

Building Cars with Better Vision

05 May, 2025



LUMINAR



1.3 million

annual fatalities from vehicle
collisions globally

\$1.4 trillion

estimated annual value of
societal harm from motor
vehicle crashes in the US

Sources: WHO, NHTSA (Data as of 2019), NSC (US Data), Allied Market Research (Data as of 2020).



We need a
step change
in technology

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LiDAR is the Necessary Step Change



3 football fields,
8 seconds



Global Standard
Equipment

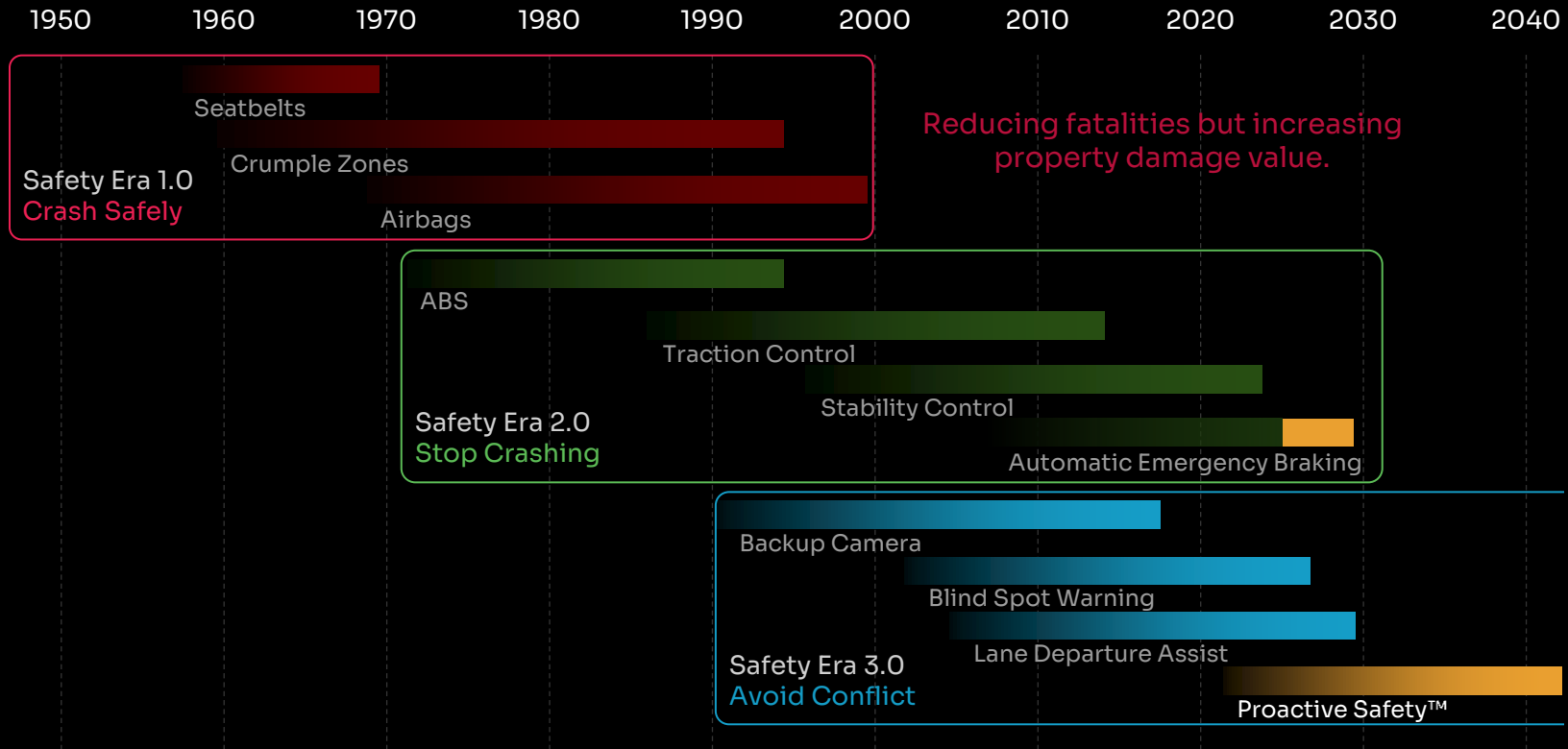


90% Collision
Reduction

Save >1 million lives per year.



First seatbelts, then airbags, now Luminar.



A Differentiated Approach

Enhance the driver today.

Luminar is the first and only LiDAR technology made standard on a global production vehicle.



A Differentiated Approach

Enable autonomy tomorrow.

The same sensor scaling for consumer automotive is deployed into many unmanned systems



Luminar + Volvo as Trend Setter



Other Luminar
customers
following suit.



Luminar + Volvo as Trend Setter









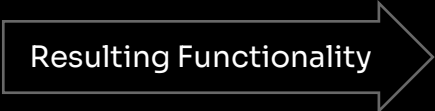


There were more than 20 car models equipped with lidar in the roof on the Chinese market last year.

It is anticipated that roughly 1.5 million lidar sensors will ship into consumer vehicles in China in 2025.

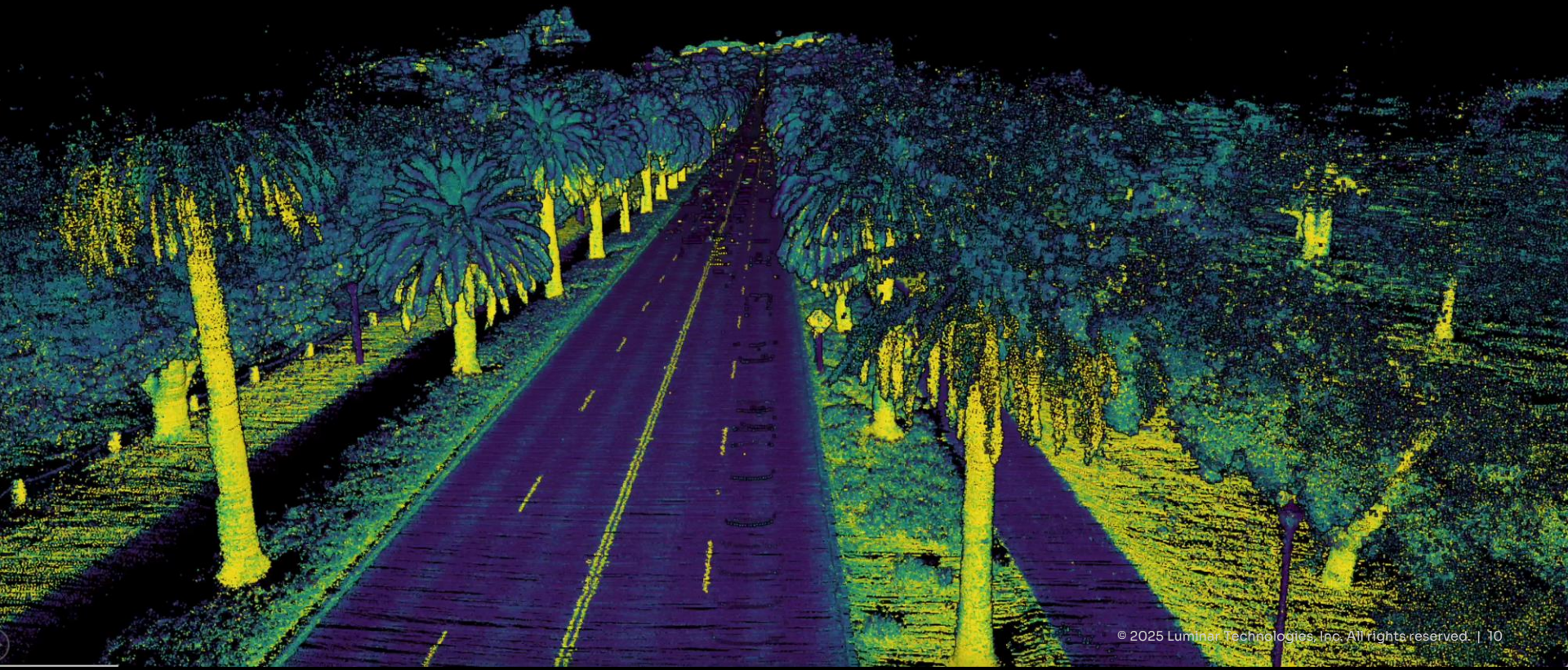


Function, Realized

Use Case	Functionality	Camera	+ RADAR	+ Low Perf LiDAR or 4D RADAR	Camera + Luminar LiDAR
Safety	L0 Emergency  	Time-to-collision ambiguity	False positive prone at distance	Speed limited	
Convenience	L1/L2 (+/++)  			Inconsistent distant vehicle detection	
Safe Autonomy	L3/4 Low Speed  	No reliable small obstacle detection			
	L3/4 High Speed  			Insufficient small obstacle detection	
Resulting Functionality 		OK L0-2 No L3-4+	Better L0-2 No L3-4+	Better L0-2 Low Speed L3	Best L0-2 All Speed L3-4

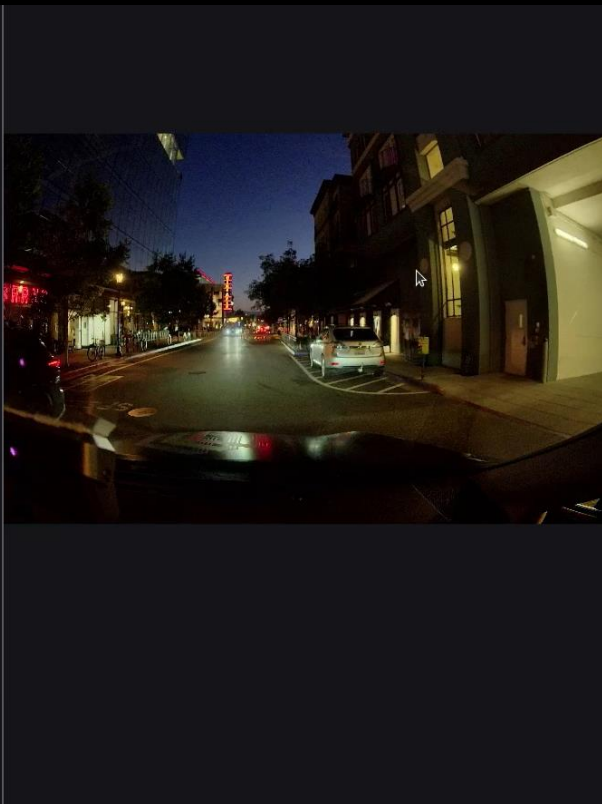
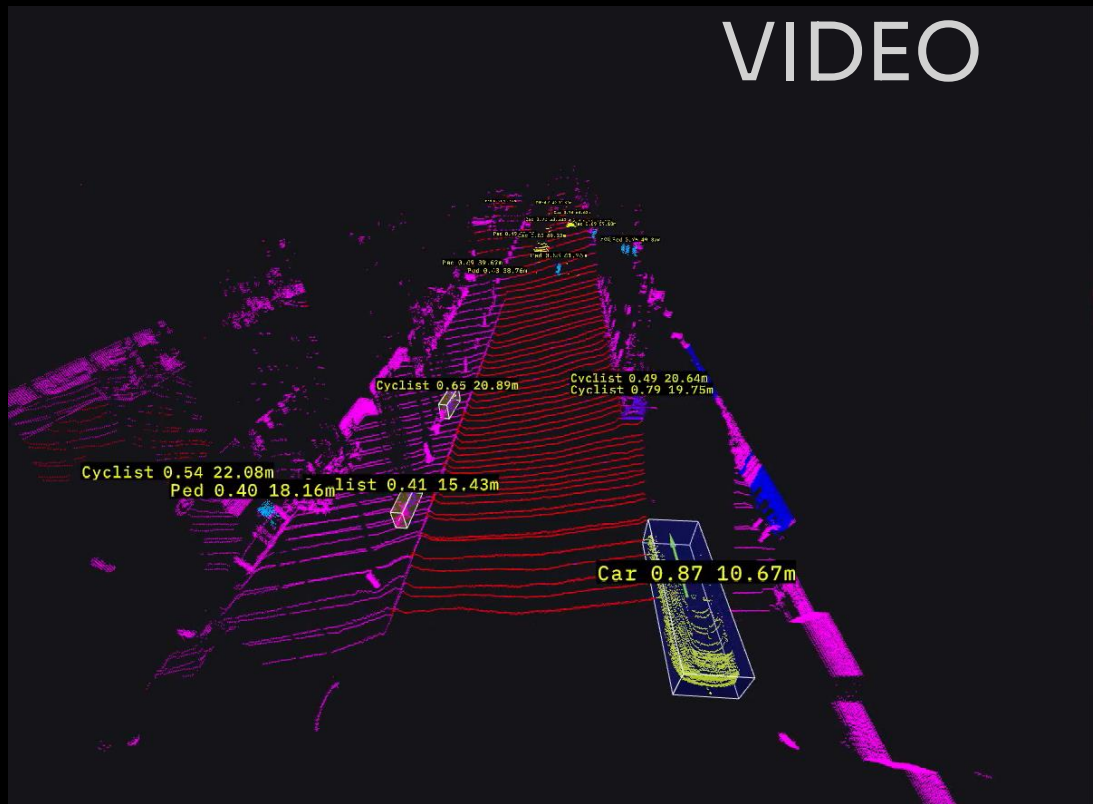


VIDEO



What Makes LiDAR so Special?

VIDEO



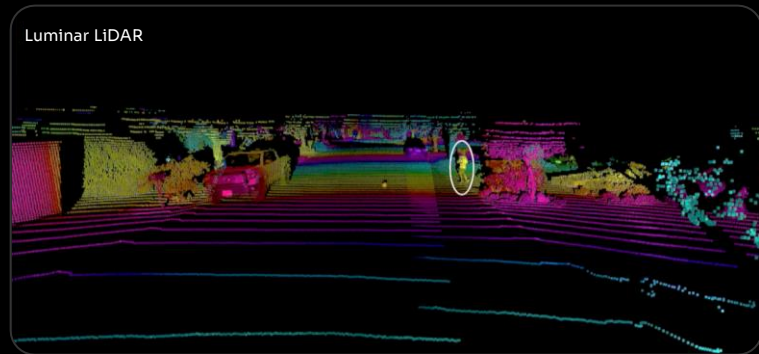


VIDEO

With Luminar AES

Broad Functional Availability

Day & Night



All Weather



Roadmap to Mass Adoption

2017

Model G-Series

Built for Proof
of Concept



2019

Hydra

Built for Test &
Development



2022
– 2024

Iris Family

Built for Series
Production



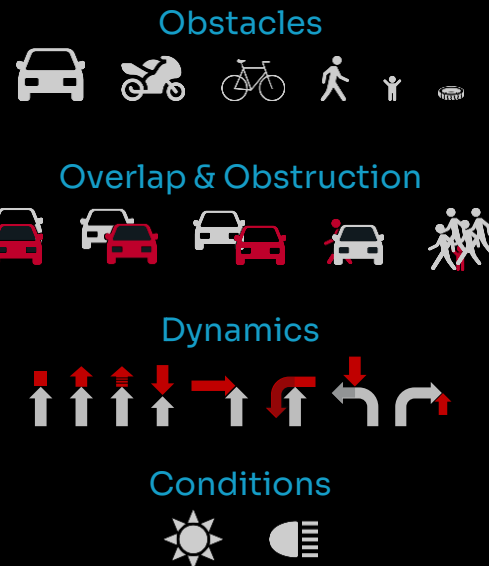
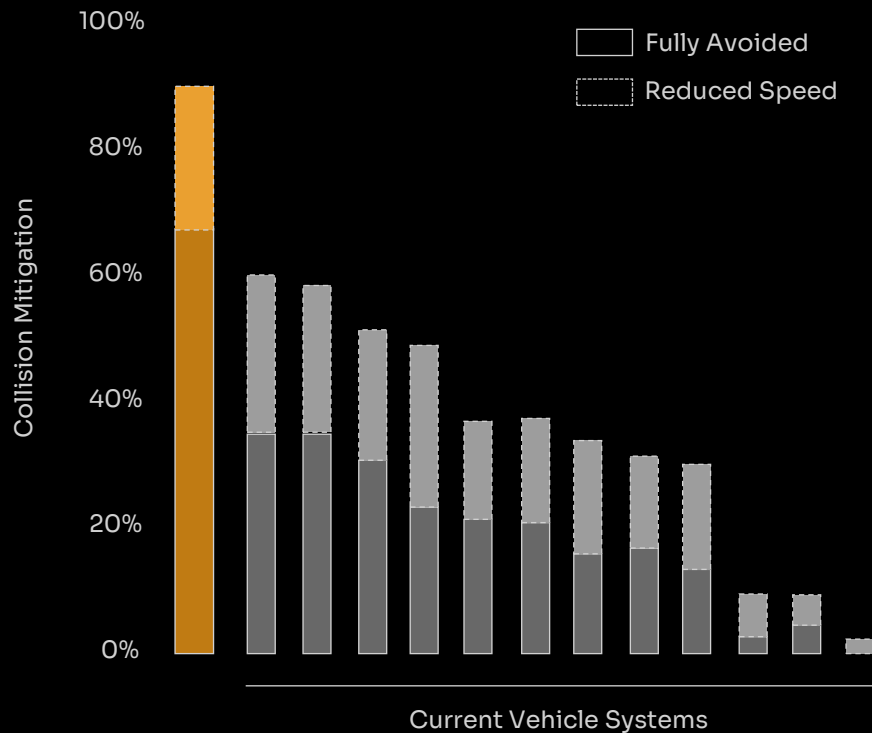
2027

Luminar Halo

Built for Scale &
Mass Adoption



How Lasers Enable Insurance Value

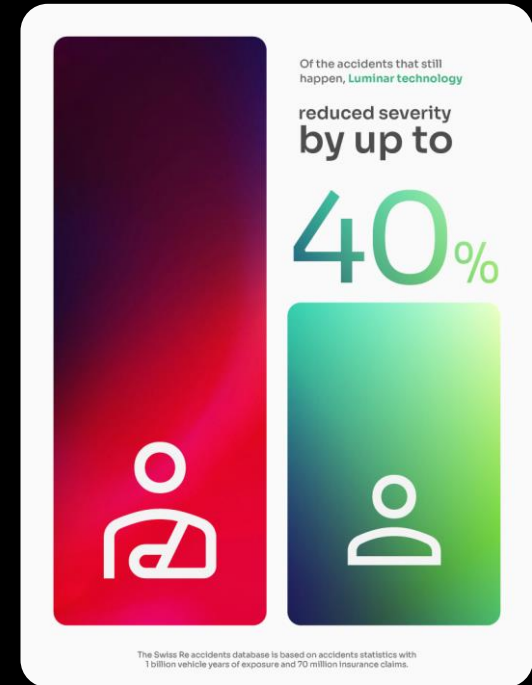
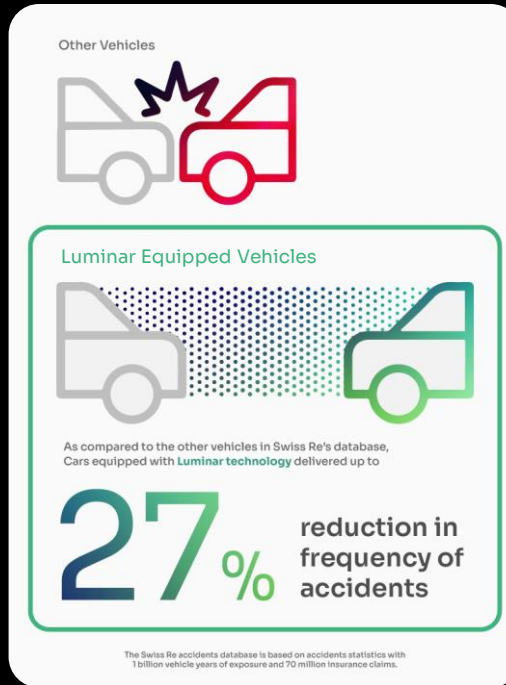


Luminar LiDAR Proven to Improve Safety

"Our results show that the Luminar system-equipped vehicle is expected to avoid up to 25% more collisions than the same vehicle without the Luminar equipment and it is expected to enhance the mitigation power by up to 29%.

Compared to the two best vehicles in Swiss Re's benchmark the difference in expected frequency is up to 27%, while in mitigation power it is up to 40%.

This means that the Luminar-equipped vehicle is expected to avoid more collisions as well as decrease the impact of collisions when they happen."





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