

# Impact of Research; Research to Implementation

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# Impact of Research

- Is impact of research the same as value of research?
- “Impact is the benefits part of benefits/cost”
- Quantitative impacts



# Value of Research

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Benefit/Cost =

**Number x Value x Percentage**

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**Contract + TAC + PM costs**

Note: Total program B/C includes projects where benefits could not be identified.

# Qualitative Benefits

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- Pavement & bridge life extension
- Improved rehab & maintenance methods
- Highway design advancements
- Traffic control enhancements
- More efficient & trained staff
- Reduced materials costs
- More efficient equipment
- Better utilize existing equipment
- Improved management
- Congestion mitigation for commuters
- Crash avoidance
- Noise reduction
- Avoid inefficient highway expenditures
- Modify standards to eliminate poor designs
- Replace specs that are unsuccessful
- Reassign staff where not productive
- Find alternatives to inferior technologies
- Informed staff & stakeholders
- Understanding industry advancements
- Knowledge of future trends & challenges
- Construction zone enhancements
- Crash severity reduction

# Value of Research

- Should VTrans strive for max benefits?
- Max benefit/cost?
- Safety projects may have higher benefits due to lives saved
- Breadth of research topics/projects

# Researchers to Implementers



# What can we do to implement research and innovations?/ Passing the baton

- Know about the research/Symposium
- Interact with the researchers and innovators
- Explain how it intersects with Agency needs
- Accept, buy-in
- Modify standards, processes, procedures

# More information

- Symposium web site:

<http://vtrans.vermont.gov/planning/research/2017symposium>

- Fact Sheets
- Posters
- Available reports
- Follow up with researchers
- Follow up with innovators





# Contact Information

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