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
LRTP 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

**Summer 2017**
- Stakeholders Mtg #1 and visit Transportation Advisory Committees (TACs) to review Draft Existing Conditions & Future Trends Report

**Fall 2017**
- Stakeholders Mtg #2 to review regional TAC input & develop Priorities and Policies

**December 2017**
- Publish Draft Priorities and Policies summary for comment

**Winter 2018**
- Stakeholders Mtg #3 and visit Transportation Advisory Committees (TACs) to review Draft Priorities and Policies summary

**Spring 2018**
- Publish draft LRTP for comment and adopt upon completion
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)

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?
Public Transit and Passenger Rail

Transit Ridership in Vermont

<table>
<thead>
<tr>
<th>Year</th>
<th>Ridership</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>4,028,981</td>
</tr>
<tr>
<td>2009</td>
<td></td>
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<tr>
<td>2010</td>
<td></td>
</tr>
<tr>
<td>2011</td>
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<tr>
<td>2012</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>4,715,154</td>
</tr>
<tr>
<td>2015</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td></td>
</tr>
</tbody>
</table>

Rail Ridership at Vermont Stations

<table>
<thead>
<tr>
<th>Year</th>
<th>Ridership</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>82,216</td>
</tr>
<tr>
<td>2009</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td></td>
</tr>
<tr>
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<td>2012</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>92,422</td>
</tr>
<tr>
<td>2015</td>
<td></td>
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<tr>
<td>2016</td>
<td></td>
</tr>
</tbody>
</table>

How have these services benefited your community?
Issues to consider...
Population Change

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

2040 = 653,458

Population Change

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

Energy & Climate Change

Vermont Energy Consumption by Sector, 2013

- Transportation: 37%
- Residential: 32%
- Commercial: 19%
- Industrial: 12%


Vermont GHG Emissions by Source, 2012

- Transportation: 44.7%
- Agriculture: 10.2%
- Electric Supply (Consumption): 11.2%
- Residential, Commercial, Industrial Fuel Use: 27.7%
- Industrial Processes: 3.4%
- Waste Management: 2.8%
- Fossil Fuel Industry: 0.03%

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

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

Vehicle Miles Traveled in Vermont, 2000-2014

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

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

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)
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

<table>
<thead>
<tr>
<th>Transportation Option</th>
<th>Frequently</th>
<th>Infrequently</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive a personal vehicle</td>
<td>91%</td>
<td>3%</td>
<td>8%</td>
</tr>
<tr>
<td>Travel as a passenger in a personal vehicle</td>
<td>52%</td>
<td>40%</td>
<td>8%</td>
</tr>
<tr>
<td>Walk</td>
<td>45%</td>
<td>36%</td>
<td>19%</td>
</tr>
<tr>
<td>Bike</td>
<td>14%</td>
<td>31%</td>
<td>55%</td>
</tr>
<tr>
<td>Public Transit bus</td>
<td>8%</td>
<td>22%</td>
<td>70%</td>
</tr>
<tr>
<td>Commercial airline</td>
<td>3%</td>
<td>68%</td>
<td>29%</td>
</tr>
<tr>
<td>Park-and-ride lots</td>
<td>3%</td>
<td>29%</td>
<td>68%</td>
</tr>
<tr>
<td>Car share</td>
<td>2%</td>
<td>10%</td>
<td>88%</td>
</tr>
<tr>
<td>Rideshare service (e.g. Uber, Lyft, etc.)</td>
<td>1%</td>
<td>13%</td>
<td>86%</td>
</tr>
<tr>
<td>Taxi</td>
<td>1%</td>
<td>33%</td>
<td>68%</td>
</tr>
<tr>
<td>Greyhound, Megabus, or other intercity bus</td>
<td>1%</td>
<td>23%</td>
<td>76%</td>
</tr>
<tr>
<td>Amtrak</td>
<td>1%</td>
<td>29%</td>
<td>70%</td>
</tr>
</tbody>
</table>
What might encourage you to drive your car less in Vermont?

- “Nothing” 2006 = 37%
- “Nothing” 2000 = 67%

Survey Results:

- Nothing: 30%
- Transit improvements or more transportation modes: 28%
- Land use density, living closer to work or services, or working from home: 11%
- Bike and pedestrian improvements and safety: 10%
- Miscellaneous responses: 6%
- Higher cost of driving or lower cost of other modes: 5%
- Weather: 3%
- Issues related to retirement, aging, or health: 2%
- Both transit and bike and pedestrian improvements: 2%
- Carpool options or park-and-ride improvements: 2%
- Better internet access: 0%
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

- Winter snow and ice removal: 85% Very/extremely, 15% Slightly/Moderately
- Ensuring the safety of the traveling public: 84% Very/extremely, 15% Slightly/Moderately
- Roadway/pavement conditions: 82% Very/extremely, 17% Slightly/Moderately
- Protect the environment: 73% Very/extremely, 25% Slightly/Moderately
- A transportation system that can withstand extreme weather events: 64% Very/extremely, 33% Slightly/Moderately
- Support Vermont’s downtowns and village centers: 82% Very/extremely, 34% Slightly/Moderately
- Support job creation and retention: 56% Very/extremely, 40% Slightly/Moderately
- Minimize cost to taxpayers: 51% Very/extremely, 46% Slightly/Moderately
- Bicycle and pedestrian facilities: 50% Very/extremely, 40% Slightly/Moderately
- Public transit services: 50% Very/extremely, 42% Slightly/Moderately
- Reduce traffic congestion: 47% Very/extremely, 47% Slightly/Moderately
- Passenger rail (Amtrak) services: 34% Very/extremely, 49% Slightly/Moderately

*Very/extremely, Slightly/Moderately, Not at all*
How satisfied are you with the following transportation services or infrastructure in Vermont?

<table>
<thead>
<tr>
<th>Service</th>
<th>Satisfied</th>
<th>Neither Satisfied nor Dissatisfied</th>
<th>Dissatisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter highway maintenance such as removing snow and ice</td>
<td>69%</td>
<td>13%</td>
<td>18%</td>
</tr>
<tr>
<td>Traveler information about weather, construction, road closures, etc.</td>
<td>62%</td>
<td>28%</td>
<td>10%</td>
</tr>
<tr>
<td>Department of Motor Vehicles (DMV) services (e.g., licensing, vehicle registration, etc.)</td>
<td>61%</td>
<td>24%</td>
<td>15%</td>
</tr>
<tr>
<td>Physical condition of highways</td>
<td>52%</td>
<td>21%</td>
<td>27%</td>
</tr>
<tr>
<td>DMV’s instructions concerning Real ID (If you renewed your driver’s license in the last 2 years)</td>
<td>50%</td>
<td>30%</td>
<td>20%</td>
</tr>
<tr>
<td>The availability of park-and-ride lots</td>
<td>45%</td>
<td>47%</td>
<td>8%</td>
</tr>
<tr>
<td>The availability of sidewalks</td>
<td>40%</td>
<td>29%</td>
<td>31%</td>
</tr>
<tr>
<td>Convenience of public bus service</td>
<td>30%</td>
<td>43%</td>
<td>27%</td>
</tr>
<tr>
<td>Amtrak Service</td>
<td>24%</td>
<td>46%</td>
<td>30%</td>
</tr>
<tr>
<td>The availability of biking facilities (e.g., on-street bike lanes, road shoulders, and bike paths)</td>
<td>24%</td>
<td>34%</td>
<td>42%</td>
</tr>
<tr>
<td>Specialized dedicated bus or van service</td>
<td>21%</td>
<td>67%</td>
<td>12%</td>
</tr>
</tbody>
</table>
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:
dave.pelletier@vermont.gov