The Next Generation of Intelligent Speed Adaptation (ISA)

M-ADAS

The safest, fastest and smartest way to self-drive and cruise control systems

Challenge

M-ADAS

Every bend and turn on the road, has the maximum speed at which it can be driven*, beyond that, the physical forces, will simply fly off the vehicle from the road, and may cause an accident.

* Subject to the physical parameters of the vehicle and cargo, and the geometry of the road.

Adaptive cruise control (ACC) is an advanced safety system that is offered in many newer vehicles. It is an upgrade from regular cruise control, which allows drivers to set a speed and not have to keep pressing down on the accelerator. Although both features sounds like they are safe and convenient, there may be safety risks involved with the newer systems. The ***Insurance Institute for Highway Safety*** (IIHS) recently posted a report claiming that ACC increases the risk of ***car accidents***.

ACC allows drivers to set a speed and following distance from the car in front of them. It that car in front slows down, the ACC automatically brakes or slows down as well. Some ACC systems even have cameras and will slow the vehicle down if there are posted speed limit changes or tighter curves in the road.

According to the IIHS, the problems occur when drivers misuse the ACC system. The IIHS found that people often set target speeds that are higher than posted limits because they think that using ACC will safeguard them from crashes. The IIHS reported that ACC can cause ***speeding***. The study looked at 40 drivers in the Boston area who were in ACC-equipped vehicles. The IIHS concluded that drivers using ACC were 10 percent more likely to be involved in fatal ***motor vehicle accidents*** than manual drivers.

Problem

M-ADAS

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5 Jul 2021, 12:58 UTC · by **Serglu Tudose**

According to a recent study by the Institute for Highway Safety (IIHS), the number one issue with advanced driver assistance systems such as adaptive cruise control (ACC) is their ability to navigate curved roads.

Driving On Curves Using Automated Systems Can Pose Safety Challenges

Tanya Mohn Contributor ⓘ

Travel

I cover road safety and consumer travel.

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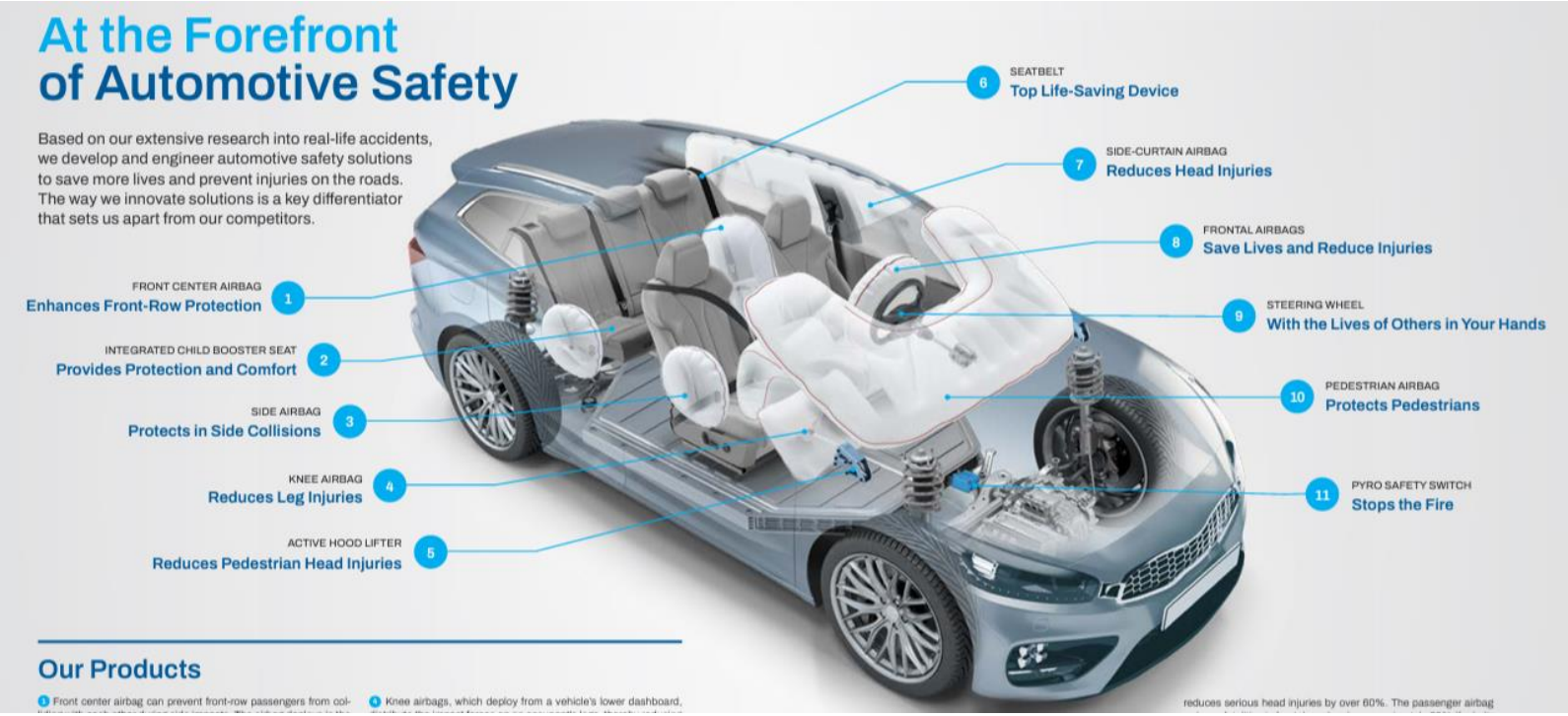
A new report examined how often some advanced driver assistance features were deactivated on

The most advanced driving assistance systems existing



Fortune Business Insights™ lists out the names of all the adaptive cruise control manufacturers

- ZF Friedrichafen AGs
- Robert Bosch GmbH
- Delphi Automotive LLP
- Continental AG
- Mando Corporation
- Denso
- Valeo
- Luminar
- Velodyne Lidar, Inc.

The prediction of the safe approaching speed to curves is still the biggest challenge.

		Total score	Congestion scene	Special scene	Auxiliary lane change	Curve scene	Human-computer interaction	Automatic parking	Night scene	Rainy scene
1	 Tesla Model 3 v10.2 2020.24.6.4	283	44	59	50	15	twenty one	18	38	38
2	 BMW X5 unknown	208	41	42	34	7	6.5	twenty four	[illegible]	25.5
3	 Weilai ES6 v2.6.5	203	39	46	36	14	15	18	35	0
4	 Ideal ONE v1.2.4	196	45	39.5	27	5	17	13	26	23.5
5	 Xiaopeng G3 v2.2.1	171.5	41	33.5	35	3	12.5	25	21.5	0

curve scene

(Credit: Garage 42)

M-adas, make ACC safer and more accurate

M-adas VS computer vision

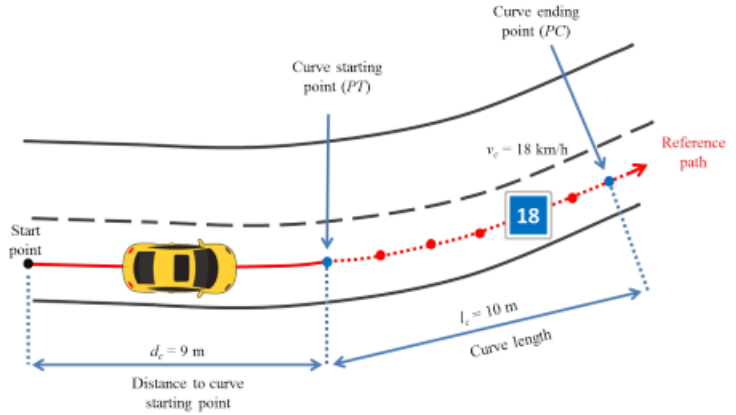
Computer vision, does not have) Even in a situation where objects in the way, such as large vehicles, vegetation, and other objects do not obscure the view (enough data to calculate the physical capabilities of the vehicle in relation to the spatial geometry structure of the travel route. Therefore, the set speed is not optimal, and can be dangerous, many accidents have occurred because of this limitation.

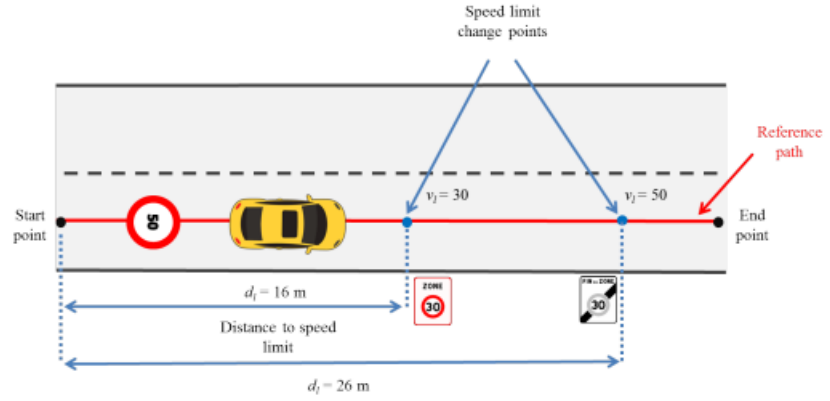
All the roads of the world in the palm of our hands

Identify short ranges

The parameters (some of them) that M-adas uses to calculate the driving speed

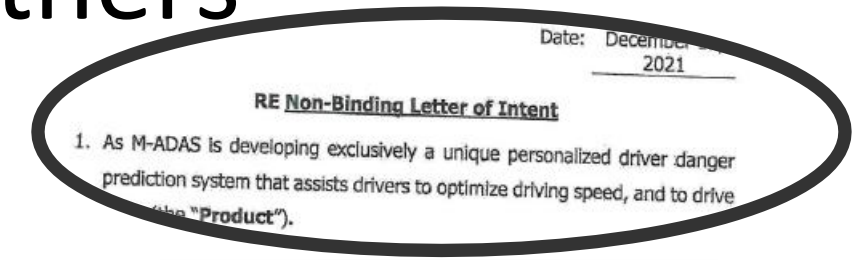
Dimensions, Net weight, cargo weight, number of passengers, type of cargo (liquid, solid).
Advanced stability systems, road surface, weather, activity times, location data (kindergartens, schools), gradients, natural acceleration, natural acceleration, user response time (in warning systems, only), section radius, time of arrival at bend b " Gliding "or using brakes.





M-adas calculating the speed for global companies

M-adas now helping others


Date: December 2021

RE Non-Binding Letter of Intent

1. As M-ADAS is developing exclusively a unique personalized driver danger prediction system that assists drivers to optimize driving speed, and to drive (the "Product").

Haim Siboni • 2nd
CEO, Foresight Automotive; Magna BSP
Israel

FORESIGHT

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Doron Elinav • 1st
VP BD & Product at DriveU (co-founder)
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CEMEX

We are a company focused on creating sustainable value by providing industry-leading products and solutions to satisfy the construction needs of our customers around the world. We strive to make the future better for our customers, our shareholders, and our communities by becoming the world's most efficient and innovative building materials company.

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Ready to Join M-Adas Growing Family

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