## Vermont Agency of Transportation Annual Accomplishments and Overview

HOUSE TRANSPORTATION COMMITTEE

JANUARY 9, 2024

SECRETARY JOE FLYNN

VERMONT AGENCY OF TRANSPORTATION



# Highway Division



## Highway Division

SFY 2024 Staff: 333 SFY 2024 Funding: Total Appropriation \$443.6M



The Highway Division overseas prioritization, programming, design, engineering and construction projects on the interstate and highway systems; supports municipal projects; manages the safety and needs of the Agency's highway assets – bridges, culverts, signals, signs, pavement, and more – from budgeting and conceptualization through construction and operation.

AGENCY OF TRANSPORTATION

Construction &	Operations & Safety	Project Delivery	Asset Management
Materials Bureau	Bureau	Bureau	Bureau
<ul> <li>Construction</li> <li>Materials</li> <li>Geo-Technical</li> <li>E-Construction</li> </ul>	<ul> <li>Traffic Signal Operations and Intelligent Transportation Systems</li> <li>Transportation Management Center</li> <li>Traffic Operations/Mobility</li> <li>Data Management</li> <li>Office of Highway Safety</li> </ul>	<ul> <li>Structures and Hydraulics</li> <li>Highway Safety and Design</li> <li>Right of Way, Utilities, and Environmental</li> <li>Municipal Assistance</li> </ul>	<ul> <li>Budget and Programming</li> <li>Data Management</li> <li>Bridge Inspection</li> <li>Active Transportation</li> <li>Corridor Management</li> </ul>

#### North Hero – Grand Isle Bridge

#### U.S. Route 2 Bridge #8 over Lake Champlain

(\$97.1 million drawbridge replacement)

Traffic has been moved to the new structure, and the structure is now fully operational on the roadway and for boating traffic. Work was completed in fall 2023.



**Burlington and Winooski Paving Project** 

#### U.S. Route 2, U.S. Route 7, and Vermont Route 15

(\$21.4 million estimated project)

This project begins on Shelburne Road in Burlington over the Winooski bridge, extending to East Allen Street. Sidewalk ramps and pedestrian crossing infrastructure will be replaced and upgraded to meet current ADA standards, as necessary.





#### Lyndon – Barton Paving Project

#### Interstate 91 Southbound, Exits 23, 24, and 25

(\$18.6 million estimated project)

The paving project will include the associated exit ramps, resulting in a total project length of 40.1 miles. Additionally, some guardrail work will be performed to repair and replace damage sections. Lastly, shoulder berms that have built up will be removed to facilitate better drainage from the road surface.

#### **Brattleboro – Newfane Resurfacing**

#### Vermont Route 30 and U.S. Route 5 Intersection

(\$28.6 million estimated project)

Improvement project consisting of pavement, guardrail runs, culvert, and ditching. The corridor will be evaluated for the installation of Centerline Rumble Strips (CLRS).



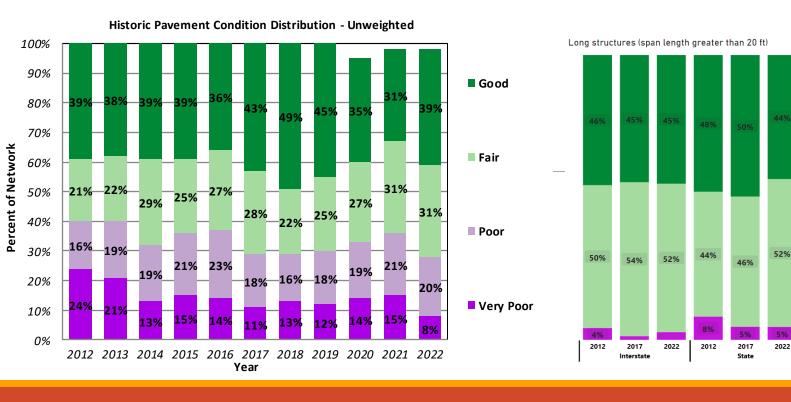


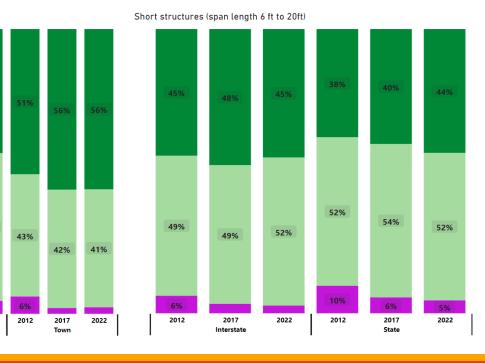


Culverts & Signs – AOT maintains 48,975 culverts and 66,879 signs.

**Bridge Conditions** – Meeting or exceeding all state and federal performance measure targets. The Bridge Management System (BMS) is being piloted in production, and initial results are promising, allowing conformity with Transportation Asset Management Plan (TAMP) requirements.

## **Pavement Conditions** – Remaining below the five-year average of 13% Very Poor while increasing the amount of pavement in Good/Fair Condition (70%).





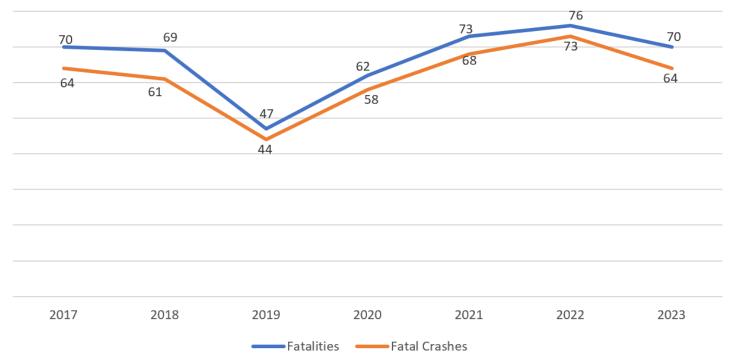
**Historic Condition Distribution By Percent** 

AGENCY OF TRANSPORTATION

Road User Type	Restraint/Safety Equipment	2023	2022	2021	2020	2019	2018
Motor Vehicle Occupant	Unbelted	22	31	28	24	17	34
	- Driver	16	25	25	19	15	25
	- Passenger	6	6	3	5	2	9
	- UTV Driver	0					0
	Belted	17	18	18	17	18	21
	- Driver	14	17	13	12	14	15
	- Passenger	3	1	5	5	4	6
	Improper Belt Use/Child Restraint	1	1		0	0	0
Motorcyclist/ATV	Wearing Helmet	13	14	13	10	5	5
	Non-DOT Compliant Helmet/Improper	3		2	0	1	1
	No Helmet	1	2	2	2	2	1
Vulnerable Users	Pedestrians	5	6	8	8	3	6
	Bicyclists	1	1	-	1	0	0
Unknown	Unknown Belt/Helmet Use	7	3	3	0	1	1
	55%	62%	61%	59%	49%	62%	
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#### Fatalities and Fatal Crashes by Calendar Year

\*Data Current Through 01/03/2024





## District Maintenance and Fleet Division



District Maintenance & Fleet Division

#### SFY 2024 Staff

Total: 519

SFY 2024 Funding

Total Appropriation: \$28.7M

The Agency of Transportation (AOT) has a significant public investment in its transportation infrastructure. The District Maintenance and Fleet Division – with more than 500 employees – maintains that infrastructure for the benefit of the traveling public as well as the vehicles and equipment necessary to perform the maintenance. Our workforce is dedicated, hard-working, and proud of what they do.

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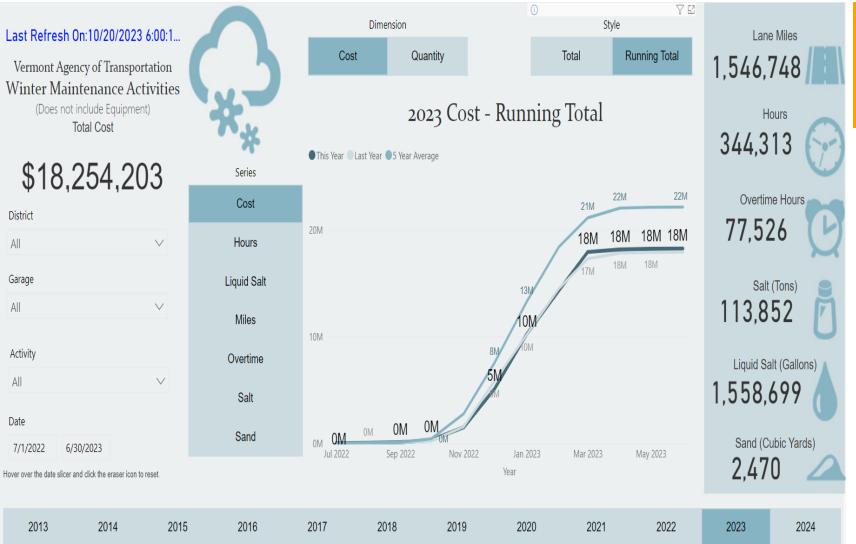


For the first time in many years, the Agency will be using a plow truck that is not an International, as Freightliner has provided pricing on the recent truck bid.

SOUTHWEST		SOUTHEAST		CAPITAL	NORTHWEST		NORTHEAST	
District 1 Bennington East Dorset Marlboro Readsboro Wilmington	District 3 Brandon Castleton Clarendon Ludlow Mendon Middlebury Rutland Sudbury	District 2 Ascutney Chester Dummerston Jamaica Londonderry Rockingham Springfield	District 4 Randolph Reading Rochester Royalton Thetford Tunbridge White River Jct Windsor Woodstock	District 6 Middlesex Morristown N. Montpelier Orange Waitsfield Williamstown	District 5 Chimney Corners Colchester New Haven	District 8 Cambridge Eden Enosburg Georgia Highgate Montgomery N. Hero St. Albans	District 7 Bradford Lunenburg Lyndon Newbury St. Johnsbury W. Danville	District 9 Barton Bloomfield Canaan Derby Irasburg Island Pond Westfield Westmore



## **Program Highlights: Maintenance**



FY 23 Salt Tons: 113,852, Ave \$84/ton FY 22 Salt Tons: 125,354, Ave \$61/ton FY 21 Salt Tons: 105,343, Ave \$53/ton FY24- Ave \$86/ton

#### Maintenance by the Numbers-FY23

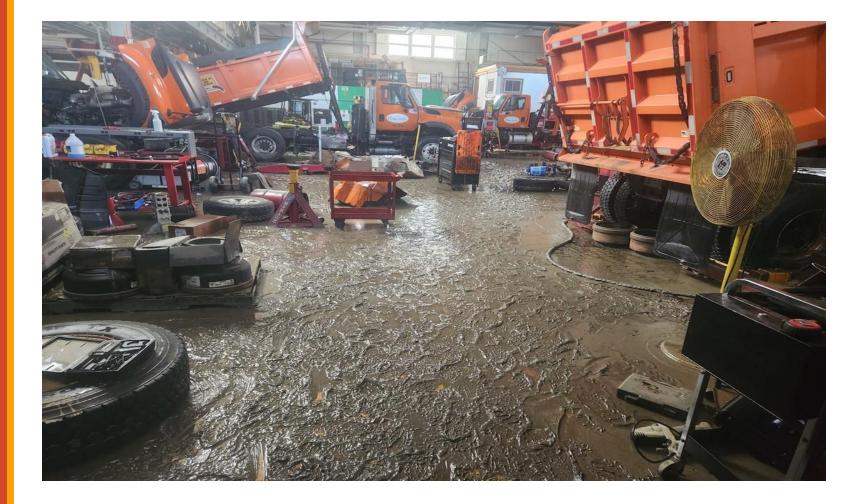
- Total acres of mowing: 18,455
- Total lane miles plowed: 1,546,748
- Total linear feet of guardrails repair: 29,716
- Total tons of litter picked up: 601.2
- Total miles of ditching: 31.91
- Total bridges washed: 674



## CENTRAL GARAGE

Central Garage in Berlin was inundated by the flooding in July 2023. This caused significant damage to the main Central Garage fleet maintenance facility, where vehicles and equipment are received and repaired, and the headquarters of Fleet Maintenance/Management.

With the extent of damage, the main facility will not be repaired, and the former storage building and traffic shop have been temporarily upfitted to allow for maintenance to occur. We are actively searching for a location out of the flood zone for a replacement facility.





## CENTRAL GARAGE

Central Garage is responsible for the fleet management for the Agency of Transportation. Central Garage is AOT's advocate, caretaker and technical resource for mid-size and heavy-duty highway and bridge maintenance vehicles and equipment, including multiuse plow and dump trucks and specialized heavy and construction equipment. Among these assets are: 259 active dump trucks, 111 pickups with plows, 55 loaders, and 5 graders. The division also supports Highway Maintenance, DMV Commercial Vehicle Enforcement Section, Aviation, and Bridge Inspection equipment through intra-agency service agreements.



#### **Central Garage Fleet Electrification**

Central Garage will continue to purchase, when possible, battery electric vehicles and equipment to work toward reducing our carbon footprint.

We have received four of six Ford F150 lightnings that were ordered and are still waiting for General Motors to release the Sierra EV, which is slated to go on sale in early 2024.

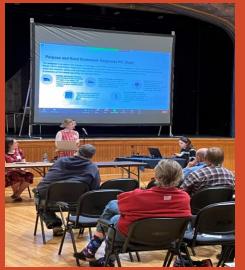
We have also purchased a compact, battery electric wheel loader and excavator, for the maintenance districts to use in their daily activities.

We will continue to look for opportunities to order EVs and Hybrid vehicles as we replace our vehicles and equipment.

## Policy, Planning, and Intermodal Development Division (PPAID)



## Policy, Planning, and Research



Program Manager: Amy Bell

#### SFY 2024 Staff: 22 FTE and 1 Temporary

State Funds: \$3,351,197

14

Federal Funds: \$10,797,449

Interdepartmental Transfer: \$116,503

- 230 municipalities actively engaged in regional and statewide Transportation Planning
- 142 municipalities assisted with transportation related grants
- Completed Smart Growth Study
- Completed three Better Connections municipal studies and initiated three new projects
- Completed Transportation Equity Framework Report and began implementation
- Completed "Big" Transportation Data acquisition
- Concluded Traffic Safety Toolbox: Speed Countermeasures Research Project
- Completed Legislative Studies: Highway Weight Limits & US Route 5 Bike Corridor Survey
- Processed 551 permits for driveways, utilities, and other work in highway right-of-way
- Reviewed 251 Act 250 applications; 40 comment letters; 18 Act 145 Fees assessed
- Processed the 2023 mileage certificates and published 61 updated town highway maps
- Created Local Road Closure Reviewer and Dashboard apps to assist municipalities with mapping and display of storm-related road closures
- Initiated development of Highway Access Permit (Sec 1111) Automation Software
- Initiated development of Multi-Modal Highway Design Guidance in partnership with Highways Division
- Continued managing the Vergennes Planning and Environmental Linkages Study to identify alternate routes for trucks on VT 22A in Vergennes
- Facilitated Champlain Region International Border Project Group



## Environmental Policy and Sustainability



#### SFY 2023 Staff: 2 FTE

#### SFY 2024 Staff: 5 FTE

SFY 2023 Budget: no standalone program budget; included in Planning, Policy, and Research budget (SFY 24 Budget: \$27.9M)

- Issued 41% more transportation incentives and 21% more funding than in SFY22 with 77% of funds going to Vermonters with lower incomes
- Gained FHWA approval for second annual National Electric Vehicle Infrastructure (NEVI) Plan and new contracting method for fast-charging deployment
- Submitted nominations for EV freight corridor designations
- Supported development of Community Charging Grant Program with ACCD, PSD, and ANR
- Applied for competitive IIJA grant funds to supplement state and federal formula funds
- Obtained legislative approval for further research and federal Infrastructure Investment and Jobs Act (IIJA) grant application to implement a mileage-based user fee for electric vehicles and road usage charge for plug-in hybrids
- Held two dozen stakeholder, public engagement, and Advisory and Technical Committee meetings to develop a Carbon Reduction Strategy
- Developed a Resilience Improvement Plan with a prioritized list of high-risk resilience locations for IIJA PROTECT formula funds
- Provided 17 Transportation Resilience Planning Tool training sessions to more than 170 AOT and other state agency staff, RPCs, and municipalities.

AGENCY OF TRANSPORTATION

### Public Transit Program



SFY 2024 Staff: 5 FTE and 1 PT

State Funds: \$9,050,142

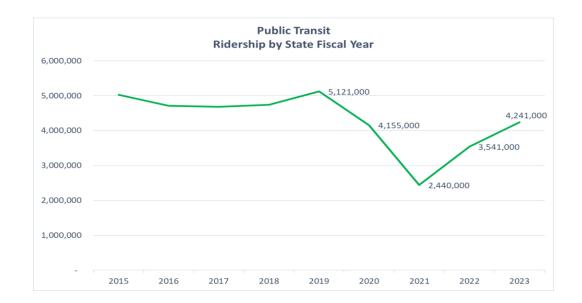
Federal Transit Administration (FTA) funds: \$18,792,700

Federal Highway Administration(FHWA) funds: \$23,000,000  Operation costs increased due to fuel, wages, inflation, and zero-fare service.

 Microtransit: Pilot in Montpelier was successful 4 new starts have begun. 14 feasibility studies completed.

- Transit app: Open data, route planning and analysis modules. Free version released to the public. More than 8,000 weekly users.
- EV Buses:

Federal Low and No Emissions grant funding: \$38,647,857 State and Local funding: \$4,869,791 Volkswagen funds: \$4,259,798 Funding for a total of 44 vehicles





## **Rail Program**



21 FTE Staff

SFY 24 State Funds: \$15,608,462

SFY 24 Federal: \$26,596,858

#### Rail Program Projects

• Rail Bridge BUILD Projects -18 of 29 under construction, 3 complete. 8 projects will be built in years 2024-2025

#### Rail Bridge Program

- In 2010, 35 of 174 bridges met 286,000 lbs loading rating capacity, the industry standard. Today, 153 meet this standard.
- Annual Rail Bridge Inspections of the 174 rail bridges are complete.

#### • Rail Crossing Program

- Inspect 420 Public, At-Grade Rail-Highway Crossings each year
- Crossing Safety Improvement Projects: 20 complete.

#### •Amtrak

- Amtrak Ridership from FFY 2022 to 2023 has increased by 16% for the Vermonter and 43% for the Ethan Allen Express.
- AOT continues to work with Amtrak and Canadian officials on the feasibility study for the preclearance facility at Montreal Central Station.

#### • July Storm Event Response:

- 160 sites were damaged during the July Storm Event.
- 15 sites from this event are ongoing projects.
- Restored Amtrak Service in 10 days. Service restored to all State-Owned Rail Lines in 5 weeks.



### **Aviation Program**



#### 18 FTE Staff

SFY 24 State Funds: \$5,693,133

SFY 24 Federal: \$15,190,861

#### • Project Highlight: Franklin County State Airport – Highgate

- Runway Reconstruction and Widening to 3000' x 75'
- LED Lighting Upgrades
- Drainage Improvements
- Avigation Easements and Obstruction Removal

#### Program Projects

- Airport Improvement Projects Completed: 4
- Airport Improvement Project Ongoing: 12

#### Maintenance Activities

• Runway miles plowed: 9.73

#### •Statewide Airport Master Permitting

 Act 250 partial findings permits issued for 3 airports, in review for 2, with 4 more progressing towards Act 250 submission.

#### Unmanned Aircraft System (UAS) Program

 The program had 75+ UAS missions in response to July 10<sup>th</sup> flooding. The program has approximately 50 missions each year.



## Finance and Administration Division



## Finance & Administration Division

SFY 2024 Staff: 138 SFY 2024 Funding Total Appropriation: \$28.7M The Division works to maximize financial and human resources, while improving business practices to meet the needs of internal and external customers. Functional areas of the division include:







**Civil Rights** 

The Bureau of Civil Rights is responsible for internal and external oversight and compliance with USDOT regulations. AOT strives to go above and beyond compliance by promoting a culture of workplace respect, civility & and inclusion through interactive training, interdisciplinary strategies, and best practices to support its employees, supervisors, managers, and program partners.

Overview of resources and learning opportunities:

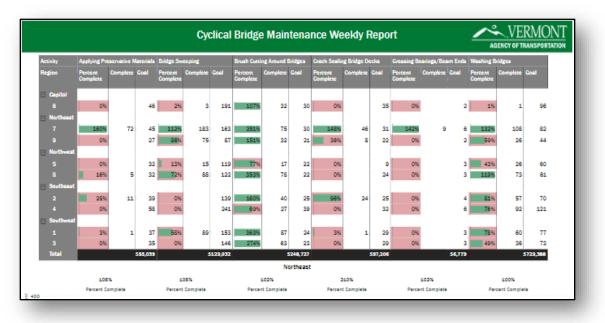
- Developed & implemented enhanced <u>Translation Services &</u> <u>Resources</u>
- Language Assistance Plan, dynamic Vermont Equity Map
- Launched enhanced <u>ADA resources</u>, including <u>ADA Compliance</u> <u>training</u> for Vermont municipalities and digital accessibility guides
- Developed & and delivered <u>Contractor Training and enhanced</u> <u>resources</u> on construction workforce equity
- Launch of the <u>Transportation Equity Framework</u> Developed to serve as a guide and pathway to inform actions that can achieve transportation equity in future investments



### Bureau of Innovation, Learning & Development: Cyclical Bridge Maintenance Dashboard and Report Automation

#### **INCREASED EFFICIENCY**

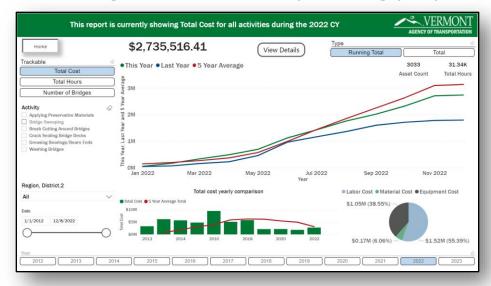
These tools make the bridge maintenance goals easily accessible, which has saved personnel time equivalent to 15,000 hours per year.



#### DATA INFORMED DECISION MAKING

The dashboard informs operational decisions around staff time and cost for each activity.

Tracks costs for maintaining 2,350 bridges for future budget and resource planning purposes.





## Emergency Management & Employee Safety

In August 2011, Tropical Storm Irene devastated Vermont, damaging 200 bridges, 1,000 culverts, and 2,400 road segments totaling over 500 miles.

Nearly 12 years later, AOT reconciled the final project and FEMA officially closed out the disaster in March 2023. AOT Emergency Management and Employee Safety managed over 350 sub-applicants, including 25 other State agencies, and was able to obtain nearly \$209 million in FEMA public assistance for Vermont.



## AOT Strategic Workforce Plan FY2024 – FY2025



Development and implementation of a refreshed Strategic Workforce Plan through:

- Alignment with AOT mission, vision, and strategic plan
- Organizational assessment of employee engagement survey results and culture
- Reviewed current/future workforce analytics and Manager selected top five workforce pressures
- Identified FY24 Goals:
  - Effective 1/1/24, AOT will require all Supervisors/Managers to conduct, at a minimum, a monthly individual check in with employees
  - Effective 1/1/24, AOT will require completion of annual mandatory Supervisor/Manager training. For FY24, 4 hours in person training on individual check in best practices and resiliency, and 4 hours of self-selected leadership learning curated by VTTC

Outcome = improved employee engagement, retention, and productivity



## Department of Motor Vehicles



### **DMV Operations**

#### 171 Employees

The Operations division is comprised of four sections:

Branch Operations – Operate branch locations across the state providing inperson services including vehicle registration and titling, issuance of credentials, administration of examinations

Information Processing – Responsible for processing all mail and online transactions, verifying and retrieving documentation required to support all business functions

Commercial Vehicle Operations – Administer the International Registration Plan and International Fuel Tax Agreements, maintain motor carrier records, collection of gas, diesel and rental taxes, and issue oversize and overweight vehicle permits

Driver Improvement and Information – Issue driver license suspensions and reinstatements, process accident reports, and manage Ignition Interlock program.

- Implemented the use of new imaging system in Commercial Vehicle Operations
- Served approximately 170,000 scheduled appointments and 84,560 walk-ins
- Completed approximately 17,264 road exams
- Implemented new process for out-of-state registrations to reduce fraud by updating the forms to include an out-of-state registration form





### **Core Modernization Project**

10 full-time DMV employees

4 DMV testers

Partnering with FAST Enterprises to implement a commercial off-the-shelf solution in a two-phase project to replace existing, disparate systems with a single online system

Phase 1: Vehicle Services – June 13, 2022, to November 13, 2023

Replacing many aging systems in vehicle registration and titling, revenue collection and categorization, image scanning and retrieval, and dealerships

Phase 2: Driver Services – Planned to go live in 2025

- Vehicle Services went live November 13, 2023
- Purchased and installed all required equipment for the system upgrade
- Completed training for staff
- Reassigned staff according to the needs of the new system and its workflow enhancements
- Developed a communication campaign (Don't Wait in Line; Start Online) that features digital ads, social media ads, and radio ads





## Enforcement and Safety

#### 44 Employees

Commercial Vehicle Enforcement – Sworn uniformed officers whose primary mission is the enforcement of laws and regulations pertaining to commercial vehicle safety

Investigative unit – Sworn and non-sworn investigators, and the Education and Safety Office. Primary mission is regulation of motor vehicle dealers, inspection stations, and investigation of fraudulent or illegal activities involving the department

Education and Safety Office – Provide oversight of training schools and programs, motorcycle and school bus driver training, and third-party testing

Administrative unit – Support all units in the division and its programs, including dealer and inspection station licensing, inspection mechanic certification, rider education program information requests, abandoned vehicles and vessels, and reporting to Federal Motor Carrier Safety Administration

- DMV Inspectors actively participated in the Chittenden County Gun Violence Taskforce
- Provided in-person written Commercial Driver License General Knowledge, Air Brake, Passenger, and School Bus written permit testing to school districts
- An Orange County dealership was investigated for submitting 89 fraudulent motor vehicle Manufacturer's Certificates of Origin (MCOs) to DMV to receive title
- Provided an online version of the Type II Multi-Function School Activity Bus Written Test







## **DMV Finance**

#### 19 Employees

Finance unit – Comprised of the Accounts Payable, Accounts Receivable, and Contract Management units. Responsible for the protection of the financial resources of the Department, including development and management of departmental budget, categorization of revenues, payroll administration, grants and contract management, and purchasing and payment activities

Facilities Management and Logistics unit – Responsible for management of real estate, Continuity of Ongoing Operations plan, security functions, and the stockroom and mailroom

Audit unit – Perform investigative and audit work related to state and federal fuel tax regulations, primarily covering International Registration Plan, Purchase & Use tax, and International Fuel Tax Agreements

- Vermont Strong Plate Distribution Management of plate distribution, accounting for sales providing weekly updates of funds received, and distribution to intended recipients.
- Audit Team recruitment after retirements. Audit is fully staffed as of April 2023; the team has been reestablished. Also, we were successful with a class review for this team in September 2023.
- Finance and Logistics Team is engaged in transition of financial point of sale system from US eDirect POS to Fast VT TRIPS as well as alignment of supporting contracts such as VINtelligence, JD Powers (valuation services), bank courier service, etc.



## **Special Programs**

#### 3 Employees

Special Programs unit - Responsibilities include coordination of legislative activities, compiling legislative reports, implementation of statutory changes, coordination of modification of administrative rules, management of the Department's social media pages and internal and public websites, collaboration with senior management to identify and implement enhancements to business practices and improve customer experiences, and strategic planning

Lead on the DMV Core Modernization Project

- Added Russian, Mandarin, and Ukrainian to the list of translated documents, bringing the total to 15 languages
- Guided DMV through a successful legislative session
- Updated and modernized forms and documents, for example, the Registration Application
- Increased the number of social media followers on Facebook, Twitter, and Instagram



