

Center for Sustainable & Resilient Infrastructure

Virginia Tech Transportation Institute

About Us

The mission of the Center for Sustainable & Resilient Infrastructure (CSRI) is to envision, develop and deploy innovative, safe, sustainable, and resilient infrastructure solutions. We re-imagine and manage our infrastructure facilities, networks, and systems.

We re-imagine and manage our infrastructure facilities, networks, and systems. We aim to educate the next generation of transportation professionals with a solid academic foundation, teaching them to be creative and resourceful, and to appreciate the societal, economic, and environmental impacts of our profession. CSRI is a partnership between VTTI and the Transportation Infrastructure and Engineering Program in Virginia Tech's Via Department of Civil and Environmental Engineering.

Programs

- Vehicle Pavement Interaction
- Structural Evaluation
- Accelerated Pavement Testing



Center for Sustainable & Resilient Infrastructure

Virginia Tech Transportation Institute

Our Impact

INNOVATION - We have developed, tested and deployed a number of innovations, including novel approaches to evaluate the safety of pavement and bridges using smart vehicle and tire technology, and tools for life-cycle cost and environmental assessment of transportation infrastructure.

INDUSTRY BEST PRACTICES - Our research products have been adopted by the Federal Highway Administration (FHWA), the American Association of State Highway and Transportation Officials, and ASTM International. Among other efforts, CSRI has worked with FHWA and the National Cooperative Highway Research Program to develop standards for network level measurement of friction, macrotexture, and pavement structural capacity.

OUTREACH - CSRI researchers have contributed to the transportation infrastructure body of knowledge with more than 400 journal articles, conference papers, reports, manuals, and magazine articles, and 300 presentations, including many keynote presentations at international conferences.

EDUCATION - We have championed the incorporation of asset management and sustainability concepts into the Civil and Environmental Engineering curriculum. The center has initiated and led a series of Infrastructure Management Research and Education workshops. These workshops provide a forum for the exchange of ideas and best practices on asset management and education.



About VTTI

For 35 years, VTTI has been conducting research to save lives, time, and money and protect the environment. In our world-class facilities, we investigate, invent, design, develop, refine and test transportation systems of the future. As one of seven premier research institutes created by Virginia Tech to answer national challenges, VTTI is continually advancing transportation through innovation and has affected public policy on national and international levels.

To learn more about our work and get more involved, please contact us at:

• 540-231-1500 • inquiries@vtti.vt.edu • www.vtti.vt.edu

Virginia Tech Transportation Institute
3500 Transportation Research Plaza
Blacksburg, VA 24061



Advancing Transportation Through Innovation