hampshire MPO group to evaluate measures and progress towards meeting statewide and MPO targets.
- Provide data, analysis and memos to the PFPNH group as needed.

CATEGORY 200 – POLICY AND PLANNING

Purpose: The metropolitan transportation planning process is a means to bring people, information, and ideas together to inform regional transportation decisions in a continuing, cooperative, and comprehensive performance-based manner (3C process). A core function of the MPO is to provide necessary technical and coordinating assistance to the public and agencies that are involved in the 3C process. To fulfill the requirements of this function the MPO established policy and procedures to:

- Encourage citizen involvement in the transportation planning process.
- Coordinate with partner agencies to ensure state and federal requirements are met.

This category will include all NRPC activities oriented to the development of the Region's Transportation Improvement Program, long range Metropolitan Transportation Plan and the State's Ten Year Transportation Plan. A key objective of this category is to develop plans and policies for transportation modes and air quality, and to assist efforts to streamline environmental review.

TASK 201 Ten Year Plan

Ten Year Plan Development: NRPC will use the Federal transportation planning process to feed the State's Ten-Year Transportation Improvement Plan (TYP). NRPC will work collaboratively with the NHDOT, FHWA and the other RPCs and MPOs to revise New Hampshire's transportation planning process so it better aligns with Federal processes and reflects regional priorities. Staff will support NHDOT with the implementation of the State's TYP process, participate in the Governor's Advisory Commission on Intermodal Transportation (GACIT) hearings, and coordinate with NHDOT staff on state sponsored projects. These activities will take place concurrent with the maintenance of and updates to the MPO Transportation Improvement Program (TIP) and long-range Metropolitan Transportation Plan (MTP).

Task 201 – Anticipated Outcomes:

- Documentation of the NRPC Ten-Year Transportation Improvement Plan project solicitation, evaluation and prioritization process (each TYP round)
- Participation in the GACIT Public Hearings for FY 2021-30 TYP (September – December 2019)
- Project solicitation process for submission to TYP process (Jan-March 2020 for MTP update)
- Project scoring and prioritization (Jan-April 2021) and recommendations to NHDOT

TASK 202 Planning and Environmental Linkages

This task includes all activities that pertain to the connection between land use, water and natural resources, economic development and infrastructure resiliency with the regional transportation system.

Climate Change, Livability and Sustainability: NRPC will work to identify and implement appropriate transportation and land use recommendations identified in the NRPC Regional Plan and NH Climate Action Plan. NRPC will work to address resilience to climate change and extreme weather, and present approaches/tools for assessing criticality and sensitivity of different assets in the context of assessing vulnerability to climate change and extreme weather events. This effort will also address the six livability principles developed by the US DOT, HUD and EPA.

Environmental Mitigation: NRPC will monitor environmental issues in support of the region's transportation planning effort. Specific activities may focus on transportation-related impacts on water quality, wetlands, habitat, hazard mitigation, and historic, cultural and archeological resources arising from the proposed or actual construction, operation, and or maintenance of the transportation system.

NRPC will continue to include discussions of environmental mitigation strategies as new projects are incorporated into MTP updates.

Environmental Justice: NRPC monitors project development to ensure that there is no disproportionate negative impact on any minority or low-income population and identify project EJ benefits. Input on the development of the transportation system is actively solicited from minority and low income communities as warranted. NRPC will actively coordinate with other organizations that provide services to low and moderate income and other vulnerable populations. The NRPC Regional Plan and MTP provide updated data sets to improve performance against this metric.

Task 202 – Anticipated Outcomes:

- Develop techniques to analyze environmental justice impacts of projects and develop strategies for inclusion in MTP updates and continued application of annually released American Community Survey (ACS) demographic data to develop updated EJ information
- Staffing and technical assistance to the Nashua/Manchester Regional Stormwater Coalition
- Participation in local energy working groups related to alternative fuel and electric vehicles as needed/as requested
- Participation in the Resilient Nashua Initiative
- Updates to environmental mitigation on existing and proposed long range transportation projects as needed following TIP/MTP amendments and biennial updates

TASK 203 Transportation Planners Collaborative

Participation in the Collaborative: NRPC participates in the Transportation Planners Collaborative (TPC) process. This task will require NRPC staff to participate in quarterly onsite meetings. In addition, NRPC staff will review meeting materials in advance of each meeting, and, if necessary prepare written memos or presentations relevant to the meeting agenda. Staff may also be assigned to the TPC Steering Committee. During this contract period, the TPC will continue with collaborative efforts with NHDOT, FHWA and the other RPCs/MPOs to align New Hampshire's transportation planning process with Federal processes. Other collaborative efforts as determined by NHDOT.

Task 203 – Anticipated Outcomes:

- Participation in TPC group meetings
- Written memos or presentations relevant to the quarterly meeting agenda as needed

TASK 204 Interagency Consultation Process

Participation in the ICP: NRPC participates in the interagency consultation process. These monthly conference calls or onsite meetings disseminate information and coordinate activities and efforts between the MPOs, NHDOT, NHDES, FHWA and FTA. NRPC staff will review meeting materials in advance of each meeting, and, if necessary, prepare written memos or presentations relevant to the meeting agenda.

Task 204 – Anticipated Outcomes:

- Participation in the Interagency Consultation Process, participation in monthly meetings/calls
- Reports to the MPO on relevant topics as needed
- Written minutes, memos or presentations relevant to the meeting agenda as needed

TASK 205 Transportation Improvement Program

MPO TIP Preparation: Under this task NRPC will maintain and update the region’s FY 2019-2022 Transportation Improvement Program (TIP) through minor revisions/amendments and prepare the FY 2021 – 2024 TIP in cooperation with local, state and federal agencies. The TIP will include surface transportation projects funded with federal resources and other regionally significant projects. This process will include a public participation element, demonstrate fiscal constraint and achievement of performance targets and include an Air Quality Conformity Determination. Public information meetings will be held during development of the TIP and a public hearing on the draft will be held, followed by MPO endorsement. All work will be completed in compliance with 23 CFR Part 450, Subpart C. In addition, the annual List of Obligated Projects will be produced each year in December.

During the first year of the work program (July 2019 – June 2020) work under this task entail the maintenance of the 2019 – 2022 Transportation Improvement Program (TIP). This will require reviewing and processing minor revisions and amendments to the document. NRPC staff will be required to monitor project status, communicate with NHDOT staff, and community representatives to ensure projects changes are accurately represented in the TIP. In addition, full amendments to the TIP will require staff to notice and hold a public hearing in advance of MPO approval

During the second year of the work program (July 2020 –June 2021) maintenance efforts of the existing 2019 – 2022 TIP will continue. However, more emphasis will be placed on the development of the draft 2021 – 2024 TIP. This will require staff to ensure that project priorities are correctly conveyed to NHDOT so that they may be incorporated into the draft STIP without change. In addition, NRPC staff will coordinate with NHDOT to ensure consistency between the region's priorities and NHDOT’s development of the Ten Year Plan. Upon completion of the state's Ten-Year Plan Process, NRPC will incorporate all of the region's projects from the Ten-Year Plan into the 2021 – 2024 TIP.

Project Monitoring: Effective project monitoring is critical to the planning process, maintaining fiscal constraint and to timely project delivery. In cooperation with NHDOT, NRPC will monitor project progress and make recommendations to optimize project phasing and implementation. The TIP will incorporate collaboratively developed MPO performance measures and include a report describing the progress made towards meeting established targets.

Obligated Project List: NRPC will work cooperatively with NHDOT and transit providers to develop an annual listing of obligated projects, including investments in pedestrian walkways and bicycle transportation facilities, for which Federal funds have been obligated in the preceding year. The listing shall be published or otherwise made available by the cooperative effort of the State, transit operator, and metropolitan planning organization for public review. The listing shall be consistent with the funding

categories identified in each metropolitan transportation improvement program (TIP). The annual listing will be completed at the end of the program year and may include visual components such as maps and charts to ensure the information is conveyed to a broad audience with varying levels of familiarity with the transportation planning process. The list will be posted on the NRPC web site.

Task 205 – Anticipated Outcomes:

- Documentation and processing of 2019 – 2022 TIP Minor Revisions and Amendments
- Maintenance of the TIP project database.
- Project tracking related to performance-based planning
- Execution of TMA Programming authority
- Development of the Draft 2021-2024 NRPC MPO TIP (November 2020-February 2021)
- Development of TIP Performance Report
- Development of the Obligated Project List (December 2019 & 2020)

TASK 206 Congestion Management Process

Congestion Management Process Implementation: The Congestion Management Process (CMP) refers to a systematic approach, collaboratively developed and implemented throughout a large metropolitan region that provides for the safe and effective management and operation of new and existing transportation facilities through the use of demand reduction and operational management strategies. In its capacity as a TMA, the Nashua MPO must demonstrate compliance with CMP requirements. This will involve data collection tasks such as traffic counts, park-and-ride use, use of the National Road Performance Management Data Set (NPMRDS) and other sources for obtaining probe data. Data are analyzed and compiled into corridor level reports. The entire CMP process is documented in a regional report and summarized in each MTP update.

Task 206 – Anticipated Outcomes:

- Update all CMP corridors for peak period speeds using NPMRDS or other probe data
- Update of CMP reports and incorporate into the CMP document
- Update MTP CMP section with new corridor data
- Develop analytics to evaluate the impacts of strategies included in the 2010 Congestion Management Plan
- Updated Congestion Management Plan with strategies analysis (June 2020)

TASK 207 Intelligent Transportation Systems

Intelligent Transportation System (ITS) update and maintenance: NRPC is in the process of updating the Regional ITS Plan to be consistent with the Statewide ITS Architecture. ITS recommendations resulting from the CMP will be included in MTP updates to support operational improvements along CMP corridors in order to meet performance measures targets for congestion.

Task 207 – Anticipated Outcomes:

- Regional Intelligent Transportation System Plan Update (June 2020)
- MTP updates incorporating ITS recommendations

TASK 208 Metropolitan Transportation Plan

Metropolitan Transportation Plan Update (MTP): A major update of The Metropolitan Transportation Plan (MTP) resulted in an approved MPO draft document in December 2018. FHWA comments were incorporated and the Air Quality Conformity determination added to produce a final document which was adopted by the MPO in February 2019. Although a complete update is not required until December 2022, NRPC intends to keep the document current not only through minor updates to projects, as required, but adding or modifying content as warranted. This includes updates to system reporting for updated statewide and regional performance targets on an annual basis.

Task 208 – Anticipated Outcomes:

- Updated MTP project list and fiscal constraint analysis to maintain consistency with MPO TIP (each TIP amendment).
- Periodic updates of 2019 – 2045 Metropolitan Transportation Plan to incorporate new data & analysis, priorities and summaries of new planning studies.
- Updates of MTP System Performance Report as targets are revised with new data.
- Updates of environmental mitigation measures as pertinent to new projects included in the MTP.
- Development of a standard Fiscal Constraint/Operations & Maintenance Needs methodology for implementation by the NH MPOs and incorporate into MTP updates.
- Analyses and technical memos supporting the long-range needs of the region outlined in the MTP.

TASK 209 Transportation Air Quality Conformity

Conformity Monitoring: This task includes work related to satisfying the requirements of the Clean Air Act Section 176(c), USC 93 and other policy documents from FHWA and EPA relating to air quality conformity. As of July 20, 2013, all of New Hampshire is unclassifiable/attainment for the 2008 8-Hour Ozone National Ambient Air Quality Standard (the 2008 ozone standard) and in April 2015, the 1997 8-Hour Ozone National Ambient Air Quality Standard (the 1997 ozone standard) was revoked for all purposes, including transportation conformity, in the Boston-Manchester-Portsmouth (SE) NH area. Recent guidance from FHWA in reaction to the US Court of Appeals decision in the South Coast Air Quality Management District vs Environmental Protection Agency (No. 15-1115), requires that the MPO once again demonstrate conformity to the 1997 Ozone Standards. While this requirement did not require air emissions modeling for the 2019 TIP and MTP documents, the potential requirement to do so remains for future conformity determinations and NRPC will participate in emissions analysis as necessary.

In addition, on March 10, 2014, the U.S. Environmental Protection Agency approved a limited maintenance plan to address Carbon Monoxide (CO) for the City of Nashua, satisfying the need for future regional CO emission analyses. Therefore, NRPC no longer conducts a regional emission analysis for CO. However, all other transportation conformity requirements under 40 CFR 93.109(b) continue to apply, including the requirement for the MPO to make a positive conformity determination for the TIP and MTP, and project level conformity determinations based on carbon monoxide hot spot analyses under 40 CFR 93.116.

Task 209 – Anticipated Outcomes:

- Air quality conformity determinations for updates of the TIP and MTP. Planning level under existing requirements.
- Technical memos regarding the status of the revised ozone standard as necessary.
- Model analysis in support of the development of the mobile source air quality budget in the State Implementation Plan, if required.
- Monitoring of anti-backsliding provisions in coordination with NHDOT, NHDES and EPA.

TASK 210 State Long Range Transportation Plan

NRPC will participate in/assist NHDOT efforts to update the Statewide Long Range Transportation Plan. An update of the Plan will be undertaken during the 2020-21 period.

Task 210 – Anticipated Outcomes

- Assist with scoping the update and consultant selection process.
- Provide regional data and technical assistance to NHDOT as requested.

TASK 211 Bicycle and Pedestrian Planning

NRPC will continue outreach and planning efforts to improve, enhance and expand bicycle and pedestrian facilities in the region. Staff will work cooperatively with the Regional Bicycle-Pedestrian Technical Advisory Committee, NHDOT Complete Streets Advisory Committee, other related groups and businesses to support cycling and walking. NRPC will follow up on the FHWA funded Bicycle Level of Stress analysis, which is developing LTS ratings for the bicycle network. Follow-up data collection and analysis will provide statistics of bicycle miles of travel (BMT) in each LTS category.

Task 211 – Anticipated Outcomes:

- Provide staff support to the Regional Bicycle-Pedestrian Technical Advisory Committee.
- Implementation of goals and objectives of Regional Bicycle-Pedestrian Plan.
- Updated Bicycle Pedestrian Plan (June 2021).
- Assistance to communities working to develop bicycle and pedestrian infrastructure, complete streets and multi-use trail projects as requested.

- Bike and pedestrian traffic counting program implementation, including analysis of Strava data and data from various bike-ped counting equipment.
- Incorporation of innovative analysis practices into bike-ped planning process, including Level of Traffic Stress for bikes and Level of Walkability for walking. Calculation of BMT by LTS category.

TASK 212 Freight Planning

Freight Planning has been designated as a new task item in the FY 2020-2021 UPWP; formerly work related to freight has been included under Task 208, MTP development. Most recently, NRPC provided input to the development of the statewide Critical Freight Corridors designation process. Staff will continue to update the dataset related to these roadways, as well as others which serve significant freight functions. Data collection activities include non-HPMS vehicle classification counts, development of truck generation rates and identification of truck origin-destination trip patterns.

Task 212 – Anticipated Outcomes:

- Provide technical assistance and support to updates and revisions to the State Freight Plan.
- Vehicle classification counts at non-HPMS count locations.
- Develop estimates of truck generation rates at activity centers.
- Identify truck origin-destination truck trip patterns, dependent on data availability.
- Obtain local municipality perspectives on freight planning needs.

CATEGORY 300 - PUBLIC INVOLVEMENT AND COORDINATION

Purpose: This category includes tasks that provide necessary assistance to agencies that are involved in the 3C transportation planning process, including the development of MPO policies, plans and project prioritization. It is also intended to support and encourage citizen involvement in the transportation planning process.

TASK 301 Transportation Technical Advisory Committee

Facilitate the Transportation Technical Advisory Committee: The Transportation Technical Advisory Committee (TTAC) has been established by the NRPC for the purpose of ensuring that transportation related decisions of the Nashua Regional Planning Commission are based on technically sound planning principles and the goals and objectives of its member communities. The TTAC responsibilities include:

- Provide recommendations to the Commission and the NHDOT on project funding priorities.
- Rendering technical advice to the NRPC regarding contemplated or ongoing projects in the form of written memorandums and presentations at quarterly Commission meetings as requested.
- Facilitating an exchange of views with the general public to provide information and elicit input regarding the transportation planning process, programs and projects.

The NRPC Staff provides technical support to the TTAC in the form of meeting content, related transportation and land use data, technical memorandums and presentations. The NRPC staff facilitates up to ten TTAC meetings per year.

NRPC Staff will also attend TAC meetings at the other adjacent NH and Mass. MPOs as needed to effectively coordinate planning activities.

Task 301 – Anticipated Outcomes:

- Hosting of and participation in at least 8 TTAC meetings per year.
- Participation in other MPO Technical Advisory Committee meetings (including Massachusetts) as needed to coordinate planning tasks.
- Technical memos, presentations, white papers and recommendations detailing staff analysis of transportation issues and needs of the region and NHDOT programs and initiatives.
- Meeting minutes and agendas and related committee information.

TASK 302 Committee Meetings

NRPC Executive Committee: Under the Article VI of the [NRPC by-laws](#) the NRPC Executive Committee shall conduct the affairs of the Commission and MPO at times when the Commission is not in session and shall report on its actions to the Commission at the next Commission meeting.

NRPC staff provides technical support to the Executive Committee in the form of meeting content, related transportation and land use data, technical memorandums and presentations. The Assistant Director and MPO Coordinator participate in Executive Committee meetings as needed. Staff facilitates public hearings in support of the transportation planning process and endorsement of federally mandated documents.

Task 302 – Anticipated Outcomes:

- Provide staff support to the NRPC Executive Committee at monthly meetings as needed to conduct the affairs of the Commission and MPO at times when the Commission is not in session.
- Policy memorandums, presentations and statements in support of regional transportation needs and priorities.
- Minutes and related committee information.
- Participation in and support of the biennial Ten Year Plan Process as needed.

TASK 303 Public Participation Plan

Public Participation Plan Maintenance: NRPC maintains a stand-alone, written plan for involving the public in the transportation planning process and solicit comments on MPO documents. NRPC is now in the process of updating the existing Public Participation Plan (PPP) to incorporate the recommendations from the 2016 TMA Certification review. This update is likely to carryover to the FY 2020-21 UPWP

period. The PPP is designed to meet the region's changing needs while taking advantage of the latest in communications technologies. Special efforts will be made to include the needs minority and low-income populations in plan development.

Task 303 – Anticipated Outcomes:

- Involvement of underrepresented populations for Plan update.
- Complete public participation and MPO adoption process of FY 2019 Plan update.

TASK 304 Public Outreach

Coordination of Public Outreach: NRPC has a Community Relations Coordinator (CRC) on staff to increase involvement in the transportation planning process across all sectors of the region. NRPC staff facilitates citizen involvement through electronic communications, published reports, informational meetings, forums, charrettes, workshops and the news media.

NRPC works with the NHDOT to facilitate public informational meetings on the state's transportation program and any other transportation planning activities. NRPC provides assistance to the NHDOT in public forums regarding regional transportation projects and other outreach meetings.

NRPC ensures that all required public notices relative to the transportation planning process are published in local newspapers and electronically on the NRPC website and in social media in a manner that is consistent the federal requirements and NRPC's Public Participation Plan.

Social Media: NRPC maintains social media such as Facebook, Twitter and YouTube accounts which are used to educate and inform policy makers and members of the public regarding transportation issues. Posts and Tweets contain summaries of important transportation planning documents and modal plans as well as announcements of public meeting and public participation opportunities. Videos of transportation related public meetings and/or presentations may be produced, edited and made available.

E-news : NRPC uses an email Service (currently Constant Contact) to provide more frequent updates on transportation planning activities.

www.nashuarpc.org: The NRPC web page has become an increasingly important method of outreach and education to the public on transportation issues. NRPC will continue to develop the web page to provide information on all the major transportation modes and issues and also on specific corridor or area plans that are under development. NRPC will also provide links to the web pages of key transportation system operators and partners in the transportation planning process. In an effort to improve upon web-presence performance, NRPC commits to achieving the following:

- Posting meeting minutes and materials within 30 days of public meetings;
- Annual maintenance of membership/rules of procedure for transportation related committees.

Task 304 – Anticipated Outcomes:

- Addition of planning products, transportation project information on the NRPC website.
- Meeting announcements.
- Social media and Constant Contact posts.
- Public hearing minutes.
- Legal Notices in support of all transportation planning activities.
- Meetings, workshops, charrettes and outreach events.
- Targeted outreach to engage underrepresented transportation groups, including low-income and minority populations.

TASK 305 MPO/TMA Policy Committee Meetings

MPO/TMA Policy Committee: The NRPC full commission acts as the MPO policy committee. The Nashua Regional Planning Commission, as the designated MPO, provides direction and coordination for the conduct of the transportation planning process by its staff. Its main functions include:

- Establishing goals, objectives and policies for transportation in the NRPC area with consideration of recommendations by the TTAC.
- Directing the preparation, update and adoption of the Metropolitan Transportation Plan (MTP) and the Transportation Improvement Program (TIP) for the NRPC area and ensuring that the documents are in conformance with the Federal Highway Administration fiscal constraint requirements, per 23 CFR 450 Subpart C.
- Reviewing transportation proposals and projects which require coordination with transportation activities, in order to assure consistency with adopted transportation plans.
- Approving the development of the Unified Planning Work Program (UPWP) and the annual budget necessary to conduct the work tasks.

MPO meetings include representatives from each community within the designated regional planning boundary, as well as additional parties who are part of NRPC MPO for conducting transportation business. The meetings are held quarterly. Under the NRPC by-laws the NRPC Executive Committee shall conduct the affairs of the Commission at times when the Commission is not in session and shall report on its actions to the Commission at the next Commission meeting.

The NRPC Staff provides technical support to the Commission and Executive Committee in the form of meeting content, related transportation and land use data, technical memorandums and presentations. The NRPC staff participates in all Commission and Executive Committee meetings. Staff facilitates public hearings in support of the transportation planning process and endorsement of federally mandated documents.

Task 305 – Anticipated Outcomes:

- Policy memorandums, presentations and statements in support of regional transportation needs and priorities for quarterly meetings.

- Minutes and related committee information for quarterly meetings.
- Participation in and support of the biennial Ten Year Plan Process.
- Execution of TMA Programming authority.

CATEGORY 400 – PLAN SUPPORT (DATA, MODELING, GIS)

Purpose: Reliable data, tools, and analysis methods are critical to effective performance-based planning. Data-driven analysis supports the establishment of reporting baselines, guides objective transportation-decision making, and supports objective progress measurement through time. Specifically, plan support activities will assist NRPC to:

- Accurately forecast transportation needs and land use to provide a minimum 20-year planning horizon for all transportation planning purposes.
- Effectively target transportation investments within a resource-constrained context.
- Achieve conformance with all federally-mandated requirements.
- Avoid or minimize adverse impacts to low income and minority populations and to target outreach to Limited English Proficiency (LEP) groups/populations.
- Protect environmental, cultural, and historic resources in the region.
- Leverage technology investment, increase data sharing, and remove barriers to coordination, leading to increase effectiveness of government.

Data: To support transportation planning NRPC manages a comprehensive data compilation process that usually involves many of the following tasks of the typical data development lifecycle: field data collection or other types of data origination, processing of shared data from external parties, quality assurance, documentation (metadata), and data publication, inter-agency sharing, and associated outreach.

Tools: To support transportation planning NRPC maintains expertise in: field asset condition evaluation tools; travel-demand modelling; traffic simulation software; GIS-based decision support tools, e.g. mapping and visualization, proximity analysis, growth and build-out modelling, scenario-planning; relational database management software (RDBMS); and online/cloud-based information collaborative frameworks.

TASK 401 Traffic Count Program

NHDOT Traffic Count Program: NRPC will continue its responsibility for the NHDOT’s Automatic Traffic Recorder (ATR) count program. Staff will perform at least 130 24-hour ATR counts per an NRPC established schedule, up to 10 of which will include vehicle classification counts. Count data will be provided to NHDOT each month throughout the counting season. At the request of NHDOT, NRPC will also conduct up to 10 intersection turning movement counts during the two-year contract period. Where applicable the NRPC will coordinate data collection efforts to maximize efficiency. All data will be

made available online through the NRPC website. NRPC will also conduct ATR counts at locations as needed in order to support development and calibration of the TransCAD regional travel model.

Task 401 – Anticipated Outcomes

- Automatic Traffic Counts to support the NHDOT Highway Performance Monitoring System (HPMS) program at 130 sites per year.
- GIS traffic count database updates and maintenance.
- Updated traffic count web page and traffic flow map for NRPC region.
- Up to 5 peak hour traffic counts, capacity analyses and level of service analyses per year as requested by NHDOT.
- Up to 50 traffic counts per year to support the regional travel model calibration.

TASK 402 Statewide Asset Data Exchange System (SADES) Inventory

SADES (Statewide Asset Data Exchange System) establishes a primary transportation inventory of assets, including a maintainable condition assessment program for state and local agencies. These assets include stream crossings, pedestrian infrastructure, Road Surface Management System (RSMS), stream crossings, guardrails and closed road drainage systems. NRPC anticipates putting emphasis on the following specific modules:

Road Surface Management System (RSMS): Activities and staff time will be devoted to the development and maintenance of road surface condition data, identification of priorities for repair and strategies to best facilitate improvements, general cost estimates, and planning for future maintenance needs.

Pedestrian Infrastructure Assessment: NRPC staff may use the SADES Pedestrian Assessment model to conduct inventory and evaluate sidewalks, curb ramps and This data will support pedestrian planning in the region and support performance based planning measures focused on active transportation.

Closed Drainage: NRPC will continue to track and participate in the development in the NHDOT’s closed drainage SADES module, specifically road drainage structures, outfalls, and pipes, and associated photos to support stormwater planning and management in the region.

Additionally, any data collected through the **culvert inventory** module will be used to support performance-based planning metrics that assess resiliency of the surface transportation network and will support communities with hazard mitigation planning and MS4 permits.

Task 402 – Anticipated Outcomes:

- SADES field inventory and analysis for up to two communities per year.
- Attendance at meetings with municipal staff and officials to present analysis and findings of SADES projects.

- Follow up with communities for which SADES field inventory has been conducted to perform tracking of implementation plans and evaluating effectiveness of the program. Brookline's implementation of RSMS recommendations will be evaluated during the FY 2020-21 period.
- Creation of associated GIS data layers

TASK 403 Geographic Information System

Staff will maintain, update, and analyze as necessary GIS databases, including spatial and attribute information, for all important variables for the transportation program. These may include but are not limited to:

- ***Inventory of Regional Transportation Infrastructure:*** NRPC will continue to collect and maintain GIS location and attribute information on transportation assets in the region to support general transportation planning, performance-based planning, and the traffic model. These data layers may include, but are not limited to:
 - Road network infrastructure and input files associated with transportation modeling including friction factors, network delineation, and incorporation of ground counts.
 - Comprehensive mapping inventory of the physical and operational components of the public transit system in the MPO region.
 - Active transportation infrastructure (sidewalk, trails and paths, crosswalks, signals, etc.).
 - Road facilities assets such as intelligent transportation system (ITS) infrastructure and stormwater infrastructure.
- ***Transportation System Operational and Safety Data:*** NRPC will continue to gauge the utilization and safety performance of the regional transportation system by supporting data development and/or compilation in the areas of:
 - Highway performance monitoring system traffic counts combined with other network volume information.
 - NHDOT Crash statistics and other safety measures.
- ***Regional Land Use Monitoring Data:*** NRPC will continue to track regional growth patterns and update land use files to support general transportation planning and the traffic model. Specifically, the following conditions will be characterized in GIS, at a point, parcel, or traffic analysis zone (TAZ) level of geography:
 - Any new residential, commercial and industrial development.
 - Environmental features (wetlands, habitat, flood plains, etc.).
 - Updating and digitizing datasets on the elevation and other characteristics of roads, highways, bridges, etc.
 - Restrictions on use (zoning, conservation easements, etc.).
 - Historical, archeological, and other cultural resources for use in the model and other transportation projects.

- **Demographic and Socioeconomic Conditions:** NRPC will incorporate GIS datasets relative to the current and future population in order to reflect changing demands on the transportation system and to help prioritize investment. Examples of such datasets may include, but are not limited to:
 - Current and projected demographics on the general population and vulnerable population groups.
 - Estimates of current and projected socioeconomic conditions in the NRPC including small-area employment estimates.

Task 403 – Anticipated Outcomes:

- Maintenance and updates of analytical transportation and land-use planning projects database that includes network level plans, air quality, energy and transit.
- Annual review of transit system with updates to ridership statistics and reference maps as needed.
- GIS maps, applications, data, and reports illustrating spatial and/or attribute information, including but not limited to street inventory, traffic data, Travel Demand Model data, crash analyses, environmental and historic resources and roadway functional classification.
- Spatial data analysis to support MPO performance measurement development, assessment, and reporting.
- Up to two local build-out analysis updates per year with an accompanying annual review and update of regional build-out analysis, as needed.
- Biennial updates to employment density maps.
- GPS and field data collection on up to 3 trail and/or other active transportation systems per year.
- Maps of community key destinations and assets and their proximity to housing that enhance access to opportunity for residents.
- Maps of trails, sidewalks, parks, and recreation facilities to identify opportunities to access natural resources and open space and identify those within walking distance of homes and schools.
- Pedestrian infrastructure inventory and evaluation for up to one community per year.
- Culvert inventory and evaluation of transportation infrastructure vulnerability to failure for up to one community per year.

TASK 404 Demographics

Demographics Data: NRPC GIS staff will maintain and continue to develop a full set of demographic data to support all transportation planning purposes. Data from the Census, American Community Survey, and Census Transportation Planning Package will be compiled and maintained for staff and community use. Up to date data sets of employment by North American Industrial Class System and number of employees will also be maintained. NRPC will also analyze demographic data related to planning and project activities to ensure Environmental Justice requirements are met.

Task 404 – Anticipated Outcomes:

- Updates to data sets and mapping analyzing the regional demographic profile.
- Updates to core set of up-to-date ACS data points supporting general transportation planning activities.
- Updates to data in support of Title VI and Environmental Justice requirements.
- Analysis of updates to the ACS Journey to Work Data.
- Participation in the Census Boundary Annexation Survey (BAS), Participant Small Area Program (PSAP), Local Update of Census Addresses (LUCA) and other census initiatives impacting transportation modelling in general and/or urbanized area delineation specifically.
- Analysis of other Census Data Products as available and needed.

TASK 405 Equipment and Supplies

Traffic Counting Program Support: The purchase of equipment to support the traffic counting program will be undertaken, including repairing/replacing automatic traffic recorders, purchase of road tubes, batteries, spikes and tape.

NPMRDS (National Performance Management Research Data Set) Data Set: The four MPOs have agreed to partner in the purchase of enhanced tools for analysis of NPMRDS vehicle probe-based travel time, as well as extended coverage areas. Data coverage is now limited to the National Highway System, but the expanded coverage option will include all state roadways.

Task 405 – Anticipated Outcomes:

- Maintenance of automatic traffic counting equipment in good working order.
- Maintain inventory of traffic count supplies.
- Maintenance and replacement of other UPWP equipment.
- NPMRDS enhanced analytical tools and extended data coverage area.

TASK 406 Travel Demand Model

Regional Forecasts of Population and Employment: NRPC is required under federal mandate to plan for a minimum 20 year time horizon in its transportation planning products. This is accomplished by basing all NRPC regional plans on a consistent set of population and employment forecasts that are developed and adopted every ten years. NRPC utilizes a shift share methodology to forecast regional employment growth and a cohort survival method to forecast population changes.

Model Maintenance and Enhancements: The NRPC travel demand model was updated and recalibrated with 2010 Census data. Further calibration work has been done in the past year regarding modification of volume-delay functions, free-flow speeds and lane capacities. Staff will continue to check the network for attribute information that is in error or needs revision. NRPC will continue efforts with the other NH MPOs to investigate the potential for developing an interregional travel demand model for southern NH. This will include working with NHDOT to implement a household travel survey or alternative data source

that will provide updated model inputs to trip generation and distribution. Model User Group meetings will be held periodically to guide this effort and to share information about modeling practices. NRPC may conduct a limited survey effort should a cooperative with the state not proceed.

Travel Model Applications: For the 2018 MTP update, NRPC developed model estimates for the No-Build and Build alternatives. Should changes occur in long-range project priorities, the new Build alternative will be modeled and the results will be included in an MTP Minor Update. NRPC will also utilize the travel model as requested by local communities for testing project alternatives, as well as for testing on land use development and regional growth scenarios.

Task 406 – Anticipated Outcomes:

- Updates of population and employment forecasts.
- Continue calibration of highway assignments through modifying free flow speeds to replicate uncongested time period speeds and capacities to match congested period speeds.
- Updated model inputs obtained through surveys or other means.
- Up to 4 MPO Model User Group meetings per year.
- Updated users guide and technical documentation.

TASK 407 Memberships, Subscriptions and Professional Costs

Memberships, subscriptions and professional costs: NRPC staff may participate in professional memberships or subscriptions related to transportation planning in order to stay current on regulations and planning practices, advance technical, professional and outreach skills, and participate in knowledge sharing with peers. Current memberships, subscriptions and professional costs include:

- AMPO: Association of Metropolitan Planning Organizations (annual membership)
- APA: American Planners Association (annual membership, transportation portion only)
- NHPA: New Hampshire Planners Association (annual membership, transportation portion only)
- NADO: National Association of Development Organizations (annual membership, transportation portion only)
- NARC: National Association of Regional Councils (annual membership, transportation portion only)

Task 407 – Anticipated Outcomes:

- Participation in memberships and/or subscriptions related to transportation planning.

CATEGORY 500 - TECHNICAL ASSISTANCE AND TRANSIT SUPPORT

Purpose: The purpose of this work category is to provide technical assistance to integrate transportation, land use, and environmental planning techniques within the Nashua region. With reductions in funding for transportation improvements at the federal and state level it is increasingly clear that the NRPC cannot expect the construction of major new facilities to serve increased transportation needs. As a result, NRPC, the municipalities of the region, and public transit providers must work together to plan land use patterns that reduce dependence on private automobiles as the primary transportation mode and to improve the efficiency of the transportation system. Work tasks under this category will assist communities with coordinating both transportation and land use systems to successfully guide development and address issues such as automobile dependency and development patterns which hinder the implementation of a multi-modal transportation system.

Any sub-agreement in a contract between NRPC and its member communities that proposes to utilize UPWP funds in the execution of tasks must be reviewed and approved by NHDOT prior to execution of the contract. This would apply to conducting transportation chapters of Master Plans or any other transportation-related services that are provided in a contractual arrangement between NRPC and its municipalities.

TASK 501 Local and Regional Assistance

Technical Planning Assistance: Upon request by local officials, NRPC will provide technical assistance on the coordination of transportation and land use issues. Information and minor assistance by phone, letter or attendance at meetings to address transportation needs of member communities. Technical assistance will be provided to communities on a variety of transportation and land use issues such as, but not limited to, access management, corridor management, context sensitive solutions, transportation impacts of subdivision design and basic traffic analyses. Staff provides updated transportation chapters to municipal master plans as these documents are being revised.

NRPC staff may perform corridor and small area planning for regional projects identified in the Metropolitan Transportation Plan in order to advance them to implementation through the MPO Transportation Improvement Program. NH 101 Wilton to Bedford is a major project in the TIP for which refinement of improvements is needed. NRPC will provide updated traffic and safety analysis as needed to better define project improvements. Other corridors will be considered for analysis on a needs basis, as determined by municipalities.

Additional Traffic Data Collection: Staff will perform 24-hour automatic traffic recorder counts per NRPC established schedule for trend analysis and for local master plan updates. This may involve the development of traffic count location maps. Peak hour turning movement counts and capacity analysis at intersections may be conducted for local planning studies. NRPC will maintain a traffic count location GIS database and associated maps.

Training and Education: NRPC will develop and implement workshops and training sessions for the public and board members from our member communities. The goal is to educate the public and board members about transportation impacts of land use decisions and the tools that can assist them in developing best practices in their communities. Training topics may include land use regulations and decision making tools such as GIS that help maintain compact development patterns, promote human scale development patterns and increase livable and sustainable communities.

Data Accessibility: NRPC provides online application services to support community and public stakeholder needs in viewing, analysis, and download of planning data. These tools are suitable for both lay and technical audiences and support education, outreach and local technical assistance projects. Access to NRPC data also prompts stakeholders to provide feedback on data elements that leads to correction and continual quality improvement.

Task 501 – Anticipated Outcomes:

- Technical transportation and land use research, assistance and support to communities as requested.
- Technical assistance to update the NH 101 Corridor Study and other highways or subareas as requested.
- Technical memos and presentations on transportation and land use strategies that address local needs such as subdivision design review.
- Update and review of up to two local Master Plan transportation chapters and data.
- Up to four transportation studies related to major regional development.
- Up-to-date online GIS, traffic count, and transportation project data viewing, download, and direct-connect services.
- Community requested traffic data collection and analysis: up to 10 ATR counts, 10 TMCs and 4 intersection analyses per year.
- Publication of educational materials twice per year to support the transportation/land use connection and USDOT, EPA and HUD Livability Principles.

TASK 502 Statewide Assistance

Statewide Planning Assistance: NRPC routinely provides technical assistance for projects, plans, and committees that affect transportation decisions at the State level. NRPC will work with NHDOT to provide data and analysis for development of transportation projects.

Task 502 – Anticipated Outcomes:

- Technical transportation and land use research, assistance and support to NHDOT planning initiatives
- Technical memos, analyses and presentations on transportation and land use strategies that address State level needs
- Formation of technical committees to work on specific state level issues that impact the region

- Review of state level transportation plans and data
- Participation in DOT initiatives such as LEAN Review and project cost estimation review committee
- Participation in FHWA Every Day Counts, Local Public Agency (LPA) Stakeholder Partnerships, Regional Models of Cooperation and/or Peer-to-Peer learning network exchanges
- Participation in up to two Statewide Safe Routes to School Committee meetings per year
- Up to one Travel Demand Model requests per year
- Traffic data collection and analysis: 5 ATR counts and 5 TMCs per year
- Support statewide GIS advisory, planning and coordination initiatives
- Participation in monthly meeting of the Statewide Coordinating Council (SCC) and Technical memos and presentations in support of the SCC

TASK 503 Local Public Agency Program Support

This task will support efforts aimed at assisting constituent communities in applying for or managing federal funding programs and grant funds.

Transportation Alternatives and Congestion Mitigation Air Quality: NRPC will fully participate in the administration of the Transportation Alternatives (TA) and Congestion Mitigation Air Quality (CMAQ) programs managed by the New Hampshire Department of Transportation. NRPC will review program guidelines, project requirements and eligibility, and project scoring criteria. NRPC will maintain a project ranking and scoring process at the regional level that is compatible with the NHDOT process and requirements. NRPC will provide technical assistance to member communities in the development of TA and CMAQ applications. NRPC will continue to be involved in the Safe Routes to Schools initiatives (SRTS) through the TA program. NRPC will also participate in the Scenic By-Ways program where applicable.

Highway Safety Improvement Program (HSIP): NRPC will coordinate with the NHDOT HSIP program manager to identify potential project(s) based on the NRPC regional Highway Safety Plan and Safety Analyst Software maintained by NHDOT. This may include the participation in the Road Safety Audit (RSA) program as applicable.

Other Funding Sources: NRPC staff will actively coordinate with the Bureau of Planning and Community Assistance to increase awareness and understanding of any other funding sources as they become available.

Task 503 – Anticipated Outcomes:

- Review of program guidance and criteria for the TA, CMAQ and SRTS programs
- Technical assistance for application development and presentation materials for communities applying for grant funds under the CMAQ and TA Programs
- Development of regional project scoring and ranking criteria for CMAQ and TA

- Completion of air quality analyses for the CMAQ program
- Traffic data collection and technical assistance to support Road Safety Audit application development
- Educational materials and technical support for other state funding programs as needed
- Participation on project review committees as requested

TASK 504 Special Projects

This task serves as a placeholder for conducting special transportation projects in the region with the concurrence of the NHDOT. These projects require a separate work scope and budget approved by NHDOT and apply to major study efforts which exceed the usual level of support and assistance provided by the MPO staff.

Task 504 - Work Products

- Local and regional projects funded through the UPWP under separate work scope and budget approved by NHDOT.

TASK 505 Regional Coordinating Council (RCC)

Facilitate the Regional Coordinating Council (RCC): NRPC completed an update to the Locally Coordinated Transportation Plan for the Greater Nashua and Milford Area (LCTP) which was adopted on January 20, 2016. The plan was developed through a process that included representatives of public, private and non-profit transportation providers and public, private and non-profit human service providers. The LCTP meets federal requirements allowing the distribution of FTA funds to human service Transit Providers throughout the NRPC region. NRPC will continue to maintain and update the LCTP for the region.

The Nashua Regional Planning Commission continues working with its human service partners towards regional and statewide coordination of human service oriented transportation network in the region. NRPC staff will function as the staff of the RCC on an interim basis to coordinate regional efforts with the state human service transit planning process and implementing stated goals of the LCTP. NRPC will monitor human service oriented transit planning efforts at the state and regional level and work closely with officials from the NHDOT. NRPC staff will also provide support and grant writing assistance to human service transit providers to allow access to FTA funding sources. The end result of this effort will be more cost-effective service delivery; increased capacity to serve unmet needs; improved quality of service; and, services which are more easily understood and accessed by riders. NRPC will continue to attend area agencies meetings; sponsor transportation coordination forum(s), and work with the social service agencies on coordination efforts.

Planning Assistance to Souhegan Valley Transit Collaborative (SVTC): NRPC staff will continue to support the SVTC expansion efforts. NRPC will provide basic transit planning assistance to SVTC including interpretation of FTA funding requirements and applying for additional funding to implement the goals and objectives of the SVTC Strategic Plan.

Task 505 – Anticipated Outcomes:

- Facilitation of the Region 7 Coordinating Council quarterly meetings
- Identification of service improvements through strategic planning activities with the RCC
- Technical memos and presentations in support of the Region 7 Coordinating Council.

TASK 506 Transit Assistance

Planning and Technical Assistance to NTS: NRPC staff will continue to work with NTS to update route and ridership data. NRPC will continue to conduct data collection efforts to address changes to the service and routes, solicit rider opinions and assist in the development of transit policies and programs. NRPC will maintain a current transit route map and provide route modification maps at the request of Nashua Transit System staff. NRPC will also maintain the NTS Ride Guide and produce outreach materials to encourage use of the transit system. Staff will maintain the ridership prediction model and use it to assist NTS in its efforts to expand fixed route service throughout the region.

NRPC will assist NTS in the development of its Transit Asset Management (TAM) Plan, in accordance with FTA's National Transit Asset Management System Rule. NRPC will also continue to assist in split/share negotiations of the Nashua UZA allocation of FTA 5307 funds.

Passenger Rail Service Planning: NRPC will support planning analyses for passenger rail service between Lowell, MA and Nashua. In addition, NRPC will work with federal state and local agencies to evaluate the next steps recommended in the Capitol Corridor Project by providing technical planning services and data in support of the NH Capitol Corridor Initiative. Further NRPC will:

1. Work with City of Nashua Community Development Department, NHDOT, Boston Express, NTS, Northern Middlesex Council of Governments and Pan AM Railroad to coordinate all aspects of the passenger rail project including development activities for the station sites, providing technical information to support legislation, and technical planning;
2. Coordinate with local regional and state level stakeholders for the proposed extension to Manchester and Concord including The Nashua Rail Transit Committee, the towns of Merrimack, City of Manchester, Manchester Airport, the Greater Manchester Chamber of Commerce, and Southern New Hampshire Planning Commission;
3. Provide public information on the future of passenger rail in the region. This will include maintaining and updating the NRPC website with the most up to date project information.

Transportation Demand Management: NRPC will continue to coordinate efforts with the NHDOT, neighboring Regional Planning Commissions and Metropolitan Planning Organizations and other agencies within the commuting area to develop a framework to develop a TDM and ride share program to benefit the Nashua region. NRPC will coordinate with neighboring RPCs and MPOs to conduct an assessment of Park and Ride facility usage along major commuting corridors.

Regionalization of Transit Service: NRPC will coordinate with NTS, NHDOT, neighboring transit providers and MPOs to develop a coordinated approach to regionalizing transit service across the Region. An initial step in this process was the update of the Regional Transit Plan, completed in 2016. The Regional Transit Plan reflects recent trends in ridership and service and identifies a full program of recommendations for improvements to transit service in the region. NRPC will continue work with Nashua Transit System, the municipalities of the region and the NHDOT on the implementation of the Regional Transit Plan. In addition, NRPC will work with NHDOT, surrounding regions and private providers on the expansion of inter-city transit.

Task 506 – Anticipated Outcomes:

- Updated Transit Asset Management Plan in cooperation with NTS
- Analysis of up to one passenger survey per year
- Updated NTS route maps as requested
- Maintenance of NTS Ride Guide and other outreach materials, as requested
- Participation in at least two NTS staff meetings per month
- Ridership estimates for potential transit service extensions or enhancements
- Technical memos addressing transit planning and ridership trends
- Monitoring activities of NH Rail Transit Authority (NHRTA) and providing technical advice and support as needed
- Developing information to keep the public informed of the project status
- Attend NHRTA Meetings as scheduled

TASK 507 Transportation Demand Management (TDM)

NRPC participates in the CommuteSmart NH Planning and Statewide Coordination program under a separate subcontract to Central NH RPC. The bulk of NRPC's TDM activities over the FY 2020-21 period will be under that program. Task 507 is established as a long-term commitment to continuing the work of the CommuteSmart, program even though it is largely a placeholder in this UPWP. NRPC may undertake some data collection and analysis tasks related to TDM that fall outside of the purview of that program.

Task 507 – Anticipated Outcomes:

- Transportation Demand Management data collection and analysis that support the reduction of vehicle use. These may include surveys of employers or the general public, analysis of ACS data and calculation of VMT and associated savings from implementation of employee incentives.

CATEGORY 600 – NASHUA INTERREGIONAL TRANSIT EXPANSION STUDY

Purpose: This activity will explore the feasibility of expanding transit service beyond the Nashua region to provide vital connections to major transit hubs, employment centers, medical and educational institutions and other key destinations in Massachusetts' Middlesex County.

- Specific destinations to be evaluated for shuttle bus service include:
- Lowell MBTA commuter rail station with possible extension to UMass Lowell;
- MBTA Alewife Station in Cambridge;
- Lowell Regional Transit Authority
- Major employers in Burlington, Mass. and other Route 128 destinations; and,
- Other possible destinations that may be identified through analysis and public input.

TASK 601 Public Outreach

This task will seek to obtain public input regarding the need for interregional transit services between the Nashua region and Mass. Middlesex County destinations. Previous surveys of NTS riders and the general public conducted for the NTS Expansion Study and Metropolitan Transportation Plan will be reviewed, as well as other planning efforts, including those conducted by Northern Middlesex County of Governments and the Lowell RTA. Additional data will be collected by social service agencies, business community and general public throughout the expansion target area.

Task 601 – Anticipated Outcomes:

- Compile feedback for use in Operational Analysis and Feasibility Review
- Summarize information into a Public Involvement report.

TASK 602 Operational Analysis and Feasibility Review

NRPC will evaluate the potential for expanded transit service to destinations outside the region and state. This requires a review of the regulatory framework, including review of the M3 TMA operational and funding structure, MBTA and State of Massachusetts regulations. Data collection and analysis will be undertaken to develop ridership estimates for various service alternatives. Capital and operating cost estimates for each alternative will be developed. An evaluation of available and potential funding sources will be undertaken to fund capital needs and operating deficits.

Task 602 – Anticipated Outcomes:

- Identify regulations which impact feasibility of interregional services
- Ridership estimates for each service alternative considered
- Capital and operating costs for each service alternative.
- Final report evaluating each report and feasibility assessment.

OTHER FEDERALLY FUNDED OR REGIONALLY SIGNIFICANT PLANNING STUDIES

The Nashua Regional Planning Commission is often engaged in a number of additional federally funded transportation planning that are not funded through the metropolitan planning process. Typical planning activities include plan development, corridor studies and access management studies funded through special planning and research funds; transit planning through sources such as Federal Transit Administration Section 5310 funding; and transportation and land use studies funded through designated federal funds. This section of the UPWP contains a listing of federally funded transportation studies that are underway and will continue through a portion of the 2020 – 2021 work program. This section will be amended as necessary to include additional planning studies. Projects are funded with an 20% local share match for federal funds.

Souhegan Valley Transportation Collaborative – FTA 5310 Purchase of Service

NRPC will serve as a fiscal agent for the Souhegan Valley Transportation Collaborative (SVTC). The Souhegan Valley Transportation Collaborative (SVTC) is a cooperative effort between participating communities (Amherst, Brookline, Hollis, Milford, Mont Vernon and Wilton) to provide affordable, handicapped accessible transportation to area residents. The principle service, known as Souhegan Valley Rides, is a demand response, curb-to-curb transportation service using handicap accessible, low-floor ramp style 14 seat mini-buses (including 2 wheelchair spaces). The buses, drivers and call center operations are subcontracted from the Nashua Transit System (NTS).

The bus service provides rides for non-emergency transportation within the six participating towns and to and from Nashua. Rides are available for healthcare related appointments, including medical appointments, outpatient therapy, counseling, laboratory visits, pharmacy pickups and dialysis as well as to social service agencies such as SHARE Outreach, DHHS, SSA and Employment Security. In July 2011, FTA 5310 program funding enabled SVTC to increase service availability from 3 days per week (8:00AM to 4:00PM) to 5 days per week (8:00AM to 6:00PM). Additionally, the service was expanded to include rides for senior activity centers, town facilities and local libraries, and local dining locations sponsored by St Joseph Community Services. Rides are also available three days per week for shopping at four major shopping destinations in Amherst, Milford and Nashua.

SVTC uses Federal Transit Administration (FTA) 5310 funds to:

- Continue providing service 5 days per week (Monday through Friday) to six communities
- Continue service availability 10 hours per day (8:00AM to 6:00PM)
- Maintain flexibility to modify the number or types of ride destinations available through the service based on passenger demand and community needs
- Engage an independent contractor on a part-time basis to assist the SVTC Board of Directors with mobility management and strategic planning activities that will enhance the local community transportation network and SVTC's services and organizational capacity

PROJECT COST (FY 2020-2021)

\$304,000

Nashua Transit System Planning – FTA 5307 Planning Funds

Nashua Transit System Planning: NTS will undertake the following activities using FTA Section 5307 Funds, and may utilize both NTS staff resources and /or outside consulting assistance:

- Provide assistance with planning and mobility management to the Regional Coordinating Council (RCC) for the Greater Nashua region.
- Participate in updates as needed to the locally coordinated public transit/human service transportation plan for the region
- Educate community leaders on transit service activities
- Continue active participation in the MPO Policy and Transportation Technical Advisory Committee
- Participate in the development of the Metropolitan Transportation Plan
- Support regional transportation initiatives developed by the MPO and NHDOT
- Continue ongoing general and comprehensive transit planning

PROJECT COST (FY 2020-2021)

\$212,229

Regional Transit System Service Expansion Study - FTA 5305(e)

The Nashua Regional Planning Commission, in close coordination with the Nashua Transit System, will evaluate the feasibility of regional transit service in the Nashua Region. The Nashua Transit System (NTS) Comprehensive Plan 2016-2025 identified expanded transit service as a primary goal. Approximately 58 percent of residents in the Nashua Region do not have access to fixed-route transit service because transit service does not extend beyond the Nashua City boundaries. The Nashua Urbanized Area (UZA)/ Transportation Management Area (TMA) is the largest Urbanized Area in New Hampshire and the only one not served by a regional transit system. To address this deficiency this project will examine transit service beyond the Nashua City limits and consider possible routes that would provide service along:

- NH101A between Nashua and Milford;
- Continental Boulevard between Nashua and Merrimack;
- Daniel Webster Highway (NH3) between Nashua and Merrimack; and
- NH 3A in Hudson.

Specific project tasks include:

- A. General Administration:** NRPC will lead the implementation of the prescribed public outreach and planning initiative describe in this proposal.
- B. Public Outreach:** A critical barrier to expanding public transportation in southern New Hampshire is a deficiency in the understanding of transit system operations, costs and benefits. The overarching goal of the outreach effort is to have a measureable increase in the

understanding of the operational challenges and potential benefits to the region. The project aims to identify areas of consensus where support for public transit can be established.

- C. Operational Analysis/Feasibility Review: Using the information and data collected in the public outreach phase of this study NRPC will evaluate the potential for expanded transit service in the region.

Anticipated outcomes of this study are:

- Summary Report of “What We Heard” in the Public Outreach Phase
- Project report that summarizes study process and results
- GIS Story Map that illustrates the results of the final report

PROJECT COST (FY 2020)	\$25,000
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Community Transportation Assistance Program (CTAP) Rideshare & TDM Services

NRPC is participating with other regional planning commissions in the CTAP area to provide regionally-based TDM services to employers and communities. This includes assisting the setup of ride-matching programs for employers, employer site assessments for developing alternative transportation options, parking management assistance, development of preferred parking, transit pass, alternative/flex scheduling, vanpool programs and emergency ride programs.

NRPC will participate in events such as Bike to Work and Bike to School Week and work to improve the use and recognition of existing or updated NH Rideshare software, as well as potential coordination with the activities of the MassRIDES Ridematching Program.

PROJECT COST FY 2020-2021	\$40,000
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Bicycle Level of Traffic Stress Study

NRPC is partnering with other MPOs to further develop a shared model for evaluating Bicycle Level of Traffic Stress (LTS). This entails collection and compilation of baseline road attribute data in the region, refinement of the Plymouth State University's LTS model, network connectivity analyses using LTS and adoption of one or more shared LTS-based system performance measures and incorporation of the measures into the Metropolitan Transportation Plan.

PROJECT COST (FY 2020-2021)	\$7000
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UPWP FUNDS BY TASK

2020-21 Fiscal Year Budget by Task	FY 20 Federal + Toll Credit	FY 20 NRPC Match	FY 2020 Total	FY 21 Federal + Toll Credit	FY 21 NRPC Match	FY 2021 Total	Pct. of Budget
100 - MPO Administration and Training	\$72,000.00	\$8,000.00	\$80,000.00	\$72,000.00	\$8,000.00	\$80,000.00	9.6%
Task 101: Invoices and Accounting	\$16,200.00	\$1,800.00	\$18,000.00	\$16,200.00	\$1,800.00	\$18,000.00	2.2%
Task 102: MPO/TMA Program Administration	\$37,800.00	\$4,200.00	\$42,000.00	\$37,800.00	\$4,200.00	\$42,000.00	5.0%
Task 103: Training	\$13,500.00	\$1,500.00	\$15,000.00	\$13,500.00	\$1,500.00	\$15,000.00	1.8%
Task 104: Indirect Cost Adjustments	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0%
Task 105: Performance Measures	\$4,500.00	\$500.00	\$5,000.00	\$4,500.00	\$500.00	\$5,000.00	0.6%
200 - Policy and Planning	\$173,250.00	\$19,250.00	\$192,500.00	\$173,250.00	\$19,250.00	\$192,500.00	23.0%
Task 201: Ten Year Plan	\$16,200.00	\$1,800.00	\$18,000.00	\$16,200.00	\$1,800.00	\$18,000.00	2.2%
Task 202: Planning and Environmental Linkages	\$17,100.00	\$1,900.00	\$19,000.00	\$17,100.00	\$1,900.00	\$19,000.00	2.3%
Task 203: Transportation Planners Collaborative	\$1,800.00	\$200.00	\$2,000.00	\$1,800.00	\$200.00	\$2,000.00	0.2%
Task 204: Interagency Consultation Process (ICP)	\$4,500.00	\$500.00	\$5,000.00	\$4,500.00	\$500.00	\$5,000.00	0.6%
Task 205: Transportation Improvement Program	\$25,200.00	\$2,800.00	\$28,000.00	\$25,200.00	\$2,800.00	\$28,000.00	3.4%
Task 206: Congestion Management Process	\$21,600.00	\$2,400.00	\$24,000.00	\$21,600.00	\$2,400.00	\$24,000.00	2.9%
Task 207: Intelligent Transportation System	\$10,800.00	\$1,200.00	\$12,000.00	\$10,800.00	\$1,200.00	\$12,000.00	1.4%
Task 208: Metropolitan Transportation Plan	\$32,400.00	\$3,600.00	\$36,000.00	\$32,400.00	\$3,600.00	\$36,000.00	4.3%
Task 209: Transportation Air Quality Conformity	\$1,800.00	\$200.00	\$2,000.00	\$1,800.00	\$200.00	\$2,000.00	0.2%
Task 210: State Long Range Transportation Plan	\$1,350.00	\$150.00	\$1,500.00	\$1,350.00	\$150.00	\$1,500.00	0.2%
Task 211: Bicycle and Pedestrian Planning	\$27,000.00	\$3,000.00	\$30,000.00	\$27,000.00	\$3,000.00	\$30,000.00	3.6%
Task 212: Freight Planning	\$13,500.00	\$1,500.00	\$15,000.00	\$13,500.00	\$1,500.00	\$15,000.00	1.8%
300 - Public Involvement and Coordination	\$52,200.00	\$5,800.00	\$58,000.00	\$52,200.00	\$5,800.00	\$58,000.00	6.9%
Task 301: Transportation Technical Advisory Committee	\$21,600.00	\$2,400.00	\$24,000.00	\$21,600.00	\$2,400.00	\$24,000.00	2.9%
Task 302: Committee Meetings	\$4,500.00	\$500.00	\$5,000.00	\$4,500.00	\$500.00	\$5,000.00	0.6%
Task 303: Public Participation Plan	\$1,800.00	\$200.00	\$2,000.00	\$1,800.00	\$200.00	\$2,000.00	0.2%
Task 304: Public Outreach	\$13,500.00	\$1,500.00	\$15,000.00	\$13,500.00	\$1,500.00	\$15,000.00	1.8%
Task 305: MPO/TMA Policy Committee Meetings	\$10,800.00	\$1,200.00	\$12,000.00	\$10,800.00	\$1,200.00	\$12,000.00	1.4%
400 - Plan Support (Data, Modeling, GIS)	\$270,450.00	\$30,050.00	\$300,500.00	\$270,450.00	\$30,050.00	\$300,500.00	36.0%
Task 401: Traffic Count Program	\$40,050.00	\$4,450.00	\$44,500.00	\$40,050.00	\$4,450.00	\$44,500.00	5.3%
Task 402: SADES Inventory	\$13,500.00	\$1,500.00	\$15,000.00	\$13,500.00	\$1,500.00	\$15,000.00	1.8%
Task 403: Geographic Information System	\$135,000.00	\$15,000.00	\$150,000.00	\$135,000.00	\$15,000.00	\$150,000.00	17.9%
Task 404: Demographics	\$15,300.00	\$1,700.00	\$17,000.00	\$15,300.00	\$1,700.00	\$17,000.00	2.0%
Task 405: Equipment and Supplies	\$16,200.00	\$1,800.00	\$18,000.00	\$16,200.00	\$1,800.00	\$18,000.00	2.2%
Task 406: Travel Demand Model	\$49,500.00	\$5,500.00	\$55,000.00	\$49,500.00	\$5,500.00	\$55,000.00	6.6%
Task 407: Memberships, Subscriptions	\$900.00	\$100.00	\$1,000.00	\$900.00	\$100.00	\$1,000.00	0.1%
500 - Technical Assistance and Transit Support	\$156,119.40	\$17,346.60	\$173,466.00	\$156,119.40	\$17,346.60	\$173,466.00	20.8%
Task 501: Local and Regional Assistance	\$76,500.00	\$8,500.00	\$85,000.00	\$76,500.00	\$8,500.00	\$85,000.00	10.2%
Task 502: Statewide Assistance	\$6,300.00	\$700.00	\$7,000.00	\$6,300.00	\$700.00	\$7,000.00	0.8%
Task 503: Local Public Agency Program Support	\$9,000.00	\$1,000.00	\$10,000.00	\$9,000.00	\$1,000.00	\$10,000.00	1.2%
Task 504: Special Projects	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0%
Task 505: Regional Coordinating Council (RCC)	\$19,319.40	\$2,146.60	\$21,466.00	\$19,319.40	\$2,146.60	\$21,466.00	2.6%
Task 506: Transit Assistance	\$42,750.00	\$4,750.00	\$47,500.00	\$42,750.00	\$4,750.00	\$47,500.00	5.7%
Task 507: Transportation Demand Management	\$2,250.00	\$250.00	\$2,500.00	\$2,250.00	\$250.00	\$2,500.00	0.3%
600 - Nashua Interregional Transit Expansion Study	\$28,104.75	\$3,122.75	\$31,227.50	\$28,104.75	\$3,122.75	\$31,227.50	3.7%
Task 601: Public Outreach	\$9,361.35	\$1,040.15	\$10,401.50	\$9,361.35	\$1,040.15	\$10,401.50	1.2%
Task 602: Operation Analysis/Feasibility Review	\$18,743.40	\$2,082.60	\$20,826.00	\$18,743.40	\$2,082.60	\$20,826.00	2.5%
Total FY 2020-2021	\$752,124.15	\$83,569.35	\$835,693.50	\$752,124.15	\$83,569.35	\$835,693.50	100%

Nashua Regional Planning Commission FY 2020-2021 Unified Planning Work Program

NRPC FY 2020 - 2021 UPWP Program Schedule

UPWP CATEGORY	Fiscal Year 2020												Fiscal Year 2021												
	2019						2020						2021												
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
100 - MPO Administration and Training																									
TASK 101	Invoices and Accounting			Audit		ICR			Audit								Audit								
TASK 102	MPO Program Administration	UPWP Performance Report												FY 22-23 UPWP											
TASK 103	Training																								
TASK 104	Indirect Cost Adjustments	Not Applicable																							
TASK 105	Performance Measures																								
200 - Policy and Planning																									
TASK 201	Ten Year Plan			GACIT Hearings														TYP Support and Recommendations							
TASK 202	Planning and Environmental Linkages																								
TASK 203	Transportation Planners Collaborative																								
TASK 204	Interagency Consultation Process																								
TASK 205	Transportation Improvement Program																	2021-2024 TIP Development							
TASK 206	Congestion Management Process	Update Congestion Management Process Plan																							
TASK 207	Intelligent Transportation Systems	Update Intelligent Transportation Systems Plan																							
TASK 208	Metropolitan Transportation Plan																MTP Minor Update								
TASK 209	Transportation Air Quality Conformity																								
TASK 210	State Long Range Transportation Plan																								
TASK 211	Bicycle and Pedestrian Planning																Update Bicycle/Pedestrian Plan								
TASK 212	Freight Planning																								
300 - Public Involvement and Coordination																									
TASK 301	Transportation Technical Advisory Comm																Begin participating in SNHPC TTAC Meetings ▶▶								
TASK 302	Committee Meetings																Review and adopt By-Laws ✓								
TASK 303	Public Participation Plan																Update Public Participation Plan								
TASK 304	Public Outreach																								
TASK 305	MPO/TMA Policy Committee Meetings	Policy Committee Framework ✓												Execute Programming Authority ▶▶											
400 - Plan Support (Data, Modeling, GIS)																									
TASK 401	HPMS Traffic Counts	2019 Counts ✓						2018 Counts ✓						2019 Counts											
TASK 402	Road Surface Management System	RSMS (up to 2 communities per year) ✓												RSMS (up to 2 communities per year) ✓											
TASK 403	Geographic Information System	◀◀ Ongoing maintenance, updating, and analysis of GIS databases ▶▶																							
TASK 404	Demographics																								
TASK 405	Equipment and Supplies	As Needed																							
TASK 406	Travel Demand Model	Model update/development and recalibration ✓												Technical documentation ✓											
		Population and employment forecast ✓																							
		Development of Peak Hour Demand model ✓																							
TASK 407	Memberships, Subscriptions, Prof Costs																								
500 - Technical Assistance and Support																									
TASK 501	Local and Regional Assistance																								
TASK 502	Statewide Assistance																								
TASK 503	Local Public Agency Program Support																								
TASK 504	Special Projects	None Scheduled																							
TASK 505	Community Transportation (RCC/SCC)																								
TASK 506	Transit Assistance																								
TASK 507	Transportation Demand Management																								
600 - Nashua Interregional Transit Study																									
TASK 601	Public Outreach																								
TASK 602	Operational & Feasibility Analysis																						Final Report		