

112TH CONGRESS
2D SESSION

H. R. 3833

To reauthorize surface transportation research programs, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JANUARY 27, 2012

Mr. HALL (for himself and Mr. SMITH of Texas) introduced the following bill; which was referred to the Committee on Science, Space, and Technology, and in addition to the Committee on Transportation and Infrastructure, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To reauthorize surface transportation research programs,
and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

4 (a) SHORT TITLE.—This Act may be cited as the
5 “Driving Research through Innovative Viable Economic
6 Solutions Act of 2012” or the “DRIVES Act of 2012”.

7 (b) TABLE OF CONTENTS.—The table of contents for
8 this Act is as follows:

- Sec. 1. Short title; table of contents.
- Sec. 2. Authorization of appropriations.
- Sec. 3. Surface transportation research.
- Sec. 4. Technology deployment.
- Sec. 5. Training and education.
- Sec. 6. Repeals.
- Sec. 7. Transportation research and development strategic planning.
- Sec. 8. Additional repeals.
- Sec. 9. Intelligent transportation systems.
- Sec. 10. Administrative authority.
- Sec. 11. University transportation centers.
- Sec. 12. Bureau of Transportation Statistics.

1 **SEC. 2. AUTHORIZATION OF APPROPRIATIONS.**

2 (a) IN GENERAL.—The following amounts are au-
 3 thorized to be appropriated out of the Highway Trust
 4 Fund:

5 (1) SURFACE TRANSPORTATION RESEARCH.—
 6 To carry out section 502 of title 23, United States
 7 Code, \$141,750,000 for each of fiscal years 2013
 8 through 2016.

9 (2) TECHNOLOGY DEPLOYMENT PROGRAM.—To
 10 carry out section 503 of title 23, United States
 11 Code, \$60,750,000 for each of fiscal years 2013
 12 through 2016.

13 (3) TRAINING AND EDUCATION.—To carry out
 14 section 504 of title 23, United States Code,
 15 \$25,500,000 for each of fiscal years 2013 through
 16 2016.

17 (4) INTELLIGENT TRANSPORTATION SYSTEMS
 18 PROGRAM.—To carry out subtitle C of title V of
 19 SAFETEA-LU, \$110,000,000 for each of fiscal
 20 years 2013 through 2016.

1 (5) UNIVERSITY TRANSPORTATION CENTERS
2 PROGRAM.—To carry out sections 5505, 5506, and
3 5507 of title 49, United States Code, \$75,000,000
4 for each of fiscal years 2013 through 2016.

5 (6) BUREAU OF TRANSPORTATION STATIS-
6 TICS.—To carry out section 111 of title 49, United
7 States Code, \$27,000,000 for each of fiscal years
8 2013 through 2016.

9 (b) APPLICABILITY OF TITLE 23.—Funds authorized
10 to be appropriated by subsection (a) shall—

11 (1) be available for obligation in the same man-
12 ner as if those funds were apportioned under chap-
13 ter 1 of title 23, United States Code, except that the
14 Federal share of the cost of a project or activity car-
15 ried out using those funds shall be 80 percent, un-
16 less otherwise expressly provided by this Act (includ-
17 ing the amendments made by this Act) or otherwise
18 determined by the Secretary;

19 (2) remain available until expended; and

20 (3) not be transferable.

21 (c) OBLIGATION CEILING.—Notwithstanding any
22 other provision of law, the total of all obligations from
23 amounts made available from the Highway Trust Fund
24 by subsection (a) shall be \$440,000,000 for each of fiscal
25 years 2013 through 2016.

1 **SEC. 3. SURFACE TRANSPORTATION RESEARCH.**

2 Section 502 of title 23, United States Code, is
3 amended—

4 (1) in subsection (a)—

5 (A) in paragraph (1)—

6 (i) by inserting “within the innovation
7 lifecycle” after “activities”; and

8 (ii) by inserting “impact analysis,”
9 after “training,”;

10 (B) in paragraph (2)—

11 (i) in subparagraph (B) by striking
12 “supports research in which there is” and
13 insert “delivers”;

14 (ii) in subparagraph (C) by striking
15 “or” after the semicolon;

16 (iii) by redesignating subparagraph
17 (D) as subparagraph (F); and

18 (iv) by inserting after subparagraph
19 (C) the following:

20 “(D) presents the best means to align re-
21 sources with multi-year plans and priorities;

22 “(E) ensures the coordination of highway
23 research and technology transfer activities, in-
24 cluding through activities performed by univer-
25 sity transportation centers; or”;

1 (C) in paragraph (3) by striking subpara-
2 graphs (B) through (D) and inserting the fol-
3 lowing:

4 “(B) partner with State highway agencies
5 and other stakeholders as appropriate, includ-
6 ing international entities, to facilitate research
7 and technology transfer activities;

8 “(C) communicate the results of ongoing
9 and completed research;

10 “(D) lead efforts to coordinate national
11 emphasis areas of highway research, technology,
12 and innovation deployment; and

13 “(E) leverage partnerships with industry,
14 academia, and international entities.”;

15 (D) in paragraph (4)(C) by striking “pol-
16 icy and planning” and inserting “all highway
17 objectives seeking to improve the performance
18 of the transportation system”;

19 (E) by striking paragraph (7) and insert-
20 ing the following:

21 “(7) PERFORMANCE REVIEW AND EVALUA-
22 TION.—

23 “(A) IN GENERAL.—To the maximum ex-
24 tent practicable, all surface transportation re-
25 search and development projects shall include a

1 component of performance measurement and
2 evaluation.

3 “(B) PERFORMANCE MEASURES.—Per-
4 formance measures shall be established during
5 the proposal stage of a research and develop-
6 ment project and shall, to the maximum extent
7 practicable, be outcome-based.

8 “(C) PROGRAM PLAN.—To the maximum
9 extent practicable, each program pursued under
10 this chapter shall be part of a data-driven, out-
11 come-oriented program plan.

12 “(D) AVAILABILITY OF EVALUATIONS.—All
13 evaluations under this paragraph shall be made
14 readily available to the public.”; and

15 (F) in paragraph (8), by striking “sur-
16 face”;

17 (2) in subsection (b)—

18 (A) by striking paragraph (4) and insert-
19 ing the following:

20 “(4) TECHNOLOGICAL INNOVATION.—The Sec-
21 retary shall ensure that the programs and activities
22 carried out under this section are consistent with the
23 transportation research and development strategic
24 plan developed under section 508.”; and

1 (B) in paragraph (6) by adding at the end
2 the following:

3 “(C) TRANSFER OF AMOUNTS AMONG
4 STATES OR TO FEDERAL HIGHWAY ADMINIS-
5 TRATION.—The Secretary may, at the request
6 of a State, transfer amounts apportioned or al-
7 located to that State under this chapter to an-
8 other State or the Federal Highway Adminis-
9 tration to fund research, development, and tech-
10 nology transfer activities of mutual interest on
11 a pooled funds basis.

12 “(D) TRANSFER OF OBLIGATION AUTHOR-
13 ITY.—Obligation authority for amounts trans-
14 ferred under this subsection shall be disbursed
15 in the same manner and for the same amount
16 as provided for the project being transferred.”;

17 (3) in subsection (c)(3)(A) by striking “50”
18 and inserting “80”;

19 (4) by striking subsection (d) and inserting the
20 following:

21 “(d) SURFACE TRANSPORTATION RESEARCH AND
22 DEVELOPMENT PROGRAM.—

23 “(1) OBJECTIVES.—In carrying out the surface
24 transportation research and development program,

1 the Secretary, to address current and emerging
2 highway transportation needs, shall—

3 “(A) identify research topics;

4 “(B) coordinate research and development
5 activities;

6 “(C) carry out research, testing, and eval-
7 uation activities;

8 “(D) ensure program activities are coordi-
9 nated with the transportation research and de-
10 velopment strategic plan developed under sec-
11 tion 508; and

12 “(E) provide technology transfer and tech-
13 nical assistance.

14 “(2) CONTENTS.—

15 “(A) IN GENERAL.—Research and develop-
16 ment activities carried out under this section
17 may include any of the activities in this para-
18 graph.

19 “(B) IMPROVING HIGHWAY SAFETY.—

20 “(i) IN GENERAL.—The Secretary
21 may carry out research and development
22 activities from an integrated perspective to
23 establish and implement systematic meas-
24 ures to improve highway safety.

1 “(ii) OBJECTIVES.—In carrying out
2 this subparagraph, the Secretary may
3 carry out research and development activi-
4 ties—

5 “(I) to achieve greater long-term
6 safety gains;

7 “(II) to reduce the number of fa-
8 talities and serious injuries on public
9 roads;

10 “(III) to fill knowledge gaps that
11 limit the effectiveness of research;

12 “(IV) to support the development
13 and implementation of State strategic
14 highway safety plans;

15 “(V) to advance improvements
16 in, and use of, performance prediction
17 analysis for decisionmaking;

18 “(VI) to expand technology
19 transfer to partners and stakeholders;
20 and

21 “(VII) to enhance rural highway
22 safety.

23 “(C) IMPROVING INFRASTRUCTURE INTEG-
24 RITY.—

1 “(i) IN GENERAL.—The Secretary
2 may carry out and facilitate highway infra-
3 structure research and development activi-
4 ties—

5 “(I) to maintain infrastructure
6 integrity;

7 “(II) to meet user needs; and

8 “(III) to link Federal transpor-
9 tation investments to improvements in
10 system performance.

11 “(ii) OBJECTIVES.—In carrying out
12 this subparagraph, the Secretary may
13 carry out research and development activi-
14 ties—

15 “(I) to reduce the number of fa-
16 talities attributable to infrastructure
17 design characteristics and work zones;

18 “(II) to improve the safety and
19 security of highway infrastructure;

20 “(III) to increase the reliability
21 of lifecycle performance predictions
22 used in infrastructure design, con-
23 struction, and management;

24 “(IV) to improve the ability of
25 transportation agencies to deliver

1 projects that meet expectations for
2 timeliness, quality, and cost;

3 “(V) to reduce user delay attrib-
4 utable to infrastructure system per-
5 formance, maintenance, rehabilitation,
6 and construction;

7 “(VI) to improve highway infra-
8 structure condition and performance
9 through increased use of design, ma-
10 terials, construction, and maintenance
11 innovations;

12 “(VII) to improve the resiliency
13 of roadways to heavy freight traffic;

14 “(VIII) to reduce environmental
15 impacts of highway infrastructure
16 through innovations in design, con-
17 struction, operation, preservation, and
18 maintenance; and

19 “(IX) to study vulnerabilities of
20 the transportation system to seismic
21 activities and extreme events and
22 methods to reduce those
23 vulnerabilities.

1 “(D) REDUCING CONGESTION, IMPROVING
2 HIGHWAY OPERATIONS, AND ENHANCING
3 FREIGHT PRODUCTIVITY.—

4 “(i) IN GENERAL.—The Secretary
5 may carry out research under this sub-
6 paragraph with the goals of—

7 “(I) addressing congestion prob-
8 lems;

9 “(II) reducing the costs of con-
10 gestion;

11 “(III) improving freight move-
12 ment in both rural corridors and met-
13 ropolitan areas;

14 “(IV) increasing productivity;
15 and

16 “(V) improving the economic
17 competitiveness of the United States.

18 “(ii) OBJECTIVES.—In carrying out
19 this subparagraph, the Secretary may
20 carry out research and development activi-
21 ties to identify, develop, and assess innova-
22 tions that have the potential—

23 “(I) to reduce traffic congestion;

1 “(II) to improve freight move-
2 ment in both rural corridors and met-
3 ropolitan areas; and

4 “(III) to reduce freight-related
5 congestion throughout the transpor-
6 tation network.

7 “(E) ASSESSING POLICY AND SYSTEM FI-
8 NANCING ALTERNATIVES.—The Secretary may
9 conduct policy analysis on emerging issues in
10 the transportation community to provide infor-
11 mation to policy-makers and decisionmakers.”;

12 (5) by striking subsection (e) and inserting the
13 following:

14 “(e) EXPLORATORY ADVANCED RESEARCH.—

15 “(1) IN GENERAL.—The Secretary shall estab-
16 lish an exploratory advanced research program, con-
17 sistent with the transportation research and develop-
18 ment strategic plan of the Secretary, that addresses
19 longer-term, higher-risk research with potentially
20 dramatic breakthroughs.

21 “(2) RESEARCH AREAS.—In carrying out the
22 program, the Secretary may make grants and enter
23 into cooperative agreements and contracts in such
24 areas of surface transportation research and tech-
25 nology as the Secretary determines appropriate.

1 “(3) AUTHORIZATION.—Of the amounts author-
2 ized in section 2(a)(1) of the Driving Research
3 through Innovative Viable Economic Solutions Act
4 of 2012, \$14,000,000 for each of fiscal years 2013
5 through 2016 shall be available to carry out this
6 subsection.”;

7 (6) by striking subsections (f), (g), and (j);

8 (7) by redesignating subsections (h) and (i) as
9 subsections (f) and (g), respectively;

10 (8) in subsection (f), as so redesignated—

11 (A) by striking “2006” and inserting
12 “2012”;

13 (B) by inserting “and the Committee on
14 Commerce, Science, and Transportation” after
15 “Public Works”; and

16 (C) by inserting “and the Committee on
17 Science, Space, and Technology” after “Infra-
18 structure”; and

19 (9) by adding at the end the following:

20 “(h) PRIZE COMPETITION.—Consistent with section
21 24 of the Stevenson-Wydler Technology Innovation Act of
22 1980, the Secretary may carry out a program to award
23 prizes competitively to stimulate innovation in the area of
24 surface transportation that has the potential to advance

1 the Federal Highway Administration’s research and tech-
2 nology objectives and activities under section 502.

3 “(i) CENTERS FOR SURFACE TRANSPORTATION EX-
4 CELLENCE.—

5 “(1) ESTABLISHMENT.—The Secretary may es-
6 tablish not more than 4 centers for surface transpor-
7 tation excellence.

8 “(2) GOALS.—The goals of the centers for sur-
9 face transportation excellence are to promote and
10 support strategic national surface transportation
11 programs and activities relating to the work of State
12 departments of transportation.

13 “(3) ROLE OF THE CENTERS.—To achieve the
14 goals set forth in paragraph (2), the Secretary shall
15 establish centers that provide technical assistance,
16 information sharing of best practices, and training
17 in the use of tools and decisionmaking processes that
18 can assist States in effectively implementing surface
19 transportation programs, projects, and policies.

20 “(4) PROGRAM ADMINISTRATION.—

21 “(A) COMPETITION.—A party entering
22 into a contract, cooperative agreement, or other
23 transaction with the Secretary under this sub-
24 section, or receiving a grant to perform re-
25 search or provide technical assistance under

1 this subsection, shall be selected on a competi-
2 tive basis.

3 “(B) STRATEGIC PLAN.—The Secretary
4 shall require each center to develop a multiyear
5 strategic plan, and submit the plan to the Sec-
6 retary at such time as the Secretary requires,
7 that describes—

8 “(i) the activities to be undertaken by
9 the center; and

10 “(ii) how the work of the center will
11 be coordinated with the activities of the
12 Federal Highway Administration and the
13 various other research, development, and
14 technology transfer activities authorized by
15 this chapter.

16 “(5) FUNDING.—Of the amounts made avail-
17 able by section 2(a)(1) of the Driving Research
18 through Innovative Viable Economic Solutions Act
19 of 2012, not more than \$3,000,000 for each of fiscal
20 years 2013 through 2016 shall be available to carry
21 out this subsection.”.

22 **SEC. 4. TECHNOLOGY DEPLOYMENT.**

23 Section 503 of title 23, United States Code, is
24 amended—

1 (1) by redesignating subsection (e) as sub-
2 section (f); and

3 (2) by striking subsections (a) through (d) and
4 inserting the following:

5 “(a) IN GENERAL.—The Secretary shall carry out a
6 technology deployment program relating to all aspects of
7 highway transportation with the goals of—

8 “(1) significantly accelerating the adoption of
9 innovative technologies by the surface transportation
10 community;

11 “(2) providing leadership and incentives to
12 demonstrate and promote state-of-the-art tech-
13 nologies, elevated performance standards, and new
14 business practices in highway construction processes
15 that result in improved safety, faster construction,
16 reduced congestion from construction, and improved
17 quality and user satisfaction;

18 “(3) constructing longer-lasting highways
19 through the use of innovative technologies and prac-
20 tices that lead to faster construction of efficient and
21 safe highways and bridges;

22 “(4) improving highway efficiency, safety, mo-
23 bility, reliability, service life, and environmental pro-
24 tection; and

1 “(5) developing and deploying new tools, tech-
2 niques, and practices to accelerate the adoption of
3 innovation in all aspects of highway transportation.

4 “(b) IMPLEMENTATION.—The Secretary shall pro-
5 mote, facilitate, and carry out the program established
6 under subsection (a) to distribute the products, tech-
7 nologies, tools, methods, or other findings that result from
8 highway research and development activities, including re-
9 search and development activities carried out under this
10 chapter and subtitle C of title V of SAFETEA-LU.

11 “(c) ACCELERATED INNOVATION DEPLOYMENT.—In
12 carrying out the program established under subsection (a),
13 the Secretary shall—

14 “(1) establish and carry out demonstration pro-
15 grams;

16 “(2) provide incentives, technical assistance,
17 and training to researchers and developers; and

18 “(3) develop improved tools and methods to ac-
19 celerate the adoption of proven innovative practices
20 and technologies as standard practices.

21 “(d) GRANTS, COOPERATIVE AGREEMENTS, AND
22 CONTRACTS.—

23 “(1) IN GENERAL.—Under the program, the
24 Secretary may make grants to, and enter into coop-
25 erative agreements and contracts with, States, other

1 Federal agencies, institutions of higher education,
2 private sector entities, and nonprofit organizations
3 to pay the Federal share of the cost of research, de-
4 velopment, and deployment activities.

5 “(2) APPLICATIONS.—To receive a grant under
6 this subsection, an entity described in paragraph (1)
7 shall submit an application to the Secretary. The ap-
8 plication shall be in such form and contain such in-
9 formation and assurances as the Secretary may re-
10 quire.

11 “(3) TECHNOLOGY AND INFORMATION TRANS-
12 FER.—The Secretary shall ensure that the informa-
13 tion and technology resulting from research con-
14 ducted under this subsection is made available to
15 State and local transportation departments and
16 other interested parties as specified by the Sec-
17 retary.

18 “(e) IMPLEMENTATION OF FUTURE STRATEGIC
19 HIGHWAY RESEARCH PROGRAM FINDINGS AND RE-
20 SULTS.—

21 “(1) IN GENERAL.—The Secretary, in consulta-
22 tion with the American Association of State High-
23 way and Transportation Officials and the Transpor-
24 tation Research Board of the National Academy of
25 Sciences, shall, as appropriate, implement the find-

1 ings and recommendations developed under the Stra-
2 tegic Highway Research Program 2 administered by
3 the Transportation Research Board of the National
4 Academy of Sciences.

5 “(2) BASIS FOR FINDINGS.—The activities car-
6 ried out under this subsection shall be based on the
7 Transportation Research Board Special Report 296
8 entitled ‘Implementing the Results of the Second
9 Strategic Highway Research Program: Saving Lives,
10 Reducing Congestion, Improving Quality of Life’.

11 “(3) ADMINISTRATIVE COSTS.—The Secretary
12 may use 1 percent of the funds made available to
13 carry out this subsection for the administrative costs
14 under this subsection.

15 “(4) FEES.—

16 “(A) IN GENERAL.—The Secretary may
17 impose and collect fees to recover costs associ-
18 ated with special data or analysis requests re-
19 lating to safety naturalistic driving databases
20 developed under the future strategic highway
21 research program.

22 “(B) USE OF FEE AMOUNTS.—

23 “(i) IN GENERAL.—Any fees collected
24 under this paragraph shall be made avail-
25 able to the Secretary to carry out this sub-

1 section and shall remain available until ex-
2 pended.

3 “(ii) SUPPLEMENT, NOT SUPPLANT.—
4 Any fee amounts collected under this para-
5 graph shall supplement, but not supplant,
6 amounts made available to the Secretary to
7 carry out this section.”.

8 **SEC. 5. TRAINING AND EDUCATION.**

9 Section 504 of title 23, United States Code, is
10 amended—

11 (1) in subsection (a)—

12 (A) in paragraph (2)(A) by inserting “and
13 the employees of any other applicable Federal
14 agency” after “employees”; and

15 (B) in paragraph (3)(A)(ii)(V) by striking
16 “expediting” and inserting “reducing the
17 amount of time required for”;

18 (2) in subsection (b) by striking paragraph (3)
19 and inserting the following:

20 “(3) FEDERAL SHARE.—

21 “(A) LOCAL TECHNICAL ASSISTANCE CEN-
22 TERS.—

23 “(i) IN GENERAL.—Subject to clause
24 (ii), the Federal share of the cost of any
25 activity carried out by a local technical as-

1 sistance center under paragraphs (1) and
2 (2) shall be 50 percent.

3 “(ii) NON-FEDERAL SHARE.—Up to
4 100 percent of the non-Federal share of
5 the cost of an activity described in clause
6 (i) may consist of amounts provided to a
7 recipient under subsection (e) or section
8 505.

9 “(B) TRIBAL TECHNICAL ASSISTANCE
10 CENTERS.—The Federal share of the cost of an
11 activity carried out by a tribal technical assist-
12 ance center under paragraph (2)(D)(ii) shall be
13 100 percent.”;

14 (3) in subsection (c) by striking paragraph (2)
15 and inserting the following:

16 “(2) DWIGHT DAVID EISENHOWER TRANSPOR-
17 TATION FELLOWSHIP PROGRAM.—

18 “(A) IN GENERAL.—The Secretary shall
19 establish and implement a transportation re-
20 search fellowship program, to be known as the
21 ‘Dwight David Eisenhower Transportation Fel-
22 lowship Program’, for the purpose of attracting
23 qualified students to the field of transportation.

24 “(B) USE OF AMOUNTS.—Amounts pro-
25 vided to an institution of higher education to

1 carry out this paragraph shall be used to pro-
2 vide direct support of student expenses.”;
3 (4) in subsection (d) by striking paragraph (4);
4 (5) in subsection (e)—
5 (A) in paragraph (1)—
6 (i) in the text before subparagraph
7 (A) by striking “sections 104(b)(1),
8 104(b)(2), 104(b)(3), 104(b)(4), and
9 144(e)” and inserting “paragraphs (1)
10 through (3) of section 104(b)”;
11 (ii) in subparagraph (D) by striking
12 “and” after the semicolon;
13 (iii) in subparagraph (E) by striking
14 the period at the end and inserting a semi-
15 colon; and
16 (iv) by adding at the end the fol-
17 lowing:
18 “(F) activities carried out by the National
19 Highway Institute under subsection (a); and
20 “(G) local technical assistance programs
21 under subsection (b).”; and
22 (B) in paragraph (2) by inserting before
23 the period at the end the following: “; except
24 for activities carried out under paragraph

1 (1)(G) for which the Federal share shall be 50
2 percent as described in subsection (b)(3)(A)”;

3 (6) in the heading of subsection (f) by striking
4 “PILOT”; and

5 (7) by adding at the end the following:

6 “(h) DEFINITION.—In this section, the term ‘institu-
7 tion of higher education’ has the meaning given that term
8 in section 101 of the Higher Education Act of 1965 (20
9 U.S.C. 1001).”.

10 **SEC. 6. REPEALS.**

11 Sections 506 and 507 of title 23, United States Code,
12 and the items relating to such sections in the analysis of
13 chapter 55 of such title, are repealed.

14 **SEC. 7. TRANSPORTATION RESEARCH AND DEVELOPMENT**
15 **STRATEGIC PLANNING.**

16 Section 508(a) of title 23, United States Code, is
17 amended to read as follows:

18 “(a) IN GENERAL.—

19 “(1) DEVELOPMENT.—Not later than 1 year
20 after the date of enactment of the Driving Research
21 through Innovative Viable Economic Solutions Act
22 of 2012, the Secretary, acting through the Adminis-
23 trator of the Research and Innovative Technology
24 Administration, shall develop a 5-year transportation
25 research and development strategic plan to guide

1 Federal transportation research and development ac-
2 tivities. This plan shall be consistent with section
3 306 of title 5, sections 1115 and 1116 of title 31,
4 and any other research and development plan within
5 the Department of Transportation.

6 “(2) CONTENTS.—The strategic plan developed
7 under paragraph (1) shall describe the primary pur-
8 poses of the transportation research and develop-
9 ment program, which shall include, at a minimum—

10 “(A) reducing congestion and improving
11 mobility;

12 “(B) promoting safety in both rural cor-
13 ridors and metropolitan areas;

14 “(C) improving goods movement in both
15 rural corridors and metropolitan areas;

16 “(D) protecting and enhancing the envi-
17 ronment;

18 “(E) preserving the existing transportation
19 system;

20 “(F) improving the durability and extend-
21 ing the life of transportation infrastructure; and

22 “(G) improving rural connectivity and mo-
23 bility.”.

1 **SEC. 8. ADDITIONAL REPEALS.**

2 Sections 509 and 510 of title 23, United States Code,
3 and the items relating to such sections in the analysis of
4 chapter 55 of such title, are repealed.

5 **SEC. 9. INTELLIGENT TRANSPORTATION SYSTEMS.**

6 (a) PROGRAM PLAN UPDATE.—Section 512(a)(1) of
7 title 23, United States Code, is amended by striking
8 “SAFETEA-LU” and inserting “Driving Research
9 through Innovative Viable Economic Solutions Act of
10 2012”.

11 (b) PURPOSES.—Section 5303(b) of the SAFETEA-
12 LU is amended—

13 (1) in paragraph (7) by striking “and” after
14 the semicolon;

15 (2) in paragraph (8) by striking the period at
16 the end and inserting “; and”; and

17 (3) by adding at the end the following:

18 “(9) ensure a systems approach that includes
19 cooperation among vehicles, the infrastructure, and
20 users.”.

21 (c) MEMBERSHIP.—Section 5305(h)(2) of the
22 SAFETEA-LU is amended to read as follows:

23 “(2) MEMBERSHIP.—The Advisory Committee
24 shall have not more than 20 members, be balanced
25 between metropolitan and rural interests, and in-
26 clude representatives from state and local highway

1 departments, academia, industry, and other relevant
2 organizations.”.

3 (d) RESEARCH AND DEVELOPMENT.—Section 5306
4 of the SAFETEA-LU is amended—

5 (1) in subsection (b)(3) by striking “systems
6 with goals of” and all that follows through “emer-
7 gency care providers and trauma centers;” and in-
8 serting “systems;”; and

9 (2) in subsection (c) by inserting “percent”
10 after “80”.

11 (e) NATIONAL ARCHITECTURE AND STANDARDS.—
12 Section 5307 of the SAFETEA-LU is amended—

13 (1) in subsection (a) by striking paragraph (4);
14 and

15 (2) by amending subsection (c) to read as fol-
16 lows:

17 “(c) CONFORMITY WITH REGIONAL ARCHITEC-
18 TURE.—

19 “(1) IN GENERAL.—Except as provided in para-
20 graph (2), the Secretary shall ensure that intelligent
21 transportation system projects carried out using
22 amounts made available from the Highway Trust
23 Fund, including amounts made available to deploy
24 intelligent transportation systems, conform to the
25 appropriate regional intelligent transportation sys-

1 tem architecture, applicable standards or provisional
2 standards, and protocols developed under subsection
3 (a) or this subsection.

4 “(2) SECRETARY’S DISCRETION.—The Sec-
5 retary may authorize exceptions to paragraph (1)
6 for—

7 “(A) projects designed to achieve specific
8 research objectives outlined in the national in-
9 telligent transportation system program plan or
10 the surface transportation research and devel-
11 opment strategic plan developed under section
12 508 of title 23, United States Code; or

13 “(B) the upgrade or expansion of an intel-
14 ligent transportation system in existence on the
15 date of enactment of this Act if the Secretary
16 determines that the upgrade or expansion—

17 “(i) would not adversely affect the
18 goals or purposes of this subtitle;

19 “(ii) is carried out before the end of
20 the useful life of such system; and

21 “(iii) is cost-effective as compared to
22 alternatives that would meet the con-
23 formity requirement of paragraph (1).”.

1 (f) VEHICLE-TO-VEHICLE AND VEHICLE-TO-INFRA-
2 STRUCTURE COMMUNICATIONS SYSTEMS DEPLOY-
3 MENT.—

4 (1) IN GENERAL.—Section 5309 of the
5 SAFETEA-LU is amended to read as follows:

6 **“SEC. 5309. VEHICLE-TO-VEHICLE AND VEHICLE-TO-INFRA-
7 STRUCTURE COMMUNICATIONS SYSTEMS DE-
8 PLOYMENT.**

9 “(a) IN GENERAL.—Not later than 3 years after the
10 date of enactment of the Driving Research through Inno-
11 vative Viable Economic Solutions Act of 2012, the Sec-
12 retary shall submit to the Committee on Science, Space,
13 and Technology of the House of Representatives and the
14 Committee on Commerce, Science, and Transportation of
15 the Senate a report that—

16 “(1) describes a recommended implementation
17 path for dedicated short-range communications tech-
18 nology and applications; and

19 “(2) includes guidance on the relationship of
20 the proposed deployment of dedicated short-range
21 communications to the national architecture and
22 standards.

23 “(b) NATIONAL RESEARCH COUNCIL REVIEW.—The
24 Secretary shall enter into an agreement with the National

1 Research Council for the review by the National Research
2 Council of the report described in subsection (a).”.

3 (2) CONFORMING AMENDMENT.—The table of
4 contents of the SAFETEA-LU is amended by strik-
5 ing the item relating to section 5309 and inserting
6 the following:

“Sec. 5309. Vehicle-to-vehicle and vehicle-to-infrastructure communications sys-
tems deployment.”.

7 (g) TECHNICAL CORRECTION.—Section 513(a) of
8 title 23, United States Code, is amended by striking
9 “this”.

10 **SEC. 10. ADMINISTRATIVE AUTHORITY.**

11 Section 112 of title 49, United States Code, is
12 amended by adding at the end the following:

13 “(f) PROGRAM EVALUATION AND OVERSIGHT.—For
14 each of fiscal years 2013 through 2016, the Administrator
15 may expend not more than 1½ percent of the amounts
16 authorized to be appropriated for the administration and
17 operation of the Research and Innovative Technology Ad-
18 ministration to carry out the coordination, evaluation, and
19 oversight of the programs administered by the Administra-
20 tion.

21 “(g) COLLABORATIVE RESEARCH AND DEVELOP-
22 MENT.—

23 “(1) IN GENERAL.—To encourage innovative
24 solutions to multimodal transportation problems and

1 stimulate the deployment of new technology, the Ad-
2 ministrator may carry out, on a cost-shared basis,
3 collaborative research and development with—

4 “(A) non-Federal entities, including State
5 and local governments, foreign governments, in-
6 stitutions of higher education, corporations, in-
7 stitutions, partnerships, sole proprietorships,
8 and trade associations that are incorporated or
9 established under the laws of any State;

10 “(B) Federal laboratories; and

11 “(C) other Federal agencies.

12 “(2) COOPERATION, GRANTS, CONTRACTS, AND
13 AGREEMENTS.—Notwithstanding any other provision
14 of law, the Administrator may directly initiate con-
15 tracts, grants, cooperative research and development
16 agreements (as defined in section 12 of the Steven-
17 son-Wydler Technology Innovation Act of 1980 (15
18 U.S.C. 3710a)), and other agreements to fund, and
19 accept funds from, the Transportation Research
20 Board of the National Research Council of the Na-
21 tional Academy of Sciences, State departments of
22 transportation, cities, counties, institutions of higher
23 education, associations, and the agents of those enti-
24 ties to carry out joint transportation research and
25 technology efforts.

1 “(3) FEDERAL SHARE.—

2 “(A) IN GENERAL.—Subject to subpara-
3 graph (B), the Federal share of the cost of an
4 activity carried out under paragraph (2) shall
5 not exceed 50 percent.

6 “(B) EXCEPTION.—If the Secretary deter-
7 mines that the activity is of substantial public
8 interest or benefit, the Secretary may approve
9 a greater Federal share.

10 “(C) NON-FEDERAL SHARE.—All costs di-
11 rectly incurred by the non-Federal partners, in-
12 cluding personnel, travel, facility, and hardware
13 development costs, shall be credited toward the
14 non-Federal share of the cost of an activity de-
15 scribed in subparagraph (A).

16 “(4) USE OF TECHNOLOGY.—The research, de-
17 velopment, or use of a technology under a contract,
18 grant, cooperative research and development agree-
19 ment, or other agreement entered into under this
20 subsection, including the terms under which the
21 technology may be licensed and the resulting royal-
22 ties may be distributed, shall be subject to the Ste-
23 venson-Wydler Technology Innovation Act of 1980
24 (15 U.S.C. 3701 et seq.).”.

1 **SEC. 11. UNIVERSITY TRANSPORTATION CENTERS.**

2 (a) PROGRAM.—Section 5505 of title 49, United
3 States Code, is amended to read as follows:

4 **“§ 5505. University transportation centers program**

5 “(a) IN GENERAL.—

6 “(1) ESTABLISHMENT AND OPERATION.—The
7 Secretary, acting through the Administrator of the
8 Research and Innovative Technology Administration,
9 shall make grants under sections 5506 and 5507 to
10 institutions of higher education, including multiple
11 institutions of higher education acting in consortia,
12 to establish and operate university transportation
13 centers to address the research topics identified
14 under section 502(d) of title 23.

15 “(2) ROLE OF CENTERS.—The role of each uni-
16 versity transportation center referred to in para-
17 graph (1) shall be—

18 “(A) to advance significant transportation
19 research on critical national transportation
20 issues in the varied disciplines that comprise
21 the field of transportation through research,
22 education, and technology transfer activities;

23 “(B) to provide for a critical transpor-
24 tation knowledge base outside of the Depart-
25 ment of Transportation; and

1 “(C) to address critical workforce needs
2 and educate the next generation of transpor-
3 tation leaders.

4 “(b) COMPETITIVE SELECTION PROCESS.—

5 “(1) APPLICATIONS.—To receive a grant under
6 either section 5506 or 5507, an institution of higher
7 education, or a consortia thereof, shall submit to the
8 Secretary an application that is in such form and
9 contains such information and assurances as the
10 Secretary may require.

11 “(2) SELECTION CRITERIA.—The Secretary
12 shall select each recipient of a grant under section
13 5506 or 5507 through a competitive process based
14 on the assessment of the Secretary relating to—

15 “(A) the demonstrated ability of the recipi-
16 ent to address each specific topic area described
17 in the research and strategic plans of the recipi-
18 ent;

19 “(B) the demonstrated research, education,
20 and technology transfer resources available to
21 the recipient to carry out this section;

22 “(C) the ability of the recipient to provide
23 leadership in solving long-range national and
24 regional transportation problems;

1 “(D) the ability of the recipient to carry
2 out research, education, and technology transfer
3 activities that are multimodal and multidisci-
4 plinary in scope;

5 “(E) the demonstrated ability of the recipi-
6 ent to disseminate results and spur the imple-
7 mentation of transportation research and edu-
8 cation programs through national or statewide
9 continuing education programs;

10 “(F) the demonstrated commitment of the
11 recipient to the use of peer review principles
12 and other research best practices in the selec-
13 tion, management, and dissemination of re-
14 search projects;

15 “(G) the strategic plan submitted by the
16 recipient describing the proposed research to be
17 carried out by the recipient and the perform-
18 ance metrics to be used in assessing the per-
19 formance of the recipient in meeting the stated
20 research and technology transfer goals; and

21 “(H) the ability of the recipient to imple-
22 ment the proposed program in a cost-efficient
23 manner, such as through consortia-based ap-
24 proaches with cost sharing aimed at reducing
25 overhead, facilities, and administrative costs.

1 “(3) ADDITIONAL ELIGIBILITY REQUIRE-
2 MENT.—An institution of higher education that re-
3 ceives a grant for a fiscal year under either section
4 5506 or section 5507 or the lead institution of a
5 consortia of institutions that receives a grant for a
6 fiscal year under section 5506 or section 5507 is in-
7 eligible to receive an additional grant under either
8 section in such fiscal year.

9 “(c) NON-FEDERAL SHARE.—

10 “(1) IN GENERAL.—The non-Federal share of
11 the costs of activities carried out using a grant made
12 under this section shall be 35 percent of such costs.

13 “(2) SOURCE.—The non-Federal share may in-
14 clude amounts made available to a recipient under
15 section 504(b) or 505 of title 23.

16 “(d) PROGRAM COORDINATION.—

17 “(1) IN GENERAL.—The Secretary shall—

18 “(A) coordinate the research, education,
19 and technology transfer activities carried out by
20 grant recipients under this section; and

21 “(B) disseminate the results of that re-
22 search through the establishment and operation
23 of an information clearinghouse.

24 “(2) ANNUAL REVIEW AND EVALUATION.—Not
25 less frequently than annually, and consistent with

1 the transportation research and development stra-
2 tegic plan developed under section 508, the Sec-
3 retary shall review and evaluate the programs car-
4 ried out under this section and sections 5506 and
5 5507 by grant recipients.

6 “(3) PROGRAM EVALUATION AND OVER-
7 SIGHT.—For each of fiscal years 2013 through
8 2016, the Secretary shall expend not more than 1½
9 percent of the amounts made available to the Sec-
10 retary under section 2(a)(4) of the Driving Research
11 through Innovative Viable Economic Solutions Act
12 of 2012 for any coordination, evaluation, and over-
13 sight activities of the Secretary, including efforts to
14 combat waste, fraud, and abuse, under this section,
15 section 5506, and section 5507.

16 “(e) LIMITATION ON AVAILABILITY OF AMOUNTS.—
17 Amounts made available to the Secretary to carry out this
18 section and sections 5506 and 5507 shall remain available
19 for obligation by the Secretary for a period of 2 years after
20 the last day of the fiscal year for which the amounts are
21 appropriated.

22 “(f) INSTITUTION OF HIGHER EDUCATION DE-
23 FINED.—For purposes of this section and sections 5506
24 and 5507, the term ‘institution of higher education’ has

1 the meaning given such term in section 101 of the Higher
2 Education Act of 1965 (20 U.S.C. 1001).”.

3 (b) REGIONAL UNIVERSITY TRANSPORTATION CEN-
4 TERS.—Section 5506 of such title is amended to read as
5 follows:

6 **“§ 5506. Regional university transportation centers**

7 “(a) IN GENERAL.—For each of fiscal years 2013
8 through 2016, the Secretary shall make grants to institu-
9 tions of higher education, or a consortia thereof, to estab-
10 lish and operate 10 regional university transportation cen-
11 ters.

12 “(b) LOCATION.—The Secretary shall make a grant
13 under subsection (a) to the institution, or the lead institu-
14 tion of a consortia, located in each of the 10 United States
15 Government regions that comprise the Standard Federal
16 Regional Boundary System that the Secretary determines
17 best meets the criteria described in section 5505(b).

18 “(c) FUNDING.—For each of fiscal years 2013
19 through 2016, the Secretary may not award a grant under
20 this section that exceeds \$3,500,000.”.

21 (c) UNIVERSITY TRANSPORTATION RESEARCH CEN-
22 TERS.—Subchapter I of chapter 55 of such title is amend-
23 ed by adding at the end the following:

1 **“§ 5507. University transportation research centers**

2 “(a) IN GENERAL.—For each of fiscal years 2013
3 through 2016, the Secretary shall make grants to 20 insti-
4 tutions of higher education or consortia thereof that the
5 Secretary determines best meet the criteria described in
6 section 5505(b).

7 “(b) FUNDING.—For each of fiscal years 2013
8 through 2016, the Secretary may not award a grant under
9 this section that exceeds \$2,000,000.”.

10 (d) CONFORMING AMENDMENT.—The analysis for
11 chapter 55 of title 49, United States Code, is amended
12 by striking the items relating to sections 5505 and 5506
13 and inserting the following:

“5505. University transportation centers program.

“5506. Regional university transportation centers.

“5507. University transportation research centers.”.

14 **SEC. 12. BUREAU OF TRANSPORTATION STATISTICS.**

15 Section 111 of title 49, United States Code, is
16 amended—

17 (1) in subsection (c) by striking paragraph (5)
18 and inserting the following:

19 “(5) TRANSPORTATION STATISTICS.—Col-
20 lecting, compiling, analyzing, and publishing a com-
21 prehensive set of transportation statistics on the per-
22 formance and impacts of the national transportation
23 system, including statistics on—

1 “(A) transportation safety across all modes
2 and intermodally;

3 “(B) the state of good repair of United
4 States transportation infrastructure;

5 “(C) the extent, connectivity, and condition
6 of the transportation system, building on the
7 national transportation atlas database devel-
8 oped under subsection (g);

9 “(D) economic efficiency across the entire
10 transportation sector;

11 “(E) the effects of the transportation sys-
12 tem on global and domestic economic competi-
13 tiveness;

14 “(F) demographic, economic, and other
15 variables influencing travel behavior, including
16 choice of transportation mode and goods move-
17 ment;

18 “(G) transportation-related variables that
19 influence the domestic economy and global com-
20 petitiveness;

21 “(H) economic costs and impacts for pas-
22 senger travel and freight movement;

23 “(I) intermodal and multimodal passenger
24 movement; and

1 “(J) consequences of transportation for the
2 environment.”;

3 (2) by striking subsection (d) and inserting the
4 following:

5 “(d) ACCESS TO FEDERAL DATA.—In carrying out
6 subsection (c), the Director shall be provided access to all
7 transportation and transportation-related information and
8 data, including that related to safety, held by any agency
9 of the Department of Transportation and, upon written
10 request and subject to any statutory or regulatory restric-
11 tions, to all such data held by any other Federal Govern-
12 ment agency, that is germane to carrying out subsection
13 (c).”;

14 (3) by striking subsection (f) and inserting the
15 following:

16 “(f) NATIONAL TRANSPORTATION LIBRARY.—

17 “(1) IN GENERAL.—To support the information
18 management and decisionmaking needs of transpor-
19 tation officials at the Federal, State, and local levels,
20 the Bureau of Transportation Statistics shall main-
21 tain a National Transportation Library that shall—

22 “(A) be headed by an individual who is
23 highly qualified in library and information
24 science;

1 “(B) acquire, preserve, and manage trans-
2 portation information and information products
3 and services for use by the Department, other
4 Federal agencies, and the general public;

5 “(C) provide reference and research assist-
6 ance;

7 “(D) serve as a central depository for re-
8 search results and technical publications of the
9 Department;

10 “(E) provide a central clearinghouse for
11 transportation data and information of the Fed-
12 eral Government;

13 “(F) serve as coordinator and policy lead
14 for transportation data and information of the
15 Federal Government;

16 “(G) provide transportation information
17 and information products and services to—

18 “(i) the Department;

19 “(ii) other Federal agencies;

20 “(iii) public and private organizations;

21 and

22 “(iv) individuals, within the United
23 States as well as internationally;

24 “(H) coordinate efforts among, and co-
25 operate with, transportation libraries, informa-

1 tion providers, and technical assistance centers,
2 with the goal of developing a comprehensive
3 transportation information and knowledge net-
4 work that supports the activities described in
5 subsection (c)(5); and

6 “(I) engage in such other activities as the
7 Director determines to be necessary and as the
8 resources of the Library permit.

9 “(2) ACCESS.—The Director shall publicize, fa-
10 cilitate, and promote access to the products and
11 services described in subsection (a), with the goal of
12 improving the ability of the transportation commu-
13 nity to share information and the ability of the Di-
14 rector to make statistics readily accessible under
15 subsection (c)(9).

16 “(3) AGREEMENTS.—

17 “(A) IN GENERAL.—To carry out this sub-
18 section, the Director may enter into agreements
19 with, provide grants to, and receive amounts
20 from, any—

21 “(i) State or local government;

22 “(ii) organization;

23 “(iii) business; or

24 “(iv) individual.

1 “(B) CONTRACTS, GRANTS, AND AGREE-
2 MENTS.—The Library may initiate and support
3 specific information and data management, ac-
4 cess, and exchange activities relating to the
5 strategic goals of the Department, knowledge
6 networking, and national and international co-
7 operation, by entering into contracts or other
8 agreements or providing grants.

9 “(C) AMOUNTS.—Any amounts received by
10 the Library as payment for library products
11 and services or other activities shall be made
12 available to the Director to carry out this sub-
13 section and remain available until expended.”;

14 (4) by striking subsection (m);

15 (5) by redesignating subsections (n) and (o) as
16 subsections (m) and (n), respectively;

17 (6) in subsection (m) (as so redesignated) by
18 striking “(other than the Mass Transit account)”;

19 (7) in subsection (n) (as so redesignated)—

20 (A) in paragraph (2)—

21 (i) by adding “and” after the semi-
22 colon in subparagraph (A);

23 (ii) by striking subparagraph (B); and

24 (iii) by redesignating subparagraph
25 (C) as subparagraph (B); and

1 (B) by striking paragraph (3) and insert-
2 ing the following:

3 “(3) MEMBERSHIP.—The advisory council es-
4 tablished under this subsection shall be composed of
5 not fewer than 9 and not more than 11 members ap-
6 pointed by the Director, who are not officers or em-
7 ployees of the United States. Members shall include
8 representation of a cross-section of transportation
9 community stakeholders and shall include individuals
10 with expertise or knowledge of statistics, economics,
11 transportation safety, or transportation data anal-
12 ysis, collection, or application.”; and

13 (8) by adding at the end the following:

14 “(o) TRANSPORTATION STATISTICAL COLLECTION,
15 ANALYSIS, AND DISSEMINATION.—To ensure that all
16 transportation statistical collection, analysis, and dissemi-
17 nation is carried out in a coordinated manner, the Director
18 may—

19 “(1) use the services, equipment, records, per-
20 sonnel, information, and facilities of other Federal
21 agencies, or State, local, and private agencies and
22 instrumentalities, subject to the conditions that the
23 applicable agency or instrumentality consents to that
24 use;

1 “(2) enter into agreements with the agencies
2 and instrumentalities described in paragraph (1) for
3 purposes of data collection and analysis;

4 “(3) confer and cooperate with foreign govern-
5 ments, international organizations, and State, mu-
6 nicipal, and other local agencies;

7 “(4) request such information, data, and re-
8 ports from any Federal agency as the Director de-
9 termines necessary to carry out this section, includ-
10 ing by entering into cooperative data sharing agree-
11 ments in conformity with all laws and regulations
12 applicable to the disclosure and use of data; and

13 “(5) encourage replication, coordination, and
14 sharing among transportation agencies regarding in-
15 formation systems, information policy, and data.

16 “(p) FURNISHING OF INFORMATION, DATA, OR RE-
17 PORTS BY FEDERAL AGENCIES.—Except in a case in
18 which the disclosure of information, data, or reports by
19 a Federal agency is expressly prohibited by law, a Federal
20 agency requested to furnish information, data, or reports
21 under subsection (d) shall provide such information to the
22 Bureau.”.

○