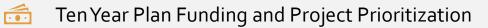
LRPC Commissioners November 28, 2022

Transportation Updates





Bicycle and Pedestrian Plan

Streetscaping

Sidewalk Inventory Assessment

Traffic Counts and Mapping

Alternative Funding Opportunities

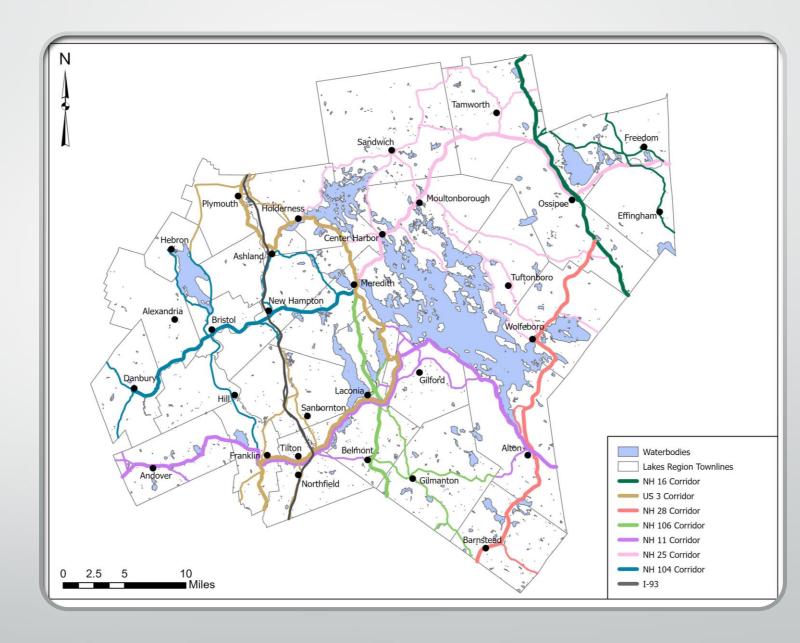
Q&A with Commissioners on Transportation Topics

Regional Transportation Plan

Sean Chamberlin

Overview

- LRPC is updating the Regional Transportation Plan and will be focusing on completing the update by next Summer.
- Conducted Corridor Meetings in July to gather local ideas and concerns.
- The plan utilizes regional conditions and incorporates a variety of topics to develop a plan that looks at Lakes Region Transportation needs over 10 years into the future.



What Makes a Corridor?

Arterial Highway System is the group of roads constituting the highest degree of through traffic movement and largest proportion of total travel.

Collector Road System is the group of roads providing a link between through traffic movement and direct private property access functions.

US 3 -Corridor Network -NH 3A, NH 25 West, NH 175, NH 175A, NH 132, NH 127

Each Corridor section includes:

Community Demographics

Crash Data

Roadway Conditions

Current Projects and Project Recommendations

Commuter Information

Bicycle and Pedestrian

Freight

Rail & Air

...and more

Regional Transportation Plan Introduction



REGIONAL TRANSPORTATION GOALS

Each corridor is categorized by a combination of 3 of the following transportation goals. They are assigned based on a full assessment of local transportation and public concerns. These goals will be prioritized for each corridor as we propose certain projects for improvement. This will help LRPC formulate the most customized and effective regional plan according to each corridor.

SAFETY

Improve traveler safety based on crash data and public concern.

MOBILITY

Improve travel times and reduce congestion.

ECONOMIC DEVLOPMENT

Align transportation investments with local economies and prioritize growth.

ELECTRIFICATION

Build out of a regional public electric vehicle charging network

LIVABLE COMMUNITIES

Align transportation investments with community planning goals

RESILIENCY

Prioritize strengthening the transportation infrastructure to mitigate against natural hazards.

MAINTENANCE

Continually regulate and maintain the conditions of existing infrastructure.

ENVIRONMENT

Minimize both the direct and indirect impacts of local transportation systems on the natural environment.

LRPC Regional Transportation Plan

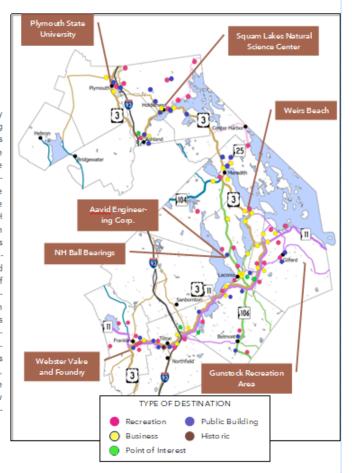


Corridor Overview



Plymouth, Ashland, Holderness. Meredith, Laconia, Gilford, Belmont, Tilton, Franklin

The U.S Route 3 highway is 277 miles in length stretching from Boston, Massachusetts through New Hampshire, to the Canada-US border. US 3 is one of New Hampshire's most wellknown roads and is by far the longest local highway in the state, crossing two states (NH and MA) and stretching through of six counties (Middlesex, Hillsborough, Merrimack, Belknap, Grafton and Coos) and nine towns. Much of its routing resembles 1-93, serving as an alternative north-south travelling corridor. This makes U.S 3 a popular route for tourists and seasonal travelers within the Lakes Region, as it passes through areas of famous sites, recreational sports, and multiple town centers. The map below outlines these major destinations along the U.S 3 corridor.





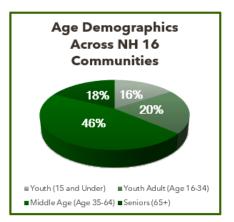


Town Populations										
Communities	2020 Population (estimated)	2040 Population (projected)	Projected % Change in Population	Projected Total Population Change						
Tamworth	2,812	3,085	9.71%	273						
Ossipee	4,372	4,426	1.23%	54						
TOTAL	7,184	7,511	4.55%	327						

Source: NH Office of Strategic Initiatives - "County Population Projections, By Municipality" (September, 2016), 2020 American Communities Survey 5-Year Estimates

The towns of Tamworth and Ossipee are two small towns in the Lakes Region with only 3,085 and 4,372 people, respectively. Tamworth us predicted do grow a considerable 9.71% by 2040, and Ossipee is expected to grow very little at only 1.23%.

Special Populations								
Category	Total	% Of Total						
Racial Minorities	505	6.8%						
Low Income (<150% of Poverty Level)	1500	20.3%						
Working Individuals Without Cars	107	1.4%						
Limited English Proficiency (by households)	122	3.7%						



Source: 2020 American Communities Survey 5-Year Estimates

Almost half of the NH 16 Corridor is middle-aged, and the percentage of seniors is slightly lower than in other Lakes Region Corridors. One fifth of individuals in this region are in living in poverty, which is significantly higher than the state and national average. 6.8% of the population are minorities, 1.4% do not have cars, and 3.7% of households have limited English proficiency.

L INTRODUCTION

Chapter Design and Outcomes

A believed and well-functioning manaportation operate is a key ingenieve for successful original placeting and recolorier development. The optical manaportation placeting process in the Lukes Ragio is altimate by human-up consuming participation through the Lukes Ragio in Lineaportation (Lineaportation place) are considerable (TAC) and supported by LERN, and NIDDOT suffley. Transportation placeting include enconnectations or made by the TAC for consideration by the Care of the consideration by the consideration of the considerat LEPC Commissioners, who approve the regional transportation policies. The TAC membership consists of expresentatives from LEPC communities who art as a baleon to local City Councils and

Key elements to the orginal transportation planning process are the sevined LE Transportation Mission Statement and the vision articulated in the segional birtyle and pedestrian plan as follows:

To provide an integrated, all-mode transportation system in the Lakes Region which officia efficient, effective and safe movement of people and goods, and provides model choice wherever possible within enhancing and presenting the character and Brability of the neighborhoods, 'quality of water in our lakes and sensors as well as' (added) the natural, socio/economic, and historical environments where

"To provide a proposefully connected network of trails, sidewalks, road shoulden, and parement markings promoting safe and enjoyable hirtide and pedestrian mobiley. To provide design and maintenance of leadin, complete enters that support transportation, secretion, bealth, and semental insenses throughout the Labor Region." Complete State of an other hingle and pedestion tured ways as accommodated in the planning, development, and construction of transportation facilities and incorporated into transportation plans and programs.

Served seetheds were used to capture public input during the development of this chapter including a statewide surroy, consistent cards at promisions locations in each community and through wouldnops and literaling sessions. Common thrones expensed full into these general categories with specific seaso of construction seath category as follows:

> Transportation Costs Transportation Options Infrastructure Districtormental

Consectivity

Walking/Diking Public Transportation Committee Rail

1890, Late Sign Transporter Sie, Sensoy 28, 2009

155PC, Replig and Public Transportation Chairs for Non-Hampston's Labor Rigins, March 26, 2013

While these concerns were exposured, eachers the attornest indication of transportation needs and willingness to contribute came from a statewide survey that was conducted by the Survey Center at the University of New Hampshim. As Elemented in Figure 1, more than 50 percent of sespondents smooth indicated they would be willing pay more in turns for maintaining such, highways, and hidge with an additional 27 persons indicating that this should be a focus for transportation investment, for they are not willing to per more in turns. The state-time framaportation sensits mirrored the combined sends for the Georgia and Lakes regions.

The purpose of this chapter is to summarize and integrate information about the transportation The purpose of this chapter is to successful and singuists information short the transportation planning structures, estinging conflictions, and public comments within the construct of the supposal mission and vision successors that lead to the development of seconsmodations and night understand the provider information and nightly useful for Lakes Bagion communities in the development of managements improvement position and local

Figure 1: NH Resident's Willingness to Pay for Transportation



Source UNIVERSITY Contact Statewish Server, 2013

Federal Transportation Funding

2. MAJOR PROGRAMS AND LEGISLATION

Established more than 50 years ago the Highway Trust Pand was counted to finance the construction inclusions may be a few to provide the second of the regions of the through the constitution of the Internal Regions by prices, which was that in a partnership with case and local government of the constitution of the Regions of th

and societal purposes. For example, the 2005 federal transportation authorization called the Safe. Accountable, Reside, Efficient Transportation Equity Act: A Legacy for Unes (SAFETER-LU) authorized finds to programs beyond the construction and majoresance of highways and bridge. These programs included fiteding for highway safety, meto-politics and state-title transportation planning, manult, and transportation system enhancements such as perfection and bitytic facilities and midgation of highway inspects to wethink and whitelities.

Unlike other federal programs which are funded by general revenues such as education, national deficus, and homeland security, undure transportation programs are primarily funded with Highway Teast Pand revenues. The revenues are predominantly generated by federal motor first tures (sino known as the gas tast and to a lesses extent takes taxes on time, heavy tands and makes. A similar fined, the Alignet and Alienary Total Fund (Texas Fund on Admitty), was consend in 1970 to fined artistics programs. Administrated by the Federal Administration (FAA), this fined sections.

To comparison, the Highway Total Pand has not fixed as well as the Asiating Total Pand. Where in Read Year 2010 the Alepost and Alexeny Trace Fund had an uncommitted balance of \$770 million, Congress authorized the transfer of \$35 billion from the General Fond of the US Treasury to keep the Highway Trace Pland solvent from 2006-2010. In 2006, for the first time, the Highway Trace Pland for Highway Trace Pland for Highway Trace Pland for the Pland of the US Traceau and Congress authorized as a Fallian cash inflation from the General Pland of the US Traceau into the Highway Pland of the US Traceau in the Plandway and the Plandway Plandw Trust Fund. By the end of 2014, a total of \$54 billion will have been transferred from the General Fund into the Highway Total Fund to majorate its solvency. This includes as \$18.6 billion transfer authorized by Congress last year in MAP-21. Several key factors are associated with the occurs and projected shortfalls including

- Rising find efficiency standards, leading to more rules traveled on less fiel tax revenues,
- Exponential increases in highway construction and puring costs;
 Inflation evoding the value of the nursest facilitat (gasoline \$.184 per gallon, devel \$.245). per gallon) but increased by President Bill Clinton in 1993; Political environment highly critical of delicit spending.
- As aging transportation infrastructure reaching the end of life expectancy

In part, the transportation finding debate in congress in 2012 that led to the pseudostial seatherization of SAFETTA-LU, focused on 'absensaire manaportation' programs such as Transportation Enhancement, Transportation' play rail, modern, and bases, Sair Rocess to School, the Sonie Pyrup Program, and others as directions from the fluiding needed for amount of the Sonie Pyrup Program, and others as directions from the fluiding needed for amount to the Sonie Pyrup Program, and others as directions from the fluiding needed for amount for the Sonie Pyrup Program, and others as directions from the state of the sonie and the sonie Pyrup Pyru whicle infrastructure improvements and improved transportation safety. In 2003, the US Chamber este supported mising the federal guardine tus to keep the flood solveor

The Moving Ahead for Progress in the 21st Gentury Act (MAP-21) was signed into law by President

LANCE SECTION FLAN SOLD-SOME TRANSPORTATION &

Observe on July 6, 2012 and will expire on October 1, 2014, MAP-21 reduces the number of discrete fooding programs by two-thirds to coughly 30 programs. Most of this seduction is accomplished by absorbing formely separate activities and eligibilities into the new core programs discussed below. The core programs due have many areas of overlapping eligibility. Under MAP-21, the five core programs plus enterpolitan immerisation planning are authorized at \$37.5 billion for Fiscal Year 2003 and \$31.5 billion for Fiscal Year 2003 and \$31.5 billion for Fiscal Year.

National Highway Performance Program (NHPP)

The NIEPP has become the largest of the sestmettied federal-aid highway programs, with authorizations of \$21.0 billion for Facul Year 2015 and \$21.0 billion for Facul Year 2015. The program supports improvement of the condition and performance of the National Highway System (NRS), combining the Source Internate Maintenance Program (NRS), the NPE Program, and the Highway Bridge Program's on-system component. The NHPP includes projects an arbitro national performance goals for improving infrastructure condition, unforty, mobility, or foright more met. consistence with many or materiophilan planning construction, econstruction, or operational improvement of highway segments, construction, replacement, solubilization, and powerration of bridges, transis, and fenty hours and feny facilities, impection costs and the training of impection personnel for bridges and transfer, bicycle transportation infrastructure and pedestrian walkstraps, intelligent the latter but striked learner as liest as coltective introduction but setting in the production of the latter and setting in the latter and setting minjustica utifica NHS considers. If Tomestine Spiners and NHS budge conditions in a star-ful below the colorisms conditions established by the Secretary of Transportation, certain accusant of funds would be mandeced from other specified programs in the state.

Surface Transportation Program (STP)

The STP remains the federal-aid highway program with the broadest eligibility criteria. Funda can be used on any fielderal-sid highway, on bridge projects on any public road, on transit capital projects, on constructional system, and on bridge and transit inspection such inspection training, MAP-21 archeolood \$10 billion for Frond Year 2015 and \$10.1 billion for Frond Year 2014. Although Transportation Enhancements are funded under the new Transportation Alternatives program, these types of projects one data be funded to take STP if a rate vallets. Idl's of each near's STP funds are to be distributed within the state hased on population. The semainder may be upon unyufuse in the must. MAP-21 included a special rule distring some STP funds seserved for must area to be used on minor collector made.

Highway Safety Improvement Program (HSEP)

HSIP recoins largely as it was under SAPETHA-LU, supporting projects that improve the safety of med infrastructure by connecting hazardoon med locations, such as dangerous intersections, or making road improvements such as adding contile strips. HSIP is funded at \$2.50 billion for Parci Vest 2015 and at \$2.41 billion for Fiscal Year 2014. The Rail-Highway Grade Canning Program was continued through a \$220 million annual set mide.

Congestion Mitigation and Air Quality Improvement Program (CMAC)

LARGE RECEIPT FLAN HOLD-40-60 TRANSFORTSTROM T.

The mean (average) travel time for commisses traveling from home to work has been increasing in the state of New Hampshies. A comparison of data from the American Community Sorrey suggests that the amount of time an average person bring in New Hampshies specific consuming to vocasturing to the increased 3-to person between the pear 2000 and 2012. Since 2006, the mean communing time has increased by over one percent every year. A result of increased commune times is increased vehicle especies, congestion, greenhouse gui estimions, and deterioration of infrastructure

Mehicle Miles Tourslad

Vehicle tured on New Hampshie's major highways increased 32 persons between 1990 and 2008, sing from 9.8 follow which rules movined (NCM) in 1990 to 13 Million which rules movined in 2008. The assumant of VMT has a some guidationally for the start of the economy. At Blamand in Figure 9, from 2001 to 2011 the peak year VMT to all use is 2006 the year that is generally used into the height of the accounty in NI followed by an economic downstream and one ging period of the college of the secondary in NI followed by an economic downstream and one ging period of convey. Figure 9 dan indicates that animal first consumption per segistered vehicle has not estimated to per-2006 consumption brest. This could be associated with first economy importances, conservation due to higher gas priors, and a recovering economy. In part, this need Eurosiate decreasing gas to revenue—a funding factor for highest proximance funds.

Coordinated Trip Reduction Programs

Used ownersty, corporating and ride studing have been cognitized by the NIECOT through the Bideshaw program. A necessity insured group harvest as Communa Geore New Hampshiles (CORT) has worted to cognitive stratetisk events to promote opportunities for NIT medium to such as the Country for the CORT in a work CORT in a few and the Cort in th partnership of businesses, schools, tracelt agencies, segional planning commissions and other volunteers dedicated to encouraging people to choose transportation options. other than driving alone. CGNH provides easy ways for people to try green commuting for the four time and to celebrate their efforts and those of people who sheady green commutes." One such time and to consists their effects and how or proper who nearly green constraint. "As each energing in "Cont Tables Che-in-Fire" which moreograph NII evidents to ploting not to drive one in this work days desire president interpretable. For each programs in here is meaningful impact on emissions and exterious in VNII, requires complementary employer publishes and effective took for driven to match communication does not be no dam rides. As a result of friending rate, NVIDOT has exceeding stopped managing the statewide Rideshare program. Coneutly, the segional planning commissions

LASES RESIDEN PLAN 6018-6060 TRANSPORTATION 68

and CGNSI are working cooperatively with NSIDOT to explore the possibility of managing and expanding the Rideshaw program. Envisioned is cutrenth to regional business leaders to a their role and possible contributions to an effective gaugam. Surptured for more information

5. TRANSPORTATION AND THE ENVIRONMENT

It is important to understand the link between transportation and the environment. The effects of transportation infrastructure can impact stromware duringe, air quality, and the introduction of themicals and other materials that can be harmful to the environment. Also of importance is an ndentanding of the effects that the environment can have on manaportation.

Winter road maintenance in the Labra Region typically includes the application of road salt (sodium chinoide). Applying road salt to purecess; sedaces the adherence of soom and ice and purecess contains, appring one has no perfection studies in a statement of a second and the state personal temperature and early to handle, where not apply. However, could alt application can have advise effects on the environment and an infrastructure. Clinically in track as applicable in the support life. The column is read after one have offered earlier three calcium, required and or applicable in the column and or a statement of t

Chloride into increase the conductivity of water and accelerate contonion. Chloride can penetrate and detections concrete on bridge decking and pushing gauge structures, and damage eisefuning code, comproprising exact and imagin; It damages related parts such as brade linking, traces, bumper, and other sever of body consolion. It impacts advantage unasting appripares and power line utilities by conducting electrical current leaks across the insulator that may lead to loss of current shorting of transmission lines, and wooden pole files. The cost of corresion damage and convolon protection practices for highways and the automobile industry have been reported to cost a staggreing \$16-19 billion a year.

At this time, the only way to perwest chloride from eaching surface and ground water without compromising safety is to endoor the amount applied to our endeautors and public from the Busses. Of Highway Maintenance indicates a securable enduction would be too persent yearly with a total maximum reduction of 20 percent over the long term." NIHDOT recommends coult of application rates specific to pudding lots and could per lane rolls. Reference guides have been published by MIDOT in consecution with the Technology Transfer Center at UNIII to help instruct and educate criticals in temperature upon the practice for winter and maintenants. The New Hampshite Green Scottlers Certification program offered by UNDI provides comes focused on efficient and environmentally friendly winter maintenance practices including and reduction.

Small felt and Water Challer, 109D(83, 2011

* description/regardantes, (Mexicon/Society/Society/Society/Soc), accressed Mesonabor 21, 2011

* City of Markon Winnesson, Report to Not the Substantiation, Commission on the Restrictions, 2000

LANGERSCOOK PLAY SOLD SIDEO TRANSPORTATION. 48

Steem Water, Catch Basins, Tenatment

Managing ottomwater is an insportant consideration for any type of development and especially for managination systems. Superiors sendence such as made and public join can prevent sain and deviations for the properties of the sendence of lakes and countal waters impairing water quality:

In 2008, amnicipalities in New Hampshire were given legal authority to from encounter utilities under RSA 149-2. Under the summs, encounter utilities must address flood and emotion cosmol, was quilty strangement, endingential preservation, and anomal poliment loads contained in consummer discharges. Diliting cuts busine can be an effective method of designating the energy of incoming smooth and provides an opportunity for come undiment to settle. Vegetated buffers are areas of natural or established vegetation alread to grow with minimal to enables and the commission of the commiss reduce the relocity of most in it from through the regretation. Buffers also particle a percentile are where most if an infiltrate the soil. They promote groundware exchange, tiltse our reduceds, and create shade to contain most temperatures. They can also percife widdle habitst and connect

It is estimated nationally that transportation is remonable for 24 percent of these emissions. The Revisemental Protection Agency has identified geochouse gases as empossible in part for changing disease conditions. Strategies to down or subdise climate change night include reducing the number of vehicle subes travelled (VMT) which totaled over 13 billion rules exacted in 2000 and has increased by usualy size person per-capits since 1990. This education can be accomplished through the personation of existing programs such as 701 Edeshue, which cancels married to mgdie communes in well in one time tilps, and utilization of public transportation systems such in Winnipeasable Transit System and Carolil Concept Transit, both of which offer negatar flexible secrice in the Lakes Region.

NHDES has identified idling automobiles as a significant contributor to air poliction in New Hampahine. According to an estimate of the Federal Highway Administration motor fael range in the state totaled over 812 million gallons in 2010. Additionally, the number of engineered vehicles in New Hampahine incomend 2016 persons between the peas 2006 and 2011. With such a dustic influent of

* Married Complement Can Strategies Date 125 SEA, And 2013

* Housel Bases Department of Highway Statesies, 2017.

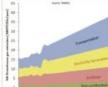
* Differ of Highway Police Information, (NOVA, 2015)

LANGERGROUP PLAN 6012-6060 TRANSPORTATION SO

relative, maintaining reasonable levels of service on Labre Region conductys becomes increasingly challenging. Congestion and capacity issues use a concern slong certain transportation considers in the Lakes Region. Turvel demand management practices such as access controls and keeping capacity in humony with development can help to ordine congestion and minimize CD, emissions. It has been a long time goal of the NHI Department of Eurimonental Services (NHIDES) to endure pollution endoison to design onest air quality standards. In the summer O 2015, there were those days in New Hampshire when air quality exceeded comes standards. Onnce is the principal ingredient of usog, is typically a warm weather sie pollutant that forms when nitrogen and volatile organic compounds mix in the presence of strong straight and train weather. It can have reacted effects on healthy individuals and can aggrerate respiratory conditions such as allergies,

The US Bericonnected Protection Agency (UPA) estimates usually 1.5 billion metric toos of generations gaze were estated from fixed fined combination in 2011. This represents a document most since 2007 when 0.2 billion contric toos of generations gazes were excited. The NIII Department of Reviewsment Services NIIDES) indicates the transportation sector is the most significant single source of greenhouse gas emissions in New Hampshire, and its relative contribution is projected to increase further based on convent trends (see Figure 10).







1990 2000 2000 2000 2000 2040 2050 · Reduce vehicle-coles integrated multimodal transportation system

LANGERBOOK PLAY SOLD-SING TRANSPORTATION AL

^{*} NOT Designation of Engineering Services - Restriction / Volume National of December 2015.

Regional Transportation Plan

Summer 2022

LRPC reformatted and drafted new regional transportation plan. Conducted corridor meetings

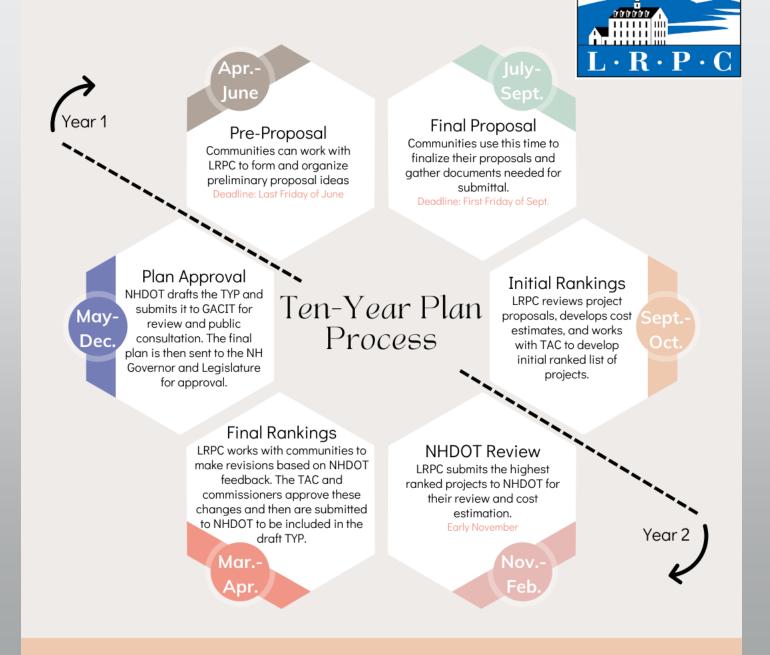
Summer 2023

Release Regional Transportation Plan

Update plan with more current information

Winter 2022

Ten Year Plan Funding and Project Prioritization



TYP 2025-2034







- Regional Allocation ~\$6.1 m
 - Based on population and No. of lane miles
- Fiscally constrained
- Highway segments and intersections
- Bicycle and pedestrian improvements
- Applications must be supported by engineering study

EXISTING LAKES REGION PROJECTS IN TEN YEAR PLAN 2021-2030

Municipality	Project #	Scope	Dates		Total Project Cost				
Belmont	40635	NH 140 and Main Street – Improve intersection safety and congestion			ROW	2023	CON	2025	\$0.7 m
Bristol	40636	NH 104 – Roadway widening and shoulders for Bike-Ped travel from School Street to west of Danforth Brook Road	PE	2021	ROW	2023	CON	2026	\$2.9 m
Bristol	41579	Lake Street – Bike-Ped improvements	PE	2021	ROW	2023	CON	2026	\$2.6 m
Gilmanton	42603	NH 140 and NH 107 – construct pedestrian islands and sidewalks at intersection and improve curb	PE	2025	ROW	2028	CON	2030	\$1.9 m
Laconia	43845	NUS 3 and Weirs Boulevard bridge replacement	PE	2023	ROW	2024	CON	2026	\$2.8 m
Meredith	43533	NH 25 – 4 intersection improvements	PE	2027	ROW	2030	CON	2032	\$2.8 m
Moultonborough	40639	NH 25 and Lake Shore Drive – intersection safety improvements from just west of Lake Shore Drive (W) to just east of Lake Shore Drive (E)	PE	2022	ROW	2022	CON	2025	\$2.4 m
Moultonborough	41580	NH 25 - Complete Streets improvements to Central Village	PE	2023, 2025	ROW	2025	CON	2027	\$1.6 m
Moultonborough	41581	NH 25 and Sheridan Road – intersection improvements	PE	2023, 2025	ROW	2025	CON	2027	\$0.8 m
Moultonborough	42602	NH 25 and Redding Lane – intersection improvements	PE	2025	ROW	2027	CON	2029	\$0.8 m
Plymouth	41583	Highland Street – reconstruction and intersection improvements	PE	2022	ROW	2024	CON	2025	\$1.4 m
Plymouth	43532	NH 25 and Smith Bridge Road – intersection safety improvements	PE	2027	ROW	2030	CON	2032	\$2.8 m

PE 2027

PE 2024

PE 2022

\$2.8 m

\$2.9 m

\$10.6 m

CON 2032

CON 2029

CON 2025

ROW 2030

ROW 2027

ROW 2024

Plymouth

Tilton

Wolfeboro

43532

42600

29615

(roundabout)

(roundabout)

Main Street and School Street - intersection safety improvements

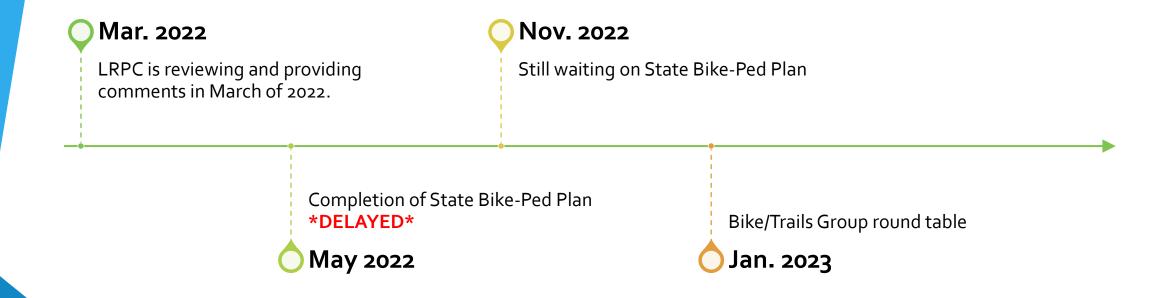
NH 28 - improvements from NH 109 to Alton town line

2025-2034 TYP Allocation ~\$6.1 million

- Meredith Increase allocation to NH 25 intersection improvements project
 \$2.4 million TAC Score: 74.4
- 2. Plymouth N. Main St. New alignment, pedestrian expansion \$4.5 million TAC Score: 64.8
- 3. Laconia Union Ave Rehabilitation \$2.2 million TAC Score: 67.8

Bicycle and Pedestrian Plan

State-Bike Ped Plan



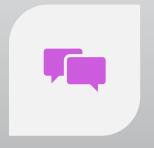
Next Steps



UPDATING PREVIOUS
SECTIONS/CHAPTERS WITH NEW
DATA AND INFORMATION



WORKING WITH TAC ON RECEIVING FEEDBACK ON GOALS AND VISION (STATE BIKE PED PLAN)



PLANNING A WORKSHOP WITH THE PUBLIC FOR FEEDBACK



ADOPTION OF LAKES REGION BICYCLING AND WALKING PLAN

Streetscaping and Sidewalk Planning



STREETSCAPING

Recognizes that streets are places where people engage in various activities, including but not limited to motor vehicle travel

COMPLETE STREETS

Designed for all roadway users, whether they are driving, riding, walking, rolling (wheelchair, stroller)

Streetscaping includes

Inclusive transportation options

Aesthetic design

Vibrant centers of activity

Pedestrian and bike friendly options



ELEMENTS OF A STREETSCAPE



SIDEWALKS



CURB EXTENSIONS



LANDSCAPED BUFFERS



PLANTERS



SEATING



PUBLIC ART



LIGHTING



BIKE PARKING

Important Factors:

- Inclusive, accessible
- Boundaries
- Traffic Calming
- Physical Comfort





Photo Credit: NHDOT



Multi-modal main streets

- State highway as Main Street
- Speed management
- Winter weather and maintenance
- School connections



Planning & Zoning

Mixed Use Zoning

- Blends housing, offices, retail, entertainment, institutions, services, restaurants
- Pedestrian-friendly

Form-based codes

- Development pattern similar to existing conditions
- Relationship between buildings and the public realm (streets, sidewalks, etc.), and the form and mass of buildings in relation to one another



Technical Assistance

- Provide information on streetscaping concepts
- Offer sidewalk assessments and mapping
- Meet with town officials to discuss potential projects
- Provide information on potential funding sources

Ryan Paterson

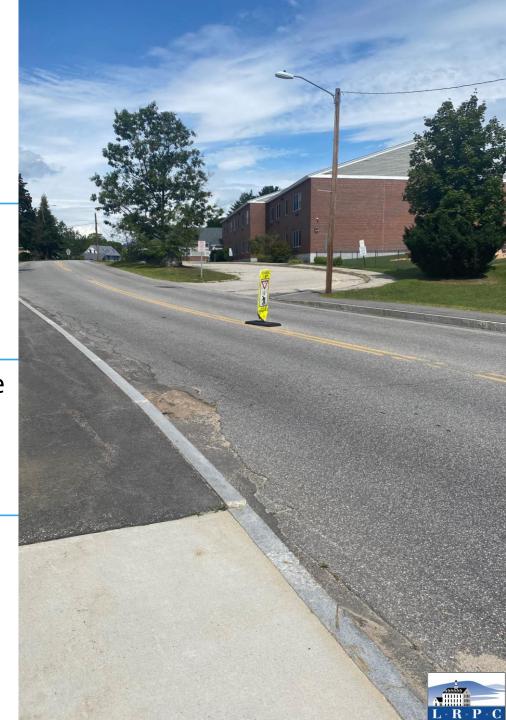
Pedestrian Assessment

Lakes Region Sidewalk Assessments

Purpose – Sidewalks are an important part of a community's infrastructure. Developing a plan for maintenance and thoughtful expansion begins with assessing and mapping what you have.

Program – Assessment is a module of the Statewide Asset Data Exchange (SADES) program. With standardized attributes, assessments, and training the overall results are consistent and comparable.

The SADES System was developed by UNH T² in cooperation with NH DOT, NH DES, and NH's Regional Planning Commissions.



Lakes Region Sidewalk Assessments



Pilot Program – As a supplement to our USDA Streetscaping project, we assessed the sidewalk infrastructure in a couple of communities.



Next Steps – Local prioritization and implementation

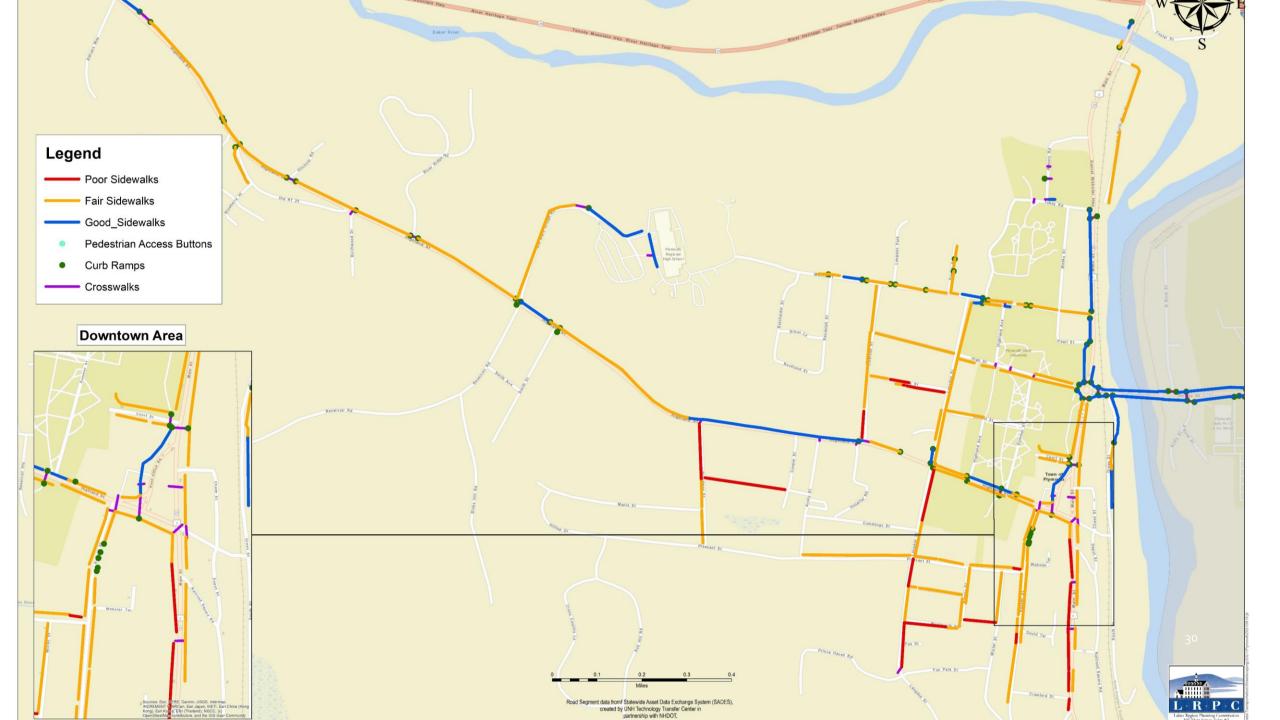


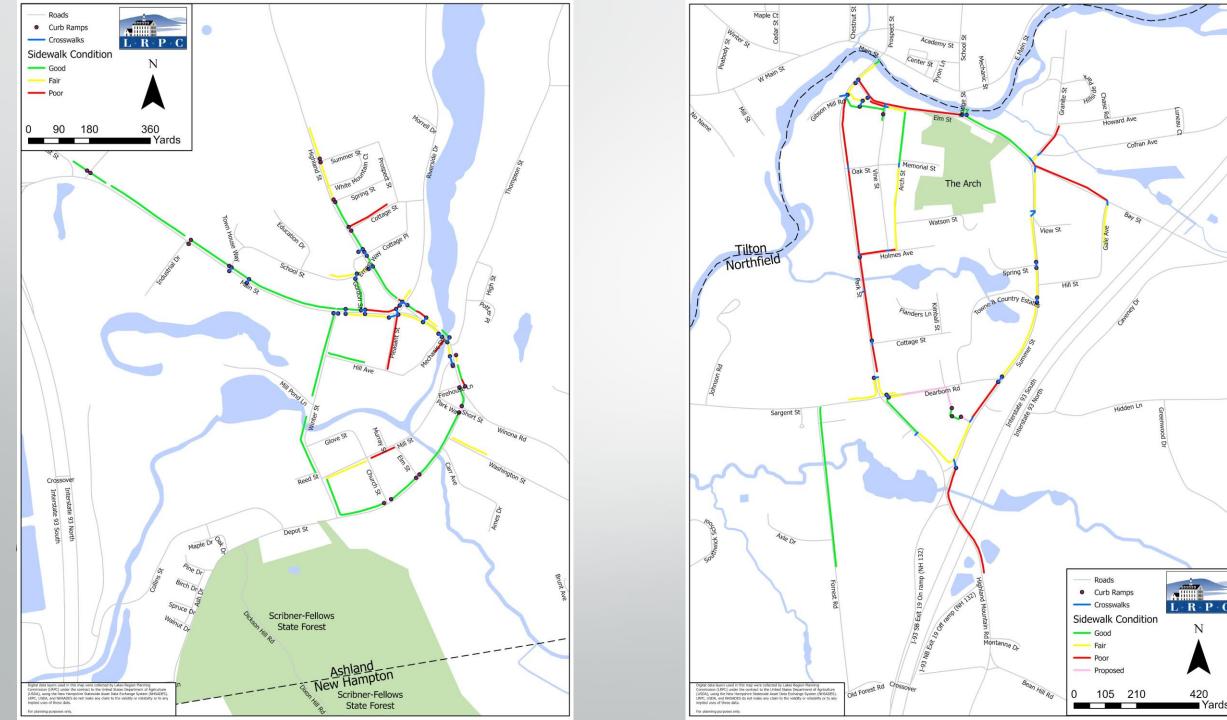
Products – A full Sidewalk
Assessment would result in
maps, reports, a list of
resources, asset spreadsheet,
and GIS shapefile











Traffic Counting Program

Traffic Data is collected for NHDOT under the Unified Planning Work Program (UPWP)

- Short duration counts (7 days) at each site
- ~160 counts per year
- Data captured using pneumatic and radar traffic counters
- All data formatted and sent to NHDOT
- Purpose to estimate average annual daily traffic (AADT) on roadways
- New Federal Highways Administration (FHWA) requirement – 30% of counts need classification data

FHWA Model Inventory of Roadway Elements (MIRE) Requirements

- FHWA Highway Safety Improvement Program (HSIP)
 Final Rule requires AADT available for all non-federal aid system (NFAS) public paved roads
- AADT for NFAS road network needs to be available by 2026
- LRPC working with NHDOT to secure funding to begin planning and implementing new traffic counts







Municipal Traffic Counts

- Counts can be requested by municipalities for various times and lengths
- Count is conducted and a report and map of location is delivered to the municipality
- Count can capture:
 - Daily total traffic and peak times
 - 2. Class of vehicles
 - 3. Speed
 - 4. Direction of travel



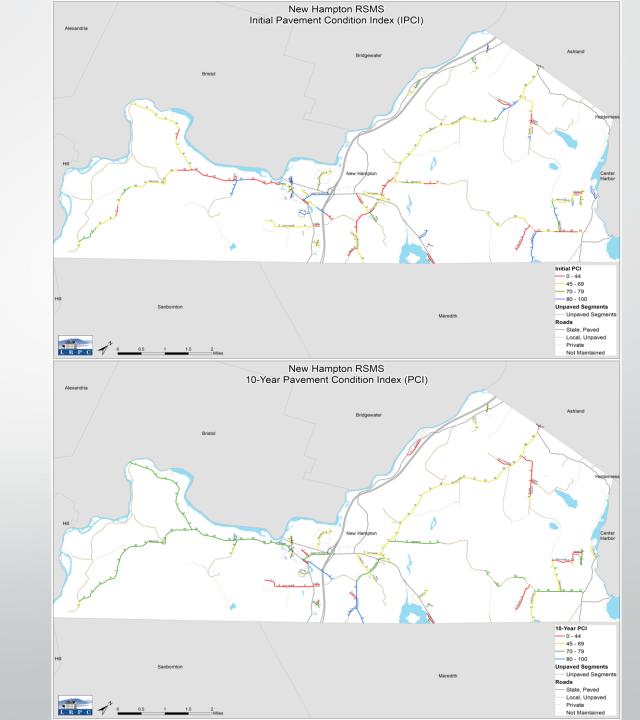
SADES Road Surface
Management System (RSMS)
Assessment and Forecast

RSMS is a two-part process:

- 1. Assessment
- The assessment consists of mapping out all the roadways and separating them between paved and unpaved
- All paved roads are traveled and assessed following the NH SADES protocol guidelines

2. Forecast

- The data is then processed and used to create a forecast for road repair
- LRPC works with local road agent or DPW director throughout this process
- RSMS forecasting will create a yearly cost estimate for the repairs selected, this can be used as a budgeting tool
- The forecast will show the road networks overall pavement condition index (PCI) and show it's increase/decrease every year after repairs are selected



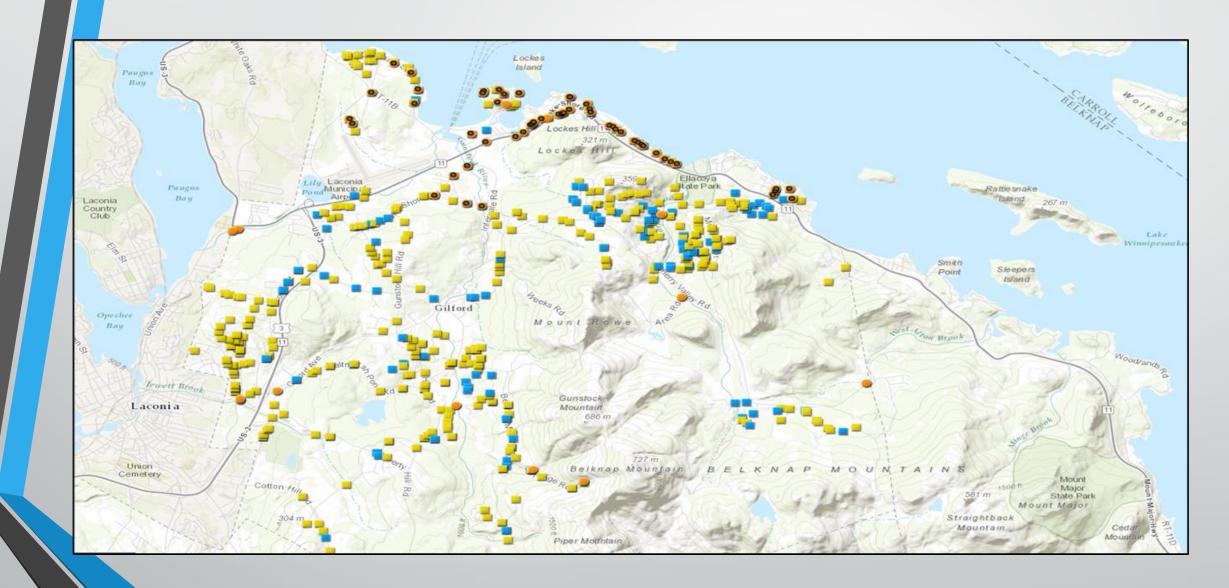
SADES Culverts and Closed Drainage System (CCDS) and Stream Crossing Assessments

- CCDS inventories, assesses, and maps all culvert and drainage systems in the municipality – basic condition assessment done
- Stream crossing assessment maps all stream crossings, which also includes culverts
- Stream crossing also includes condition assessment but mostly focuses on environmental conditions and factors



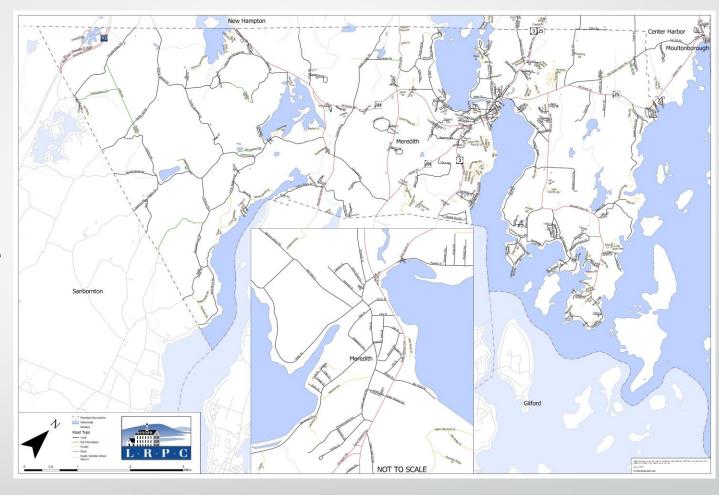






Geographic Information System (GIS) Mapping Technical Assistance

- LRPC can create maps and overlays of most anything that is requested
- Information can be made into paper and/or digital maps
- GIS shapefiles can be made and sent to municipality – these can be used by municipalities GIS software or sent to their contractors to be added to online maps on their websites.



LRPC Data Collection & SADES Programs

- Municipal Traffic Counts (PD)
- Bicycle and Pedestrian Counts
- Turning Movement Counts (PD)
- SADES
 - Road Surface Management System (RSMS) Pavement assessment, forecasting, and budgeting (DPW, CIP, BoS)
 - Culvert & Closed Drainage Structure (CCDS) Inventory along with basic structural measurement & assessment (DPW, HMP) https://nhsades.maps.arcgis.com/home/index.html
 - Stream Crossing Assessment Inventory and detailed assessment of permanent stream crossings – structure and landscape with full Geofluvial and aquatic organism passage analysis (DPW, HMP, Cons. Comm.)
 - Guardrail inventory inventory, assessment, and mapping of guardrails (DPW)
 - Sidewalk Assessment inventory, assessment, and mapping of Sidewalks (DPW and PB)
- •For more information and pricing on these programs, please contact:
- *David Jeffers, Regional Planner/GIS
- •djeffers@lakesrpc.org (603) 279-5341



Alternative Funding Opportunities

Sean Chamberlin

& Things to Consider

- **Project proposal/description** utilize sidewalk assessments & traffic counting
- Determine cost estimates
 - Larger project vision? Assess in full in case a "phase in" approach is appropriate
- Sourcing match funds
- Schedule pre-application meeting with funders
- Plan funding and timeline of <u>preliminary</u> assessments
 architectural design, engineering report, environmental assessments(s)

USDA Rural Development

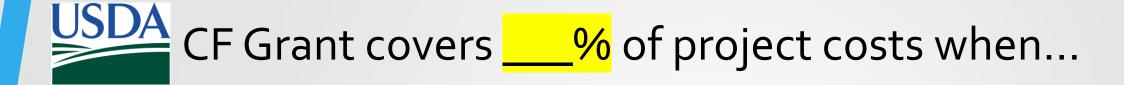






State Pool Deadline (competitive) – mid-December each year National Pool Deadline (more competitive) – mid-April each year

- Grants, low interest loans, and combinations of both are available to public bodies.
- Requirements for all applications, plus documentation for:
 Non-construction projects <u>VS.</u> Construction projects (architectural & environmental assessments)



- Maximum of 75%
 - Population of 5,000 or fewer, and
 - MHI is 6o% of SNMHI

- Maximum of 55%
 - Population of 12,000 or fewer, and
 - MHI is 70% of SNMHI

Maximum of 35%

- Population of 20,000 or fewer, and
- MHI is 80% of SNMHI

- Maximum of 15%
 - Population of 20,000 or fewer, and
 - MHI is 80% of SNMHI

*SNMHI = State Non-Metropolitan Median Household Income

**Current grant eligibility percentages set by USDA are based on 2010 census data — 2020 update TBD

CONTACTS

USDA Rural Development Community Programs

Eric Law, Community Programs Director

Eric.Law@usda.gov

(802) 828-6033

Contact Eric to set up a pre-application meeting

Jonathan.Harries@usda.gov (802) 828-6035

Tracy Montminy, State Architect

Tracy.Montminy@usda.gov

(802) 828-6057



NBRC GRANTS



Economic & infrastructure projects in Belknap, Carroll, Grafton Counties

Dependent on economic and demographic distress in each county.

Poverty & Unemployment Levels = Distressed, Transitional, or Attainment**

Counties

Potential for up to an 80% matching grant

Funding still available for Attainment Counties

Isolated Areas of Distress, Multi-County/State Projects, Significant Benefits Waiver

"Distress" determination is based on 2022 NBRC Economic and Demographic Report – updated each year.

LAKES REGION

NBRC ISOLATED AREAS OF DISTRESS

BELKNAP County

- Belmont
- Center Harbor
- Gilmanton
- New Hampton
- Sanbornton
- Tilton

CARROL County

Freedom

Ossipee

Tuftonboro

GRAFTON County

Ashland

Hebron

Plymouth

CONTACTS



NH Business and Economic Affairs (BEA)
Representatives/NBRC State Program Managers

Janel Lawton
<u>janel.m.lawton@livefree.nh.gov</u>
(603) 545-1579

Contact NBRC about your project in advance of submitting an application

Transportation Funding

- TYP (TEN YEAR PLAN FUNDING)
- TAP(TRANSPORTATION ALTERNATIVES)
- CMAQ (CONGESTION MITIGATION AND AIR QUALITY)
- HSIP (HIGHWAY SAFETY IMPROVEMENT PROGRAM)

Discretionary Grants

Funding Available to a Range of Recipients

Program Examples	State	MPO	Local	Tribe	PA*	Territory	FLMA*
Apportioned programs (formula)	✓						
Bridge Program (formula)	✓			✓			
National Electric Vehicle Formula Program	✓		✓				
Safe Streets and Roads for All program		✓	✓	✓			
PROTECT Grants (discretionary)	✓	✓	✓	✓	✓		✓
Charging and Fueling Infrastructure Program	✓	✓	✓	✓	✓	✓	
Congestion Relief Program	✓	✓	✓				
Bridge Investment Program (discretionary)	✓	✓	✓	✓	✓		✓
Reconnecting Communities Pilot Program	✓	✓	✓	✓			
Rural Surface Transportation Grants	✓		✓	✓			
INFRA	✓	✓	✓	✓	✓		✓
Nat'l Infra. Project Assistance	✓	✓	✓	✓	✓		
Local and Regional Project Assistance	✓	✓	✓	✓	✓	✓	

Note: This table does not include all BIL programs or eligible entities, and there are additional nuances not represented in this table. Additional programmatic information is provided in later slides. FHWA will administer most, but not all, programs listed.

* "PA" means a special purpose district or public authority with a transportation function; FLMA means Federal Land Management

Agency

•Question?