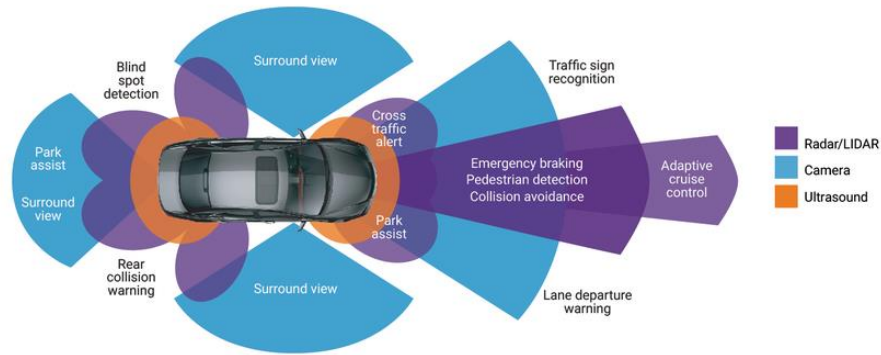


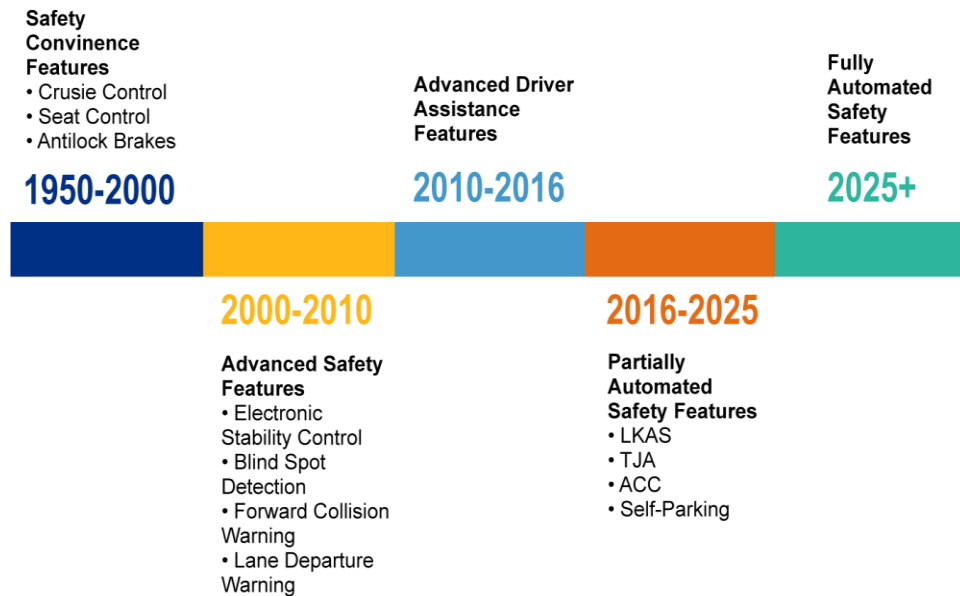
Imperfect ADAS

WEN XU

VOLVO AB



Advanced Driver Assistance Systems often refer to a suite of advanced technical features that assists driver with driving with the aim to to reduce accidents, injuries and fatalities caused by human errors.



ADAS



Lane Keeping Assist system



Lane marks covered by snow



Temporary lane marks

Can it
Reason?



Forward Collision Warning System



A telsa crashed into a cleaning truck, South China, 2016



A moving plastic bag

Can it be trusted?



Traffic Sign Recognition System



A vehicle with speed limit signs



A speed limit for certain time and specific area



A truck mounted with an attenuator

Can it see context?



Pavement rutting – partially automated vehicle make it worse!



It could be worse...



But human drivers discover the problem and tend to combat it!

Can it solve problem?

Thank you!