



Vermont Project Selection and Project Prioritization (VPSP2)

Year 2 – State and Town Highway Bridges

CCRPC TAC Presentation

April 5, 2022





Today's Tasks

- ▶ Review the Asset Driven Potential Project List for State Highway and Town Highway Bridges and provide comments, if there are any, on these lists.
- ▶ Identify locally or regionally important State or Town Highway Bridges for consideration as Regionally Driven Potential Projects. Projects will be scored using the VPSP2 Workbook and scores will be discussed at the May TAC meeting.

Note: Town Highway Bridge projects are managed by VTrans and required a local match of 5-10%. For selected projects implementation should be expected in 1-7 years.





Vision

- ▶ Develop a performance-based, data driven project selection & prioritization framework that maximizes the “**transportation value**” delivered to Vermont taxpayers.
- ▶ Transportation Value determined using a Workbook that scores projects on Eight Criteria –
 - Safety
 - Asset Condition
 - Mobility/Connectivity
 - Economic Access
 - Regional
 - Health Access
 - Environment
 - Resiliency



VPSP2 Year 2 -- State Highway and Town Highway Bridges

Committed Projects in the Current Transportation Capital Program

TOWN NAME	ROUTE NAME	BRIDGE NO.	FEATURE(S) INTERSECTED	BRIDGE TYPE	DECK RATING	SUPERSTRUCTURE RATING	SUBSTRUCTURE RATING	BYPASS, DETOUR LENGTH	AVERAGE DAILY TRAFFIC
HUNTINGTON	Camels Hump Road	00032	BRUSH BROOK	ROLLED BM W TMBR DK	Satisfactory	Serious Condition	Fair	No Detour	000100
JERICO	Brown's Trace	00015	MILL BROOK	CONCRETE T-BEAM	Satisfactory	Fair	Fair	13	001300

Asset Driven Potential Projects -- State Highway Bridges

TOWN NAME	ROUTE NAME	BRIDGE NO.	FEATURE(S) INTERSECTED	BRIDGE TYPE	DECK RATING	SUPERSTRUCTURE RATING	SUBSTRUCTURE RATING	BYPASS, DETOUR LENGTH	AVERAGE DAILY TRAFFIC
Underhill	VT-15	11	ROARING BROOK	ROLLED BM	Fair	Satisfactory	Satisfactory	3	8100
S. Burlington	VT-116	31	I-89	4 SPAN ROLLED BEAM	Satisfactory	Good	Good	0	5900
Hinesburg	VT-116	21	HOLLOW BROOK	CONCRETE T-BEAM	Satisfactory	Fair	Satisfactory	25	3700

Asset Driven Potential Projects -- Town Highway Bridges *(sorted by average of condition ratings)*

TOWN NAME	ROUTE NAME	BRIDGE NO.	FEATURE(S) INTERSECTED	BRIDGE TYPE	DECK RATING	SUPERSTRUCTURE RATING	SUBSTRUCTURE RATING	BYPASS, DETOUR LENGTH	AVERAGE DAILY TRAFFIC
CHARLOTTE	Dorset Street	00031	LAPLATTE RIVER	ROLLED BM/FLR BEAM	Satisfactory	Satisfactory	Fair	05	000200
JERICO	Macomer Place	00038	LEE RIVER	2 RIVETED BOX GIRDER	Satisfactory	Satisfactory	Fair	No Detour	000010
HUNTINGTON	Main Road	00010	HUNTINGTON RIVER	CONCRETE T-BEAM	Fair	Satisfactory	Good	23	000420
UNDERHILL	Pleasant Valley Road	00007	SEYMOUR RIVER	CONCRETE T-BEAM	Good	Satisfactory	Fair	20	001000
BURLINGTON	US7	00150	WINOOSKI RIVER	3 SP CONT RIV GIRDER	Satisfactory	Satisfactory	Satisfactory	02	031300
CHARLOTTE	Lake Road	00027	HOLMES CREEK	TIED ARCH COV BR	Satisfactory	Satisfactory	Satisfactory	06	000550
WESTFORD	Cambridge Road	00022	BROWNS RIVER	ROLLED BEAM	Satisfactory	Good	Good	07	000940

Chittenden County Bridges With At Least One Rating of Fair (sorted by average of condition ratings)

TOWN NAME	ROUTE NAME	BRIDGE NO.	FEATURE(S) INTERSECTED	BRIDGE TYPE	DECK RATING	SUPERSTRUCTURE RATING	SUBSTRUCTURE RATING	BYPASS, DETOUR LENGTH	AVERAGE DAILY TRAFFIC
SHELBURNE	Bay Road	00007	LAPLATTE RIVER	ROLLED BEAM	Fair	Satisfactory	Fair	05	003000
HUNTINGTON	Main Road	0009H	TEXAS HILL BROOK	ROLLED BEAM	Fair	Satisfactory	Good	15	002100
BOLTON	Joiner Brook Lane	00015	JOINER BROOK	CONCRETE T-BEAM	Fair	Satisfactory	Good	No Detour	000020
RICHMOND	Main Road	0009R	HUNTINGTON RIVER	2 SP CONT ROLLED BM	Good	Good	Fair	15	002400
BOLTON	Cemetery Road	00007	MILL BROOK	ROLLED BM W TMBR DK	Good	Fair	Good	No Detour	000010
COLCHESTER	Colchester Pond Road	00014	COLCHESTER POND BRK.	ROLLED BEAM	Good	Good	Fair	No Detour	000075
HINESBURG	Leavensworth Road	00026	LAPLATTE RIVER	ROLLED BM W TMBR DK	Satisfactory	Fair	Very Good	No Detour	000010
HINESBURG	Charlotte Road	00006	LAPLATTE RIVER	CGMPA	Culvert -- rating = Fair			11	001800

Town Recommended Potential Projects

TOWN NAME	ROUTE NAME	BRIDGE NO.	FEATURE(S) INTERSECTED	BRIDGE TYPE	DECK RATING	SUPERSTRUCTURE RATING	SUBSTRUCTURE RATING	BYPASS, DETOUR LENGTH	AVERAGE DAILY TRAFFIC
WILLISTON	INDUSTRIAL AVENUE	00017	ALLEN BROOK	ROLLED BEAM	Satisfactory	Satisfactory	Satisfactory	00	011900
BURLINGTON	QUEEN CITY PARK ROAD	00002	VERMONT RAILWAY	ROLLED BEAM	Satisfactory	Satisfactory	Good	No Detour	001900



Questions?
Discussion



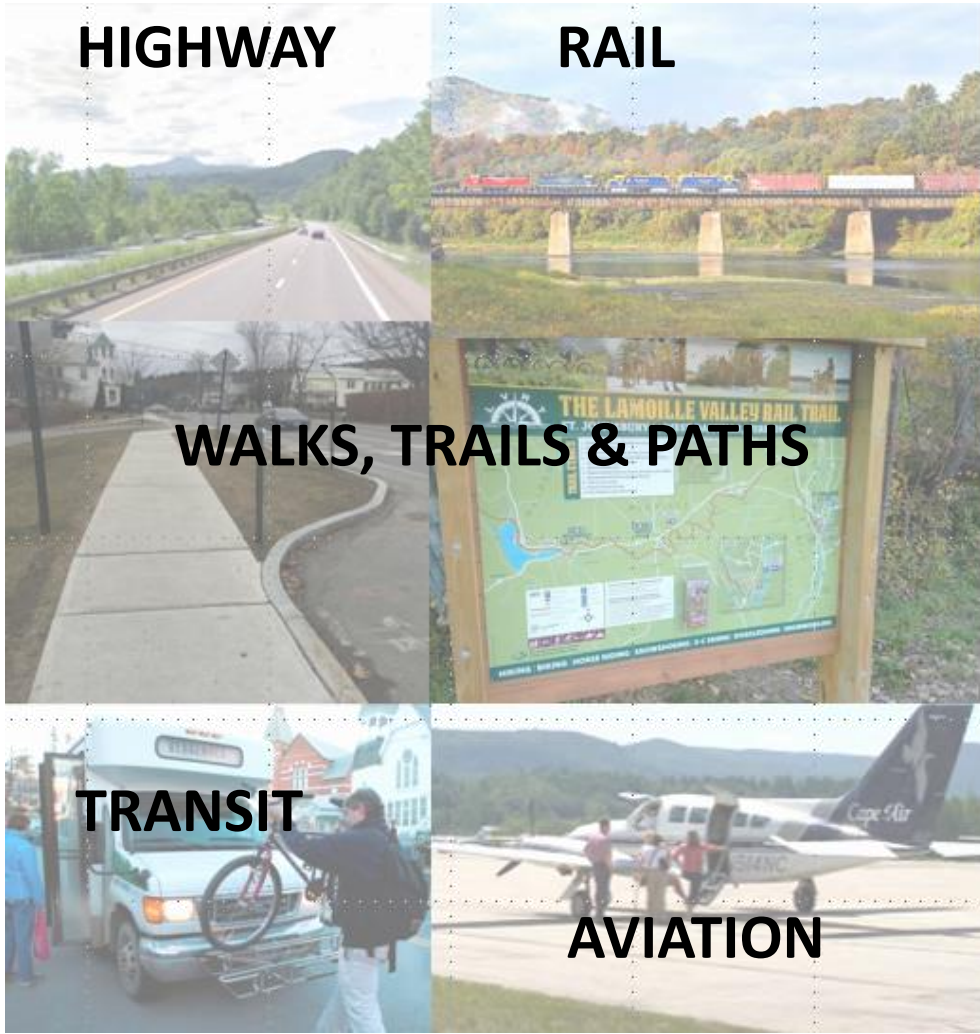


How is Transportation Value Determined?

- VTrans worked with Stakeholders to identify Eight Criteria for evaluating projects
- A **Workbook** was developed to score projects on the eight criteria
- The number of points for each criteria was determined by stakeholder input



FIVE MODES



EIGHT CRITERIA

SAFETY
Max points = 20

**MOBILITY /
CONNECTIVITY**
Max points = 15

**ECONOMIC
ACCESS**
Max points = 10

RESILIENCY
Max points = 10

**ASSET
CONDITION**
Max points = 20

REGIONAL
Max points = 10

ENVIRONMENT
Max points = 10

HEALTH ACCESS
Max points = 5



How to get Projects on the Capital Program

- **Asset Driven**
- **Safety Driven**
- ***Regionally Driven -- new***





VPSP2 Year 2 – Interstate, State, Town Highway Bridges

Step 1: VTrans Develop Budget Targets – September 1 – October 30

Step 2: VTrans Identify Asset Driven Potential Projects – November 1 – February 28

Step 3: VTrans Provide Asset Driven Projects to RPCs – Week of March 1

Step 4: RPC Scoring for Asset Driven Projects – March 1 – May 31

Step 5: RPCs Identify Regionally Driven Potential Projects – March 1 – May 31

Step 6: RPC to Send Asset and Regional Scores to VTrans – June 1

Step 7: VTrans Create Statewide Potential Project List - July 1 – July 31

Step 8: RPC Review Statewide Potential Project List - August 1 – September 30

Step 9: VTrans to finalize list - October 1 – November 30





Next Steps

April TAC Meeting

- Review Asset Driven Project List
- Identify Regionally Driven Potential Projects

May TAC Meeting

- Review Scores of Asset Driven and Regionally Driven projects
- Make recommendations to Board

June 1

- Submit Asset Driven project scores and Regionally Driven project list and scores to VTrans





VPSP2 Workbook – Safety – 20 points

- Number of Intersections
- Project length
- AADT
- Existing Shoulder Width
- Proposed Shoulder Width
- Crash Modification Factors *(increase shoulder width, rumble strips, medians, signal/intersection upgrades, lighting upgrades)*





VPSP2 Workbook – Asset Condition – 20 points

- **Customer Service Level** - (*CSL 1 - NHS – Interstate, CSL 2 - NHS - Non-Interstate, CSL 3 - Regional Corridors, CSL 4 - Local Connectors, CSL 5 - Class 1 Town Highways, CSL 6 - Class 2 and 3 Town Highways*)
- **Right Treatment at the Right Time**





VPSP2 Workbook – Mobility – 7 points

- Level of Service Before
- Level of Service After





VPSP2 Workbook – Connectivity – 8 points

- Does the project enhance or improve connectivity for bicyclist/pedestrian? *(2 points)*
 - If yes, is it on a high priority bike corridor? *(2 points)*
- Does project enhance or improve connectivity for transit users? *(Max points for transit is 4)*
 - If yes does the project incorporate transit improvements? (bus shelter, bus turnout, bike racks, sidewalks, transit parking) *(4 points)*
 - Does project connect or is on transit route? *(2 points)*
- Does project improve or enhance inter-modal connections? *(Max points for intermodal is 4)*
 - If yes connect to a park and ride? *(2 points)*
 - If yes does the project connect to a train station? *(2 points)*
 - If yes connect to an airport? *(2 points)*
 - If yes connect to a bus station/intermodal center? *(2 points)*





VPSP2 Workbook – Economic Access – 10 points

- Designated Growth Center, Designated Downtown, Town Center (*9 points*)
- Village Center (*7 points*)
- Growth Areas Identified in Regional Plans or CEDS (*5 points*)
- Other areas that are not included above but are important to existing or future economy? (*2 points*)
- Annual average truck trips (*2 points*)
- AADT (*4 points*)





VPSP2 Workbook – Resiliency – 10 points

- Score from Vermont Statewide Highway Flood Vulnerability and Risk Map
- Project must include at least one of 64 identified flood mitigation measures





VPSP2 Workbook – Environment – 10 points

- Dual benefit for wildlife or aquatic organism passage? *(5 points)*
- Primary benefit for wildlife or aquatic organism passage? *(10 points)*
- Design incorporate potential for EV charging stations? (does the project include parking locations where EV could be added)*(5 points)*
- Design supports operational efficiency? (less queuing, synchronized signals, added turn lanes) *(5 points)*
- Design features address Transportation Demand Management (TDM)? (more efficient route, public transit, bike/ped accommodations)*(5 points)*
- Include installation of stormwater features beyond required by permit? *(5 points)*
- Eliminate direct discharge? *(2 points)*
- Prevent future or existing erosion? (increase culvert size) *(2 points)*
- Project design gains credit towards TMDL load allocations? *(5 points)*
- Greater than 10% reduction in impervious footprint? *(2 points)*
- Project preserve a cultural resource (i.e. historic bridge)? *(10 points)*
- Project mitigate impacts to cultural resources? *(5 points)*





VPSP2 Workbook – Regional – 10 points

- Project identified in regional plan or does need support goals identified in a regional plan? *(2 points)*
- Municipality engagement in project planning? *(3 points)*
- Will project improve sense of community? (public space, space to gather, park enhancements, traffic calming, trees, lighting, gateway) *(2 points)*
- Key community features in project area (schools, senior centers, parks, churches, libraries, municipal buildings) *(3 points)*





VPSP2 Workbook – Health Access – 5 points

- Is project enhancing access to health care facility or physical activity facility? (senior center, park, trails, school with community recreational program)
- Is project enhancing or improving health access to healthy food destinations? (grocery store, health food store, foodshelf, school lunch program, low-income meals program)
- Is project increasing the opportunity for physical activity?

Low Impact 3 points – upgrade to existing sidewalk, crosswalks, shoulders, bus stop, signals

High Impact 5 points – new sidewalk, crosswalk, shoulders, ADA upgrades at intersection, new bus stop, addition of ped phases, new transit route

