

119TH CONGRESS
1ST SESSION

H. R. 3647

To direct the Administrator of the Federal Railroad Administration to conduct a study to identify potential benefits and challenges of implementing and using sensors enabled with artificial intelligence as a safety measure at rail crossings, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MAY 29, 2025

Mr. MULLIN introduced the following bill; which was referred to the
Committee on Transportation and Infrastructure

A BILL

To direct the Administrator of the Federal Railroad Administration to conduct a study to identify potential benefits and challenges of implementing and using sensors enabled with artificial intelligence as a safety measure at rail crossings, 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 “Study on AI For En-
5 hanced Crossing Safety Act” or the “SAFE CROSS Act”.

1 **SEC. 2. STUDY ON AI-ENABLED SENSORS AT RAIL CROSS-**
2 **INGS.**

3 (a) STUDY.—Not later than 1 year after the date of
4 enactment of this Act, the Administrator of the Federal
5 Railroad Administration, acting through the Associate Ad-
6 ministrator for Railroad Safety, shall conduct a study to
7 identify any potential benefits and challenges of imple-
8 menting and using sensors enabled with artificial intel-
9 ligence at rail crossings as a safety measure to reduce pe-
10 destrian and traffic accidents.

11 (b) ELEMENTS.—The study in subsection (a) shall
12 include the following:

13 (1) A review by the Administrator of—

14 (A) any existing pilot program regarding
15 the implementation of sensors enabled with ar-
16 tificial intelligence at rail crossings; and

17 (B) any deployment of such sensors at rail
18 crossings.

19 (2) A cost-benefit analysis comparing sensors
20 enabled with artificial intelligence and other safety
21 enhancement measures that may be used at rail
22 crossings, such as grade separations.

23 (3) Identification by the Administrator of best
24 practices with respect to implementing and using
25 sensors enabled with artificial intelligence at rail
26 crossings.

1 (c) PUBLICATION.—Not later than 30 days after the
2 date on which the study under subsection (a) is complete,
3 the Administrator shall publish to a publicly accessible
4 website of the Office of Railroad Safety of the Federal
5 Railroad Administration—

6 (1) the results of the study; and

7 (2) best practices and recommendations of the
8 Administrator with respect to implementing and
9 using sensors enabled with artificial intelligence at
10 rail crossings for use by—

11 (A) Federal, State, Tribal, and local gov-
12 ernmental entities that regulate rail crossing
13 safety; and

14 (B) any private entity that is legally re-
15 quired to maintain safety technology at rail
16 crossings.

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