



De herziening van EU verordening voor

algemene veiligheid van voertuigen en de  
bescherming van de inzittenden van voertuigen en  
**kwetsbare weggebruikers**

<https://eur-lex.europa.eu/legal-content/NL/TXT/PDF/?uri=CELEX:32019R2144>

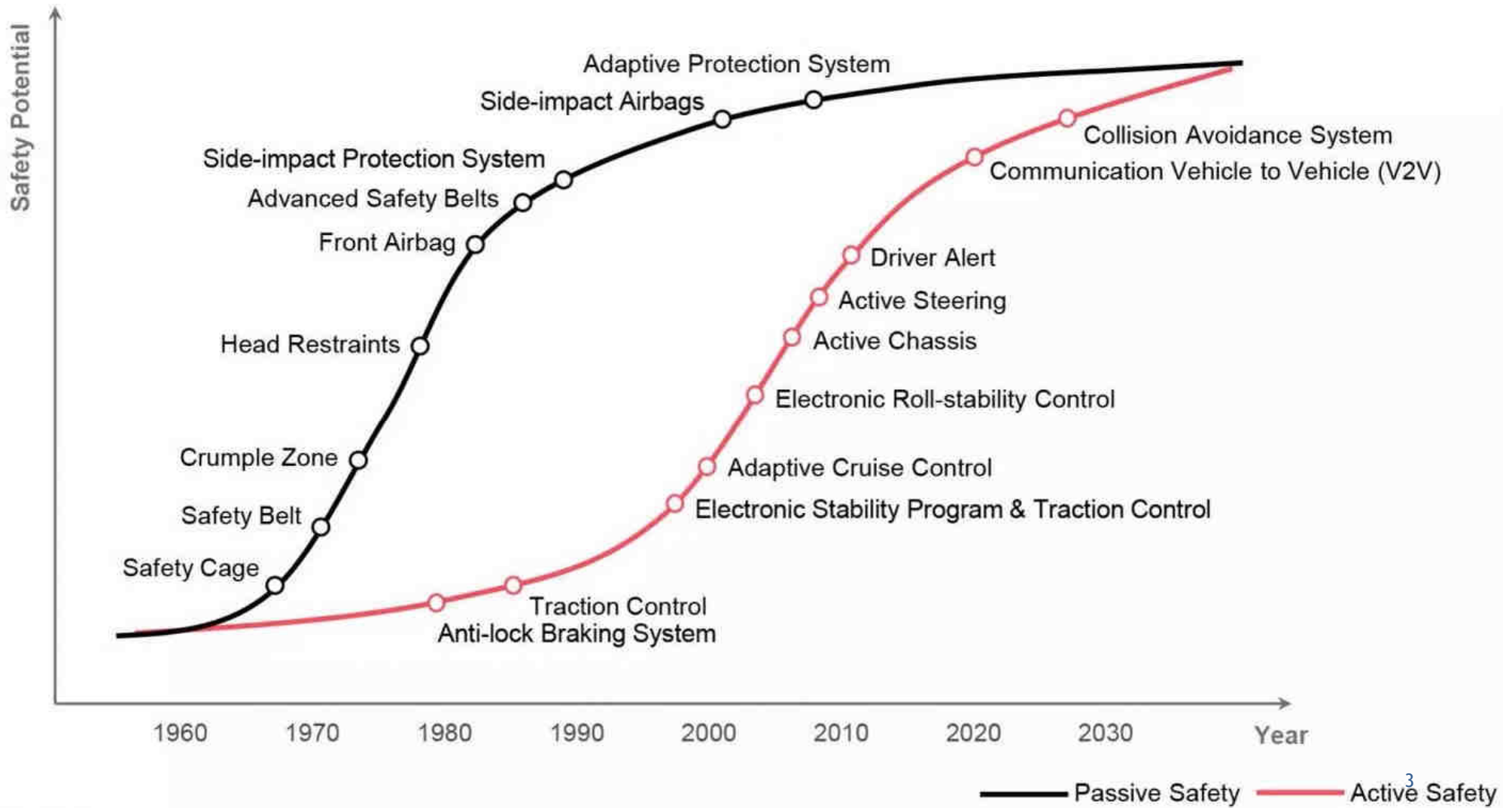
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Federale Commissie voor VerkeersVeiligheid  
13 oktober 2023



# 1. Introduction

# New vehicle safety technology





## 2. General Safety Regulation (GSR)

REGULATION (EU) 2019/2144

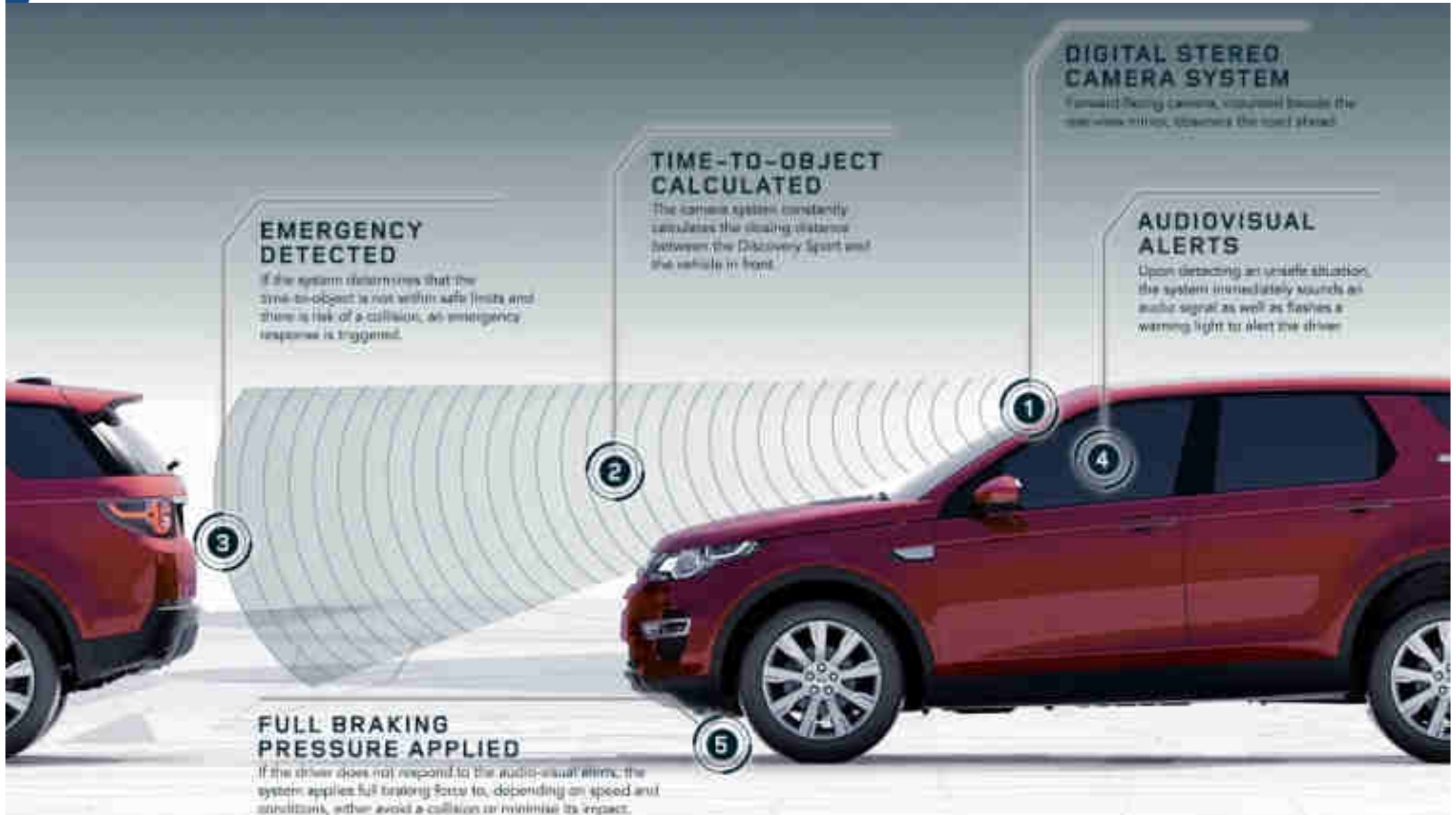
## Extention of the Head Impact Zone



# Automated Emergency Braking (AEBS) vs Pedestrian Airbag...



# Automated Emergency Braking (AEBS)



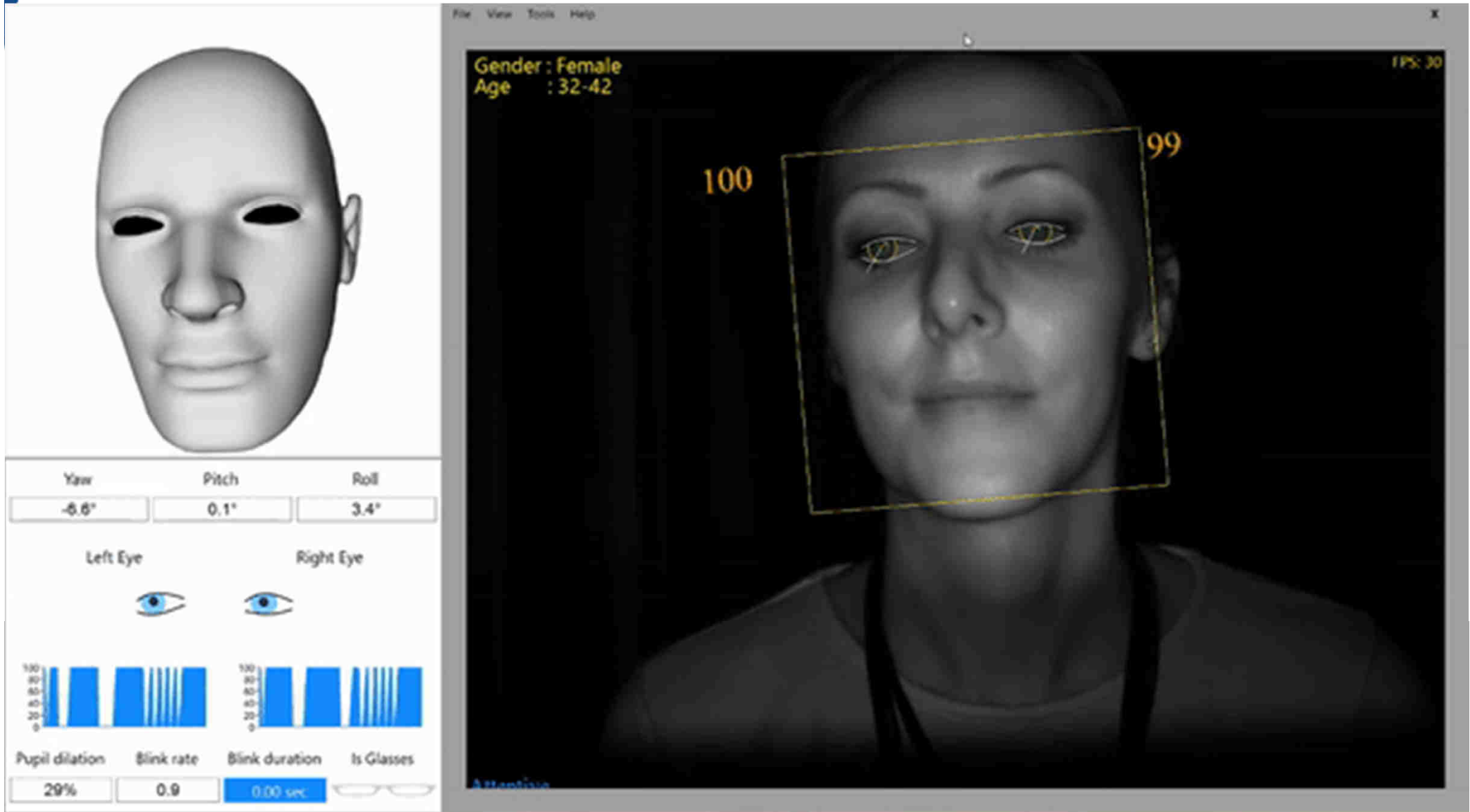


# Alcohol Interlock





# Driver Drowsiness and Attention Warning



The image displays a software interface for driver monitoring, divided into two main sections.

**Left Section: 3D Head Model**

This section shows a 3D model of a human head with the following parameters:

- Yaw:** -6.6°
- Pitch:** 0.1°
- Roll:** 3.4°

Below the head model, there are controls for eye tracking:

- Left Eye:** Includes a small eye icon and a bar chart showing pupil dilation and blink rate.
- Right Eye:** Includes a small eye icon and a bar chart showing pupil dilation and blink rate.

At the bottom of the left section, there are four data fields:

- Pupil dilation:** 29%
- Blink rate:** 0.9
- Blink duration:** 0.00 sec
- Is Glasses:** (represented by a glasses icon)

**Right Section: Real-time Camera Feed**

This section shows a real-time video feed of a driver's face. The interface includes the following information:

- Gender:** Female
- Age:** 32-42
- FPS:** 30
- Attention Score:** 100 (on the left) and 99 (on the right), indicating the system's confidence in tracking the driver's face.

## HOW DOES SPEED LIMITING WORK?



**1** GPS works out where the car is and sends the local speed limit to the dashboard



**2** Car also uses a 'sign recognition camera' to assess the speed limit



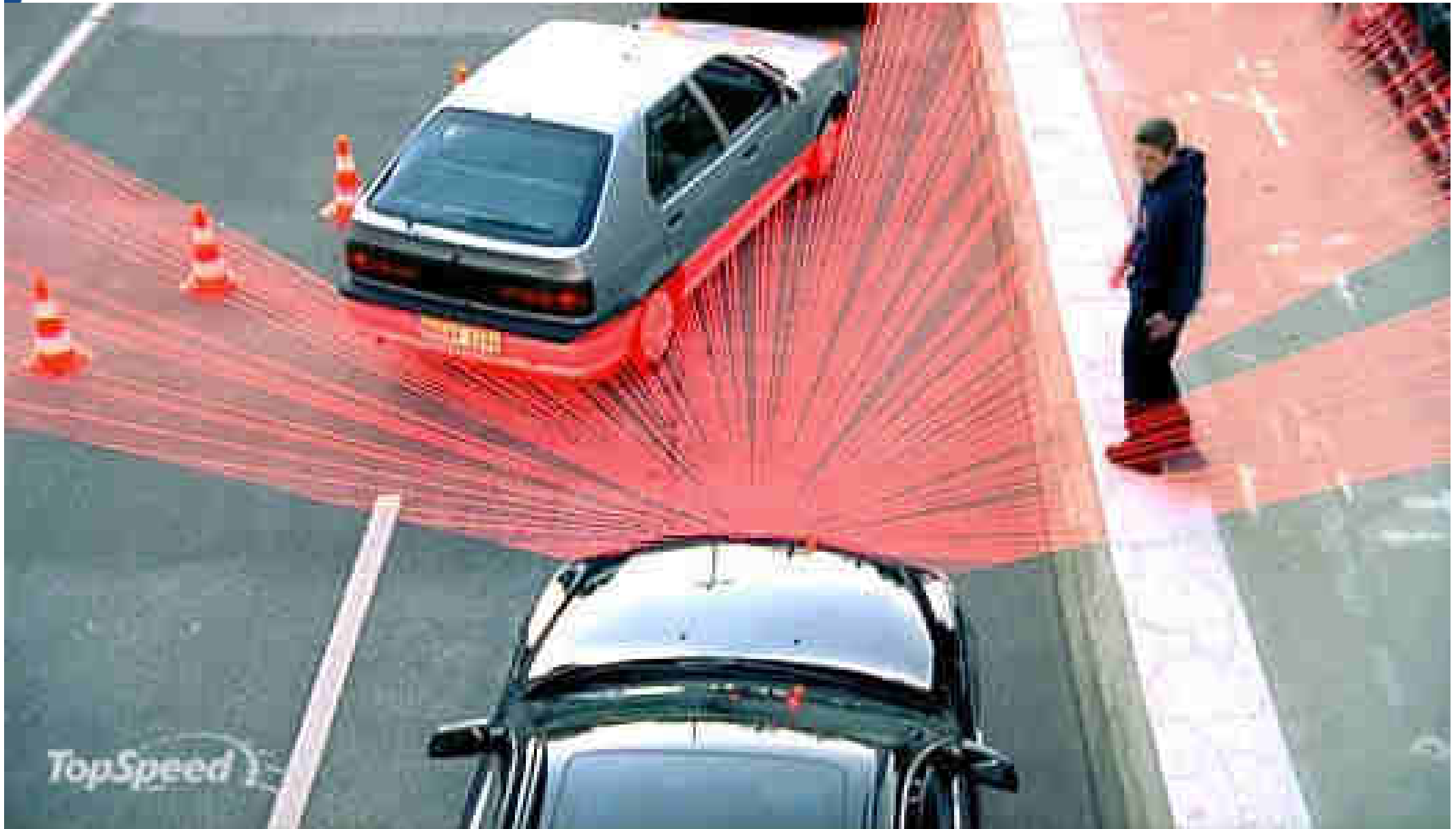
**3** Car uses information to help the driver keep the vehicle below the speed limit



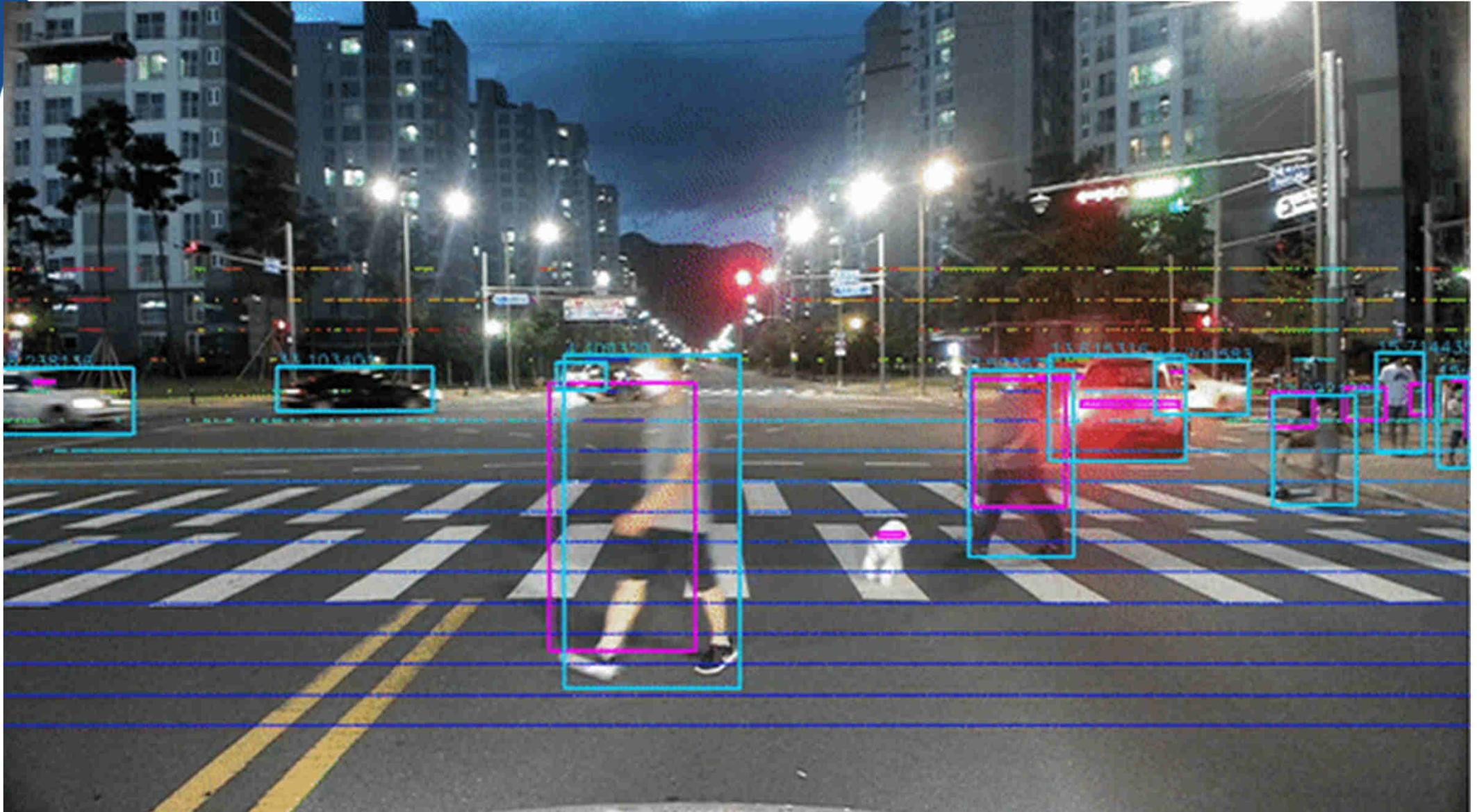
**4** Driver can override the system by pushing the accelerator



“Look“ and read...



# Camera & Lidar fusion







*Thank you*

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