

119TH CONGRESS  
1ST SESSION

**S.** \_\_\_\_\_

To amend title 49, United States Code, with respect to the safety of driving automation systems, and for other purposes.

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IN THE SENATE OF THE UNITED STATES

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Mr. MARKEY introduced the following bill; which was read twice and referred to the Committee on \_\_\_\_\_

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**A BILL**

To amend title 49, United States Code, with respect to the safety of driving automation systems, 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.**

4       This Act may be cited as the “Stay in Your Lane  
5       Act”.

6       **SEC. 2. OPERATIONAL DESIGN DOMAIN RESTRICTION FOR**  
7       **DRIVING SYSTEMS.**

8       (a) SAFE DOMAINS FOR DRIVING AUTOMATION SYS-  
9       TEMS.—

1           (1) IN GENERAL.—Subchapter II of chapter  
2           301 of title 49, United States Code, is amended by  
3           adding at the end the following:

4   **“§ 30130. Safe domains for driving automation sys-**  
5           **tems**

6           “(a) DEFINITIONS.—In this section:

7           “(1) ADMINISTRATOR.—The term ‘Adminis-  
8           trator’ means the Administrator of the National  
9           Highway Traffic Safety Administration.

10          “(2) DRIVING AUTOMATION SYSTEM.—The  
11          term ‘driving automation system’ means the hard-  
12          ware and software that are collectively capable of si-  
13          multaneously performing all of the lateral and longi-  
14          tudinal vehicle motor control subtasks of the dy-  
15          namic driving task of a motor vehicle on a sustained  
16          basis.

17          “(3) OPERATIONAL DESIGN DOMAIN.—The  
18          term ‘operational design domain’ means operating  
19          conditions, as defined by the manufacturer, under  
20          which a driving automation system, or feature there-  
21          of, is specifically designed to function safely, includ-  
22          ing—

23                  “(A) environmental, geographical, and  
24                  time-of-day restrictions; and

1                   “(B) the requisite presence or absence of  
2                   certain traffic, road users, or roadway charac-  
3                   teristics.

4                   “(4) SAFELY.—The term ‘safely’, with respect  
5                   to motor vehicle safety, means presenting no more  
6                   than an inconsequential risk.

7                   “(b) OPERATIONAL DESIGN DOMAIN.—Each manu-  
8                   facturer of a driving automation system shall ensure that  
9                   the driving automation system does not operate outside  
10                  of its operational design domain.

11                  “(c) DECLARATIONS.—

12                  “(1) IN GENERAL.—Each manufacturer of a  
13                  driving automation system shall—

14                         “(A) define the operational design domain  
15                         as the conditions under which the driving auto-  
16                         mation system, or feature thereof, is designed  
17                         to function safely; and

18                         “(B) submit to the Administrator a dec-  
19                         laration of that definition.

20                  “(2) PUBLICATION.—Each manufacturer of a  
21                  driving automation system shall make the declara-  
22                  tion submitted by the manufacturer under para-  
23                  graph (1)(B) available on a publicly accessible  
24                  website of the manufacturer, which shall be the

1 exact declaration submitted to the Administrator  
2 under that paragraph.”.

3 (2) CLERICAL AMENDMENT.—The analysis for  
4 subchapter II of chapter 301 of title 49, United  
5 States Code, is amended by inserting after the item  
6 relating to section 30129 the following:

“Sec. 30130. Safe domains for driving automation systems.”.

7 (b) CIVIL PENALTIES.—Section 30165(a)(1) of title  
8 49, United States Code, is amended, in the first sentence,  
9 by inserting “30130(b),” after “30127,”.

10 (c) LIMITED DEFINITION OF MOTOR VEHICLE SAFE-  
11 TY STANDARD.—Section 30102(b) of title 49, United  
12 States Code, is amended—

13 (1) in paragraph (1)—

14 (A) by redesignating subparagraphs (C)  
15 through (H) as subparagraphs (D) through (I),  
16 respectively; and

17 (B) by inserting after subparagraph (B)  
18 the following:

19 “(C) ‘motor vehicle safety standard’ in-  
20 cludes a requirement described in subsections  
21 (b) and (c)(1) of section 30130;” and

22 (2) in paragraph (2), by striking “paragraph  
23 (1)(C), (D), (F), or (G) of this subsection” and in-  
24 serting “subparagraph (D), (E), (G), or (H) of  
25 paragraph (1)”.

1       (d) EFFECTIVE DATE.—This Act and the amend-  
2   ments made by this Act shall take effect on the date that  
3   is 180 days after the date of enactment of this Act.