

2040 Vermont Long-Range Transportation Plan Update

SUMMER 2017 REGIONAL PLANNING COMMISSION PRESENTATION

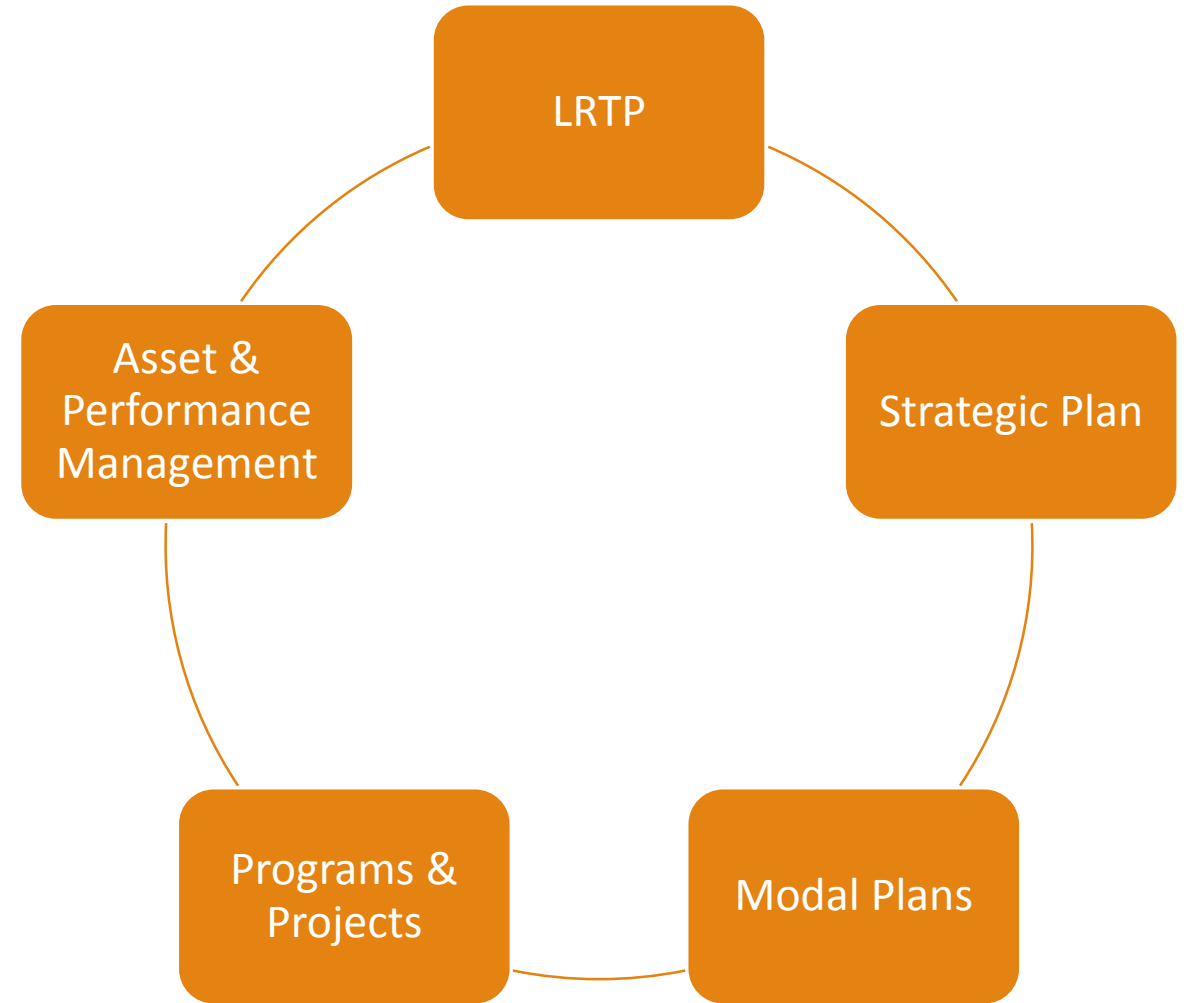


Today's Objectives

1. Purpose of the Long Range Transportation Plan
2. Review schedule, roles and responsibilities, & how to stay involved (handout)
3. Present overview of Existing Conditions & Future Trends report
4. Listen and document local and regional perspectives

L RTP Purpose

1. Vermont's LRTP guides transportation decision-making and investments over the next 20 years.
2. Updated periodically to ensure we are on the right path in terms of policies and investment priorities.
3. Addresses changes in federal policies (over 50% of transportation funding).
4. Guides the development of other plans.



Schedule & Roles



What's Happened Since the last LRTP?

1. New Leadership: Governor Scott's Three Goals
 - Growing the economy
 - Making Vermont more affordable
 - Protecting vulnerable populations
2. New Federal Legislation (MAP-21 & FAST Act)
 - New focus on performance-based management (condition of infrastructure, and congestion on the National Highway System)
3. Changing demographics and preferences
4. Climate change and the effects of weather events
5. Changes in technology

Existing Conditions & Future Trends

VERMONT'S TRANSPORTATION SYSTEM



ROADWAYS

14,171	Total Miles of Local and State Roadway
3,103	Miles of National and State Highway Managed by VTrans
2,723	Inventoried Local & State Long Bridges (Over 20 foot span)
1,265	Short Structures (6-20 foot span)
50,000	Small Culverts (12-72 inch diameter)
156	Traffic Signals



RAIL

578	Miles Active Rail Lines (305 State-owned)
145	Miles State-Owned Rail-Banked Trails



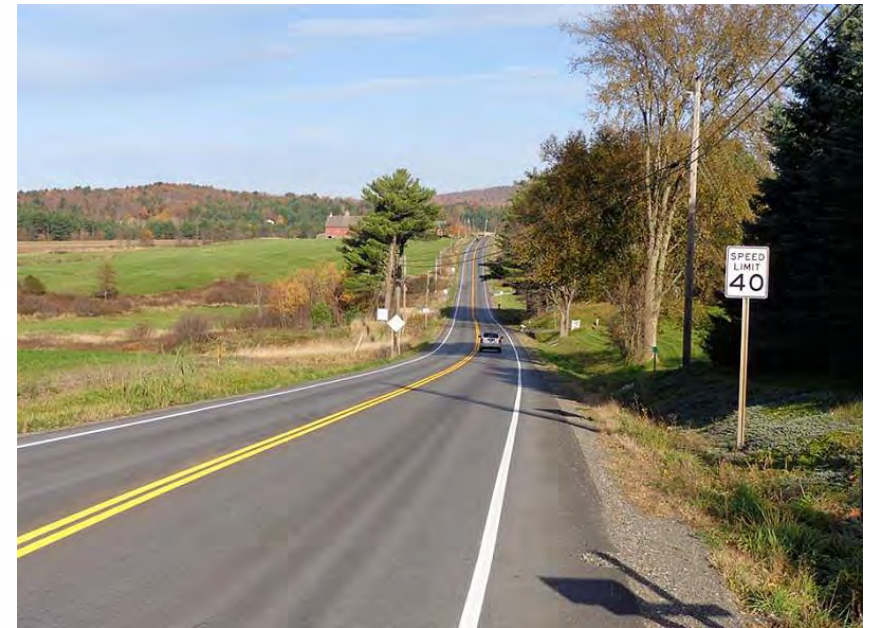
AVIATION

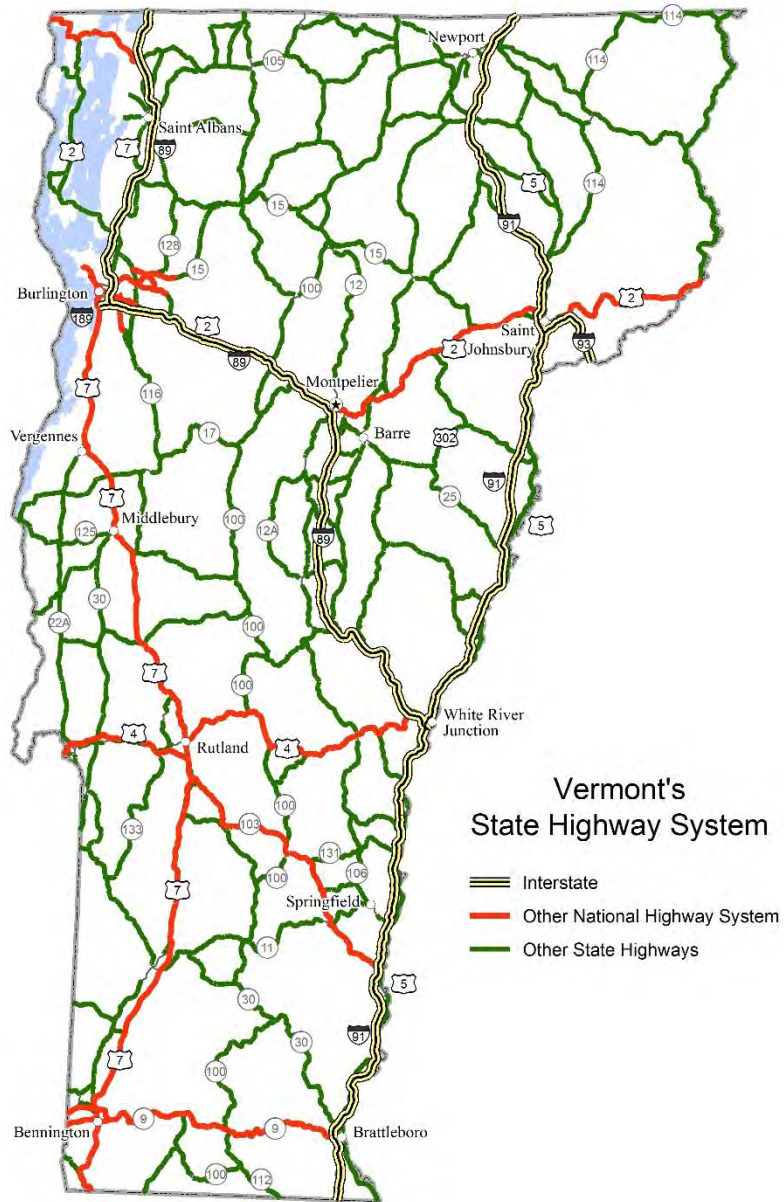
16	Public-Use Airports (10 State-owned)
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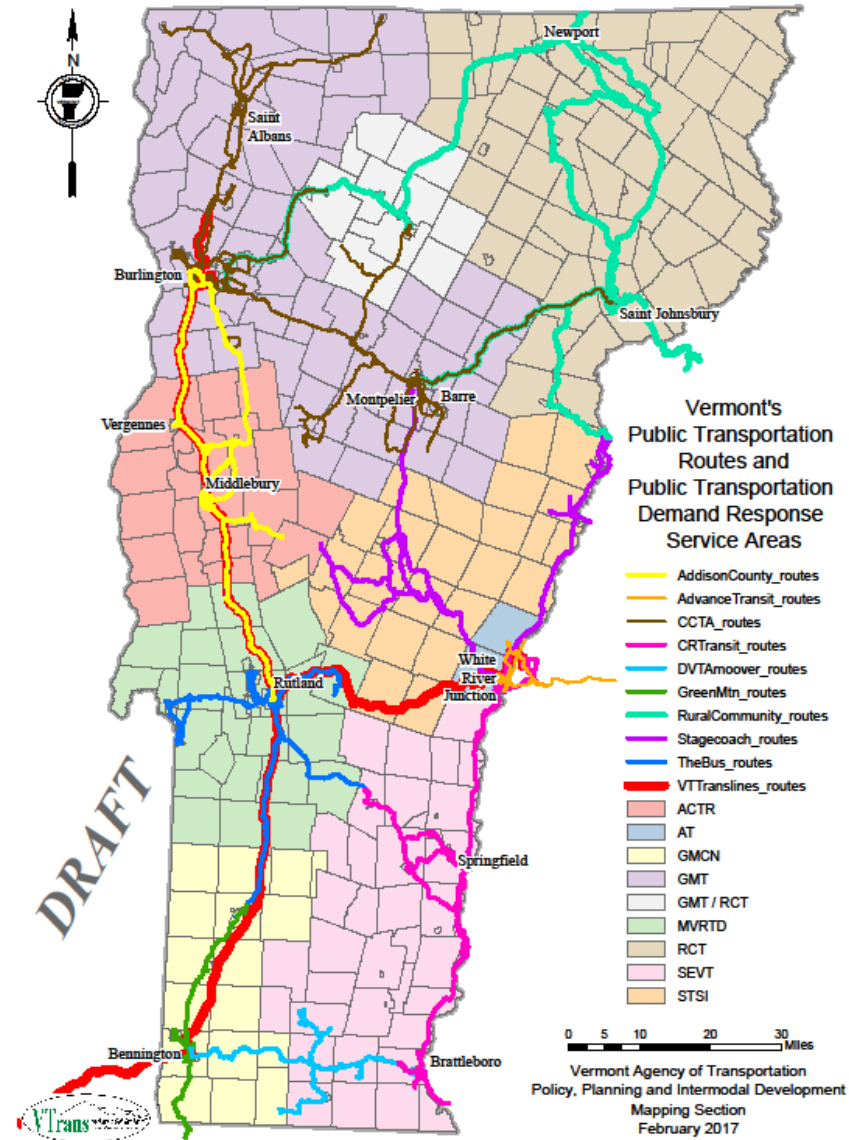
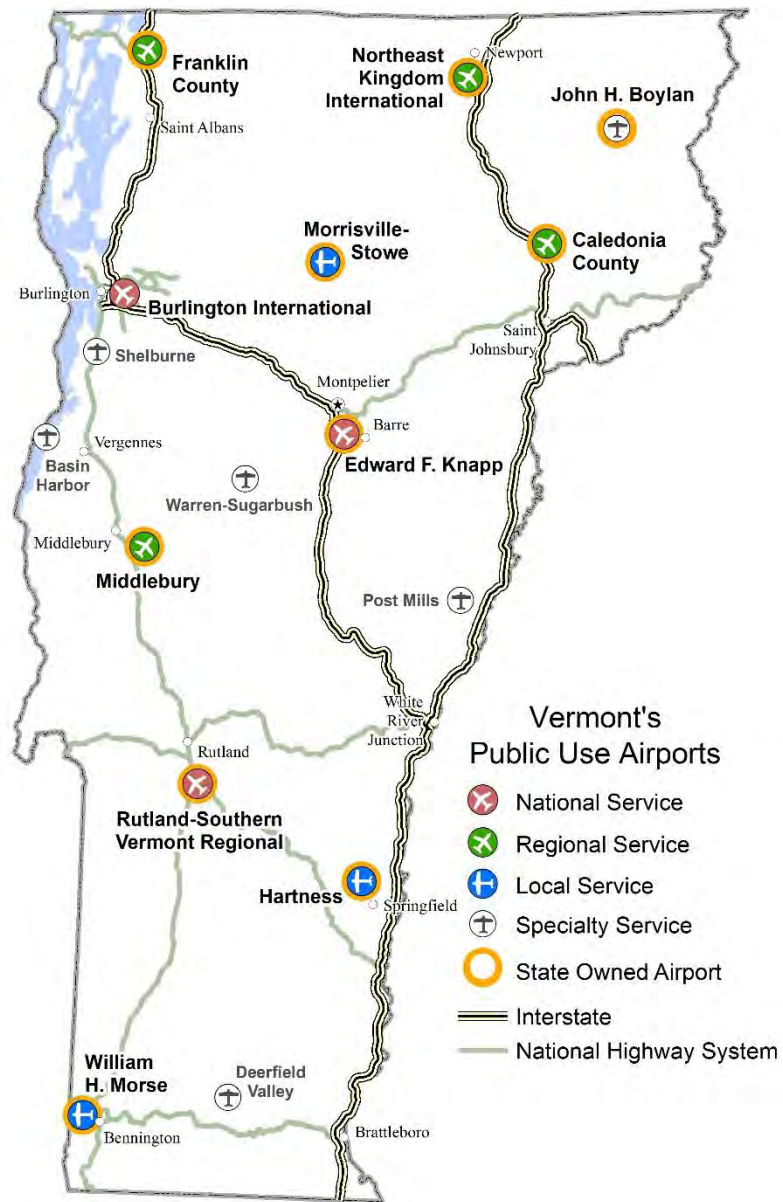


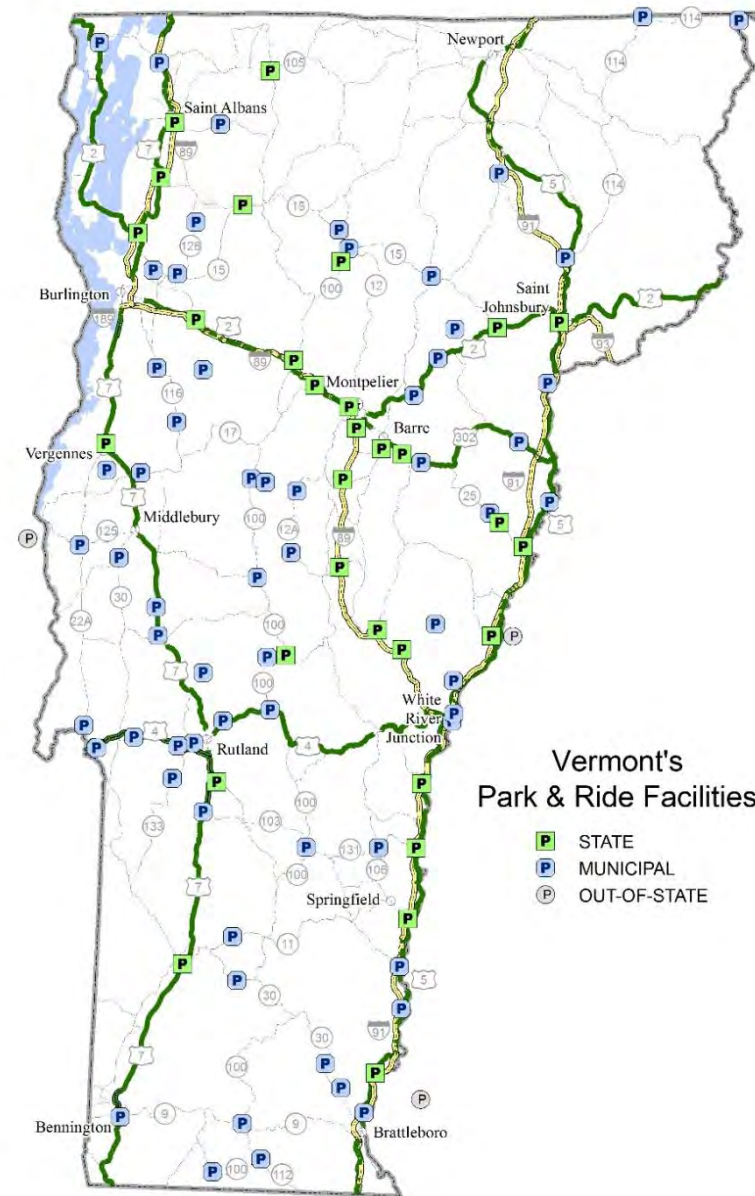
PUBLIC TRANSIT

7	Regional Public Transit Providers (4.7 million rides in 2016)
30	State-Owned/Maintained Park-and-Rides with 1,525 Spaces









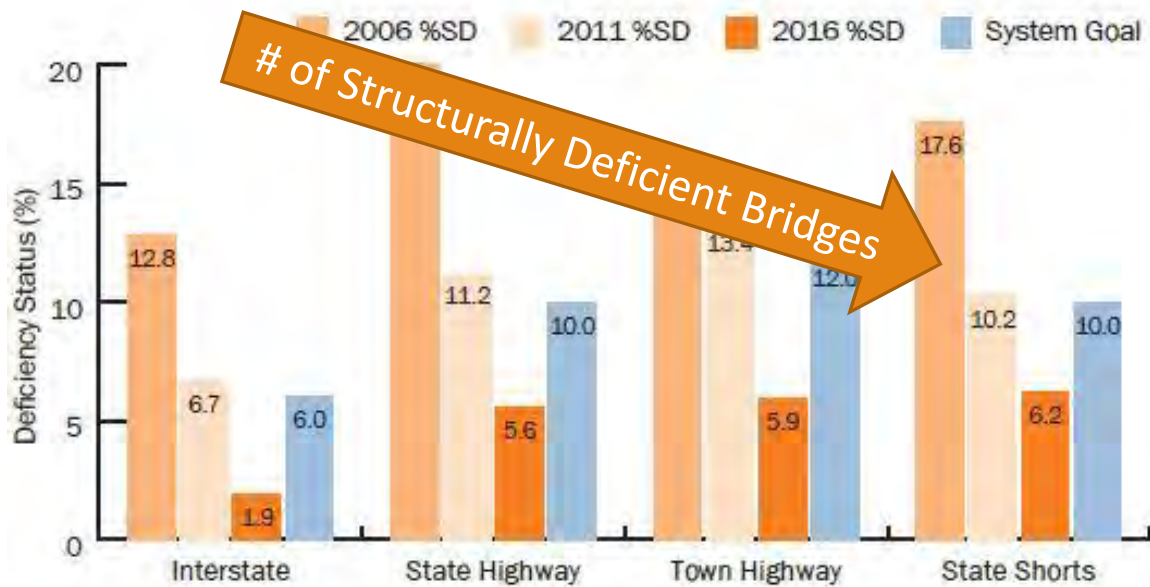
How have these services benefited your community?

Infrastructure Conditions

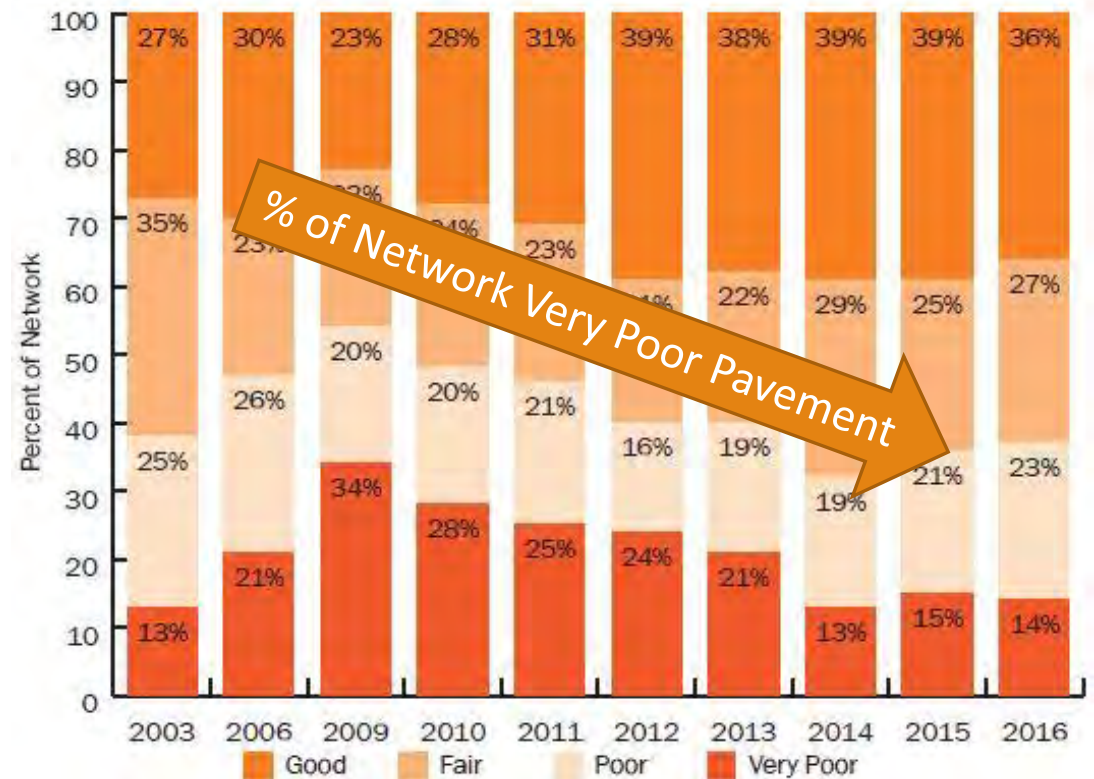
Bridge & pavement conditions have improved considerably. Should we keep going or is it time to think of other priorities?

Structural Deficiency Over Time by System

* 2006, 2011 and 2016 represent year data submitted to FHWA



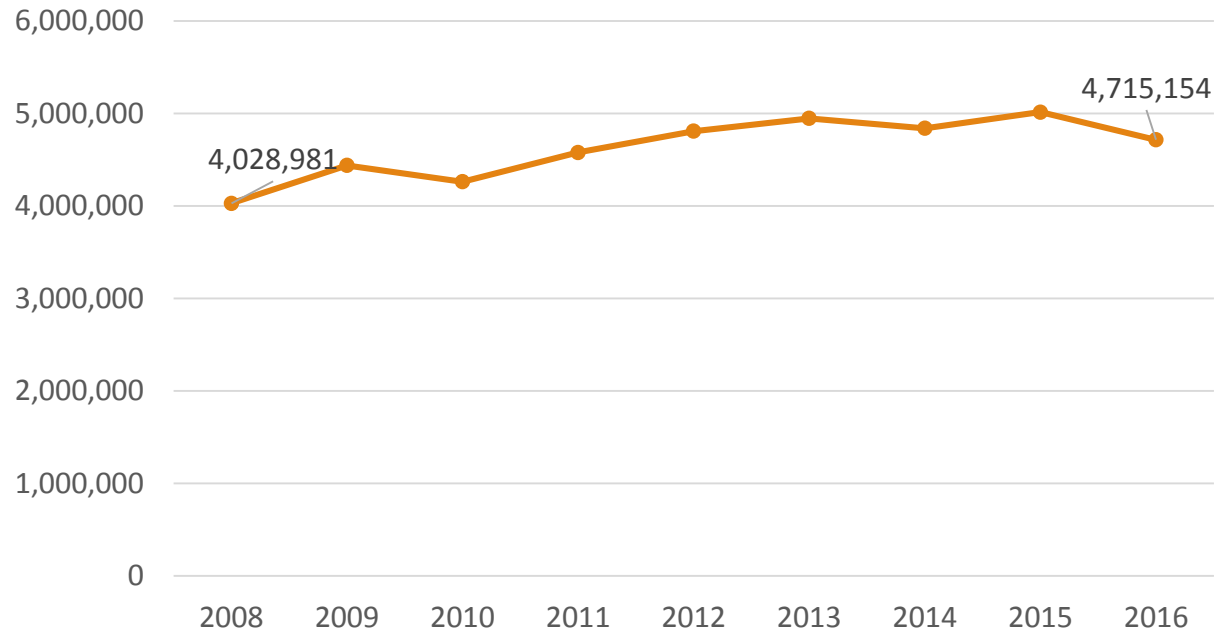
Conditions Over Time, Unweighted



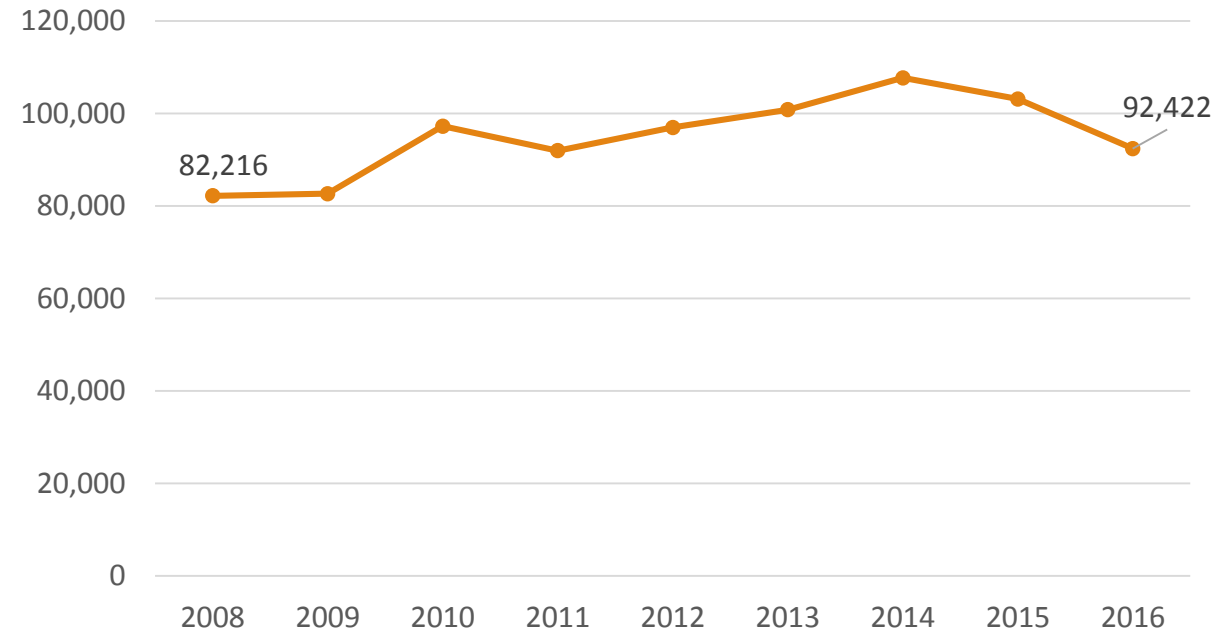
How have these services
benefited your community?

Public Transit and Passenger Rail

Transit Ridership in Vermont



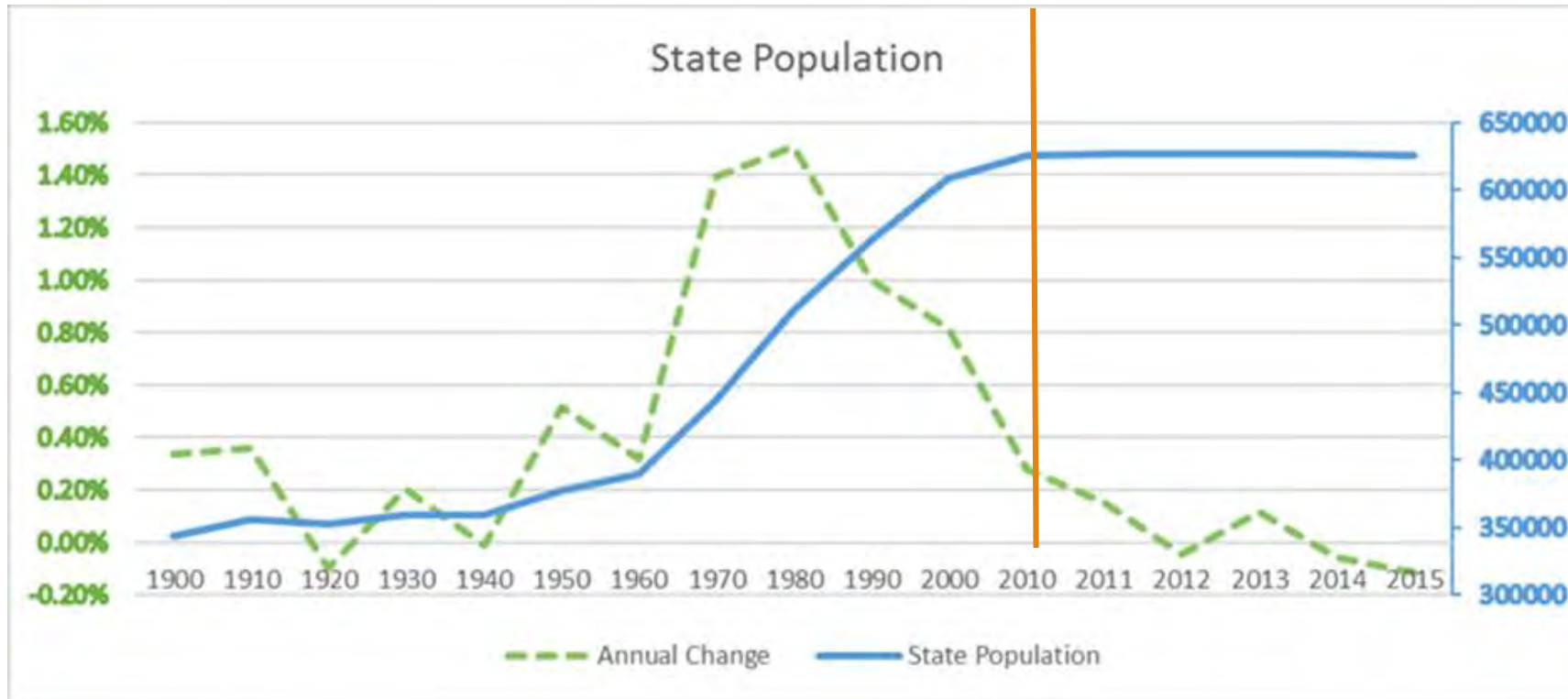
Rail Ridership at Vermont Stations



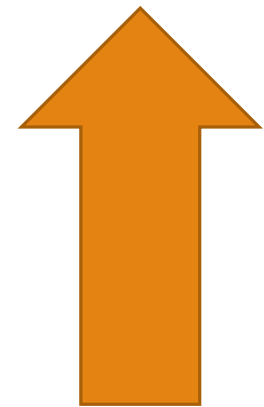
Issues to consider...

Population Change

If current trends continue, population will grow modestly through 2040.



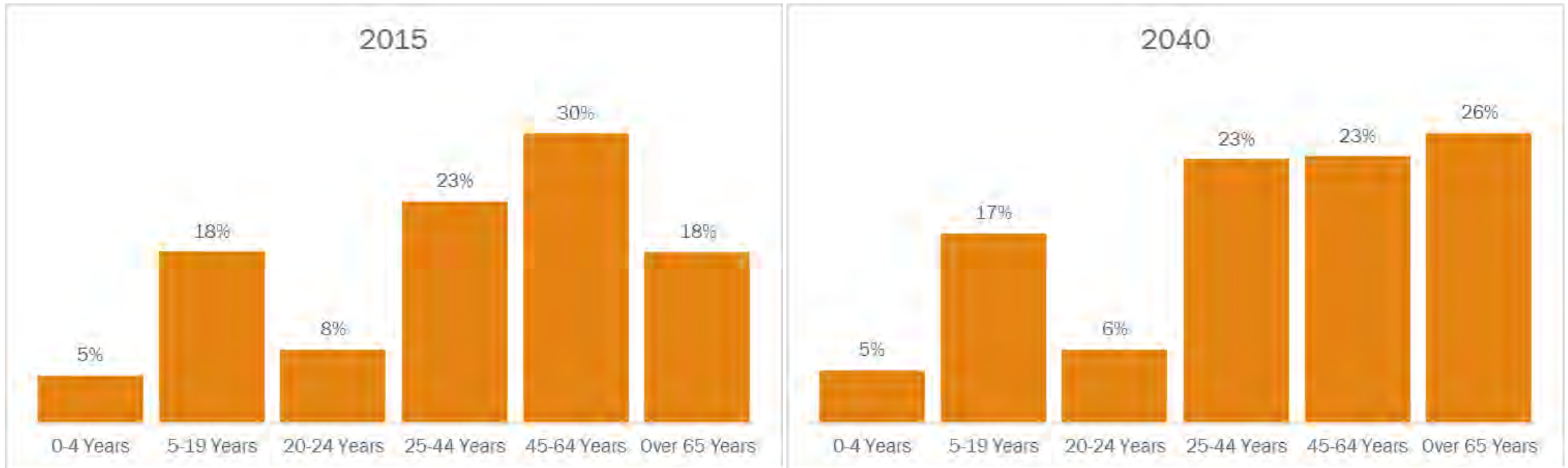
2040 = 653,458



Source: Demographic & Economic Trends & Forecasts Report, RSG & EPR, 2016

Population Change

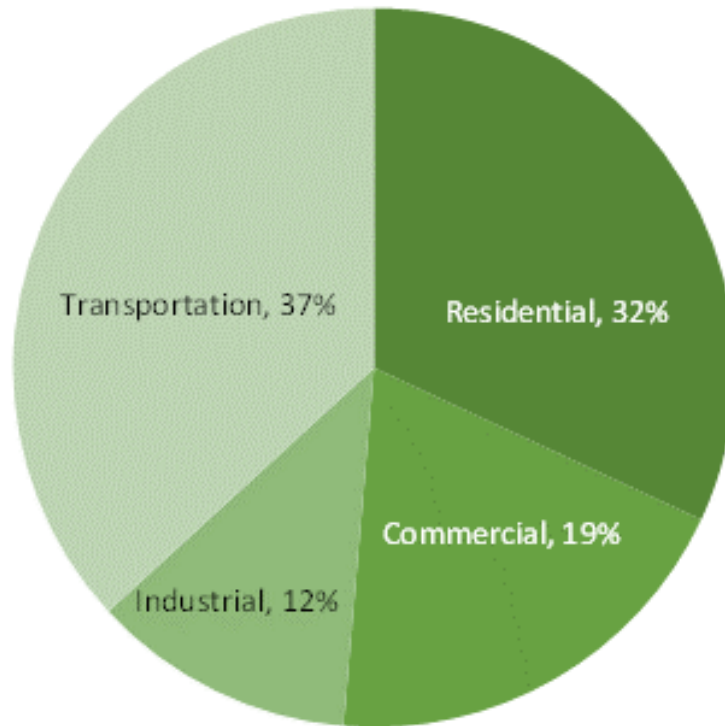
Vermont's population will continue to age. What does this mean for transportation?



Source: Demographic & Economic Trends & Forecasts Report, RSG & EPR, 2016

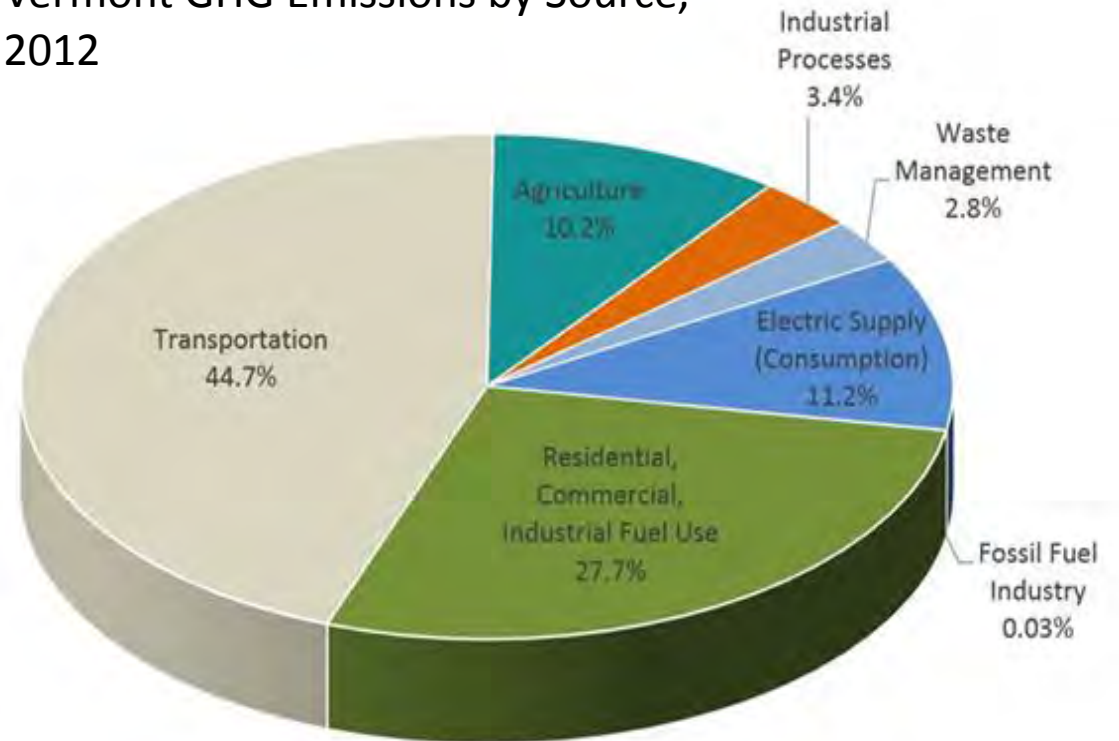
Energy & Climate Change

Vermont Energy Consumption by Sector, 2013



Source: 2016 VT Comprehensive Energy Plan/U.S. EIA, 2015

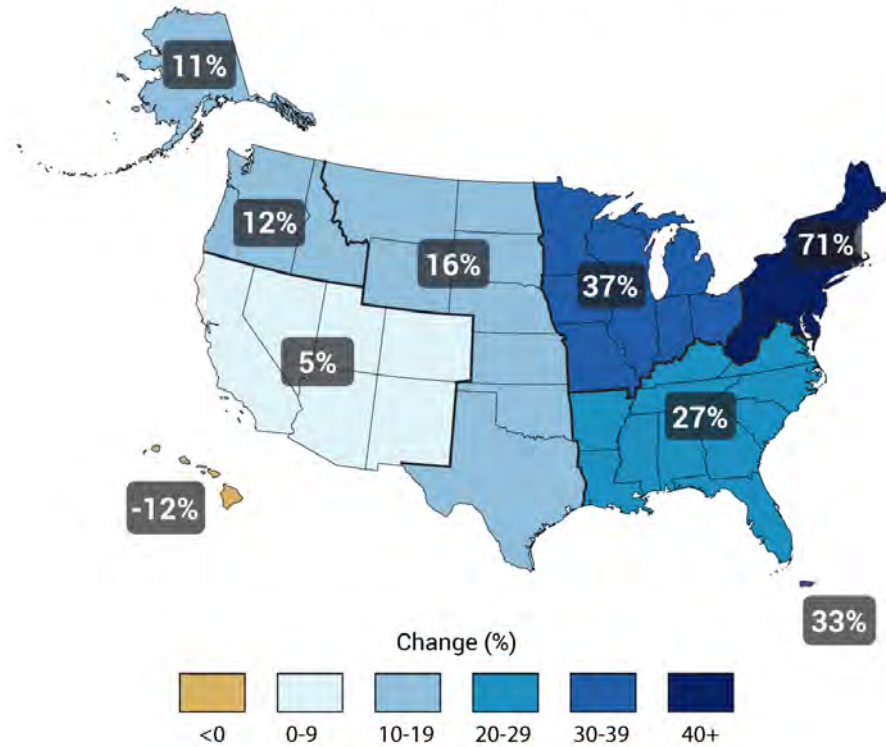
Vermont GHG Emissions by Source, 2012



Source: 2016 VT CEP/ANR

Climate Change & System Resilience

Observed Change in Very Heavy Precipitation 1958-2012



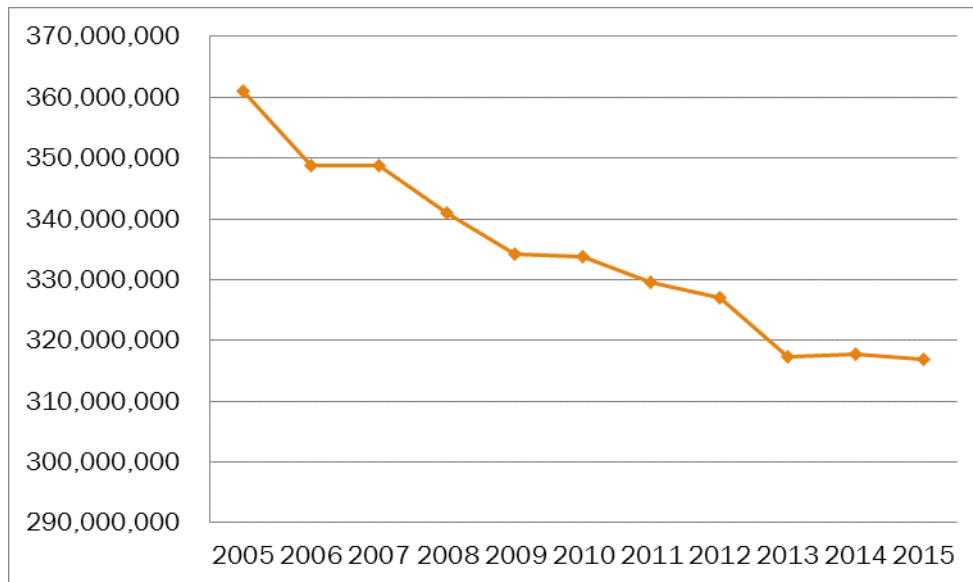
Source: <http://nca2014.globalchange.gov/>



Fuel Consumption Change

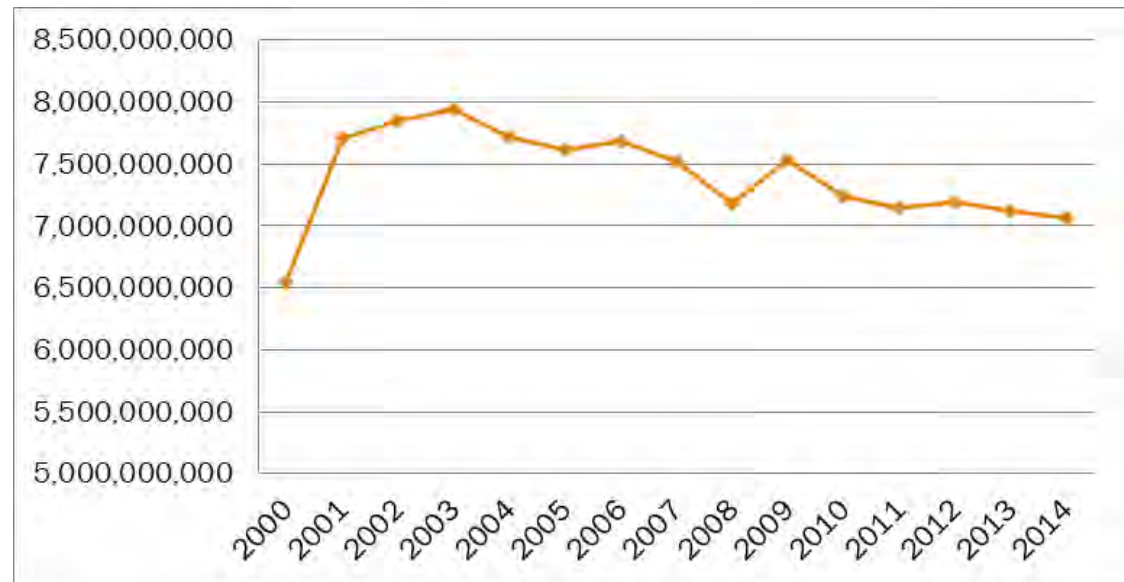
Improved fuel efficiency and electric vehicles will place pressure on gasoline consumption, and revenue.

Vermont Gasoline Consumption by State Fiscal Year (Gallons), 2005-2015



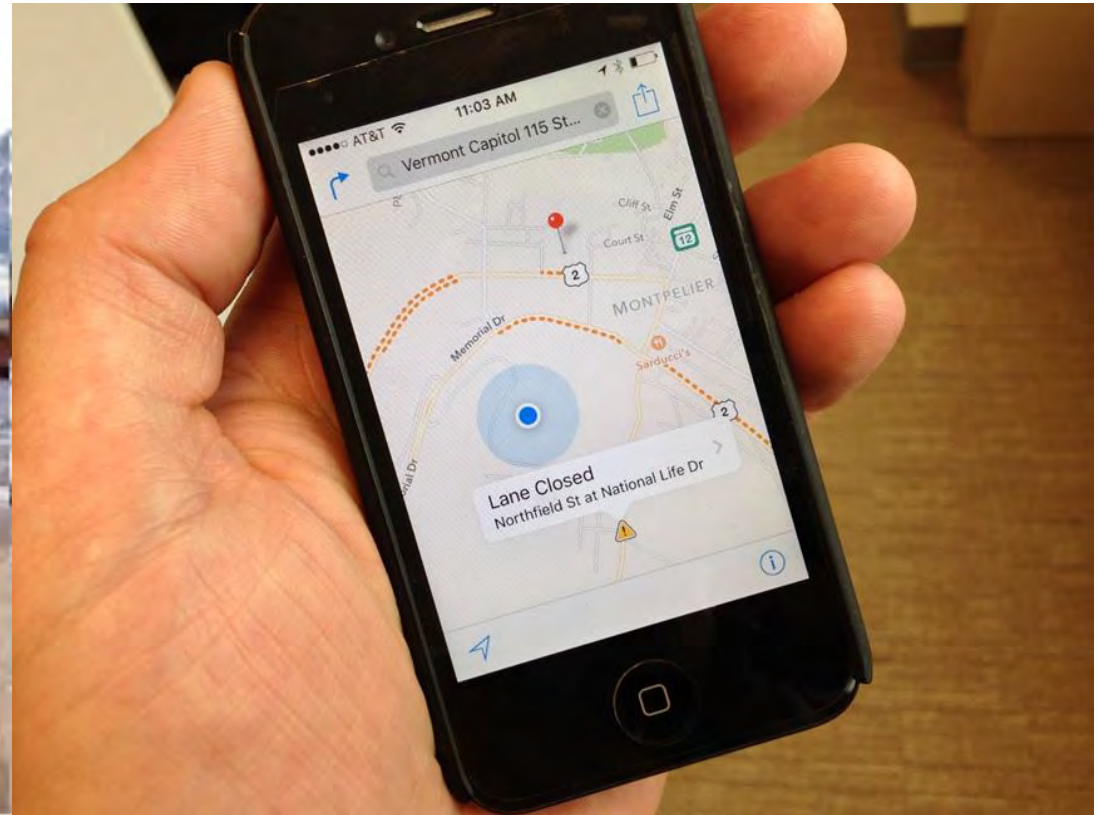
Source: Vermont Joint Fiscal Office – Gasoline & Diesel Revenues Report

Vehicle Miles Traveled in Vermont, 2000-2014



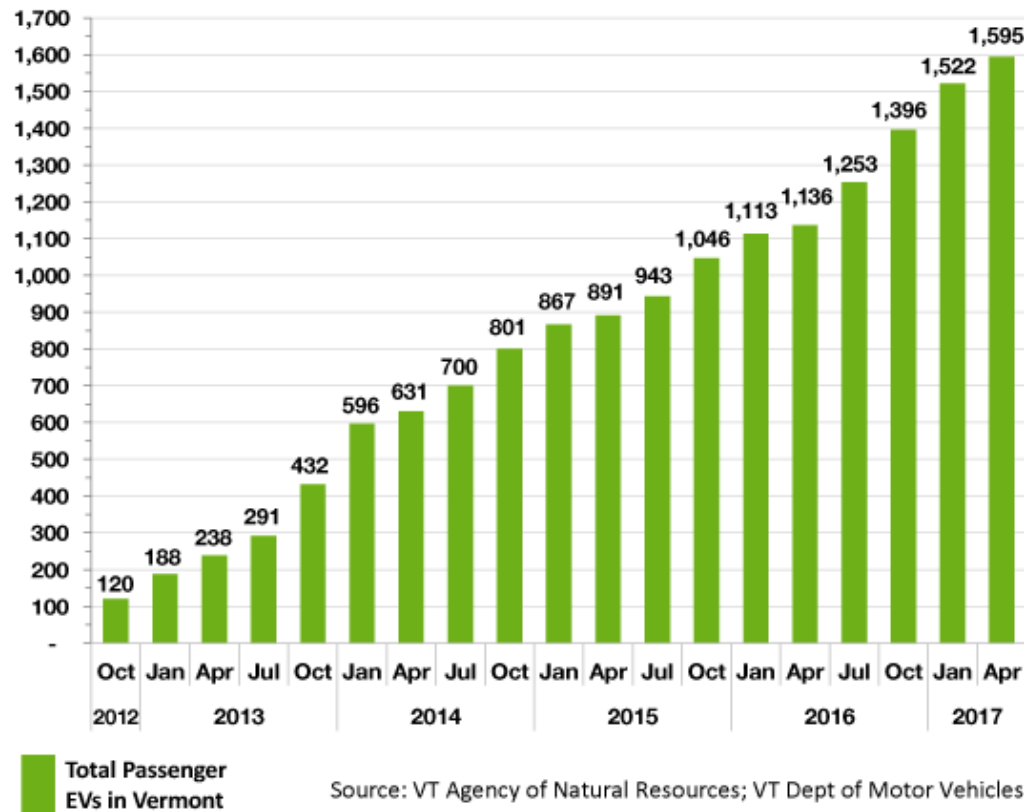
Source: VTrans Highway Research Section – Vehicle Miles Traveled, 2003-2014

Technological Change - Information



Technological Change - Electric Vehicles

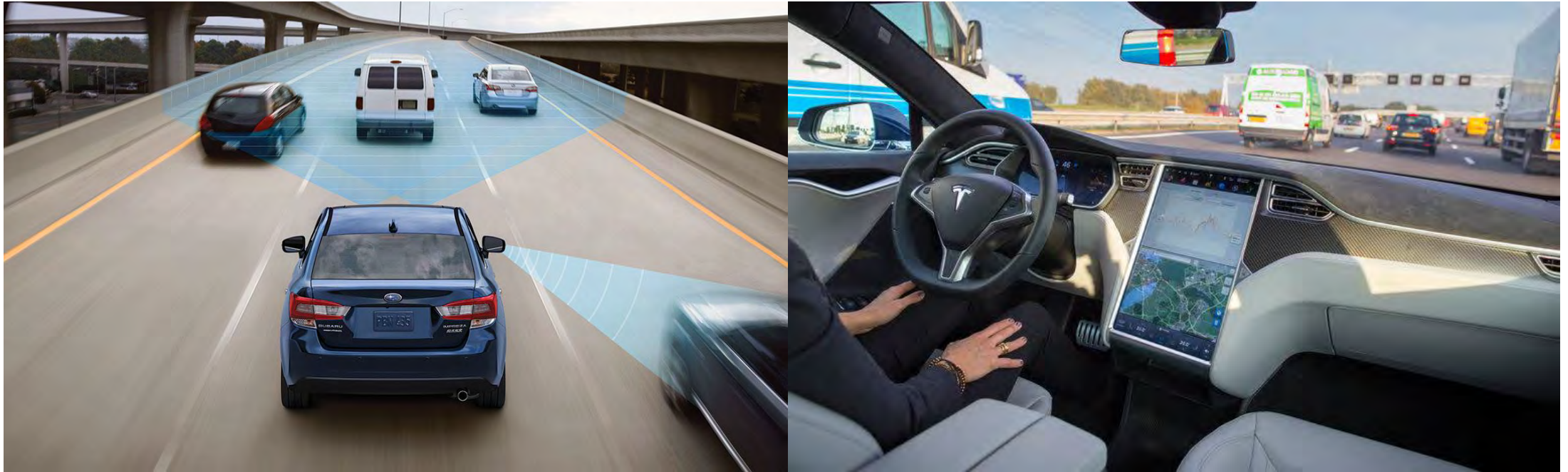
There are now almost 1,600 registered EVs and 160 public charging stations in Vermont



Source: driveelectricvermont.com



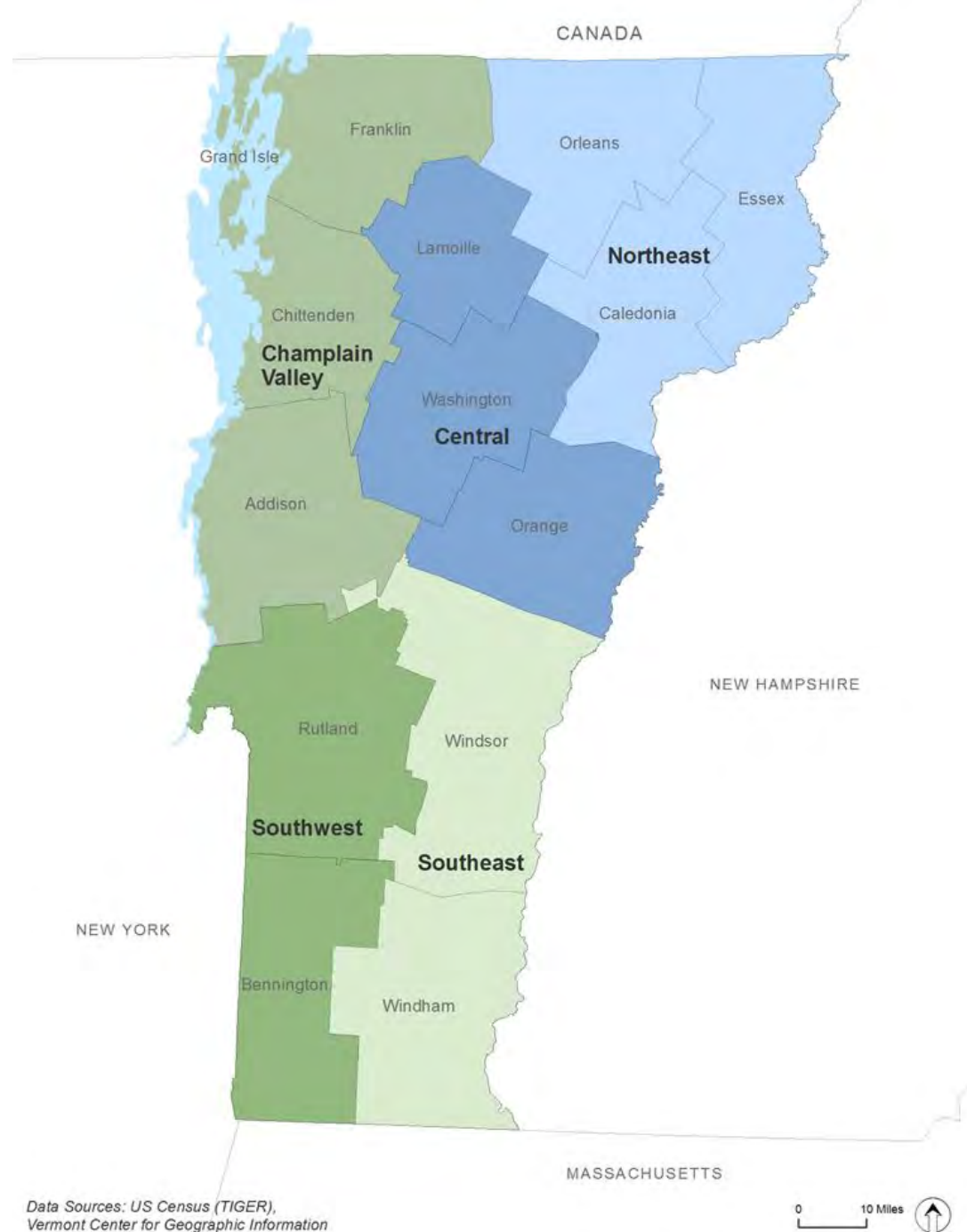
Technological Change – Vehicle Automation



Results of 2016 Statewide Transportation Public Opinion Survey

Survey Process

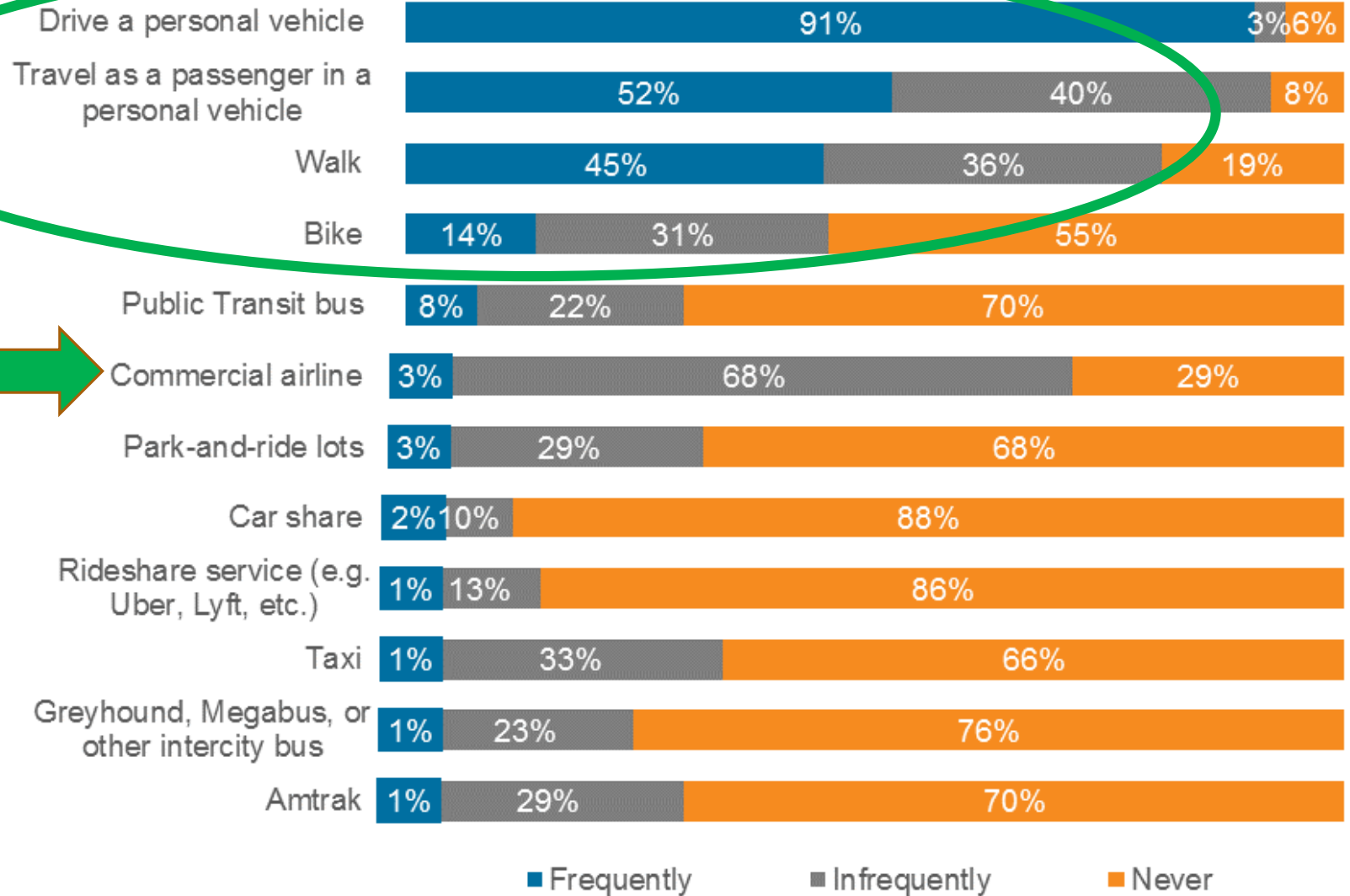
- Statewide survey; five regions
- Address-based random sample of 12,000
- Responses weighted by gender, age, income by region; regions by population
- 2,232 surveys completed (near 20% response)



2016 Statewide Transportation Public Opinion Survey

How often do you use the following transportation options or services?

- Frequent = multiple times per week or month
- Infrequent = multiple times per year or less

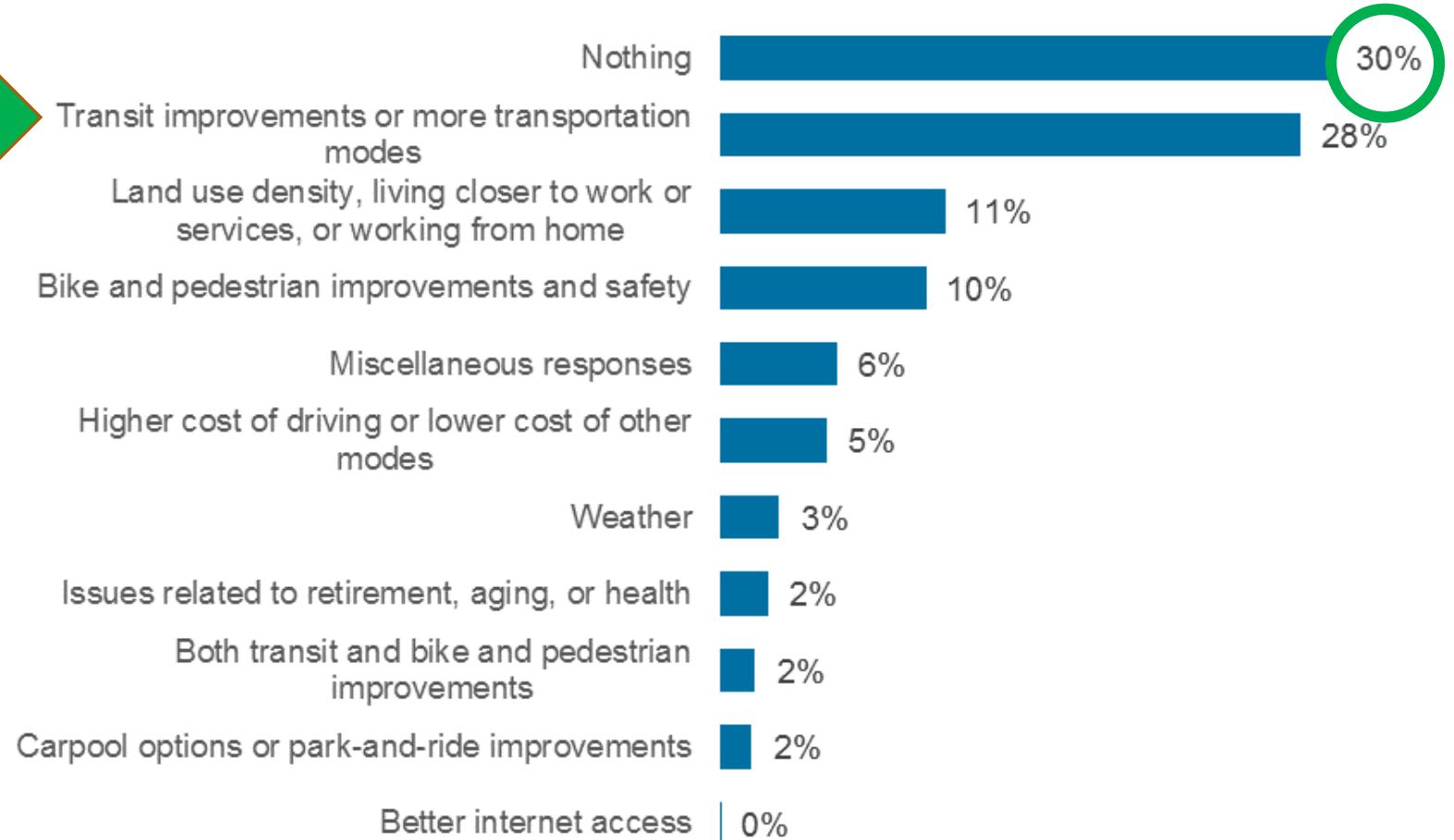


2016 Statewide Transportation Public Opinion Survey

What might encourage you to drive your car less in Vermont?

➤ “Nothing” 2006 = 37%

➤ “Nothing” 2000 = 67%



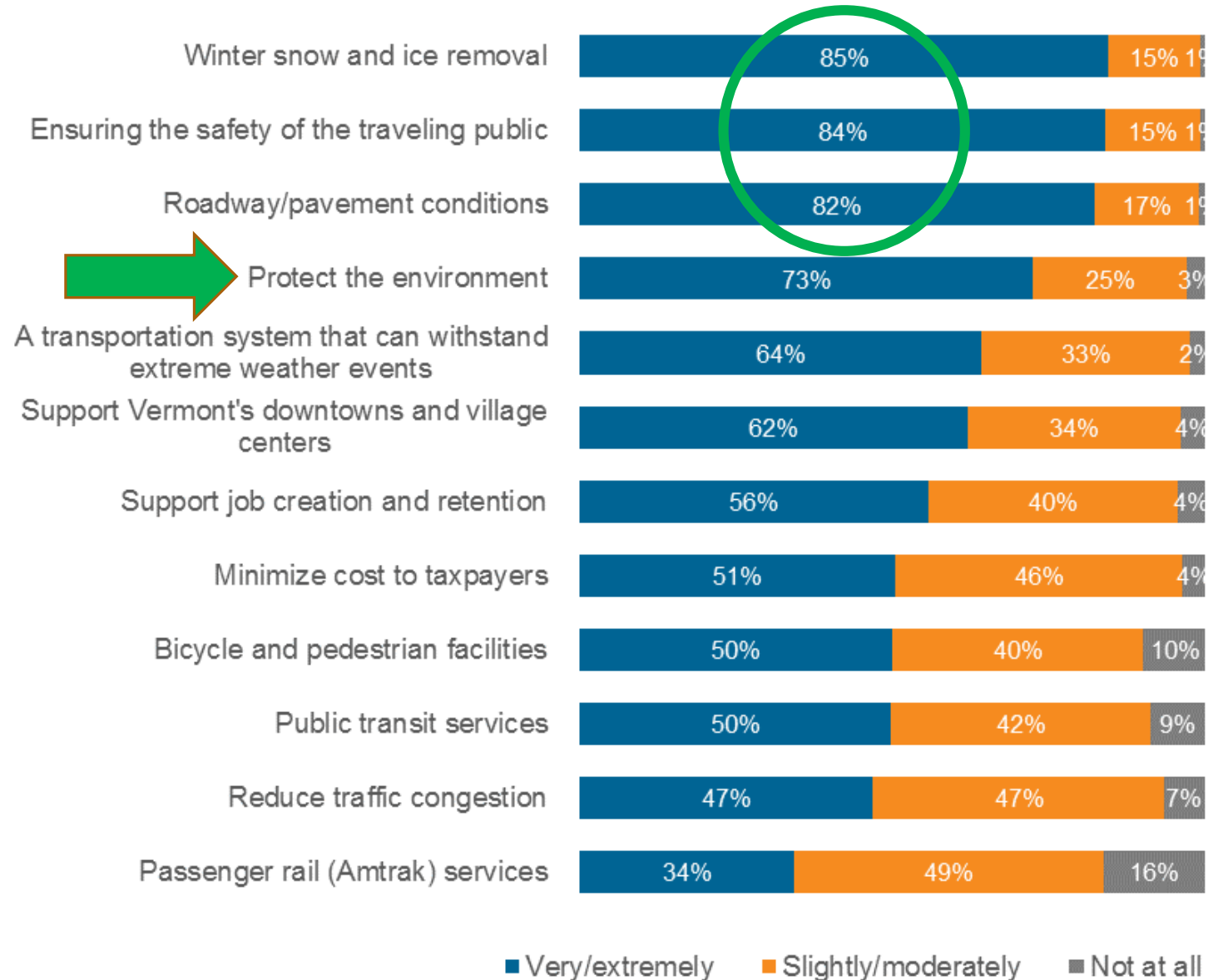
How important are the following services & issues to you?

➤ 2006 three top priorities same as 2000:

1. Safety
2. Environment
3. Preserve Landscapes and Village Character



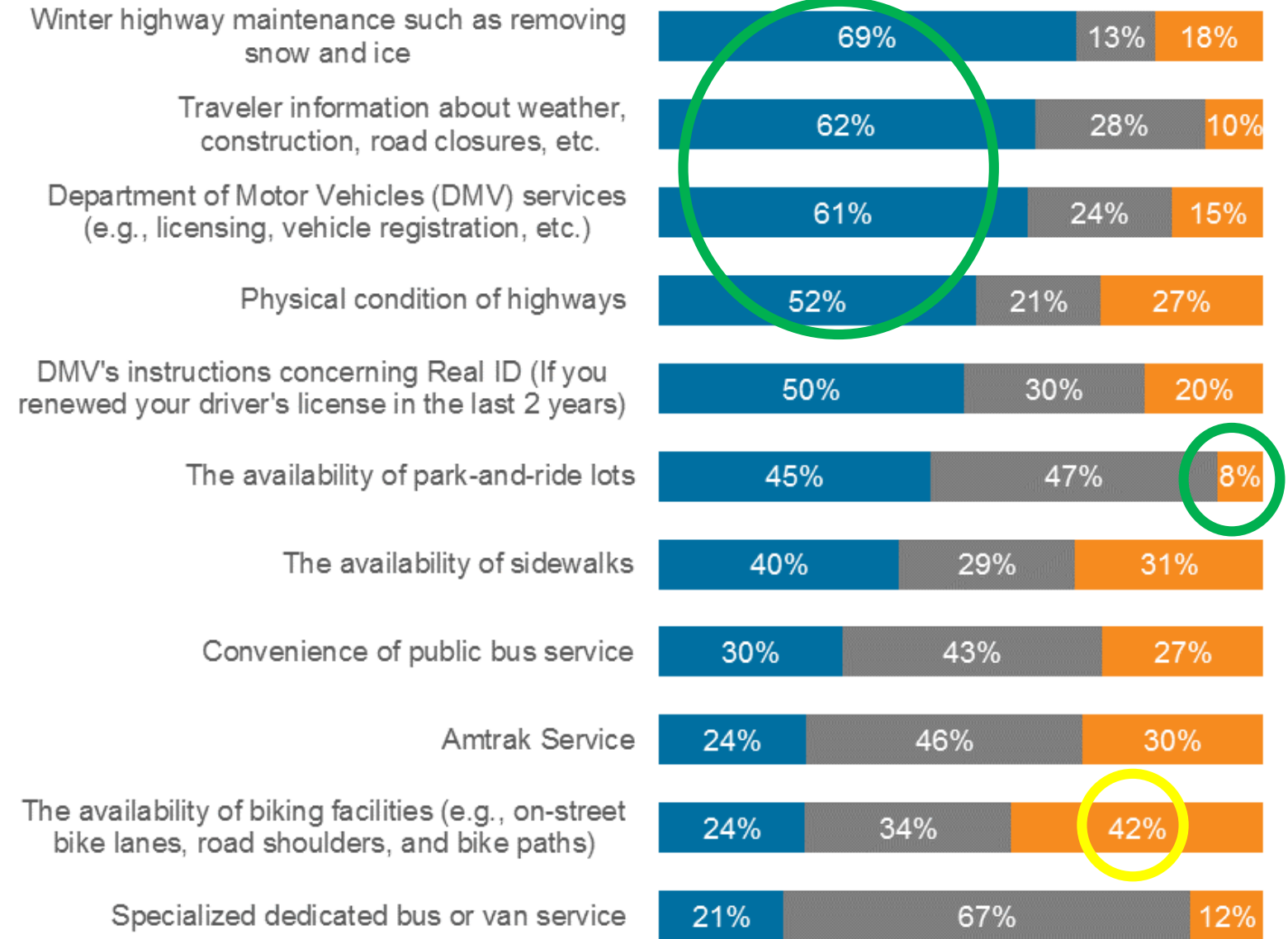
2016 Statewide Transportation Public Opinion Survey



How satisfied are you with the following transportation services or infrastructure in Vermont?



2016 Statewide Transportation Public Opinion Survey



■ Satisfied ■ Neither Satisfied nor Dissatisfied ■ Dissatisfied

Questions & Comments?

- 1) Are there any major topics or issues missing?
- 2) What resonates most or least for you?
- 3) General comments?

Thank you

Documents are posted at:

<http://vtrans.vermont.gov/planning/long-range-plan>

Please forward comments and questions to Dave Pelletier at:

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