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### **TESLA AUTOPILOT: ITS SAFETY AND LATEST SOFTWARE IMPROVEMENTS**

Tesla began developing Autopilot more than seven years ago as an effort to meet new safety standards in Europe. It requires technology such as automatic braking, according to three people familiar with the origins of the project.

At Autopilot’s official announcement in October 2014, Tesla said that the system would brake automatically and keep the car in a lane but added that “the driver is still responsible for, and ultimately in control of, the car.” It said that self-driving cars were “still years away from becoming a reality.”

It should be noted that many accidents have occurred while drivers were using the existing technology. Tesla have had difficulty identifying emergency vehicles with flashing lights, flares, illuminated arrow boards, or traffic cones near them while in Autopilot.

After the NHTSA test, Tesla updated Autopilot in September with the aim of addressing the issue of crashing into stopped emergency vehicles. When switched on, Autopilot keeps a Tesla centered in its lane and watches the car ahead to keep a steady distance but it requires full driver attention. In its letters to the company, NHTSA told Tesla that the company must recall vehicles if a software update fixes a safety defect. After all the updates and fixes, Tesla autopilot works fine and prevents a lot of car accidents.

Moreover, the new autopilot allows the car to steer, accelerate, and brake within its lane. It uses the car’s eight cameras, 12 ultrasonic sensors, a radar, and an onboard computer to read lane paint on the road and detect surrounding cars. All new Tesla vehicles from 2020 are equipped with the Full Self-Driving computer.

Elon Musk says, owners will gain access to the technology the name promises, although even Tesla admits it still will not be fully self-driving.