

Transportation Research in Vermont

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Research Goal: Maximize Use of Federal \$

1. Spend money and engage in research that VTrans can use
2. Engage staff across the Agency. Share research and innovations across the Agency
3. Maximize use of committed expenditures; engage with projects funded by other sources; open competition for limited available funding



1. Transportation Research that Benefits Vermont

Broad participation: Many projects have technical advisory committee members from multiple Bureaus/Divisions

How will this be used? We want to use the research—not fund one phase of the project that requires more research before it can be used; working towards how the results will be used/implemented from the beginning of the project

Evaluation: Quantitative and qualitative research benefits evaluation

2. Engage staff across the Agency

Champions

- Technical (non-Research) Champions for every project

Champions' Bureaus

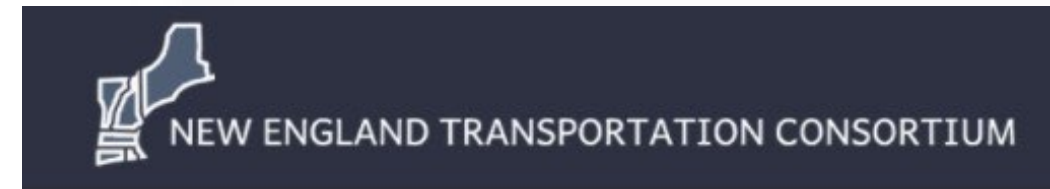
- Materials and Construction
- District Maintenance and Fleet
- Asset Management
- Performance,
- Policy and Planning
- Environmental Design
- Structures Design
- TSMO

Technical Transfer

- Broadly disseminate research and engage internally and externally
- Annual Research and Innovation Symposium
- Quarterly Research and Innovation e-Newsletter
- Participate in regional and national projects and forums

3. Exploit Limited Funding Resources (1 of 2)

- Maximize involvement in activities where we have committed federal funds:
 - National Cooperative Highway Research Program (NCHRP)
 - New England Transportation Consortium and other FHWA Pooled Funds
 - AASHTO Technical Service Programs
 - Transportation Research Board



3. Exploit Limited Funding Resources (2 of 2)

- Maximize involvement in activities Research Work Program does not fund:
 - University Transportation Center at U of Maine: *Transportation Infrastructure Durability Center* [UVM is one of five universities funded by this Center]
 - Recent NSF award at UVM: *Wireless Sensors for Infrastructure*
 - Staff participation in virtual MassDOT Innovation and Mobility Conferences, Salt Symposium, ITE Spring Technical Conference, ACEC Transportation Technical Conference
- Few funds available for VTrans-funded External Research Projects



Current External Research Projects

- Town Safety Countermeasure Toolbox (TSMO)
- RFID II (District Maintenance)
- Rapid Setting Concrete (Structures)
- Asphalt Anti-Stripping (Materials)
- Snow and Ice Performance Correlations (Asset Management)
- Rectangular Rapid Flashing Beacon (RRFB) (TSMO)

2022 Research Peer Exchange

- FHWA requires every 4-6 years
- Vermont will host a virtual exchange on three Tuesdays in May and June with 7 other states: NH, ME, RI, ND, AK, WY, UT
- Three topics:
 - Research Interactions with Materials/Pavement Staff
 - Qualitative and Quantitative Evaluation of Research Projects
 - Engagement of Leadership with Research. This will include a one-hour summary of the peer exchange for State DOT Leadership that may occur on a fourth day.



Sharing our Research



- Annual Symposium featuring 20-30 projects
- Hybrid in 2022
- Posters and Fact Sheets since 2017 available on VTrans Research website
- Quarterly e-Newsletter since Aug 2018

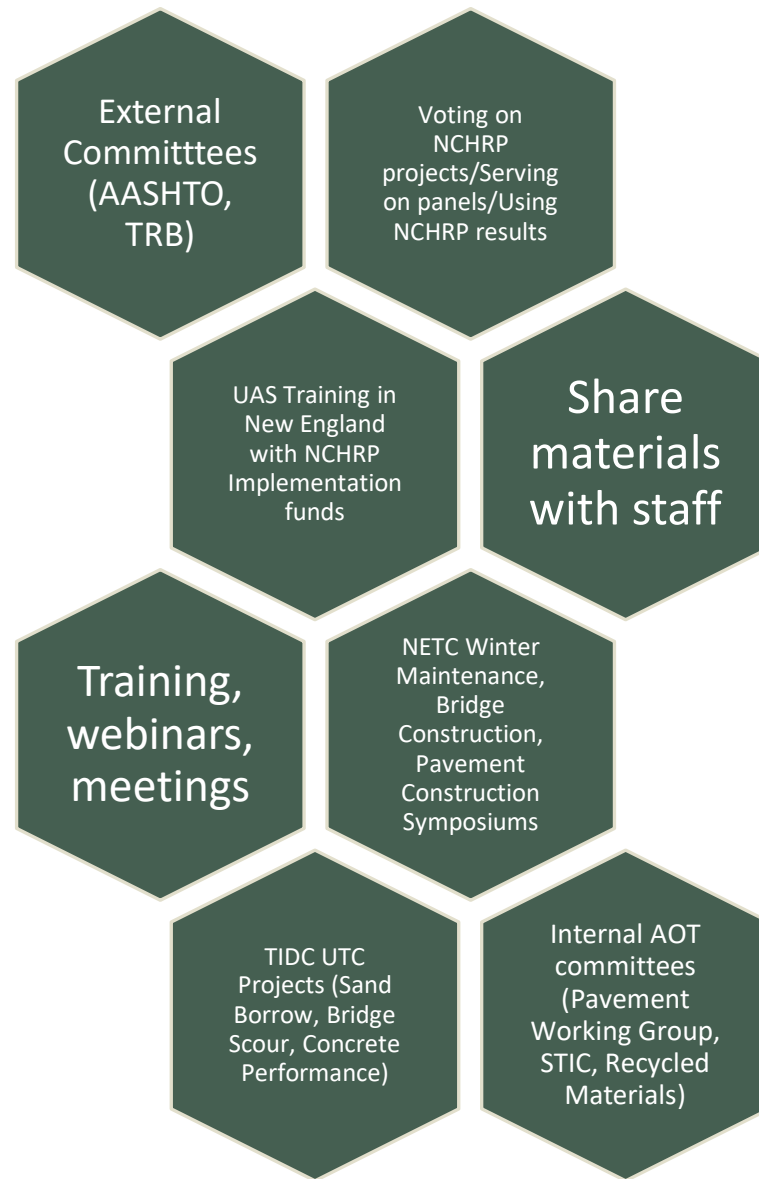
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AOT RESEARCH & INNOVATION



SUBMIT YOUR RESEARCH IDEAS!

The Vermont Agency of Transportation is able to fund up to three external research projects annually, and we want to hear about your research ideas! Project ideas must



Example Additional Activities

Questions / Comments