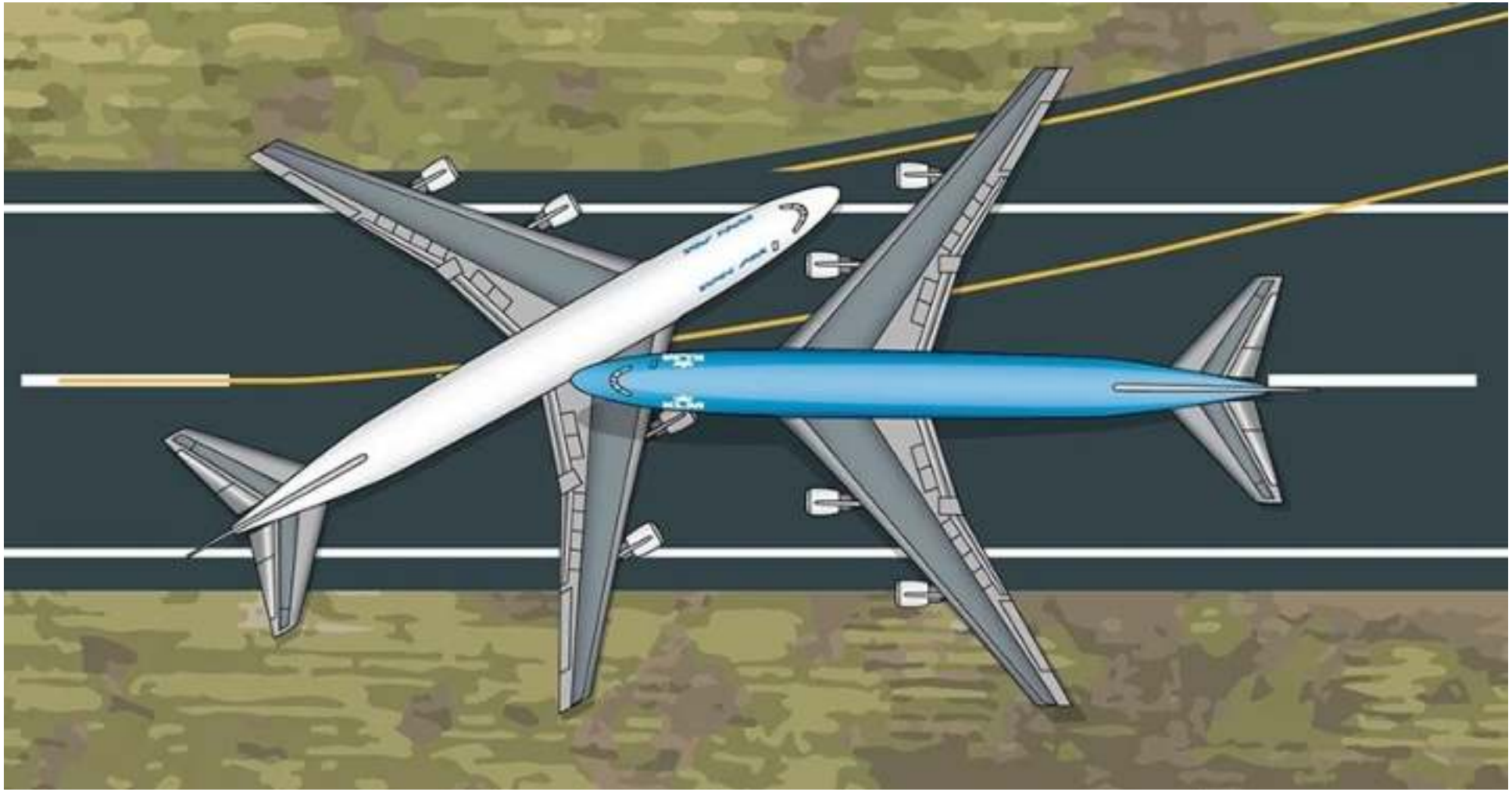
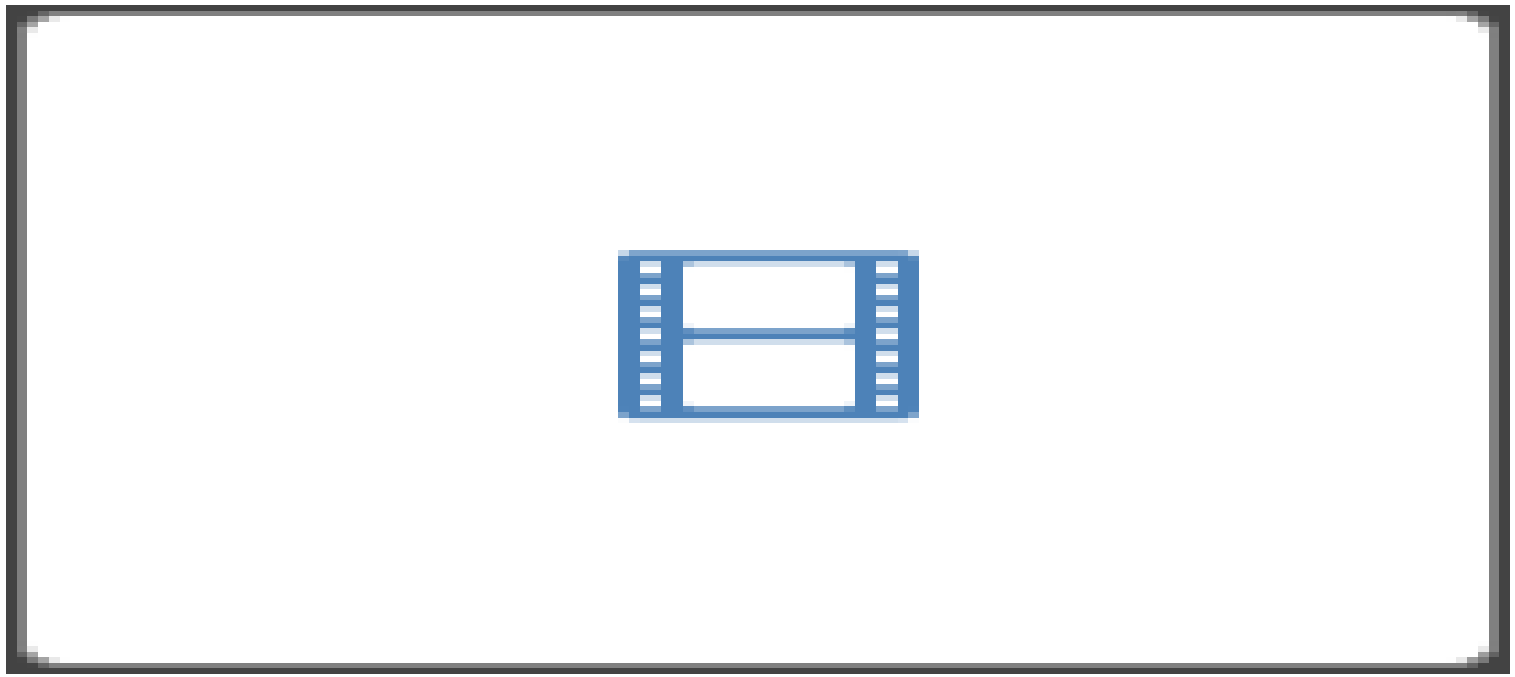
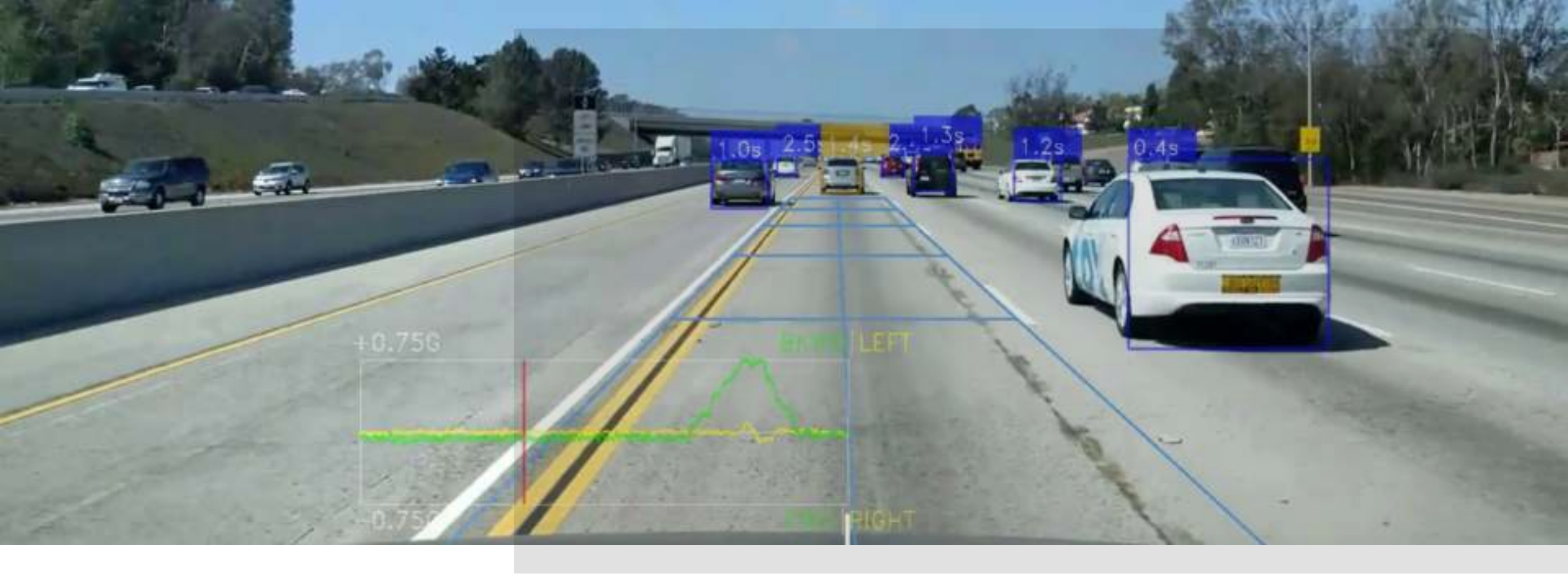
Role of AI in Chemical Industry Logistics

Shivkumar B | 13th October 2023

- 1,56,000
- India road deaths in 2022
- 13,000
- India road deaths per month in 2022
- 450
- India road deaths per day in 2022
- 100
- India road deaths due to drowsy in 2022







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Industry’s most advanced Vision-Based Driver Safety System
Industry’s most extensive collection of Rich, Vision Based Driving Data

Common Chemicals Fleet-Safety Concerns

Advanced Monitoring

Monitoring time-sensitive chemicals/materials

Whether fleet is taking advisable/safe route or taking shortcut to reach faster

Unsafe Roads

Increased number of road accidents

Unsure about driver' following rules (including no consumption of alcohol)

Litigation Exposure

Third-party litigations, including insurance claims missing proofs and video clips

Unexpected Costs

Loss of material, human life, environmental damage, increased insurance costs

Driveri - Revolutionizing Safety Standards

Enhanced Edge Computing

Nvidia TX2 - Double efficiency, double computing power for better machine learning, minutes/mile analysis

Quad HD Camera

Front: HDR / 1080p / 30fps/120dB HDR
Inward: HD / 1080P /30FPS
Side: HD/720P

Storage

Event access: Up to 100 hours of real-time searchable video stored on device

Driver Alerts

Driver initiated alerts

Connectivity

Wi-Fi and Bluetooth

Vehicle Data

J1939 / OBDII
Data integrity
API / Data Integration

Internal Sensors

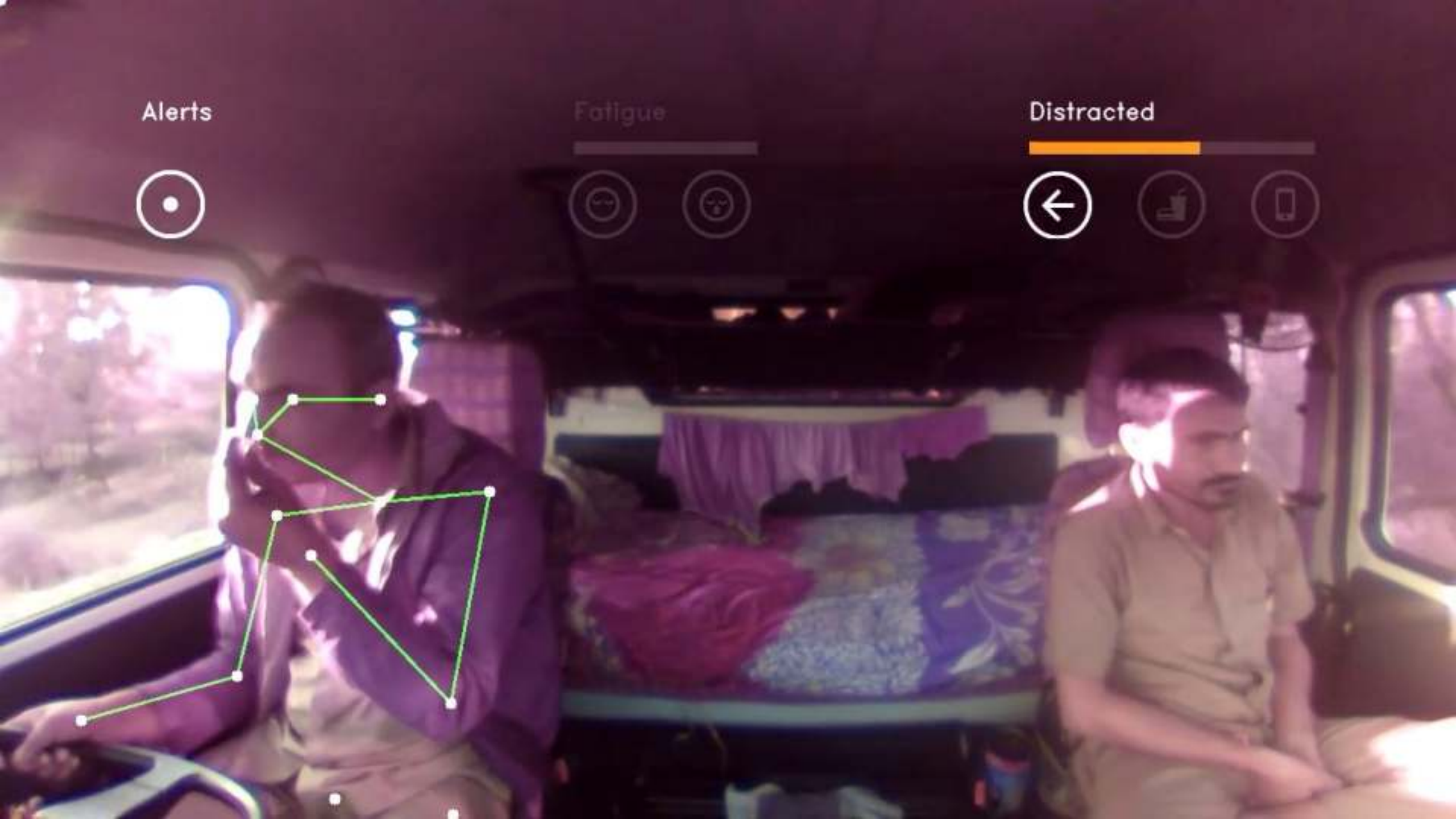
Accelerometer / GYRO / Magnetometer

Sudden impact movement detection

9 Axis accelerometer best-in-class low-light performance image sensor designed for a wide range of automotive imaging

Audio Real Time Notifications

Speeding / Following Distance / Distracted / Seatbelt / Drowsy


Alerts
Fatigue
Distracted

Technology with a Purpose

DEVICE

+

SOFTWARE &
CLOUD

+

ANALYTICS

=

SAVING LIVES

driver·i

powered by

netradyne

Driver•i Platform: Data Input > Analysis > Insights

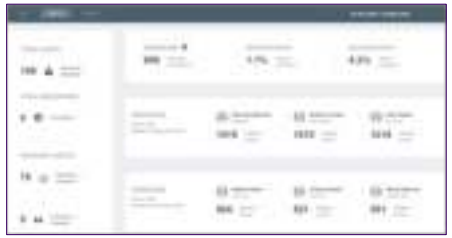
DRIVERI CAPTURES &
ANALYZES 100% OF DRIVING TIME

In-Cab Alerts

Driver App

Management App/Portal

Virtual /Self Coaching



Manager/Driver Review

Real-time Coaching I In-cab Alerts: Distracted Driving Eliminated

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

Driveri® Utilities

- Visual Login System
- Driver Initiated
- Camera Obstructed
- RealTime Notifications
  - Following Distance
  - Max Speed
  - Distracted
  - Stop Sign
  - Posted Speed

External | Vision-Based Event Detection

- Hard Braking [w/causality]
- DriverSTAR Events [Separation Move Over]
- Hard Acceleration
- Following Distance
- Weaving (Beta Testing)
- Hard Turn
- Max 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

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New-Age 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

Reliance Industries Limited

M12 MICROSOFT'S VENTURE FUND

SoftBank

Point72

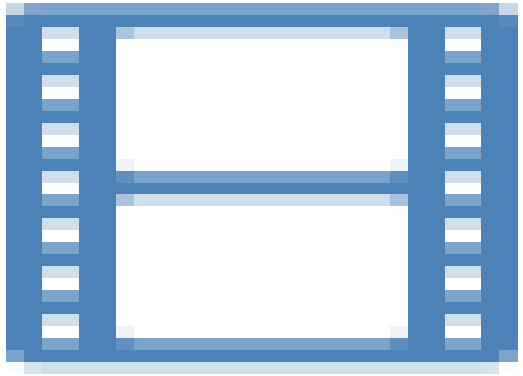
HYUNDAI

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



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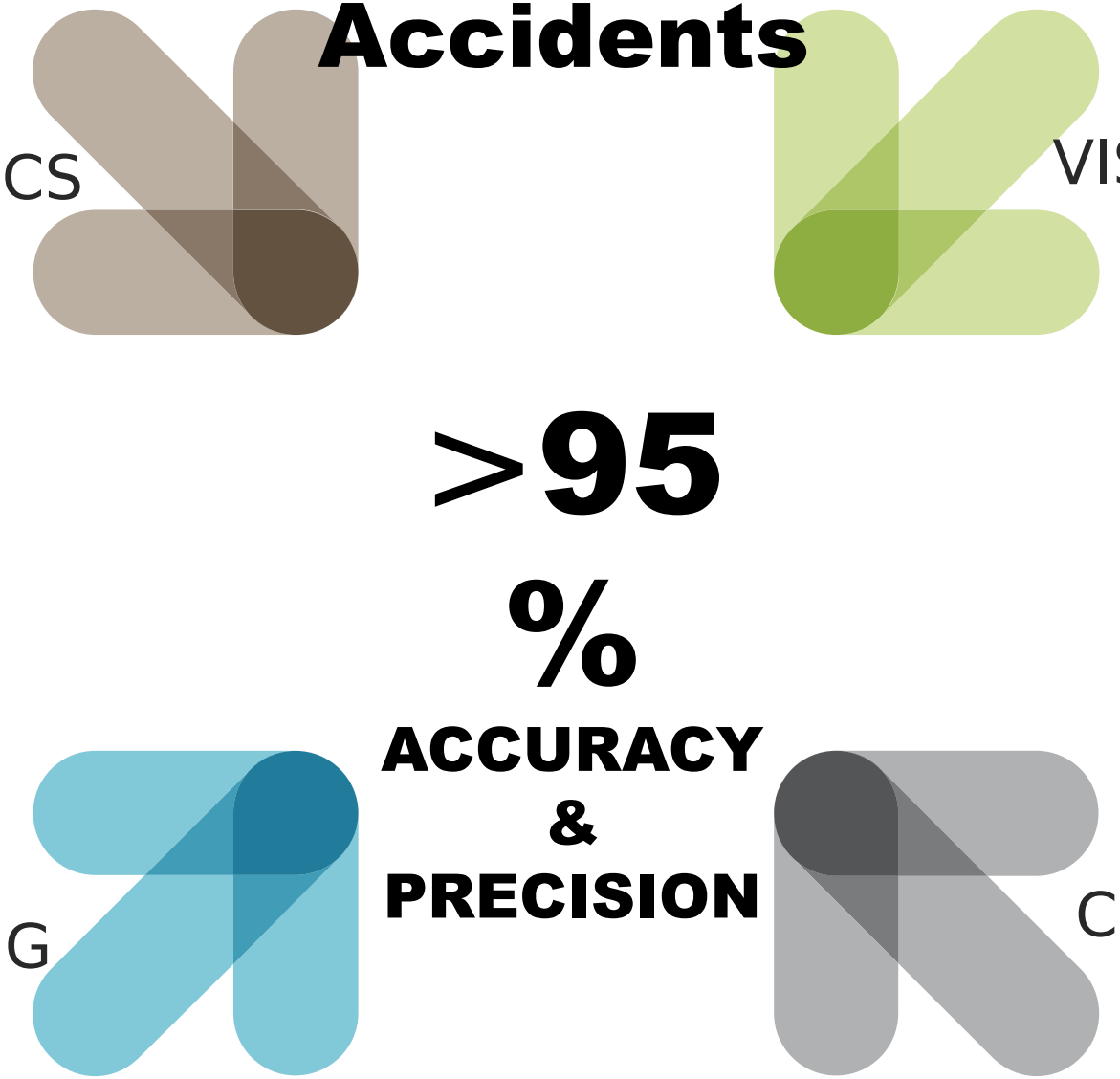
We Protect Precious and Hazardous Cargo

We Make Roads Safer

We Save Lives

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



Early Adopters in India

Thank you