

1 **SENATE FLOOR VERSION**

2 February 22, 2022

3 COMMITTEE SUBSTITUTE  
4 FOR

5 SENATE BILL NO. 1541

By: Rosino of the Senate

and

Martinez of the House

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9 An Act relating to motor vehicles; allowing for  
10 operation of fully autonomous vehicles; stating  
11 conditions for operation; requiring submission of law  
12 enforcement interaction plan prior to operation;  
13 describing contents of plan; authorizing the  
14 Department of Public Safety to promulgate certain  
15 rules; requiring fully autonomous vehicles submit  
16 proof of financial responsibility of a certain  
17 amount; requiring vehicle to remain on the scene of  
18 certain accidents; requiring owner report certain  
19 accidents; allowing certain entities to operate on-  
20 demand autonomous vehicle network; making certain  
21 exception; requiring registration as an autonomous  
22 vehicle; requiring proper titling; requiring titling  
23 as an autonomous vehicle; allowing for operation of  
24 certain autonomous vehicles under certain conditions;  
allowing for human control of autonomous vehicles;  
allowing for operation of fully autonomous commercial  
vehicles; allowing fully autonomous vehicles certain  
equipment exemptions; providing for exclusive  
governance of fully autonomous vehicles and automated  
driving systems; authorizing the promulgation of  
rules; amending 47 O.S. 2021, Section 6-102, which  
relates to persons exempt; stating that an automated  
driving system is a licensed driver of the vehicle it  
is installed upon; amending 47 O.S. 2021, Section  
1701, which relates to definitions; modifying  
definitions; defining terms; amending 47 O.S. 2021,  
Section 1702, which relates to state law preempting  
county and municipal laws; updating statutory

1 language; providing for codification; and providing  
2 an effective date.

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4 BE IT ENACTED BY THE PEOPLE OF THE STATE OF OKLAHOMA:

5 SECTION 1. NEW LAW A new section of law to be codified  
6 in the Oklahoma Statutes as Section 1703 of Title 47, unless there  
7 is created a duplication in numbering, reads as follows:

8 A. A person, as defined in Section 1701 of Title 47 of the  
9 Oklahoma Statutes, may operate a fully autonomous vehicle on the  
10 public roads of this state without a human driver provided that the  
11 automated driving system is engaged and the vehicle meets the  
12 following conditions:

13 1. If a failure of the automated driving system occurs that  
14 renders that system unable to perform the entire dynamic driving  
15 task relevant to its intended operational design domain, the fully  
16 autonomous vehicle will achieve a minimal risk condition;

17 2. The fully autonomous vehicle is capable of operating in  
18 compliance with the applicable traffic and motor vehicle safety laws  
19 and regulations of this state, unless an exemption has been granted  
20 by the Department of Public Safety or its designee; and

21 3. When required by federal law, the vehicle bears the required  
22 manufacturer's certification label indicating that at the time of  
23 its manufacture it has been certified to be in compliance with all  
24 applicable Federal Motor Vehicle Safety Standards including

1 reference to any exemption granted by the National Highway Traffic  
2 Safety Administration.

3 B. Prior to operating a fully autonomous vehicle on the public  
4 roads of this state without a human driver, a person shall submit to  
5 the Department of Public Safety a law enforcement interaction plan  
6 that contains, but shall not be limited to, information that  
7 describes:

8 1. How to communicate with a fleet support specialist who is  
9 available during the times the vehicle is in operation;

10 2. How to safely remove the fully autonomous vehicle from the  
11 roadway;

12 3. How to recognize whether the fully autonomous vehicle is in  
13 autonomous mode and steps to safely tow the vehicle; and

14 4. Any additional information the manufacturer or owner deems  
15 necessary regarding the hazardous conditions or public safety risks  
16 associated with the operation of the fully autonomous vehicle.

17 C. The Department is authorized to promulgate rules regarding  
18 the contents of the law enforcement interaction plan described in  
19 subsection B of this section.

20 SECTION 2. NEW LAW A new section of law to be codified  
21 in the Oklahoma Statutes as Section 1704 of Title 47, unless there  
22 is created a duplication in numbering, reads as follows:

23 Before operating a fully autonomous vehicle on public roads in  
24 this state without a human driver, a person shall submit proof of

1 financial responsibility satisfactory to the Department of Public  
2 Safety that the fully autonomous vehicle is covered by insurance or  
3 proof of self-insurance of at least One Million Dollars  
4 (\$1,000,000.00) which shall satisfy the requirements of the  
5 Compulsory Insurance Law pursuant to Section 7-600 et seq. of Title  
6 47 of the Oklahoma Statutes.

7 SECTION 3. NEW LAW A new section of law to be codified  
8 in the Oklahoma Statutes as Section 1705 of Title 47, unless there  
9 is created a duplication in numbering, reads as follows:

10 In the event of an accident:

11 1. The fully autonomous vehicle shall remain on the scene of  
12 the accident when required by Section 10-107 or 10-108 of Title 47  
13 of the Oklahoma Statutes, consistent with its capability under  
14 Section 1 of this act; and

15 2. The owner of the fully autonomous vehicle, or a person on  
16 behalf of the vehicle owner, shall report any accidents or  
17 collisions consistent with Section 10-107 or 10-108 of Title 47 of  
18 the Oklahoma Statutes.

19 SECTION 4. NEW LAW A new section of law to be codified  
20 in the Oklahoma Statutes as Section 1706 of Title 47, unless there  
21 is created a duplication in numbering, reads as follows:

22 An on-demand autonomous vehicle network shall be permitted to  
23 operate pursuant to state laws governing the operation of  
24 transportation network companies, taxis, or any other ground

1 transportation for hire of passengers, with the exception that any  
2 provision of the Oklahoma Transportation Network Company Services  
3 Act pursuant to Section 1010 et seq. of Title 47 of the Oklahoma  
4 Statutes that reasonably applies only to a human driver would not  
5 apply to the operation of a fully autonomous vehicle with the  
6 automated driving system engaged on an on-demand autonomous vehicle  
7 network.

8 SECTION 5. NEW LAW A new section of law to be codified  
9 in the Oklahoma Statutes as Section 1707 of Title 47, unless there  
10 is created a duplication in numbering, reads as follows:

11 A. A fully autonomous vehicle shall be properly registered in  
12 accordance with the Oklahoma Vehicle License and Registration Act  
13 pursuant to Section 1101 et seq. of Title 47 of the Oklahoma  
14 Statutes. If a fully autonomous vehicle is registered in this  
15 state, the vehicle shall be identified on the registration as a  
16 fully autonomous vehicle.

17 B. A fully autonomous vehicle shall be properly titled in  
18 accordance with the Oklahoma Vehicle License and Registration Act.  
19 If a fully autonomous vehicle is titled in this state, the vehicle  
20 shall be identified on the title as a fully autonomous vehicle.

21 SECTION 6. NEW LAW A new section of law to be codified  
22 in the Oklahoma Statutes as Section 1708 of Title 47, unless there  
23 is created a duplication in numbering, reads as follows:

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1 A. A person may operate a motor vehicle equipped with an  
2 automated driving system capable of performing the entire dynamic  
3 driving task if:

4 1. Such automated driving system will issue a request to  
5 intervene whenever the automated driving system is not capable of  
6 performing the entire dynamic driving task with the expectation that  
7 the person will respond appropriately to such a request; and

8 2. The automated driving system is capable of being operated in  
9 compliance with Sections 11-101 through 11-1404 of Title 47 of the  
10 Oklahoma Statutes unless an exemption has been granted by the  
11 Department of Public Safety.

12 B. Nothing in this act prohibits or restricts a human driver  
13 from operating a fully autonomous vehicle equipped with controls  
14 that allow for the human driver to control all or part of the  
15 dynamic driving task.

16 SECTION 7. NEW LAW A new section of law to be codified  
17 in the Oklahoma Statutes as Section 1709 of Title 47, unless there  
18 is created a duplication in numbering, reads as follows:

19 A fully autonomous vehicle that is also a commercial motor  
20 vehicle pursuant to Sections 161A through 230.34b of Title 47 of the  
21 Oklahoma Statutes may operate pursuant to state laws governing the  
22 operation of commercial motor vehicles, except that any provision  
23 that by its nature reasonably applies only to a human driver does  
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1 not apply to such a vehicle operating with the automated driving  
2 system engaged.

3 SECTION 8. NEW LAW A new section of law to be codified  
4 in the Oklahoma Statutes as Section 1710 of Title 47, unless there  
5 is created a duplication in numbering, reads as follows:

6 A fully autonomous vehicle that is designed to be operated  
7 exclusively by the automated driving system for all trips is not  
8 subject to motor vehicle equipment laws or regulations of this state  
9 that:

- 10 1. Relate to or support motor vehicle operation by a human  
11 driver seated in the vehicle; and
- 12 2. Are not relevant for an automated driving system.

13 SECTION 9. NEW LAW A new section of law to be codified  
14 in the Oklahoma Statutes as Section 1711 of Title 47, unless there  
15 is created a duplication in numbering, reads as follows:

16 Unless otherwise provided in this title and notwithstanding any  
17 other provision of law, fully autonomous vehicles and automated  
18 driving systems are governed exclusively by this act. The  
19 Department of Public Safety and the Department of Transportation are  
20 authorized to promulgate administrative rules to implement the  
21 provisions of this act.

22 SECTION 10. AMENDATORY 47 O.S. 2021, Section 6-102, is  
23 amended to read as follows:

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1 Section 6-102. A. A nonresident who is sixteen (16) years of  
2 age or older may operate a motor vehicle in this state as authorized  
3 by the class, restrictions, and endorsements specified on the  
4 license, if the nonresident is:

5 1. Properly licensed in the home state or country to operate a  
6 commercial or noncommercial motor vehicle and who has immediate  
7 possession of a valid driver license issued by the home state or  
8 country; or

9 2. A member of the Armed Forces of the United States or the  
10 spouse or dependent of such member who has been issued and is in  
11 possession of a valid driver license issued by an overseas component  
12 of the Armed Forces of the United States.

13 B. A resident who is at least fifteen (15) years of age may  
14 operate a vehicle in this state without a driver license, if the  
15 resident is:

16 1. Operating a vehicle pursuant to subsection B of Section 6-  
17 105 of this title; or

18 2. Taking the driving skills examination as required by Section  
19 6-110 of this title, when accompanied by a Driver License Examiner  
20 of the Department of Public Safety or by a designated examiner  
21 approved and certified by the Department.

22 C. Any person, while in the performance of official duties, may  
23 operate any class of motor vehicle if the person possesses any class  
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1 of valid Oklahoma driver license or a valid driver license issued by  
2 another state, if the person is:

3 1. A member of the Armed Forces of the United States who is on  
4 active duty;

5 2. A member of the military reserves, not including United  
6 States reserve ~~technician~~ technicians;

7 3. A member of the National Guard who is on active duty~~7~~  
8 including National Guard military technicians;

9 4. A member of the National Guard who is on part-time National  
10 Guard training~~7~~ including National Guard military technicians; or

11 5. A member of the United States Coast Guard who is on active  
12 duty.

13 D. The Commissioner of Public Safety is hereby authorized to  
14 adopt rules as may be necessary to enter into reciprocity agreements  
15 with foreign countries. The rules shall specify that the driver  
16 license standards of the foreign country shall be comparable to  
17 those of this state. The rules shall also require foreign drivers,  
18 who are operating a motor vehicle in Oklahoma under such a  
19 reciprocity agreement, to comply with the compulsory motor vehicle  
20 liability insurance and financial responsibility laws of this state.

21 E. When an automated driving system, as defined by Section 1701  
22 of this title, installed on a motor vehicle is engaged, the  
23 following shall apply:

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1        1. The automated driving system is considered the driver or  
2 operator, for the purpose of assessing compliance with applicable  
3 traffic or motor vehicle laws, and shall be deemed to satisfy  
4 electronically all physical acts required by a driver or operator of  
5 the vehicle; and

6        2. The automated driving system is considered to be licensed to  
7 operate the vehicle.

8        SECTION 11.        AMENDATORY        47 O.S. 2021, Section 1701, is  
9 amended to read as follows:

10        Section 1701. As used in this act:

11        A. ~~“Driving automation system”~~ “Automated driving system or  
12 ADS” means hardware and software that are collectively capable of  
13 performing ~~part or~~ the entire dynamic task on a sustained basis,  
14 regardless of whether it is limited to a specific operational design  
15 domain. ~~The term driving automation system is used generally to~~  
16 ~~describe any system capable of level 1-5 driving automation, as~~  
17 ~~specified in SAE International Recommended Practice J3016 including,~~  
18 ~~but not limited to, core vehicle functions as listed in this~~  
19 ~~section.~~

20        B. “Dynamic driving task” or “DDT” means all of the real-time  
21 operational and tactical functions required to operate a vehicle in  
22 on-road traffic, excluding the strategic functions such as trip  
23 scheduling and selection of destinations and waypoints and including  
24 without limitation:

- 1 1. Lateral vehicle motion control via steering;
- 2 2. Longitudinal vehicle motion control via acceleration and
- 3 deceleration;
- 4 3. Monitoring the driving environment via object and event
- 5 detection, recognition, classification and response preparation;
- 6 4. Object and event response execution;
- 7 5. Maneuver planning; and
- 8 6. Enhancing conspicuity via lighting, signaling and gesturing.

9 C. "DDT fallback" means the response by the person or human  
10 driver to either perform the DDT or achieve a minimal risk condition  
11 after occurrence of a DDT performance-relevant system failure(s) or  
12 upon operation design domain exit, or the response by an automated  
13 driving system to achieve minimal risk condition, given the same  
14 circumstances.

15 D. "Fully autonomous vehicle" means a motor vehicle equipped  
16 with an automated driving system designed to function without a  
17 human driver as a level 4 or 5 system under SAE J3016B.

18 E. "Human driver" means a natural person in the vehicle with a  
19 valid license to operate a motor vehicle who controls all or part of  
20 the dynamic driving task.

21 F. "Minimal risk condition" means a condition to which a  
22 person, human driver, or an ADS may bring a vehicle after performing  
23 the DDT fallback in order to reduce the risk of a crash when a given  
24 trip cannot or should not be completed.

1        G. "On-demand autonomous vehicle network" means a  
2 transportation service network that uses a software application or  
3 other digital means to dispatch or otherwise enable the  
4 prearrangement of transportation with fully autonomous vehicles for  
5 purposes of transporting passengers or goods including for-hire  
6 transportation and transportation of passengers or goods for  
7 compensation.

8        H. "Operational design domain" or "ODD" means operating  
9 conditions under which a given automated driving system is  
10 specifically designed to function including, but not limited to,  
11 environmental, geographical, and time-of-day restrictions, and the  
12 requisite presence or absence of certain traffic or roadway  
13 characteristics.

14        I. "Person" means a natural person, corporation, business  
15 trust, estate, trust, partnership, limited liability company,  
16 association, joint venture, governmental agency, public corporation,  
17 or any other legal or commercial entity.

18        J. "Request to intervene" means notification by an automated  
19 driving system to a human driver that the human driver should  
20 promptly begin or resume performance of part or all of the dynamic  
21 driving task.

22        K. "SAE J3016B" means the Taxonomy and Definitions for Terms  
23 Related to Driving Automation Systems for On-Road Motor Vehicles  
24 published by SAE International in June 2018.

1 SECTION 12. AMENDATORY 47 O.S. 2021, Section 1702, is  
2 amended to read as follows:

3 Section 1702. A. Only the State of Oklahoma may enact a law or  
4 take any other action to regulate the operation of motor vehicles  
5 equipped with ~~driving automation~~ automated driving systems in  
6 Oklahoma.

7 B. Pursuant to subsection A of this section, the State of  
8 Oklahoma:

9 1. Preempts the authority of a county or municipality to  
10 prohibit, restrict or regulate the operation of motor vehicles  
11 equipped with ~~driving automation~~ automated driving systems on the  
12 basis of those vehicles being equipped with ~~driving automation~~  
13 automated driving systems; and

14 2. Supersedes any existing law or ordinance of a county or  
15 municipality that prohibits, restricts or regulates the testing or  
16 operation of motor vehicles equipped with ~~driving automation~~  
17 automated driving systems.

18 SECTION 13. This act shall become effective November 1, 2022.

19 COMMITTEE REPORT BY: COMMITTEE ON TRANSPORTATION  
20 February 22, 2022 - DO PASS AS AMENDED

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