INTRANS SERVES AMERICA’S TRANSPORTATION NEEDS

About
Since its inception in 1983 as a technical assistance program for Iowa’s rural transportation agencies, the Institute for Transportation has evolved into a $17-million-per-year hub for local, regional, and national transportation-focused research, education, and technology transfer.

InTrans, located at Iowa State University, administers 14 centers and programs with several distinct yet affinitive research specialties and a variety of technology transfer and professional education initiatives. Our innovative research program (with nearly 300 projects underway) is supported by a variety of state and national organizations, including our primary sponsor—the Iowa Department of Transportation.

Focus Areas

From traffic safety to big data and from preservation to education, InTrans focuses on research and service that impact transportation now and into the future.

Safety
Focusing on the evaluation of roadway countermeasures and developing data-driven solutions to reduce traffic fatalities

Infrastructure
Developing new ways to construct and preserve America’s roads, bridges, and other forms of infrastructure

Mobility, Data Analytics, and Resiliency
Studying resilience measures for extreme weather events, investigating the future of autonomous vehicles, and analyzing traffic “big data” to support improved mobility decision-making

Construction Management
Enhancing transportation efficiency and cost-effectiveness through innovative construction technologies and processes

Outreach and Education
Seeking to impact lives by improving the skills and knowledge of transportation workers through workshops offered by InTrans centers and programs

Services

• Statewide urban design and specifications
• Training, professional development, advice, and referral
• Safety/law enforcement liaison
• Traffic safety and crash analysis services
• Conferences and workshops
• Technical support for traffic safety initiatives (e.g., GIS application design, data integration, implementation, and training services)
• Pavement management systems
• REACTOR Laboratory
• Bridge management systems
• Focus groups to determine research needs through a collaborative agreement with Iowa’s Board of Regents universities

Collaborations

InTrans is synergistic, which means that we work with a variety of organizations, both here in Iowa and across the country. Our partnerships with the Iowa DOT, Minnesota DOT, and Federal Highway Administration are long-lasting, as is our relationship with the faculty and staff in Iowa State’s Department of Civil, Construction, and Environmental Engineering.

We value the connections we have made, and continue to make, with numerous universities, state DOTs, cities, counties, regional planning organizations, industry associations, equipment manufacturers, materials suppliers, and other groups.

Research, Publications, and Products

InTrans researchers use innovative methods, materials, and technologies to advance the transportation field. InTrans provides tangible products that fulfill clients’ needs while ensuring that research is oriented toward real-world results.

Publications

• Guides/manuals
• Reports
• Tech transfer summaries

More Products

• Technical presentations
• Decision support tools/systems
• Standards and specifications

• New processes and designs
• Outreach and extension activities to advance the state of the practice
InTrans at a Glance
Institute for Transportation (InTrans)
2711 S. Loop Drive, Suite 4700
Ames, IA 50010-8664
515-294-8103, intrans.iastate.edu
Shauna Hallmark, Director
shallmar@iastate.edu, 515-294-5249
Neal Hawkins, Associate Director
hawkins@iastate.edu, 515-294-7733

Centers
Bridge Engineering Center (BEC)
Conducting research to solve real-world structural problems
Justin Dahlberg, Director
dahlberg@iastate.edu, 515-294-5664
bec.iastate.edu

Center for Transportation Research and Education (CTRE)
Exploring safety, infrastructure management systems, and sustainability in transportation
- Iowa Pavement Management Program (IPMP)
- Iowa Traffic Safety Data Service (ITSDS)
- Roadway Infrastructure Management and Operations Systems (RIMOS)
Omar Smadi, Director
smadi@iastate.edu, 515-294-7710
ctre.iastate.edu

Center for Weather Impacts on Mobility and Safety (CWIMS)
Facilitating better and safer ways to travel when weather impacts transportation systems
Zach Hans, Director
zhans@iastate.edu, 515-294-2329
cwims.intrans.iastate.edu

Midwest Transportation Center (MTC)
Employing data-driven performance measures for enhanced infrastructure condition, safety, and project delivery
Shauna Hallmark, Director
shallmar@iastate.edu, 515-294-5249
mtc.intrans.iastate.edu

National Center for Wood Transportation Structures (NCWTS)
Integrating research, demonstration, and education to improve wood transportation structures
Justin Dahlberg, Codirector
dahlberg@iastate.edu, 515-294-5664
woodcenter.org

National Concrete Pavement Technology Center (CP Tech Center)
Serving as the national hub for concrete pavement research and technology transfer
Peter Taylor, Director
ptaylor@iastate.edu, 515-294-9333
cptechcenter.org

Programs
Asphalt Materials and Pavements Program (AMPP)
Improving asphalt pavements through research and education
Chris Williams, Director
rwilliam@iastate.edu, 515-294-4419
ampp.intrans.iastate.edu

AURORA Program
Working to advance road weather information systems technology
Zach Hans, Codirector
zhans@iastate.edu, 515-294-2329
Neal Hawkins, Codirector
hawkins@iastate.edu, 515-294-7733
aurora-program.org

Construction Management and Technology (CMAT) Program
Researching innovative construction technologies and processes for the transportation industry
Jennifer Shane, Director
jsshane@iastate.edu, 515-294-1703
cmat.intrans.iastate.edu

Iowa Local Technical Assistance Program (Iowa LTAP)
Helping Iowa's local governments keep up with growing transportation demands
Keith Knapp, Director
kknapp@iastate.edu, 515-294-8817
iowaltap.iastate.edu

Iowa Statewide Urban Design and Specifications (SUDAS)
Providing uniform design guidelines and construction specifications for Iowa's urban public improvement projects
David Carney, Director
dpcarney@iastate.edu, 515-296-0582
iowasudas.org

Program for Sustainable Pavement Engineering and Research (PROSPER)
Investigating and integrating innovative, sustainable pavement materials and technologies
Halil Ceylan, Director
hceylan@iastate.edu, 515-294-8051
prosper.intrans.iastate.edu

Real-Time Analytics of Transportation Data (REACTOR) Laboratory
Completing traffic calculations within seconds to enable the delivery of near real-time solutions
Anuj Sharma, Codirector
anujs@iastate.edu, 515-294-3624
Neal Hawkins, Codirector
hawkins@iastate.edu, 515-294-7733
Skylar Knickerbocker, Codirector
sknick@iastate.edu, 515-294-2238
reactor.ctre.iastate.edu

Smart Work Zone Deployment Initiative (SWZDI)
Investigating better ways to control traffic through work zones
Keith Knapp, Director
kknapp@iastate.edu, 515-294-8817
swzdi.intrans.iastate.edu

Learn more at intrans.iastate.edu