





Putting the Brake on Accidents: AI-Powered Road Safety Solution

Durgadutt Nedungadi, SVP-International Business
Amit Kumar, Sr. Director-Marketing

Road Accidents: A major concern for India

2 Lakh

lives are lost every year
from road crashes

3 Lakh

are critically injured or
permanently disabled

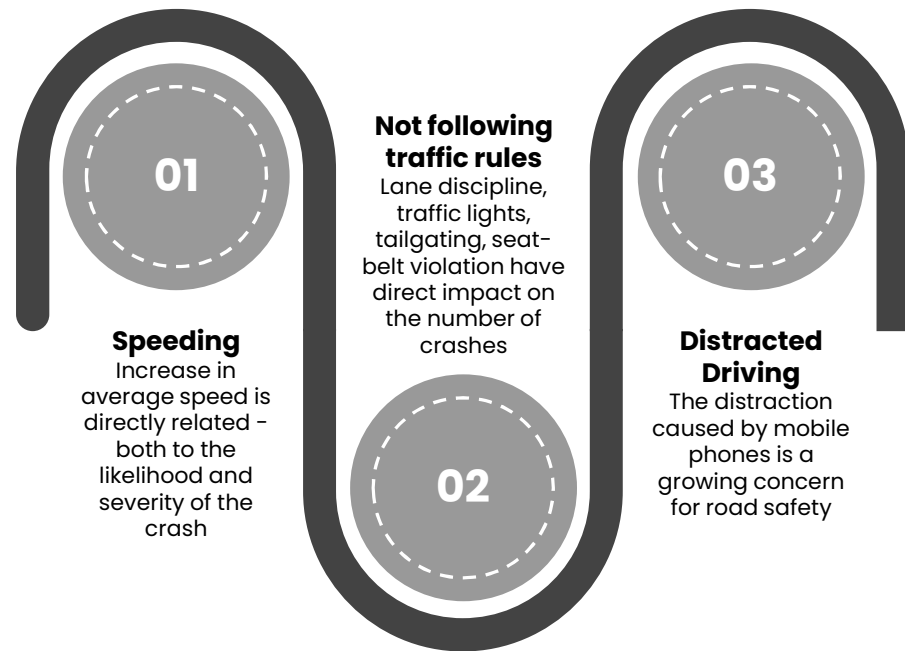
~3%

Cost to the GDP

A large number of fatalities are the result of Human Error

80%

are preventable



India is Electrifying

BY 2030



70%

Commercial Vehicles



40%

Busses



80%

2 Wheelers



30%

Private Cars

The Brussels Times

M

BUSINESS

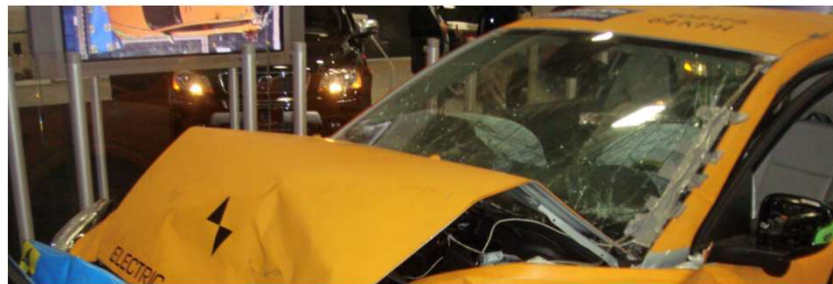
ART & CULTURE

EU AFFAIRS

WORLD

Electric cars involved in more accidents than regular vehicles, study shows

Sunday, 11 September 2022



Electric cars are involved in 50% more traffic accidents than their petrol and diesel counterparts, according to a study by insurer Axa.

The high number of accidents has actually nothing to do with the technology, but everything to do with the driving behaviour of the drivers. It is mainly the fast and sharp acceleration that surprises drivers, especially those new to the cars, and leads to accidents.

Driver Behavior is the KEY

Behaviors such as

**Speeding
Following Traffic Rules,
Tailgating
Lane Departure**

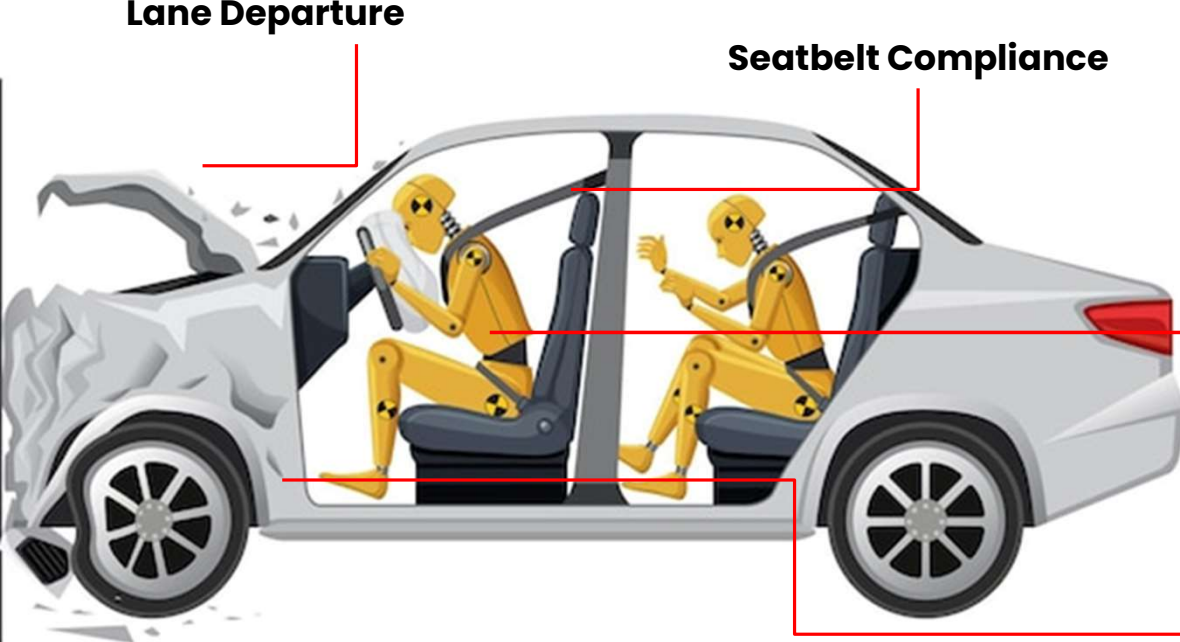
Seatbelt Compliance

Distracted Driving

Drowsy & Fatigue

Texting or talking on the phone

**Hard Acceleration & Braking
Hard U-turn & High-G**





**Leveraging Deep Tech to
Revolutionize Road Safety**



Make-in-India Technology Start-Up

Netradyne's Driver•i® is the future of vision-based connected vehicle systems, improving driver behavior and fleet safety



Head Quarters

Bangalore & San Diego

2000+

Customers Worldwide

250K+

Vehicles Deployed

750+

Employees

18

Patents

10B+

Miles of Driving Data

Key Investors



Key headlines and coverages

Fleet safety startup Netradyne expects to see 100 pc growth by 2024

By Sujata Sanowal
 Updated on : Fri May 06 2022 08:52:04 GMT+0530
 May 06, 2022, 12:02 PM



Avneesh Agrawal
 Co-founder & CEO, Netradyne



Date: Wednesday,
 November 2, 2022.

NETRADYNE: TECH THAT REDUCES ACCIDENTS, AND DRIVER DISTRACTIONS



> Avneesh Agrawal and David Julian, two Stanford alumni, founded Netradyne in 2015 with the idea of improving driver and road safety. The founders together hold over 300 patents.

> Netradyne offers IoT devices that use AI and computer vision technologies to enable a safer road transportation ecosystem. Drivers can see AI-powered dashboards that can simultaneously process both internal and external data of the vehicle, including detection of traffic signals, road signs, and other vehicles while simultaneously monitoring the driver to determine drowsiness, distraction, and

verify that the driver is wearing a seat belt. These data points are analysed in real-time and benefits fleet managers in boosting safety, reducing operational cost, and improving driver retention.

> Customers have reported that Driver technology has reduced the number of dangerous incidents and accidents by up to 30-40%, and Hyundai. The company has crossed an annual recurring revenue of Rs 600 crore, and says they will cross Rs 1,000 crore in 2022-23.

> In just seven years, the company has started commercial operations in the US, Canada, UK, Australia, New Zealand, and India, while having major R&D and manufacturing driven out of India.

Infosys cuts its FY24 revenue outlook, despite strong deal pipeline

But operating margin projection retained at 20-22%

It is already seen as a diverger for the financial services space

CEO, Nandan Reddy, said the company's FY24 revenue will be in the range of Rs 1,100-1,150 billion, down from the previous year's Rs 1,200-1,250 billion.

Reddy said the company's FY24 operating margin will be in the range of 20-22%, which is in line with the previous year's performance.

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Fin services arm demerged from RIL, with an Mcap of \$20bn

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Karnataka AAR reaffirms 18% GST to be charged on EV battery charging

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National highway projects by government dips 37% in Q1

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Adani to convert Dharwad into modern city despite challenges

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Fleet safety is still an afterthought in India: Netradyne Agarwal

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ENABLING SAFE TRANSPORTATION WITH AI-POWERED SOLUTIONS - A CASE STUDY BY NETRADYNE AND WRITER SAFEGUARD

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Technology is driving a safer road in India

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TRANSTOPICS

India's only transport weekly commanding largest circulation

VOLUME LX, NO 05, THURSDAY, July 27, 2023. PRICE Rs 25

Product and Services in Road Safety by Corporates

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Netradyne conferred with the FICCI Road Safety Award

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Hendrickson Launches Air and Mechanical Suspensions and Axles for Trailer Applications in India

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First-ever knowledge report on Indian Part Truck Load sector released amidst an august gathering

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Valvoline* and Eicher Extended Exclusive Partnership, Strengthening Customer Trust and Driving Innovation in the Commercial Vehicle Industry

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THE ORIGINAL ENGINE OIL

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Technology with a Purpose



DEVICE



SOFTWARE
& CLOUD



ANALYTICS



driver*i*

powered by



netradyne

Driver•i™

Vision-based Driver Safety System



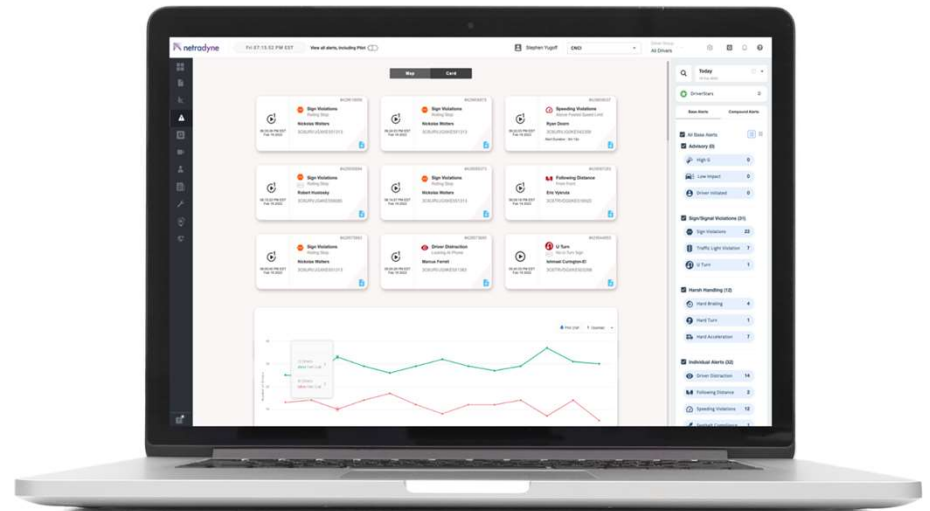
AI processor
Deep Learning Processor

Storage
Up to 80-200 Hours of Video
on device

Dual/Quad HD Cameras
220 Degree,
85+ dB HDR

Communication Channels
4G LTE / Wi-Fi / BT / GPS
Integrated with CAN Bus
(J1939/OBD II)

Inertial Sensors
Accelerometer, Gyro, and
Magneto sensors



Driver•i™ uses **Edge Computing** to
analyze every second of driving

Analyzes Everything

High Priority Event Detection



High/ Moderate G-Force:
Crash



Low G-Force:
Collision/Damage

Internal | Vision-based Event Detection



Distracted



Seatbelt



Drowsiness



Facemask

External | Vision-Based Event Detection



Hard Braking
[w/causality]



DriverSTAR Events
[Separation Move Over]



Hard
Acceleration

Driveri@ Utilities



Visual Login
System



Driver
Initiated



Camera
Obstructed



RealTime
Notifications

- Following Distance
- Max Speed
- Distracted
- Stop Sign
- Posted Speed

Mobile Application Portfolio



Driver Login



Virtual Coach



Mobile Application

- Driver Mobile App
- FleetMgr Mobile App
- Installer Mobile App

Extensibility



Event
Access



Driveri@ Hub Aux
Camera w/ 4+ Views



Live
Tracking

Notifications



GreenZone
Notifications



GreenZone
Recognition



Following
Distance



Posted
Speed



Traffic
Lights



Weaving
(Beta
Testing)



U- Turn



Stop Sign



Hard Turn

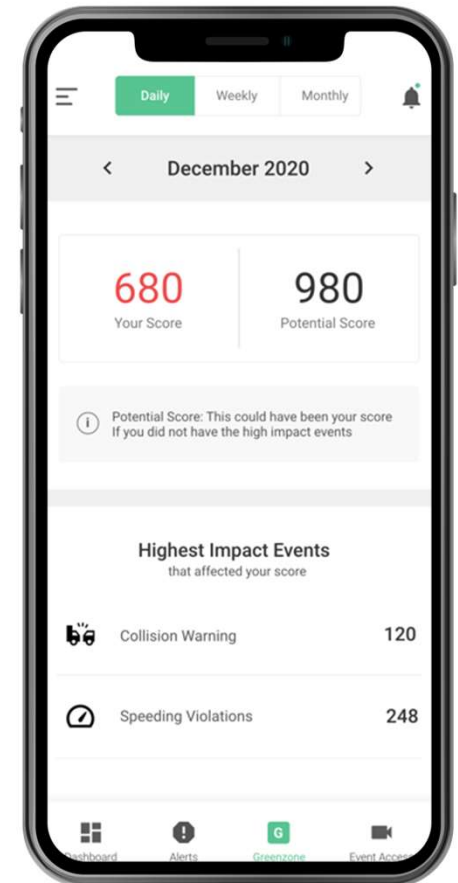
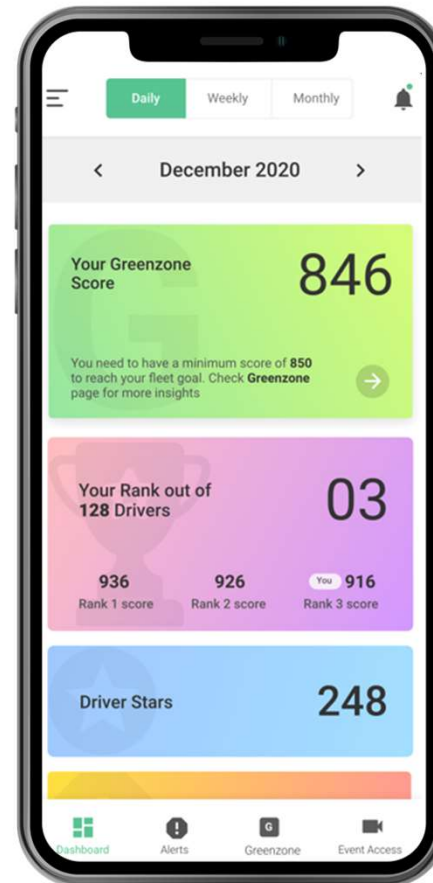


Max Speed

GreenZone® – Scientific Approach to measure Driver Behavior



- GreenZone® score is a complex algorithm that calculates weighted scores based on events throughout the driving day
- Compares driver's score to fleet's average and notifies drivers of milestones and enables gamification
- Drivers use feedback to improve performance and increase their score
- Scores provide an easy way for managers to reward drivers with bonuses



Driver Communication & Coaching



Alerts



Fatigue



Distracted



Feb 13 2020 (Thu) 12:32:31 AM IST

7KPH (Limit: -1KPH)



Jul 14 2020 (Tue) 05:53:13 PM IST

38KPH



5.0s

5.7s

4.4s

+0.75G

BKWD|LEFT

-0.75G

FWD|RIGHT

Jan 08 2023 (Sun) 04:01:12 PM IST

25KPH

4.3s

6.8s

+0.75G

BKWD|LEFT

-0.75G

FWD|RIGHT



Feb 14 2020 (Fri) 02:37:04 PM PST

12MPH (Limit: 35MPH)



+0.75G

BKWD|LEFT

-0.75G

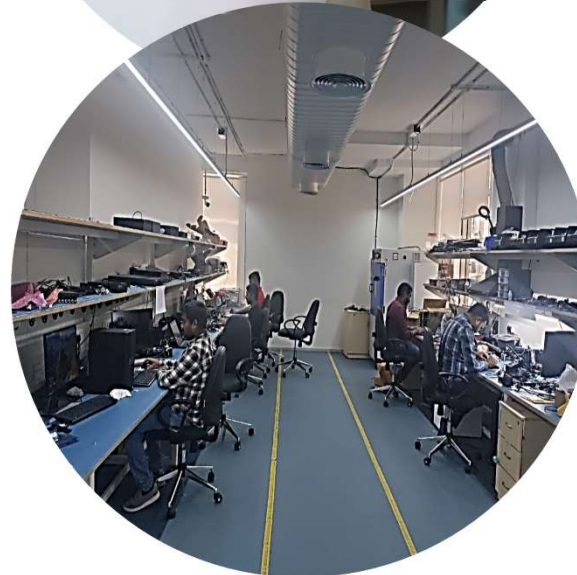
FWD RIGHT

Make In India.....for the World

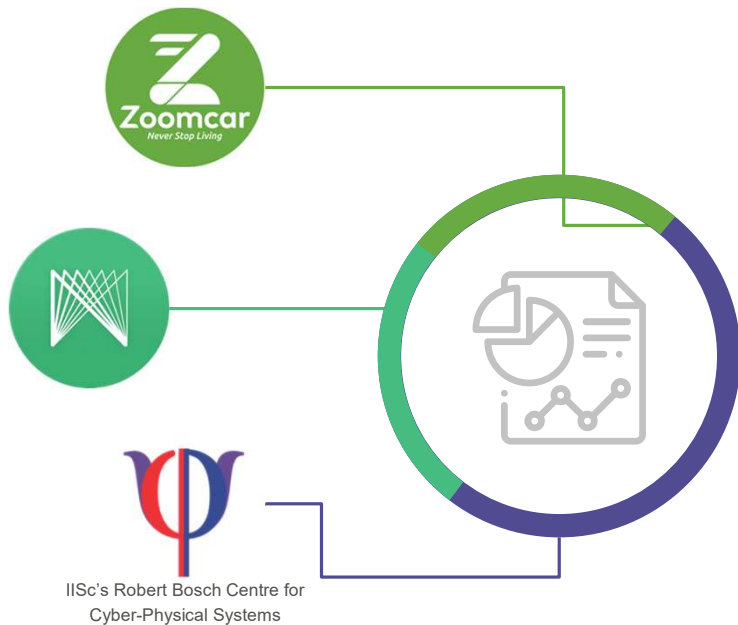


Entire Designing and R&D is in-house

- 500+ engineering resources in Bangalore
- State of the art manufacturing facility in Gurgaon



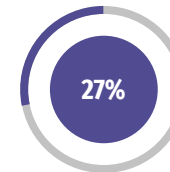
IISc Study with ZoomCar Reported a **51% Reduction** in the Speeding Behavior



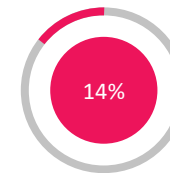
500

Zoomcars equipped with Driver•I

52k trips over 1 year
250 vehicles with alerts activated
10.6 million miles
5 lakh driving hours



27% decline seen in 6 of the 20+ driving metrics analysed by Driver•I
Metrics included: speeding, acceleration, hard braking, hard turning, collision warning and maintaining distance



Cars with voice-activated alerts compared to those without audio alerts showed a 14% reduction in accidents

RESULTS WITH OUTWARD FACING FUNCTIONALITIES ONLY

**ROBERT BOSCH
CENTRE FOR CYBER-
PHYSICAL SYSTEMS @
IISc BANGALORE**

PROJECT POSITIONS RESEARCH ▾ EVENTS
NOKIA CENTRE FOR EXCELLENCE IN NETWORKED ROBOTICS ▾
PLACEMENTS-MTECH RAS ▾ CONTACT US

AI can reduce accidents: Study by Netradyne, IISc, Zoomcar

AI can reduce accidents: Study by Netradyne, IISc, Zoomcar

[Editor OfWebsite](#) [2019 Ph.D students](#) [20 November, 2020](#) | 0

 **Deccan Herald**
@DeccanHerald

A joint pilot study by technology firm [@NetraDyne](#), [@iiscbangalore](#) and [@ZoomCarIndia](#) has shown that the company's Advanced Driver Assistance System (ADAS), Driver-i reduced road accidents by 14% compared to cars without activated voice alerts.

[Превод на туйма](#)

 deccanherald.com
AI can reduce accidents: Study by Netradyne, IISc, Zoomc...
A joint pilot study by technology firm Netradyne, the Indian Institute of Science (IISc) and Zoomcar has shown that th...

8:25 ч. нр.об. · 19.11.2020 г.

Vehicles Across Segments Are Leveraging it Already





CMR UNIVERSITY
9342900666

FARM HOUSE
FARM LAND
SALE
250/-
9035956437
9003545437

CASBY

BENZ

SALE



Is it possible for technology to contribute a 50% reduction in road accidents?

An Indian cash management company, Writer Safeguard, claims to have achieved this through the use of Netradyne's AI-based fleet and driver safety solutions.

In addition, by utilizing the GreenZone Driver Scoring System, the company can analyse every second of driving, and build an ecosystem of rewarding good practices while having automated coaching for the ones who need to get better.



Enabling Safe Transportation With AI - Powered Solutions | Forbes India
forbesindia.com

ENABLING SAFE TRANSPORTATION WITH AI-POWERED SOLUTIONS - A CASE STUDY BY NETRADYNE AND WRITER SAFEGUARD

Road accidents are a major public concern in developing countries and India is no exception. Reports find that the country accounts for nearly 11% of road accidents globally, with more than 1.53 lakh deaths recorded in 2021. The government aims to work towards reducing road accidents by 50% over the next two years, ably supported by applying technological solutions.

With a similar vision in mind, two futuristic executives from Qualcomm, Avneesh Agrawal and David Julian, incorporated Netradyne in 2015. The startup harnesses the power of Computer-Vision and Edge-Computing to revolutionize the modern-day transport ecosystem. The result is their flagship product, Driver-i™, which captures every second of driving, both inside the cabin as well as outside, on the road. This is similar to the autonomous vehicle technology, however, in this scenario, the control remains with the driver.

Driver-i™ detects road signs, traffic lights, weather conditions, and other vehicles on the road, while also analysing driver behaviour, drowsiness, fatigue, and several other parameters which lead to accidents. In addition, fleet managers are provided a cloud dashboard to monitor individual driving behavior and related trends, as well as the overall fleet performance across various safety and compliance protocols. The company also introduced the industry's first driver scoring system, the GreenZone. This assigns scores based on driving indicators and helps fleet owners identify good drivers and those who require coaching.

Writer Safeguard, one of India's foremost cash management companies, was looking to enhance its driver and van safety standards to ensure that it serves world class services to its customers. It operates more than 1,600 cash vans that service over 23,000 ATMs and more than 20,000 retail points across the country. The company's cash vans are constantly on the road and are prone to accidents that can be attributed to unsafe driving practices including impaired reaction time stemming from fatigue, over-speeding, and tailgating.

In addition to road accidents, Manosh Bhattacharya, Country Head, and Prashant Joshi, Chief Operating Officer with Writer Safeguard, were keen to use the technology to

address other operational challenges. They intended to be assured that the cash is safe and accounted for, while being compliant with MHA and RBI norms for cash carrying vehicles.

In 2022, as part of phase-1 of their engagement with Netradyne, Writer installed Driver-i™ in about 50% of their vehicles. The device captured and analysed several hundred data-points using sensors and vision-based technology. Within six months of deployment, Writer reported a tangible impact on KPIs set for this partnership including a 50% reduction in accidents. The company has been able to imbibe a culture of safe driving amongst their drivers.

A colossal drop of 74% in drowsy driver instances was experienced, along with a 38% reduction in distracted driving. GreenZone scores have significantly improved with the help of automated, virtual and in-person coaching enabled by Driver-i™.

Netradyne's smart cameras also provide an extra layer of security to Writer's safety protocols. As a result, the company was able to track its cash van during an attempted theft.

As traffic density increases, with it grows the number of road accidents. The adoption of technologically robust safety systems, like Netradyne's Driver-i™, have become essential to bring about a decrease in road accidents.

Technology is playing a vital role in the Government of India's efforts to reduce road accidents, thus, aligning with the nation's vision for safer roads." Durgadutt Nedungadi, SVP - India & International Business, Netradyne

"We are glad to contribute towards making Indian roads safer by leveraging next-gen technologies in our fleets" Manosh Bhattacharya, Country Head, Writer Safeguard

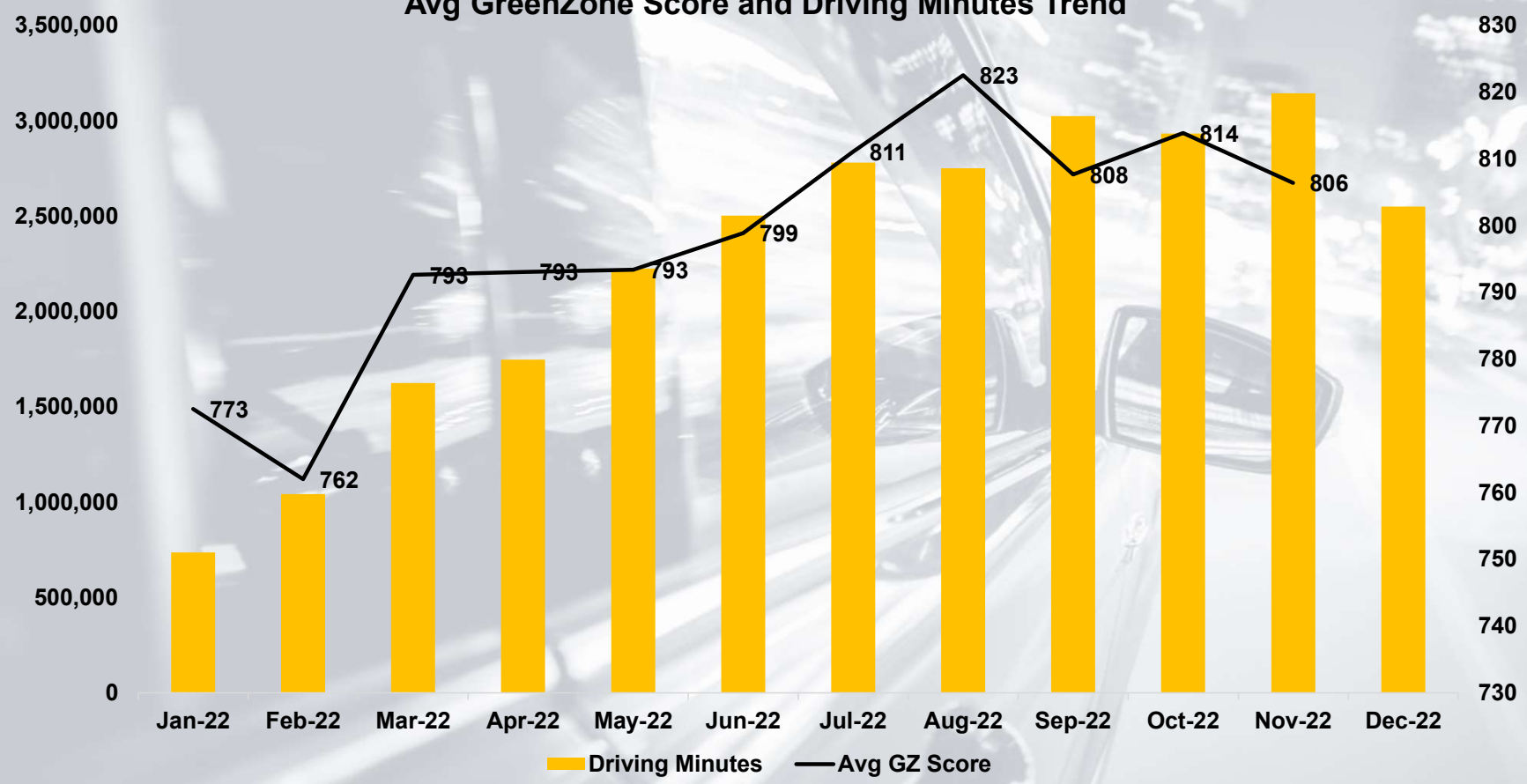




GreenZone Score Enables the Culture of Safe Driving



Avg GreenZone Score and Driving Minutes Trend



Early Adopters in India



India needs Proven Make-In-India Technology to Achieve the Goal of 50% Reduction in Accidents

TELEMATICS



VISION BASED
ADAS



>95%
**ACCURACY
& PRECISION**

DRIVER
MONITORING
SYSTEM



CLOUD-
COMPUTING





**Game-Changing Technology
Slashes Road-Accidents by**

50%

Thank you



Netradyne-VVDN Manufacturing Facility



Global Innovation Park
SMT Facility, Product Assembly
Lines, Testing Labs



Mechanical Innovation Park
Mechanical Design, Tooling for Die
casting, Sheet metal and Injection
molds, Injection Molding Production



Die Casting Park
Pressure die casting for
aluminum, Prototype
Manufacturing, Powder Coating

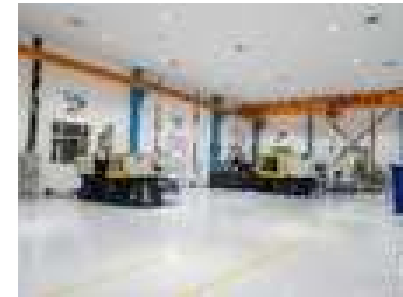


Entire Design, R&D, and Development is in-house

- 500+ engineering resources in Bangalore
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Product Manufacturing Park
Product Assembly Lines



Manufacturing Facility overview



SMT

- 10 SMT Lines
- PoP Chip mounting and Fine Pitch BGA Capability, Rated CPH 750,000+ Robust Inspection: In-line - 3D AOI, In Line -3D SPI, X-Ray and Dot Dispensing, Conformal Coating
- SMT Environment: Clean room
- Controlled Nitrogen environment in Reflow Oven
- De-panelling setup

MECHANICAL PRODUCTION

- Mold Making, Sheet Metal, Injection Molding, Die Casting, Machining, Powder Coating

ASSEMBLY & TESTING

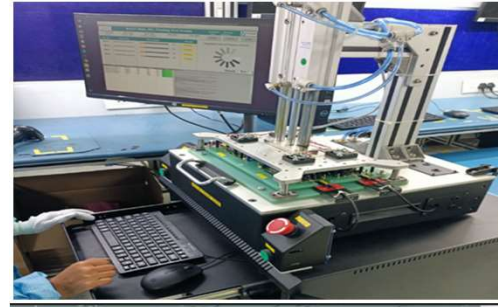
- Dedicated assembly lines
- Production Test Setup, Automation, OTA and Air Leakage Testing
- Multiple Wireless I/F Testing
- ICT & FCT machine

RELIABILITY TESTING

- Thermal, UV/Solar, Vibration, IP, Salt Spray, and Mechanical Shock Testing



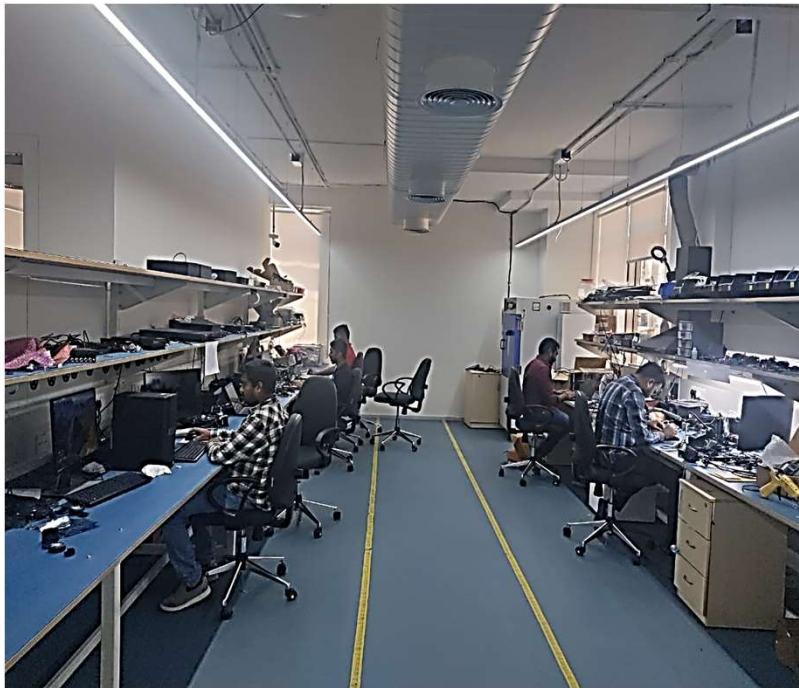
Product Assembly & Testing Line



Netradyne Testing Facilities



Environmental testing simulates the different climatic conditions and mechanical stress that products are exposed to during their lifetime. Environmental testing will expose weaknesses in a product's design or performance that could occur in service, particularly at extreme levels.



* Sequence and duration of the test differs product to product



**Where can India make a Quick
Difference**

No. RT-11036/161/2022-MVL
Government of India
Ministry of Road Transport & Highways
(MVL Section)
Transport Bhawan, 1, Parliament Street, New Delhi - 110001

Dated, the 10th January, 2023

To,

- i. Director Generals of Police (DGPs) of all States/UTs;
- ii. Principal Secretaries/ Secretaries (Transport) of all States/ UTs;
- iii. Transport Commissioners of all States/ UTs.

Subject: Enforcement of Lane Driving regulations.

Madam/Sir,

As you are aware, this Ministry had notified Motor Vehicle (Driving) Regulations, 2017 to improve road safety and promote safer driving behaviour. The implementation and enforcement of the rules notified by this Ministry are under the purview of States/UTs.

2. While considerable progress has been made by States/UTs towards enforcing road safety and safe driving behaviour, further efforts are required to enforce lane discipline while driving.

3. In this regard, States/UTs are hereby advised to strengthen enforcement towards lane driving and to widely publicise the safe lane driving practices so as to increase citizen awareness of the same. The key provisions of Motor Vehicle (Driving) Regulations, 2017, towards lane driving are summarized in Annexure A. The penalties prescribed under Motor Vehicles Act, 1988 for not adhering to lane discipline are summarized in Annexure B.

4. In addition, technology may be leveraged to detect driving behaviour & pattern, and converting the same into measurable scores for the drivers. AI based algorithm, on-board units, mobile cameras etc. can also be used to alert the drivers for over speeding, drowsiness, fatigue etc. on a real time basis. As a first step, all Commercial Vehicle Fleet owners may be advised to maintain and monitor their drivers' scores using such applications. The high-scoring drivers should be given due recognition/rewards, incentives and their scores may be highlighted at appropriate forums.



Technology may be leveraged to detect driving behaviour & pattern and converting the same into measurable scores for the drivers.

Strong Adoption in India



Nestlé Good food, Good life



Hindustan Unilever Limited

IndianOil Skytanking



B. D. DHALLA TRANSPORT PVT. LTD.



Commercial & Organized Segment is Key to Start with



- ✓ Logistics vehicles
- ✓ E-Commerce & Retail
- ✓ Hazardous Material
- ✓ Pharma
- ✓ Manufacturing & heavy material
- ✓ Precious goods

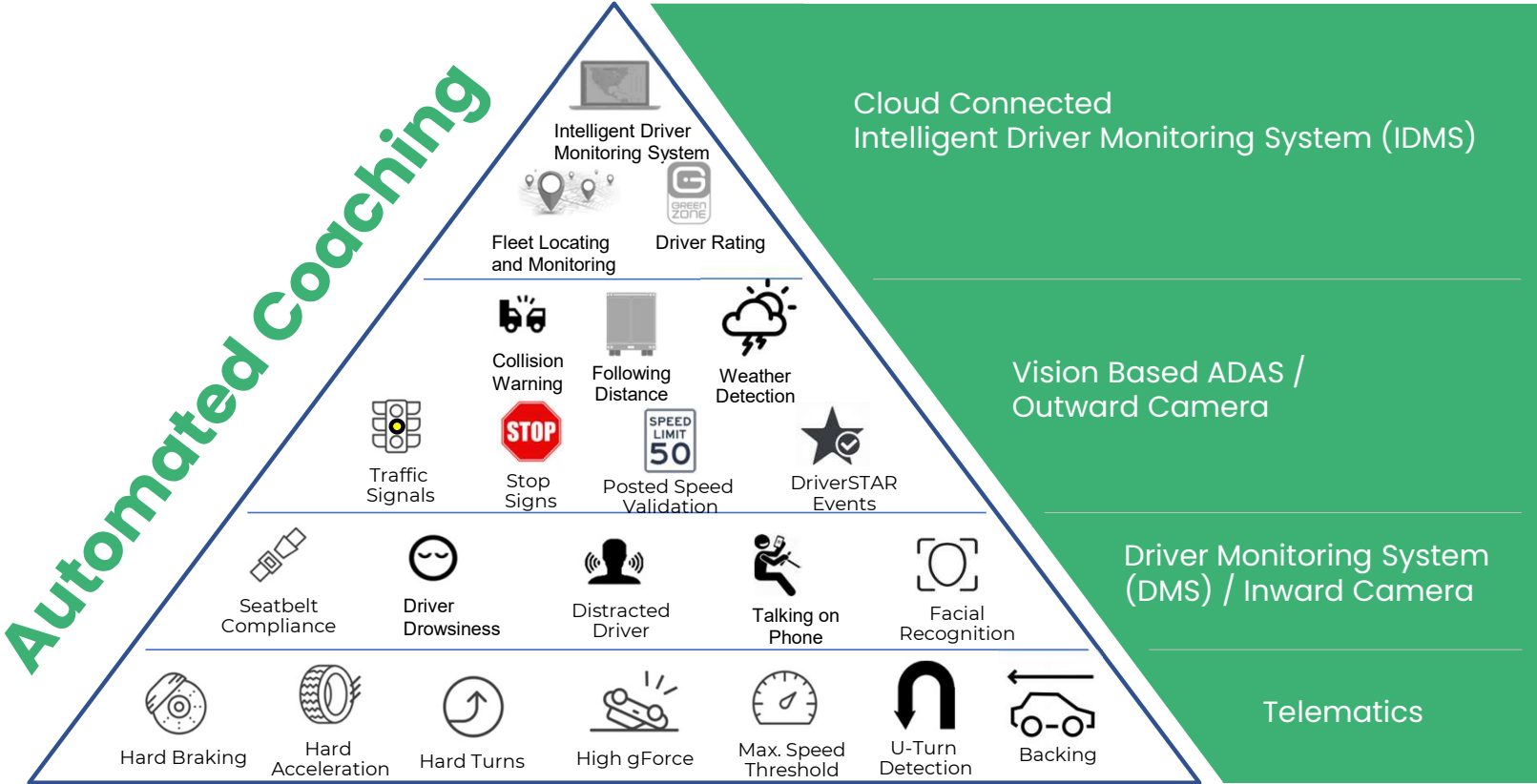


- ✓ State Rransport
- ✓ School Buses,
- ✓ Local Providers
- ✓ Employee Transport

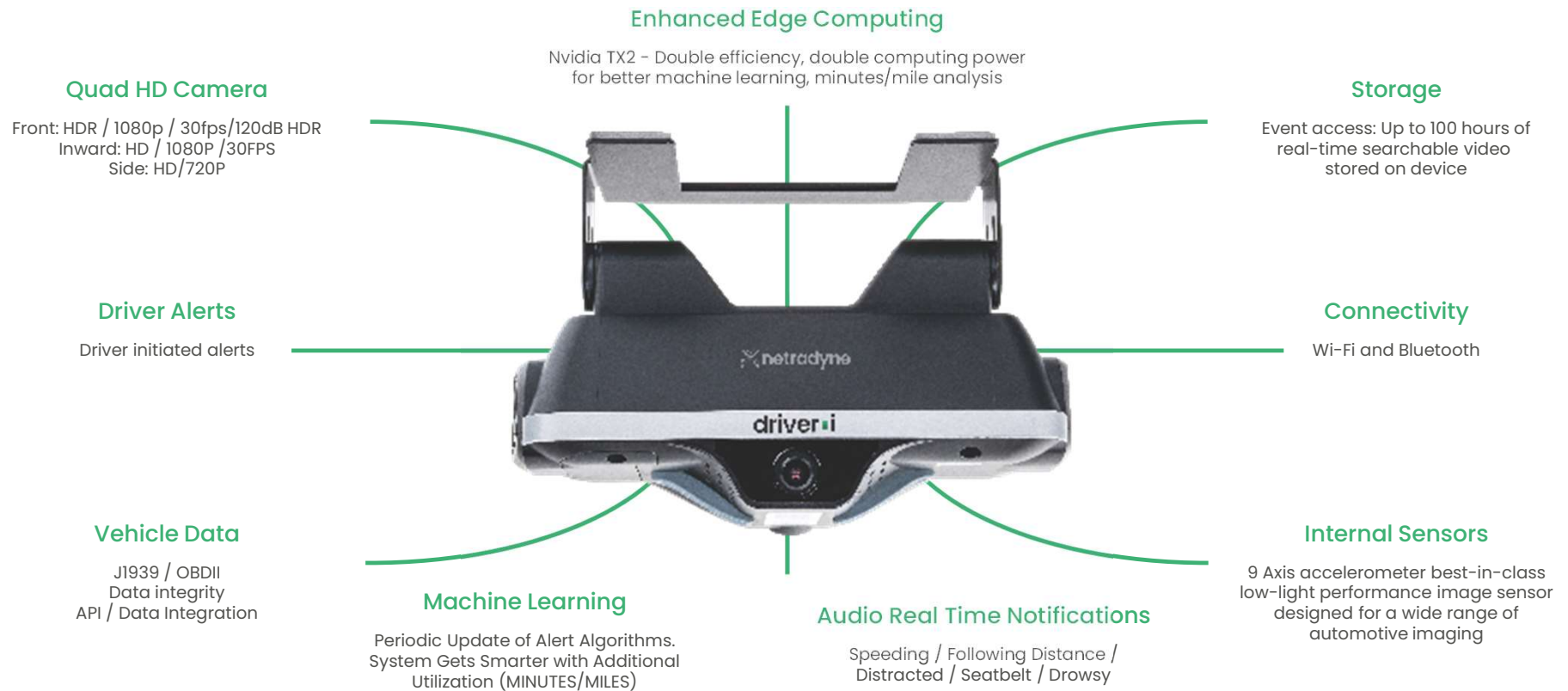


- ✓ Taxis
- ✓ Employee Transportation

Comprehensive & Integrated Road Safety Ecosystem



AI-Powered **Edge Plug-n-Play Processor**



Feb 29 2020 (Sat) 11:57:54 PM IST

39KPH

K R PURAM
ಕೆ.ಆರ್.ಪುರಮ್

↑
HALASURU
ಹಾಳಸುರು

↑
WHITEFIELD
ವೈಟ್‌ಫೀಲ್ಡ್

1.1s



1.4s



+0.75G

BKWD | LEFT

-0.75G

FWD | RIGHT



Amazon driver surveillance reduces accidents by half

 15 November 2022  [Transport / Logistics Services](#)

Amazon has announced that surveillance of its delivery drivers has cut road accidents by 48% over the two years it has been in operation.

The online giant has rolled out the driver surveillance technology in the US and UK. It has reduced risky behaviour including not wearing a seatbelt and speeding. Real time alerts to the driver also prevents other issues from occurring.

Safer Mobility | Why & How



80% of road accidents happen due to

Over-Speeding

Driver's distraction or fatigue

Tailgating

Maneuvers

Why to invest in safety culture and practices?

Danger to people's lives

High operational cost

Compensation claims & high insurance cost

Costs incurred when vehicles are off the road or being repaired

What technology can help with?

Driver behaviour

Driver assistance

Realtime data on breaching any driving safety norms

Vehicle tracking

Realtime alert system

Reduce operational cost

Technology - enhancing fleet safety

53%

keep driver safety on the forefront

100%

expressed an interest in technology that
can save lives

82%

wish they had a virtual driving coach

93%

are willing to invest in smart technologies

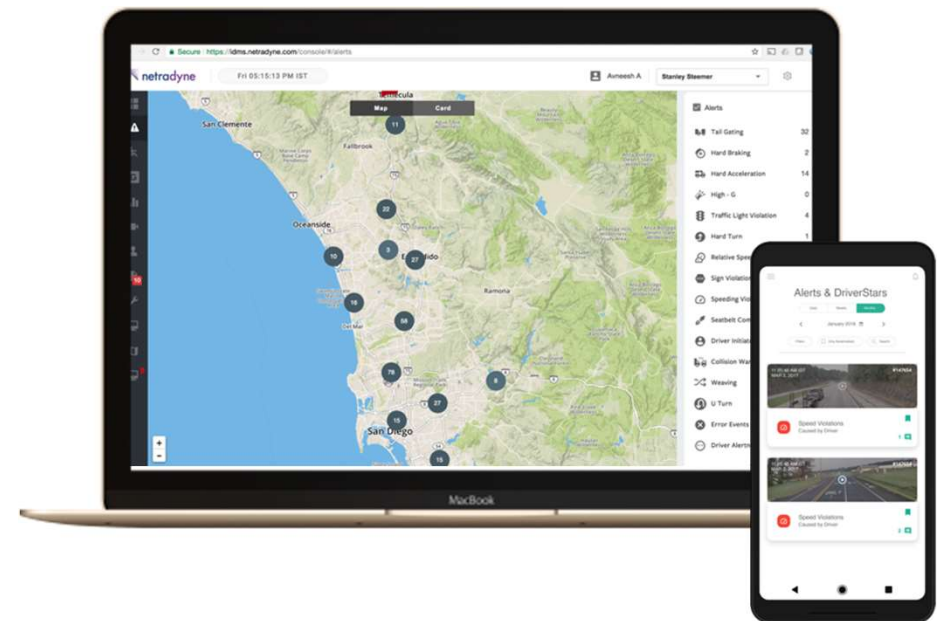
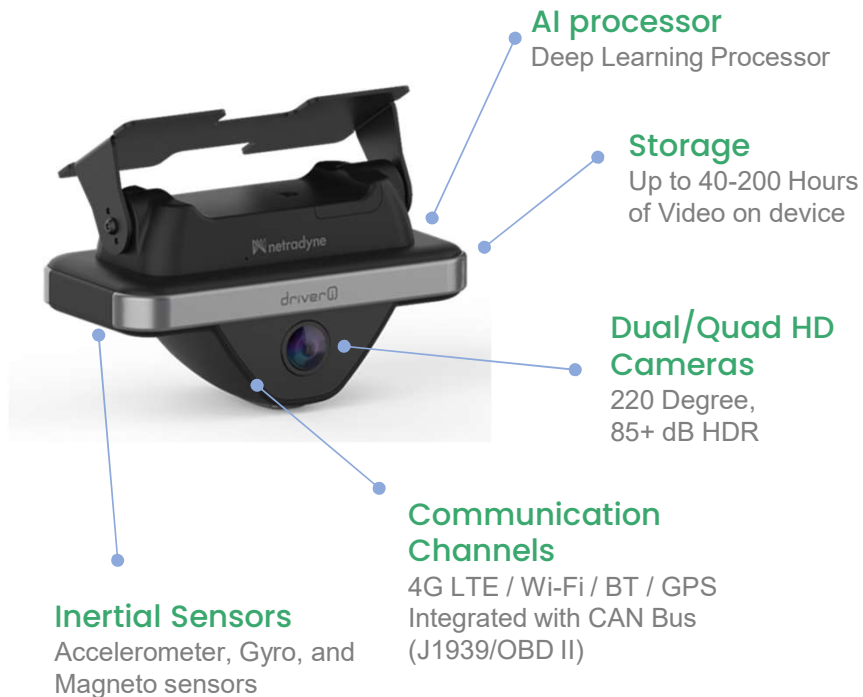
63%

claim that losing just one vehicle would be
financially devastating

91%

think that their fleet would benefit from an
AI safety solution

Driver•i | Vision-based Driver Safety System



Driver•i uses **Edge Computing** to analyze every second of driving