



miramatrix

We make **things** smarter

ATTENTION SENSING

AI | Computer Vision Software Platform

Presence | Face | Eyes | Gaze

Denis Lavallee
CEO

We envision a world
where things happen
at a simple
GLANCE

Almost by magic



AUTOMOTIVE

In-Cabin Monitoring
System
(Driver & Passengers)



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In-Cabin Monitoring
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#1 Cause of Car Accidents:
Distracted Driving

80% of Accidents in the USA
65% of Near-accidents

National Highway Traffic Safety Administration NHTSA

AUTOMOTIVE

In-Cabin Monitoring
System
(Driver & Passenger)

Rapid Market Adoption

Euro NCAP to mandate Driver Monitoring Systems for safety ratings

Leading European vehicle safety testing agency and rating system, unveiled its 2025 Roadmap aimed at improving passenger car safety using the most advanced technologies.

Driver Monitoring Systems a Primary Safety Standard by 2020.

* * *

NTSB (USA) recommends Driver Monitoring Systems for semi-autonomous vehicles

Investigation of a fatal accident involving a leading semi-autonomous vehicle with its “Autopilot” mode engaged.

“Adoption of more effective *monitoring of a driver’s attention*, commensurate with the capability level of the automated driving system.”

AI/Computer Vision Software-Only Platform

Same Technology/Software Stack Across All Consumer Electronics & Automotive

18 Years of R&D – 10 Families of 25 Patents

GLANCE BY MIRAMETRIX®

HUMAN-COMPUTER INTERACTION & OTHER BIOMETRICS | BIOSENSING USER EXPERIENCES

DATA ANALYTICS

COGNITIVE COMPUTING

API | SDK

WINDOWS | LINUX | ANDROID
INTEL | ARM

SINGULAR API PARADIGM
FOR ALL VERTICALS

SECURE & ENCRYPTED ACCESS

MIRAMETRIX ATTENTION SENSING ENGINE (M.A.S.E.)

PIPELINE ENGINE

PC | TABLETS

MOBILE | IOT



AUTOMOTIVE

AR | VR | MR



ALGORITHMIC FOCUS

3D FACE & GAZE
MODELING

DEEP ARTIFICIAL
NEURAL NETS

3D SCENE
UNDERSTANDING

MACHINE
LEARNING

TRAINING DATA

FACE

EYE FEATURES

GAZE

INTERNAL

EXTERNAL

IMAGING SENSORS

RGB

IR

RGB-IR

OTHER INPUTS | SENSORS

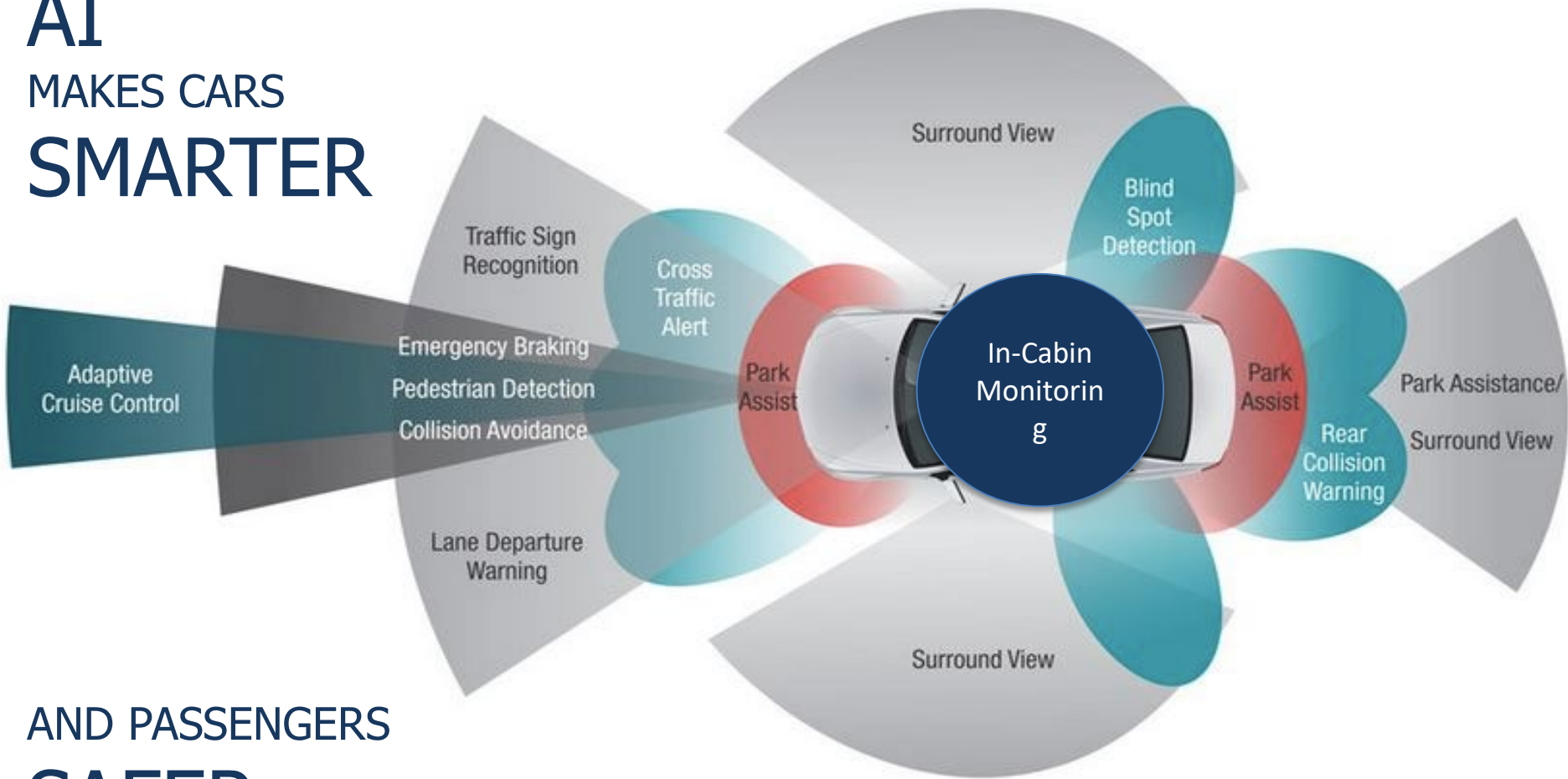
VOICE

GESTURE

MOUSE
TRACKPAD

KEYBOARD

AI MAKES CARS SMARTER



AND PASSENGERS SAFER

CONTACTS

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