

Highway RD&T; Universities; BTS; ITS
(Millions \$, 6-year Totals)
May 3, 2004

Program Area	Current Law or TEA-21	S. 1072 (SAFETEA) Title II	H.R. 3550 (TEA-LU) Title V
TITLE	TITLE V—TRANSPORTATION RESEARCH	TITLE II—TRANSPORTATION RESEARCH	TITLE V—TRANSPORTATION RESEARCH AND EDUCATION
Funding	Subtitle A—Funding	Subtitle A—Funding	Subtitle A—Funding
Authorization of Appropriations	5001 Provides contract authority of \$1,892 over 6 years Federal share 50% unless otherwise indicated or determined by Secretary. Funds available till expended. Certain funds are transferable up to 10%.	2001 Provides contract authority of \$1,298 over 6 years	5101 Provides contract authority of \$2,970 over 6 years Federal share 50% unless otherwise indicated or determined by Secretary. Funds available till expended. Funds not transferable.
Obligation Ceiling	5002 Imposes obligation ceiling of \$2,571	2002 Imposes obligation ceiling of \$2,674.2	5102 Imposes obligation ceiling of \$2,910 for programs funded in Title V.
Notice, Finding, etc.	5003 Notice of reprogramming or reorganization required to Congress	2003 Notice of reprogramming or reorganization required to Congress	5103 Findings: importance of federal research in surface transportation, low funding under TEA-21, investment principles, increased funding.
Research, Technology, & Education	Research and Technology	Subtitle B—Research and Technology	Research, Technology, and Education
<i>Surface Transportation Research</i>	<i>5102 Surface Transportation Research, \$592</i>	<i>2101, \$1,298 + F-SHRP (\$450)</i>	<i>5201 Research, Technology, and Education, \$1,366.5</i>

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Administration	<p>General authority: types of activities, etc.</p> <p>Procurement approaches/partnerships.</p> <p>No specific language on competitive and peer review.</p>	<p>“502 General authority for R&T activities, collaboration use of funds, contents of program, etc.</p> <p>Procurement approaches/partnerships.</p> <p>Competition and peer review to the maximum extent practicable and appropriate.</p>	<p>Statement of Principles: coverage, federal responsibility and role, content, stakeholder input.</p> <p>Procurement approaches/partnerships.</p> <p>All grants, contracts, and cooperative agreements must be competitively awarded and peer reviewed.</p> <p>Performance review and evaluation to be included from proposal stage on; outcome-based performance measures; evaluations available to the public.</p> <p>Pooled fund program.</p> <p>Operations elements added to research.</p>
Advanced Research	<p>Advanced Research</p> <p>Establishment and topics.</p> <p>No specified funding.</p>	<p>Advanced, High-Risk Research</p> <p>Report in strategic plan</p> <p>\$162</p>	<p>Exploratory Advanced Research</p> <p>Establishment and topics.</p> <p>No specified funding.</p>
Long-Term Pavement Performance (LTPP)	<p>\$60</p>	<p>\$90</p> <p>Summary report required</p> <p>Deadline to finish program: 9/30/09</p>	<p>\$115</p>
Seismic Research Program	<p>\$12 earmark (Buffalo)</p>	<p>\$18 earmark (Nevada)</p>	<p>---</p>
Infrastructure Investment Needs Report	<p>Biennial requirement</p>	<p>Biennial requirement</p>	<p>---</p>
International Highway Transportation Outreach Program	<p>5106, \$3</p>	<p>“506, \$3</p>	<p>?</p>
Turner-Fairbank Highway Research Center (TFHRC)	<p>---</p>	<p>---</p>	<p>The Secretary shall operate TFHRC.</p>
University Funding	<p>---</p>	<p>---</p>	<p>Unless otherwise specified, universities may only receive Title V funds through competition and peer review.</p>
Long-Term Bridge Performance	<p>---</p>	<p>---</p>	<p>5202 Long-Term Bridge Performance Program, \$80</p>

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Environment and Planning Cooperative Research	5107 Surface Transportation-Environment Cooperative Research Program Establishment, topics, advisory board. No specific funding.	“507 Surface Transportation-Environmental Cooperative Research Program, \$120 Establishment Secretary shall administer and may have NAS carry out such activities as determined appropriate Content does not closely follow the recommendations of Special Report 268, in that the topics are more planning and management oriented and do not cover all the environmental topics in the special report.	5203 Surface Transportation Environment and Planning Cooperative Research Program, \$80 Establishment, advisory committee. Administered by NAS. Research agenda based on TRB Special Report 268. “shall include” “May” use open competition and peer review of proposals. “May” peer review of research results.
Transportation Technology Innovation and Demonstration Program	5117, earmarked some projects to be funded from Surface Transportation Research and others from Technology Deployment, including: Fundamental Properties of Asphalt, \$16 Transportation, Economic, and Land Use System, \$6	2105, appears to amend the Intelligent Transportation Infrastructure portion of the TEA-21 program, \$30 (not sure where it is funded from)	5205(h) Transportation Technology Innovation, continues the following earmarks Fundamental Properties of Asphalt, \$18 Transportation, Economic, and Land Use System, \$6 Also includes language regarding use of ROW for ITS projects.
Security R&T Security Related Research and Technology Transfer Activities	---	DOT and DHS to prepare 5-year strategic plan	---
Biobased Transportation Research	---	\$108 to National Biodiesel Board and other research centers	---
Advanced Travel Forecasting Procedures (TRANSIMS)	---	“512, Transportation Analysis Simulation System, continues TRANSIMS development, \$6	5207, continues and accelerates TRANSIMS deployment

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Freight Cooperative Research	---	---	5208, National Cooperative Freight Transportation Research Program, \$21.5 Establishment, agenda, advisory committee, open competition, evaluation of research, dissemination, contents. Administered by NRC. 100% federal share.
Transportation Safety Information Management System (TSIMS)	---	---	5210, \$4, to further development TSIMS. Intended to supplement voluntary contributions to be made by State DOT's and other State safety and transportation agencies.
Surface Transportation Congestion Relief Solutions Research Initiative	---	---	5211, \$59, consisting of two research initiatives: Improved Surface Transportation Congestion Management System Measures, to examine the effectiveness of congestion management systems and to improve models Analytical Techniques for Action on Surface Transportation Congestion to study state DOT and MPO methods of assessing congestion In 2006, FHWA shall develop a technical assistance program in this area to be funded from Training and Education, \$5.5
Motor Carrier Efficiency Study	---	---	5212, \$5 to FMCSA to carry out study

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Centers for Surface Transportation Excellence	---	2103, \$60 Environment (20%) Operations (30%) Surface Transportation Safety (20%) Project Finance (10%) Asset management (20%) To be competitively awarded. Lists entities with which DOT may enter into contracts, cooperative agreements, and other transactions (NAS, AASHTO, planning organizations, federal labs, state agencies, an authority, association, institution, or organization; or for-profit or nonprofit corporation. Strategic plans required.	5610, \$12 Environmental excellence (40%) Rural safety (30%) Project finance (30%) To be competitively awarded. No list of potential grantees provided. Strategic plans required.
Future-SHRP Annual Funding Amount Funding Source Administrative Home Content of Program Implementation Report Program Evaluation	5112 authorizes a study to propose a new SHRP	\$75 million/year from <u>core Title I programs</u> (\$450 million total) \$15 mil/yr Interstate Maintenance \$19 mil/yr NHS \$13 mil/yr bridge \$20 mil/yr STP \$5 mil/yr CMAQ \$3 mil/yr highway safety NRC Four areas in Special Report 260, NCHRP 20-58. Plus several additional safety topics. Refined by stakeholder input. Requires TRB to do an implement report, due 2/1/09. No language.	\$329 Varies by year: \$17, \$60, \$63, \$63, \$63, \$63 M (\$329 million total) Contract authority, from funds provided for Surface Transportation Research NRC Four areas in Special Report 260, NCHRP 20-58. Requires TRB to do an implement report, due 2/1/09. Comptroller General to review program within 3 years of letting first research contracts, regarding how well topics have been addressed.

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Commercial Remote Sensing	5113 Commercial Remote Sensing Products and Spatial Information Technologies, to be carried out in cooperation with NASA, \$60 (authorized to be appropriated, not contract authority)	---	5402 Commercial Remote Sensing Products and Spatial Information Technologies, to be carried out in cooperation with NASA, \$48 (contract authority)
<i>Technology Deployment</i>	<i>5103 Technology Deployment, \$250, <u>in addition</u> to the Surface Transportation Total above</i>	<i>“503, \$360 for the Technology Application Program is included in the Surface Transportation Total shown above and appears to cover the programs listed below</i>	<i>5204 Technology Deployment (\$282) no specific total dollars for this area; the \$282 is from the Research, Technology, and Education total shown above and includes the programs listed below:</i>
	Technology Deployment Initiatives and Partnerships Program, requires the DOT to set specific deployment goals, continue SHRP partnerships, etc.	Technology Application Initiatives and Partnerships Program, requires DOT to set specific goals for technology adoption in consultation with the Surface Transportation Research Technology Advisory committee	---
	---	Innovative Surface Transportation Infrastructure Research and Construction Program	---
Bridge	Innovative Bridge Research and Construction Program, \$108	High-Performance Concrete Bridge Research and Technology Transfer Program, \$36	5202 Innovative Bridge Research and Deployment Program, \$120, with \$12 devoted to high performance concrete bridge technology research and deployment
Other programs			5204(b) Innovative Pavement Research and Deployment Program, \$80, with \$32 to improve NHS pavements 5204(c) Safety Innovative Deployment Program, \$80 5204(d) Wood Composite Materials demonstration Project, \$2
Training & Education	5104, \$102	“504, \$177	5205, \$192
National Highway Institute	\$39	\$79.5	\$50.5

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Local Technical Assistance Program	\$51	\$90	\$82 Grants may cover up to 50% of program costs; tech transfer and training funds from titles 23 and 49 may cover the other 50%. Federal share of tribal centers is 100%.
Eisenhower Transportation Fellowship Program	\$12	\$18	\$14.5
Garrett A. Morgan Technology and Transportation Education Program	---	---	5205(d), \$5.5, to improve preparation of students, especially minorities and women, in areas related to transportation.
Surface Transportation Workforce Development	---	---	5205(e), Surface Transportation Workforce Development Training, and Education, authorizes expenditure of certain Title I funds on education and training activities at 100% federal share 5205(f), \$7.5, Transportation Education Development Pilot Program, establishes a grant program for developing curricula
(Miscellaneous)	5117 Transportation Technology Innovation and Demonstration Program (listed above under Surface Transportation Research)		5205(h), Transportation Technology Innovation, includes research programs funded under Surface Transportation R&D (listed above under Research, Technology, and Education).
Freight Capacity Building	---	---	5206, Freight Planning Capacity Building \$26.5, 100% federal share Establishment, agreements to administer program, stakeholder input, eligible activities.
Surface Transportation Congestion Relief Solutions Technical Assistance and Training	---	---	5211 provides \$5.5 for the training component of this program, which is described under Research, Technology, and Education.

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<i>State Planning and Research</i>	<p>5105</p> <p>2% takedown from certain federal-aid highway programs for state DOTs to carry out planning and research activities.</p> <p>25% minimum to be spent on research, development and technology transfer activities</p> <p>80% federal share.</p>	<p>“505</p> <p>2% takedown from certain federal-aid highway programs for state DOTs to carry out planning and research activities.</p> <p>25% minimum to be spent on research, development and technology transfer activities</p> <p>Federal share applicable under 120(b), (d)</p>	<p><i>No language.</i></p> <p>Existing law stands.</p>
Strategic Planning	<p>5108 Surface Transportation Research Strategic Planning</p> <p>Secretary shall establish a strategic planning process to ensure integrated planning, non-duplication, and independent validation of assumptions.</p> <p>Contents of strategic plan specified, consistent with GPRA documents.</p> <p>NRC review of documents.</p> <p>Report to Congress on merit review and performance measurement.</p> <p>Develop model procurement practices.</p>	<p>“508 Surface Transportation Research Technology Deployment And Strategic Planning</p> <p>Secretary shall establish a strategic planning process to coordinate and measure performance of research under this title.</p> <p>Contents of strategic plan specified, consistent with GPRA documents.</p> <p>NRC/RTCC review of documents and report to Congress. Secretary must respond to review</p> <p>A Surface Transportation Research and Technology Advisory Committee shall be appointed by the Secretary, \$1.2</p>	<p>5213, Transportation Research and Development Strategic Planning</p> <p>Develop 5-year plan.</p> <p>Contents specified, consistent with GPRA documents.</p> <p>NRC review of documents.</p> <p>Stakeholder involvement.</p> <p>Annual report to Congress on actual expenditures and proposed budget for R&T.</p>

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Bureau of Transportation Statistics	5109, \$186	\$168	Subtitle E—Transportation Data and Analysis, \$196
<p>General</p> <p>Intermodal Transportation Data Base</p> <p>National Transportation Library</p> <p>Natl Transportation Atlas Data Base</p> <p>Research and Development Grants</p>	<p>Amendments to responsibilities of BTS</p> <p>Establishment and contents.</p> <p>Establishment, maintenance, access, coordination.</p> <p>Develop & maintain geospatial database.</p> <p>Up to \$0.5/yr</p>	<p>2102, Study of Data Collection and Statistical Analysis Efforts, to be carried out by TRB</p> <p>2104, Motorcycle Crash Causation Study, \$3</p>	<p>Establishes BTS, the position and qualifications of its Director, the responsibilities of BTS in significant detail.</p> <p>Maintenance, use, contents.</p> <p>Establishment, maintenance, access, coordination.</p> <p>Develop & maintain geospatial database.</p> <p>No amount specified for grants.</p> <p>NRC to do an information needs assessment</p> <p>Requires a Transportation Statistics Annual Report</p> <p>Requires an Advisory Council on Transportation Statistics</p>
University Transportation Research	5110, \$158.8	“510 University Transportation Centers, \$265	Subtitle C—University Transportation Research; Scholarship Opportunities. \$409.5
<p>Eligibility Requirements</p> <p>Federal Share</p>	<p>[details omitted from table]</p> <p>50% federal share; may be matched by Technology Deployment, LTAP, or SPR funds</p>	<p>[details omitted from table]</p> <p>Not more than one center per state.</p>	<p>[details omitted from table]</p> <p>50% federal share; may be matched by Technology Deployment, LTAP, or SPR funds</p>

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Centers	<p>Group A (10 regional centers), \$60</p> <p>Group B (8 centers, '98-'01), \$12.8</p> <p>Group C (9 centers, '98-'01), \$27</p> <p>Group D (6 centers), \$72</p> <p>Groups B&C competition (10 centers, '02-'03), \$20</p> <p>The total is greater than \$158.8 because the break-down includes transit funding.</p>	<p>Group A (20 regional centers), \$1,200</p> <p>Group B (11 centers, '04-'07), \$220</p> <p>Group C (11 centers, '04-'07), \$440</p> <p>Group D (9 centers), \$1,200</p> <p>Groups B&C competition (15 centers, '08-'09), \$300.</p> <p>The total for this breakdown is \$3,360, which is much more than the allocated amount. Transit funding is not included.</p>	<p>5301, \$105, 5 National centers, \$105</p> <p>5302:</p> <ul style="list-style-type: none"> • 10 regional centers, \$210 • 10 Tier 1 centers, \$85 • 10 Tier 2 centers, \$50 (not funded in 2004)
Transportation Scholarship Opportunities Program	---	---	5303, may use OIG or DOT funds
Advanced Technologies	5111 Advanced Vehicle Technologies Program, authorizes the DOT to work with a consortium to promote advanced vehicle technologies, \$300 authorized to be appropriated (not contract authority)	---	<p>Subtitle D—Advanced Technologies</p> <p>5401 Advanced heavy-duty vehicle technologies research program, authorizes the DOT to carry out research in this area, requires at least 50% cost sharing, \$16 contract authority (subject to oblim of research title but does not specify a program in the title from which it should be funded).</p>
ITS Research, Standards	Subtitle C—Intelligent Transportation Systems, \$603.2	Subtitle C—Intelligent Transportation Systems Research, \$765	Subtitle F—Intelligent Transportation Systems Research, \$690
Goals and Purposes	5203	2201, “522	5602
General Authorities and Requirements	5204 Advisory Committees, subject to FACA, no other details.	“524 Advisory Committees, subject to FACA. \$9	5603 Advisory Committee, subject to FACA, more details on membership, duties, and reporting
National ITS Program Plan	To be developed and maintained by DOT and ITSA as part of the R&T strategic plan	“525, develop a 5-year plan	---
National Architecture and Standards	5206	“526	5604 Expert panel not subject to FACA
Research and Development	5207	“528	5605

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Multistate Corridor Operations and Managements	---	“511, for Interstate Route I-95 Corridor Coalition Transportation Systems Management and Operations, \$66	---
Road Weather Research and Development Program	---	---	5607, \$24 Establishment, stakeholder input, content from NRC report
Rural Interstate Corridor Communications Study	---	---	5609, \$3, 100% federal To be carried out in cooperation with Commerce, state DOTs and others, regarding feasibility of installing communications infrastructure on Interstates. Specific corridors are given. Report to Congress due 9/30/06
<i>ITS Deployment</i>	<i>\$679</i>	---	<i>\$100 (only funded for FY 2004 to account for existing appropriations from TEA-21 extension; also funded at \$36M in Title 1 programs for 511 in FY's 05-09)</i>
Intelligent Transportation System Integration Program	5208	---	---
Commercial Vehicle ITS projects (CVISN)	5209	“527, Commercial Vehicle Information System and Network Deployment (\$180)	--- (Commercial Vehicle Intelligent Transportation System Infrastructure Deployment, funded with the FMCSA authorizations, not in the R&D title)