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A Guide to Transportation Technology and Innovation

<http://scitech.dot.gov>

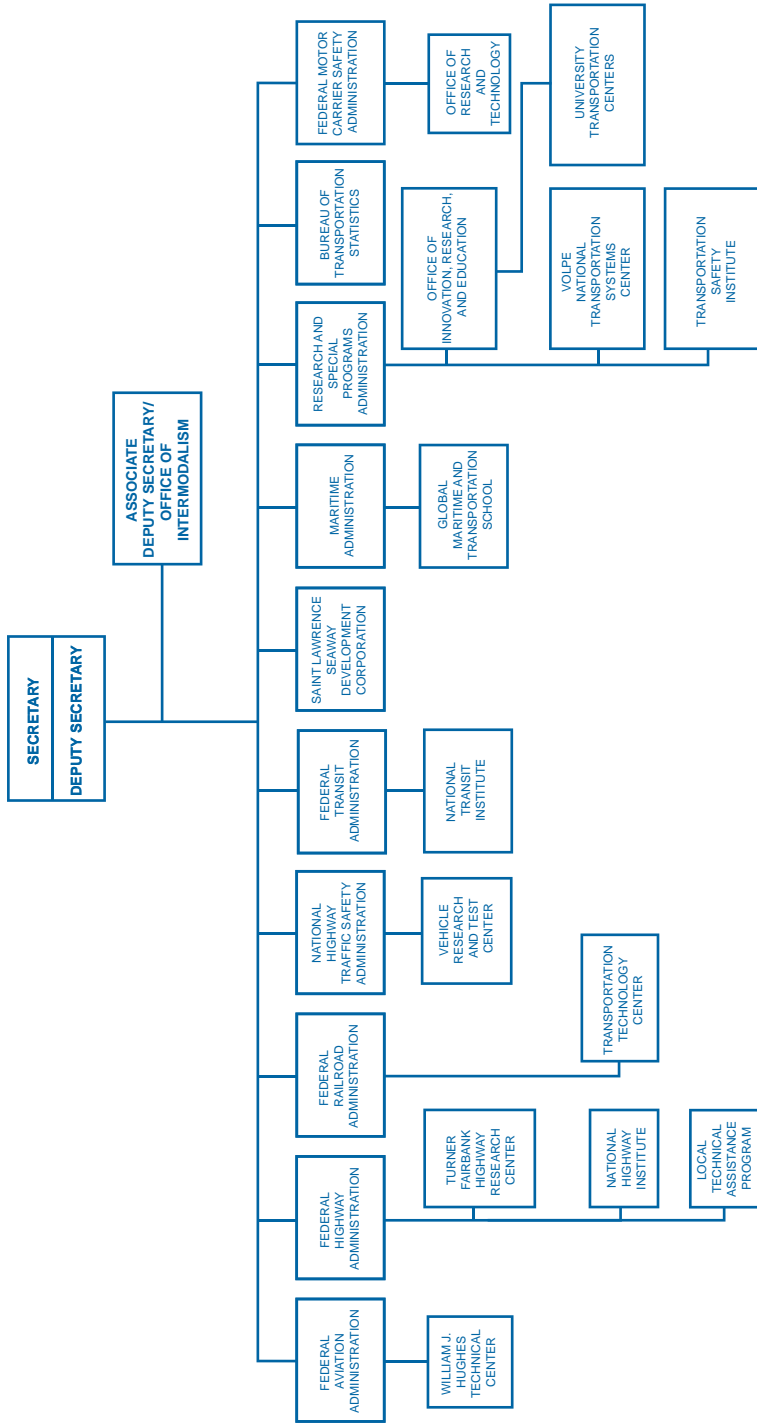
<http://t2.dot.gov>



U.S. Department of Transportation
Research and Special Programs Administration

U.S. DEPARTMENT OF TRANSPORTATION

Organizational Chart



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Overview of Technology Transfer

A Guide to Technology and Innovation

This guidebook was produced by members of the U.S. Department of Transportation (DOT) Technology Innovation Committee and is intended as an overview of innovation and technology transfer activities in the Department. The guide presents a quick reference to innovation, research, and technology activities at the DOT as well as points of contact and is designed to help you pursue development of more formal technology and innovation sharing partnerships. The members of the Committee (listed on the inside back cover) are initial contacts who will assist you in finding technical assistance and materials of interest.

Online users can find additional information on our headquarters agencies, DOT laboratories, partnership opportunities, Small Business Innovation Research (SBIR) Program, as well as updated information about DOT Technology Transfer at our web site at:

<http://t2.dot.gov>

The Transportation Science and Technology home page is a one-stop resource for additional information on federal, national, and international transportation planning, technology, and R&D activities:

<http://scitech.dot.gov>

Additional information about the DOT is provided on the Department's web site:

<http://www.dot.gov>

For additional copies or information about this guide, you may contact the Volpe Center Office of Communications and Technology Outreach (617) 494-2224 or MurrayL@volpe.dot.gov



To derive maximum return on our country’s technological investments, the DOT encourages innovation and transfer of federally funded technology to the private sector to enhance the safety, mobility, global connectivity, environmental stewardship, and security of America’s transportation system.

What is Technology Transfer?

Technology Transfer includes a range of formal and informal cooperative actions between agencies, federal laboratories, and the public and private sectors. Successful technology transfer efforts result in product improvement, service efficiencies, improved manufacturing processes, joint development to address government and private sector needs, and the development of major new products for the international marketplace.

The DOT forges partnering ventures in the areas of strategic planning, enabling research, and education. Examples include: the initiatives of the National Transportation Science and Technology Strategy, partnerships on transportation information infrastructure, advanced vehicles, climate change and environmental impacts, security, and the University Transportation Centers (UTC) Program.

Why is Technology Transfer Important to DOT?

The efficiency, flexibility, and low cost of transportation in the United States makes our transportation system the envy of the world. But our system faces unprecedented demands for improvement and renewal. A fast-paced, information-intensive economy is changing the places people want and need to travel to, and new production and management methods are radically reshaping the shipping needs of business. At the same time, the nation’s transportation system is expected to meet unprecedented standards for reliability, cost, timeliness, safety, security, growth, and environmental impact. DOT seeks to work with our industry and university partners to demonstrate and deploy safer, simpler, and smarter transportation.



What Activities are Included in Innovation and Technology Transfer Efforts?

Innovation and Technology Transfer happens in many ways:

- information sharing through papers, workshops, briefings, publications, reports, conferences, and personal visits;
- partnerships and memoranda of understanding;
- coalitions and advisory committees;
- information searches;
- technical assistance and expertise;
- access to federal laboratory facilities and services;
- resource pooling through cooperative agreements;
- license and patent agreements;
- international exchange programs;
- personnel exchange; and
- technical training.

How to Use This Guide

In the following pages, facilities and services available from each DOT agency are briefly described and information is provided. This information includes telephone, and fax numbers as well as postal mail, email, and web site addresses. Written inquiries to DOT elements within Washington, DC, should use the address format below. Be sure to insert the appropriate office name.

U.S. Department of Transportation
 (Insert Office Name and Mail Code)
 400 Seventh Street SW
 Washington, DC 20590

Complete addresses are provided for those DOT elements located outside Washington, DC.





National Science and Technology Council

http://www.ostp.gov/NSTC/html/NSTC_Home.html

The National Science and Technology Council (NSTC) was established by Executive Order on November 23, 1993. This Cabinet-level Council is the principal means for the President to coordinate science, space, and technology and to coordinate the diverse parts of the federal research and development enterprise. An important objective of the NSTC is the establishment of clear national goals for federal science and technology investments in areas ranging from information technologies and health research, to improving transportation systems and strengthening fundamental research. The Council prepares research and development strategies that are coordinated across federal agencies to form an investment package aimed at accomplishing multiple national goals. Transportation coordination with the NSTC is reflected in strategic planning and assessment, public-private partnerships, enabling research, education, publications, and activities on the Transportation Science and Technology web site at <http://scitech.dot.gov>.



U.S. Department of Transportation Office of the Secretary

<http://www.dot.gov/ost>

DOT Office of Intermodalism

The Office of Intermodalism was established in 1992 within the Office of the Secretary of Transportation and is responsible for coordinating Department of Transportation projects, programs, and policies involving more than one mode of transportation.

Office of Intermodalism (S-3)

Voice: (202) 366-5781

FAX: (202) 366-0263

Email: intermodal@ost.dot.gov





DOT Patent Counsel

The DOT has centralized processing and information regarding DOT-owned patents and licensing of DOT-developed technology with the Office of the General Counsel.

DOT Patent Counsel (C-15)
Contact: Otto Wildensteiner
Voice: (202) 366-9161
FAX: (202) 366-9170
Email: Otto.Wildensteiner@ost.dot.gov

DOT Small Business Innovation Research (SBIR)

<http://www.volpe.dot.gov/sbir>

Congress established the Small Business Innovation Research (SBIR) Program to stimulate technology innovation, utilize small business to meet federal research and development needs, encourage participation by minority and disadvantaged businesses in technological innovation, and increase private sector commercialization of innovations derived from federal R&D. In the DOT, this program is managed through RSPA's Volpe Center.

The SBIR solicitation is available in electronic form only on the Internet; however, the program accepts proposals in both paper form and electronically.

Volpe National Transportation Systems Center
55 Broadway
Cambridge, MA 02142-1093
Contact: Joe Henebury, DTS-22
Voice: (617) 494-2712
FAX: (617) 494-2370
Email: henebury@volpe.dot.gov



Garrett A. Morgan Technology and Transportation Futures Program <http://education.dot.gov/>

The Garrett A. Morgan Technology and Transportation Futures Program is an education outreach effort that has three goals: 1) To build a bridge between America's youth and the transportation community; 2) To support the development of improved educational technology that provides better ways for people to acquire new skills; and 3) To ensure that America's transportation workforce for the 21st century is technologically literate and internationally competitive. The Program serves as a catalyst to enhance transportation education at all levels by leveraging the Department's current technology, education, and research programs, and by forging public/private partnerships. The Program has four components: Math, Science, and Technology Literacy Challenge (K-12), community college partnerships, undergraduate and graduate opportunities, and lifelong learning.

Garrett A. Morgan Technology and Transportation Futures Program
ATTN: MAR-500.5
U.S. Department of Transportation
Washington, DC 20590
Email: garrett.morgan@bts.gov



Bureau of Transportation Statistics

<http://www.bts.gov>

The Bureau of Transportation Statistics (BTS) compiles, analyzes, and makes accessible information on the nation's transportation systems; collects information on intermodal transportation; and works to enhance the quality and effectiveness of DOT statistical programs through the development of guidelines and promotion of improvements in data acquisition and use. BTS publishes statistical and other information in printed and electronic forms and compiles and disseminates inventories of all transportation data resources available to the public. Visit the National Transportation Library on



universities, and involvement with industry and international entities including the Pan American Institute of Highways.

Federal Highway Administration
National Highway Institute
4600 N. Fairfax Dr., Suite 800
Arlington, VA 22203
Contact: Rick Barnaby
Voice: (703) 235-0520
FAX: (703) 235-0593
Email: rick.barnaby@fhwa.dot.gov

Local Technical Assistance Program

<http://www.ltapt2.org>

The Local Technical Assistance Program (LTAP) is the most direct, hands-on method FHWA and its partners have for moving innovative transportation technologies out of the lab, off the shelf, and into the hands of people who maintain our local, rural, and tribal streets and roads.

The LTAP does this by funding technology transfer (T2) and technical assistance projects that link local highway agencies, tribal governments, universities, the states, and the federal government. A network of LTAP centers provide T2 services, technical assistance, training, products, advice, and educational resources to meet the varied needs of the local transportation workforces. There are 58 LTAP T2 centers, one in each state and Puerto Rico, and 7 regional centers serving Native American tribal governments.

Generally located at universities or state highway agencies, centers serve more than 38,000 rural and local agencies and tribal governments. The program is administered by FHWA's Office of Professional Development. Support for the centers comes from the federal LTAP funds, matched by a combination of funds from state departments of transportation, the Bureau of Indian Affairs, universities, local agencies, and finances designated by state legislation.

Federal Highway Administration
Office of Professional Development
4600 N. Fairfax Dr., Suite 800
Arlington, VA 22203
Contact: Al Alonzi
Voice: (703) 235-0552
FAX: (703) 235-0593
Email: al.alonzi@fhwa.dot.gov



Federal Motor Carrier Safety Administration

<http://www.fmcsa.dot.gov>

The Federal Motor Carrier Safety Administration (FMCSA) works to reduce the number and consequences of large truck and bus crashes on the nation's highways. FMCSA's work involves administering federal and state motor carrier safety enforcement programs, developing close partnerships to change unsafe behavior, conducting research, and deploying technology to improve safety.

Office of Research and Technology

The Office of Research and Technology manages FMCSA research and technology development, testing, and transfer. The research and technology programs focus on safety efforts involving drivers, vehicles, carriers, new technologies, and crosscutting issues and research. The Office also manages two Intelligent Transportation Systems programs, (i.e., Commercial Vehicle Information Systems and Networks, CVISN) and the heavy vehicle platform of the Intelligent Vehicle Initiative, which focuses on in-vehicle safety systems. The research and technology projects are coordinated and often in partnership with relevant agencies, research organizations, states, carriers, the private sector, and others. The results are used to develop or refine FMCSA's policies, strategies, regulations, enforcement, and most importantly, commercial motor vehicle safety. The results are widely distributed and in multiple mediums.

Office of Research and Technology
Federal Motor Carrier Safety Administration
400 Seventh Street SW
Washington, DC 20590
Contact: Douglas McKelvey
Voice: (202) 385-2361
FAX: (202) 385-2422
Email: doug.mckelvey@fmcsa.dot.gov

Safety Action Programs

Safety Action Programs encompass the FMCSA's education and Outreach strategies, sometimes including enforcement and research components to reduce commercial motor vehicle CMV crashes. With more than 600,000 motor carriers on U.S. roads, these strategies include education and outreach programs used to inform, educate, and influence the behavior of more than 7 million truck and bus drivers, and millions of passenger vehicle drivers operating around CMVs. Research findings and safety technologies, communicated through outreach strategies, deployment strategies, and through the FMCSA web site, are designed to improve the safety of motor carrier operations, CMVs and CMV drivers, and involve public and private partnerships for using information systems, innovative technologies, and business practice reengineering. FMCSA is involved in deploying intelligent vehicle technology that provides essential safety benefits to improve the efficiency of commercial operations.

Safety Action Programs
Federal Motor Carrier Safety Administration
400 Seventh Street SW
Washington, DC 20590
Contact: David Longo
Voice: (202) 366-2014
FAX: (202) 366-7908
Email: david.longo@fmcsa.dot.gov

National Training Center
<http://www.fmcsa.dot.gov/ntc/pages/set.html>

The National Training Center (NTC) serves as the national focal point for the development and delivery of motor carrier safety training to enhance the capabilities of participating federal, state, and local government highway safety agencies. The NTC delivers training in commercial vehicle and driver inspection, drug interdiction, Intelligent Transportation Systems, compliance and enforcement, highway safety, education and outreach, and program management and support. In the past three years, it has delivered over 1,200 training courses, including trucks and terrorism seminars, to more than 39,000 federal, state, and local government employees.

National Training Center
Federal Motor Carrier Safety Administration
4600 North Fairfax Drive, Suite 700
Arlington, VA 22203
Contact: Retta Besse
Voice: (703) 235-0506
FAX: (703) 235-0517
Email: retta.besse@fmcsa.dot.gov



Federal Railroad Administration
<http://www.fra.dot.gov/>

A railroad research and development program is administered by the Federal Railroad Administration (FRA) to advance all aspects of railroad safety and intercity ground transportation. R&D is carried out in the following program areas: equipment, human factors, hazardous materials, track safety, next generation high-speed trains, safety of high-speed ground transportation, and highway-railroad grade crossings. The **Transportation Technology Center**, managed and staffed by the Association of American Railroads for the FRA, is a 50-square-mile facility located near Pueblo, Colorado. It has laboratories, test tracks, and instrumentation for testing and



Short Sea Shipping Cooperative Program

<http://www.marad.dot.gov/programs/shortseashipping.html>

The Short Sea Shipping Cooperative Program (SCOOP) is an industry inspired partnership formed for the purpose of sharing resources and services in the development of Short Sea Shipping in North America. Short Sea Shipping is defined as the water transportation of freight and passengers that does not cross an ocean. Short Sea Shipping methods can decrease traffic congestion, improve safety, and benefit the environment.

Contact: Michael Hokana

Voice: (202) 366-0760

FAX: (202) 366-5123

Email: michael.hokana@marad.dot.gov



National Highway Traffic Safety Administration

<http://www.nhtsa.dot.gov>

The National Highway Traffic Safety Administration (NHTSA) is an authoritative national and international source of highway and motor vehicle safety information and services that provides technical and programmatic assistance to industry; federal, state, and local governments; educational and research institutions; and motorists. Examples are the **Auto Safety Hotline (888-327-4236)** that provides information on product defects; and the **Buying a Safer Car** program (<http://www.nhtsa.dot.gov/cars/testing/ncap>), which provides ratings of vehicle safety performance by crash testing new vehicles.

NHTSA also offers outreach information at:

<http://www.nhtsa.dot.gov/people/outreach> including **NHTSA Facts** for information on consumer products and issues, and **Traffic Safety Digest** highlighting innovative traffic safety projects.



Contact: Mike Goodman, NPO-112

Voice: (202) 366-5677

FAX: (202) 366-7237

Email: mike.goodman@nhtsa.dot.gov

Vehicle Research and Test Center

<http://www-nrd.nhtsa.dot.gov/vrtc/vrtcstar.htm>

The Vehicle Research and Test Center (VRTC) is the principal in-house testing laboratory for NHTSA. The physical facilities include a 7.5-mile test track, vehicle dynamics area with various test surfaces, skid pad, brake slope, and truck/bus durability and off-road courses. VRTC conducts research and vehicle testing in the areas of crash avoidance, crashworthiness, and biomechanics.

These research and development activities produce safer vehicles through improved vehicle performance, occupant protection systems, and structural integrity of vehicles; increased understanding of driver behavior; and the use of intelligent systems to enhance drivers' ability to avoid crashes and travel safely. VRTC also conducts investigations into potential safety-related defects in motor vehicles in support of the Office of Defects Investigation.

Vehicle Research and Test Center

P.O. Box 37

East Liberty, OH 43319-0337

Contact: Mike Monk

Voice: (937) 666-4511

FAX: (937) 666-3590

Email: mike.monk@nhtsa.dot.gov





Research and Special Programs Administration

<http://www.rspa.dot.gov>

University Transportation Centers

<http://utc.dot.gov>

The mission of the University Transportation Centers (UTCs) is to advance U.S. technology and expertise in the many disciplines comprising transportation through education, research, and technology transfer at university-based centers of excellence. Through partnerships with state and local governments and the private sector, the universities serve as a vital source of transportation leaders and research results to meet the nation's need for safe, efficient, and environmentally sound movement of people and goods.

The various UTCs conduct basic and applied transportation research in numerous, multimodal fields; aid workforce development by providing their undergraduate and graduate students an education program that includes multidisciplinary course work and participation in research; and makes these research and education results available through an ongoing program of technology transfer.

Each UTC publishes an annual report that details that Center's research, education, and technology transfer results, and publishes research reports. These results are available on each UTC website. In addition, published reports are cataloged in the Transportation Research Information Service (TRIS) database.

Visit the UTC Program homepage at <http://utc.dot.gov/> for links to each UTC home page, and the University Research Results search engine, to view research, education, and technology transfer results.

Email: utc@rspa.dot.gov

Voice: (202) 366-4434

Volpe National Transportation Systems Center

<http://www.volpe.dot.gov>

The Volpe National Transportation Systems Center (Volpe Center) in Cambridge, Massachusetts, is an element of RSPA. The Center, which fosters innovation across the transportation enterprise and approaches transportation issues from a system-wide perspective, performs work on a fee-for-service basis for all modes of DOT, other federal, state, and local agencies, and some international entities. The Center fosters a broad multidisciplinary, multimodal approach with a focus on the interrelationships between technology, transportation, and society. The Center's expertise includes research and development, engineering, analysis, system implementation, economic analysis, and strategic planning. Across all the research areas the Center supports the DOT's strategic objectives of safety, mobility, global connectivity, environmental stewardship, security, and organizational excellence. The Center also is responsible for coordinating and supporting the DOT's Small Business Innovation Research (SBIR) Program.

Volpe National Transportation Systems Center

55 Broadway

Cambridge, MA 02142-1093

Contact: Lynn Murray, DTS-22

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Email: murrayL@volpe.dot.gov

Transportation Safety Institute

<http://www.tsi.dot.gov>

With over 600,000 students trained, RSPA's Transportation Safety Institute (TSI) has made major contributions to improve transportation safety and security for the traveling public - both nationwide and internationally. TSI's training programs are designed and conducted to respond to the needs of the sponsoring (or client) organizations. TSI is the primary provider of multimodal safety and



security training in the federal government. The Institute offers a wide variety of training courses and seminars, most of which are available at field locations as needed. Training is performance oriented; that is, designed to teach people how to better perform their jobs to ensure safety.

Transportation Safety Institute
6500 South MacArthur Blvd., P.O. Box 25082
Oklahoma City, OK 73125-5050
Contact: Frank Tupper, Director
Voice: (405) 954-3153
FAX: (405) 954-3521
Email: ftupper@tsi.jccbi.gov
Course and schedule information (800) 858-2107

Bureau of Transportation Statistics
Cara Fitzgerald (cara.fitzgerald@bts.gov)

Federal Aviation Administration
Dennis Filler (dennis.filler@faa.gov)

Federal Highway Administration
Kevin Connor (kevin.connor@fhwa.dot.gov)

Federal Motor Carrier Safety Administration
Douglas McKelvey (doug.mckelvey@fmcsa.dot.gov)

Federal Railroad Administration
Tom Raslear (thomas.raslear@fra.dot.gov)

Federal Transit Administration
Marina Drancsak (marina.drancsak@fta.dot.gov)

Maritime Administration
Alexander C. Landsburg (alex.landsburg@marad.dot.gov)

National Highway Traffic Safety Administration
Mike Goodman (mike.goodman@nhtsa.dot.gov)

Research and Special Programs Administration
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Research and Special Programs Administration

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