

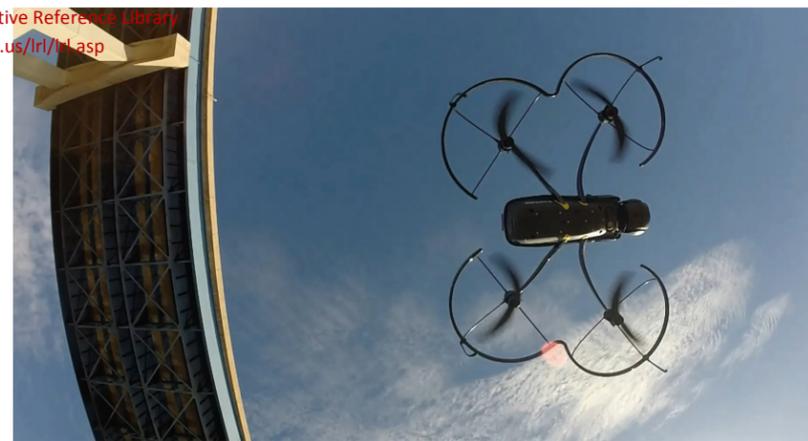
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FY2016 BY THE NUMBERS



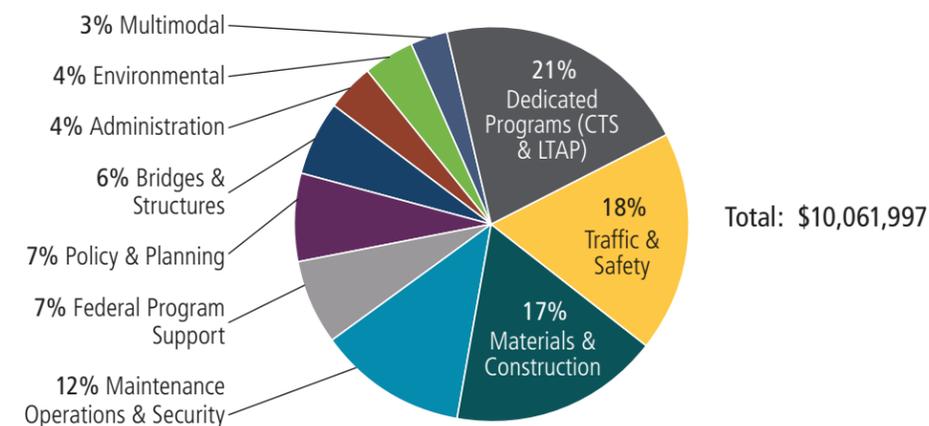
VIDEOS

We highlight research projects and provide educational resources for the public. See mndot.gov/research/videos.html or our YouTube channel.



This video explains AVL technology as recently installed in Metro District tractors.

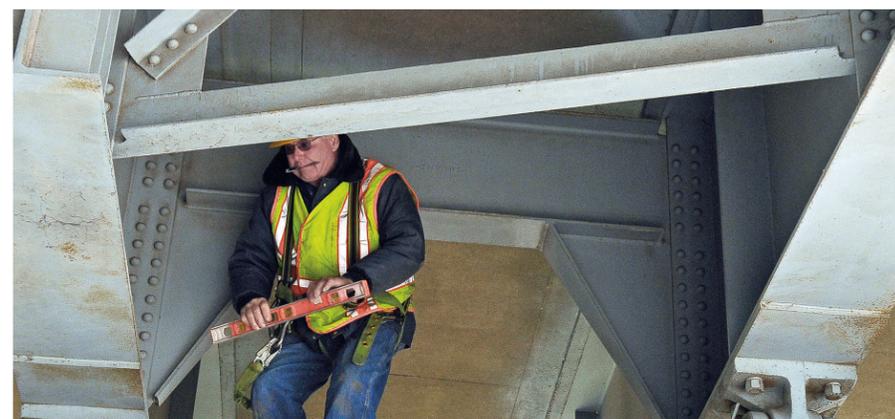
MnDOT RESEARCH BY TOPIC AREA



FY2016: JULY 1, 2015 – JUNE 30, 2016

RESEARCH AT-A-GLANCE

Putting Research into Practice



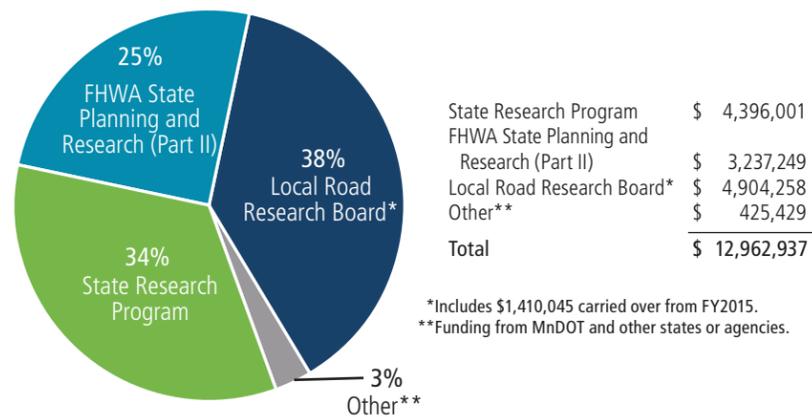
RESEARCH BENEFITS
(Top to bottom, left to right) Drones reduce bridge inspection equipment costs by 66 percent. | Willow shrubs serve as inexpensive and effective living snow fences. | Switching to LED lighting saves over \$1 million each year. | Taconite-based pothole repairs are quick to apply and long-lasting. | Wave-shaped rumble strips reduce nuisance noise. | A new generation of bridge management and inspection tools ensures compatibility with AASHTO guidelines.

OUR CLIENTS, OUR SERVICES

MnDOT Research Services & Library supports Minnesota's transportation industry by meeting the innovation and information needs of transportation practitioners and the transportation community. We are focused on applied research that will answer a question or solve a problem.

The research program is funded through the MnDOT State Research Program (SRP) and Federal Highway Administration (FHWA) State Planning and Research (SP&R) Program (Part II). We also manage research for the Local Road Research Board (LRRB), which was created to facilitate transportation research and information sharing among Minnesota city and county engineers.

FY2016 RESEARCH FUNDS BY FUNDING SOURCE



MnDOT LIBRARY

Our librarians are experts at tracking down hard-to-find information. Request a literature search, interlibrary loan or special publication at 651-366-3791, library.dot@state.mn.us or mndot.gov/library.



RESEARCH IMPLEMENTATION

We provide seed funding to get research results and transportation innovation into practice. Funding is available for small-scale deployment or the development of training materials.

Contact us at 651-366-3780 or research.dot@state.mn.us about your implementation needs.

ADVANCING TRANSPORTATION, CHANGING PRACTICE

We welcome your feedback, research requests and involvement on project Technical Advisory Panels.

Linda Taylor
Director, MnDOT Research Services & Library
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MISSION

Our goal is to create a better transportation network that moves Minnesota residents more safely, efficiently and with less environmental impact. We are achieving this goal by using research and innovation to improve MnDOT's practices.

SHARING YOUR STORY

We can create fact sheets, videos, publication articles, training materials and other resources to get the word out on your research findings or new practice. Contact us at 651-366-3780 or research.dot@state.mn.us about your research, implementation and marketing needs.

MEDIA COVERAGE

Below is a sample of the media coverage inspired by MnDOT research:

"MnDOT Could Soon Use Drones for Bridge Inspections," Minnesota Public Radio, September 28, 2015.

"The Drive: MnDOT to Tweak MnPASS Pricing," Star Tribune, November 9, 2015.

"Living Snow Fences' Aim to Keep Roads Safer During Winter," Belle Plaine Herald, November 19, 2015.

"MnDOT Converting Roadway Lighting to LED," CBS Minnesota, March 7, 2016.

"Minnesota Study Tests Whether In-Vehicle Signing Could Improve Driver Behavior," TrafficTechnologyToday.com, August 19, 2016.

"UMD Researches 'Ideal Repair' for Potholes," Finance and Commerce, December 10, 2016.



RECOGNITION

The accolades keep rolling in for Bridge Inspection Engineer Jennifer Zink (center right) and her project team for their work testing the use of drones for bridge inspections. Lt. Gov. Tina Smith (far left) presented MnDOT with the Governor's Continuous Improvement Award for the research project, which reduced inspection time from eight days to five days.



SUBMIT A RESEARCH IDEA



If you need research, we can help you create a proposal and obtain funding. Submit research ideas and vote on those already proposed at mndot-lrrb.ideascale.com/.

REQUEST A TRS

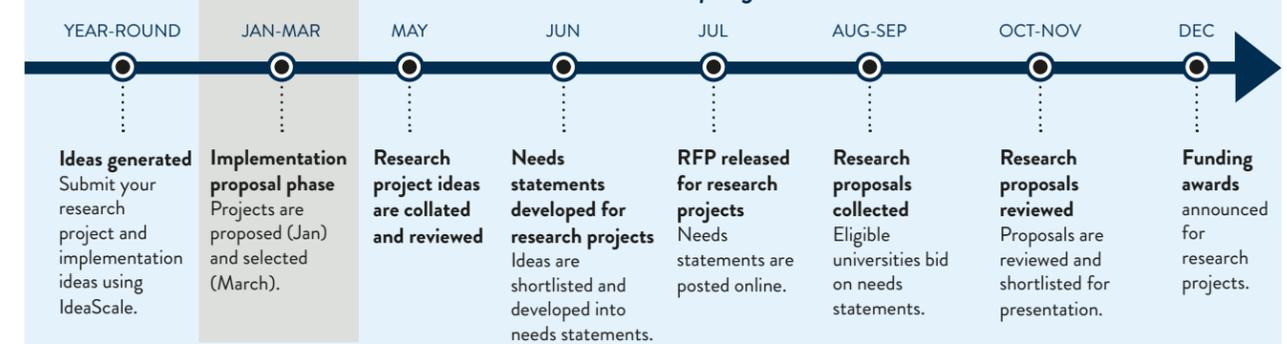
A TRS is a short-turnaround research report that you can request to answer your research question. TRSs can summarize completed and in-progress research, or report about the state of practice among your peers in Minnesota and other states. For more information or to request a TRS, visit mndot.gov/research/transportation-research-syntheses.html.



MnDOT is taking steps to support and improve roadside habitat for pollinators like bees, birds and butterflies. **TRS 1601**, Partnerships for Promoting Pollinator Habitat, examines how other state departments of transportation develop or expand partnerships with private organizations and local agencies to achieve this goal.

Overview of MnDOT's Research Cycle

From idea to project



NOTES: Exact dates may change from year to year. Check mndot.gov/research for current schedule. Out-of-cycle funding requests can be made in some circumstances. Contact Research Services for criteria.