

## **Our History**



#### **ADOR Group - A Legacy Company since**

As we move into a new era, we are consistently striving to deliver Peace of Mind<sup>TM</sup> to our clients by building a progressive customer centric culture that focuses on problem solving, design thinking and simple, yet resilient solutions.





















Diversified businesses across manufacturing, welding, engineering, consumer products, software and technology, renewable energy solutions and e-retail

#### **Ador Traffic Overview**

At Ador, we prioritize safety and innovation to ensure everyone gets home securely every day. Our advanced technology solutions are tailored to meet specific needs and environments, delivering reliable performance and peace of mind

Sector-Wide **Deployment Capabilities** across the globe







**Premises** 



e Zones



**Trams** 



**Bases** 













































100% **Efficient Installations** 

2500+ Successful Installations

200+ **Employee Strength** 



## Ador Traffic Portfolio (1/3)



Speed Display



Speed
Display with
CAMERA



Portable Variable Message Sign



Speed Enforcemen t

## Ador Traffic Portfolio (2/3)



Arrow Sign Board



Variable Message Sign



Impact Attenuator



**Roller Barrier** 

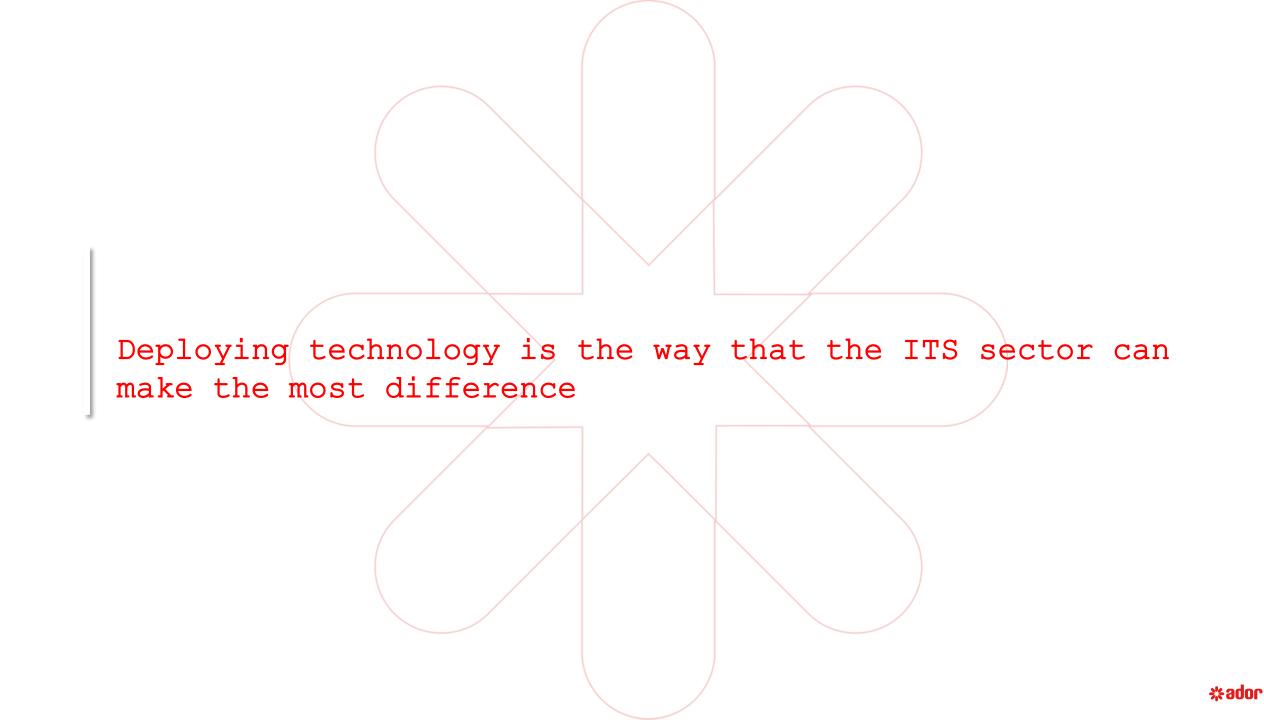
## Ador Traffic Portfolio (3/3)

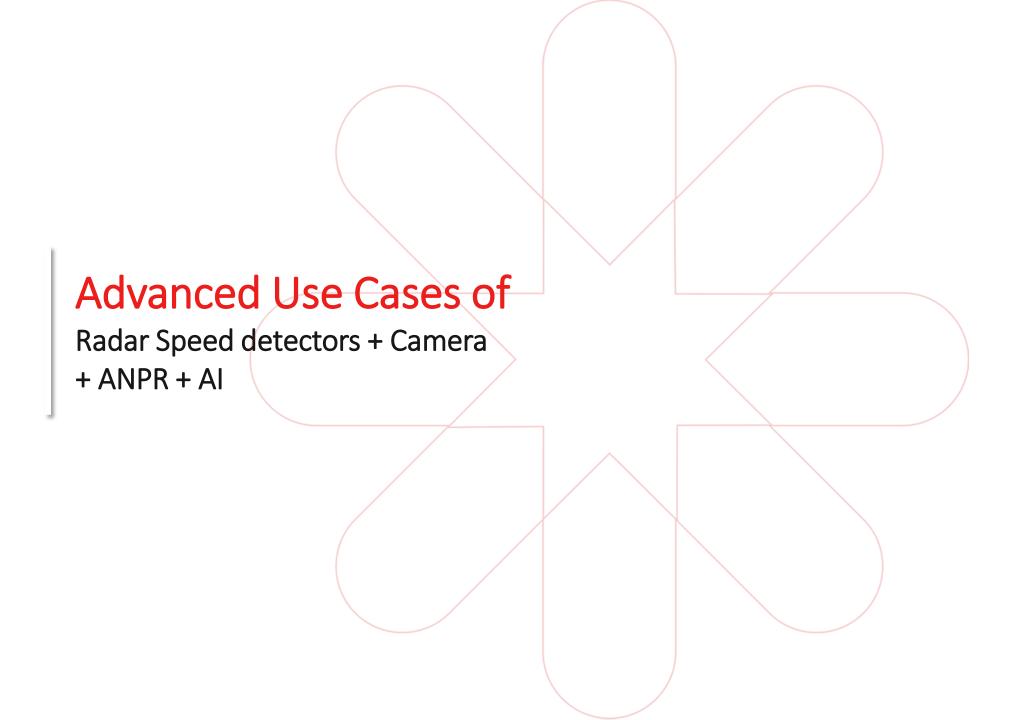














## AI-Driven Speed Enforcement and Traffic Management Solutions



Wrong Way Driving Offences
Detection



Parking/Overstaying on Highways





Crash Detection and Automatic Alerts



High-Risk Spot Identification



Habitual Offender Identification

Leveraging AI along with ANPR technology to enhance road safety, and ensure compliance with intelligent and automated enforcement solutions

#### Post-Crash Automated Detection and Emergency

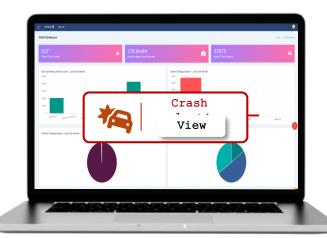
#### Response System



Installed system detects the crash

#### Seamlessly connecting crash detection systems to emergency services for immediate response and improved survival rates

Use case driven by
Automation



Instant Automated Alerts to Traffic Authority with accurate location and live feed

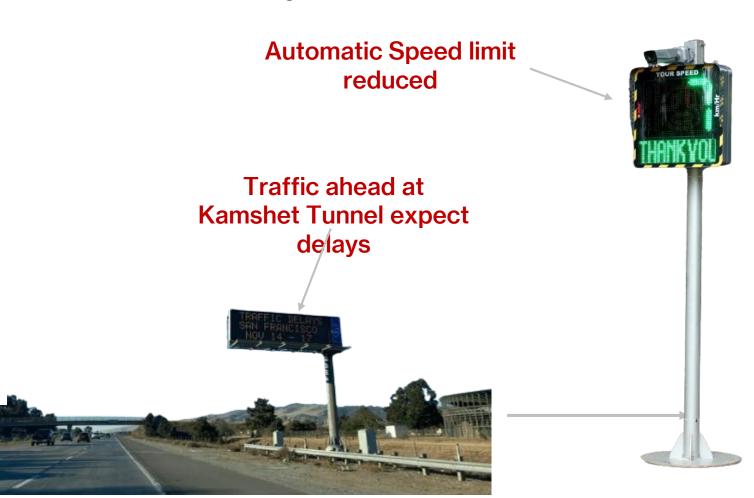


Automated alert is also sent to the nearest hospital, which then dispatches an ambulance

An Al-powered solution will automatically update Variable Message Sign boards and speed limits in realtime based on traffic density or crash detection, through the **smart integration of multiple systems** leading to automated traffic management



Continuously monitor traffic density



Real-time update to Variable Message Sign boards based on Traffic density or crash

Update the speed limit in realtime based on incidents

Leveraging Predictive Analytics for Dynamic Speed Regulation on Highways



- Predictive Analytics will enable the system to predict traffic volumes and identify the peak hours
- System will dynamically implement variable speed limits based on predicted traffic density
- During peak hours, the speed limit would be reduced to improve safety and reduce the risk of accidents
- Conversely, during off-peak hours, the speed limit can be increase to enhance traffic flow and reduce travel times



#### **MULTI-FUNCTION ENFORCEMENT SOLUTION**

Ador has successfully developed, manufactured, and operated a solution for a full-scale enforcement program targeting the causes of 2 in 3 road deaths



**Distraction** 

**Seatbelt** 

**Point Speed** 

**Average Speed** 

Unregistered

## Challenges for ANPR – India

Standardised Indian number plate as per national regulations



## ANPR –





## ANPR –







## ANPR -







## ANPR -





## ANPR –





## SPEED ENFORCEMENT TECH -

Commuter & police force confidence in the technology implemented is necessary

- Enforcement must be consistent
- Infringement evidence must stand up in court
- Penalties must be punitive
- System benefits must outweigh costs
- System complexity must be kept to minimal to allow for early success

Typical Infringement Eviden

2 ultra high definition pictures per infringement which can be simultaneous for both directions

Date and time stamp information

Location stamp

🧚 Speed zone and actual speed for multiple vehicles in same frame

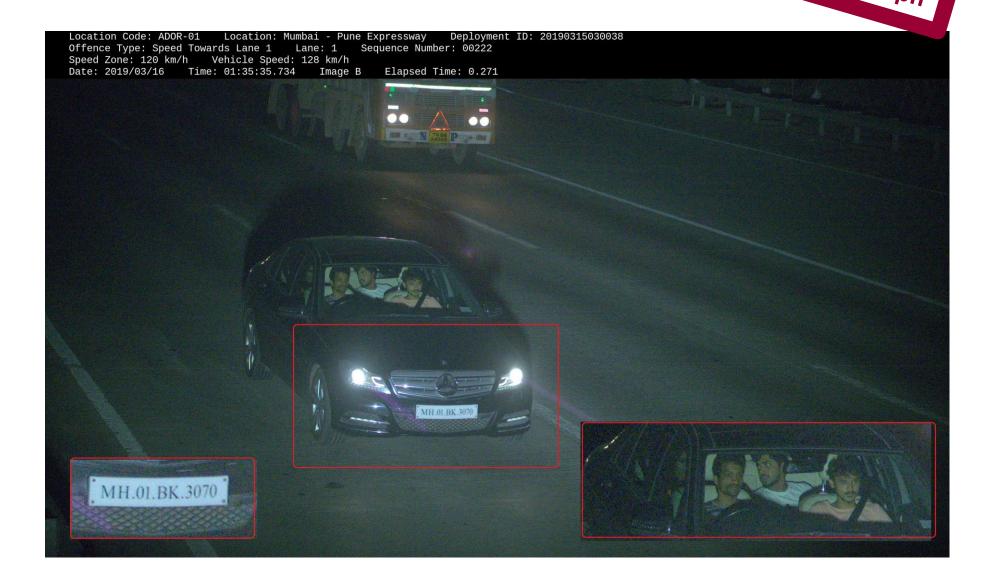
Vehicle direction & classification

Picture can be blown up to very large size to read number plates due to high def format



# Typical Infringement Eviden Night Time 128kmph @ night

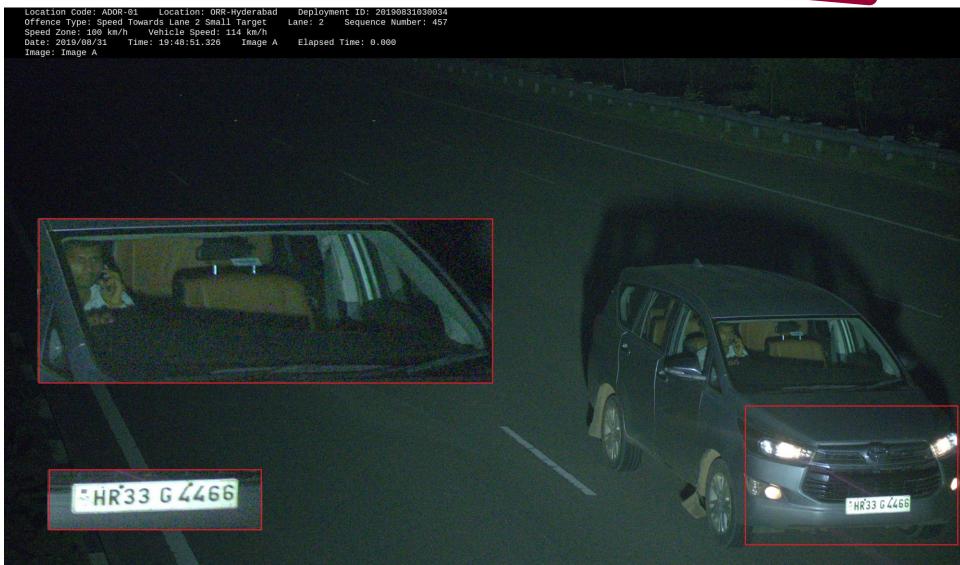
\* Mumbai Pune Expressway 128kmph @ night



## DISTRACTED DRIVING

Hyderabad - ORR

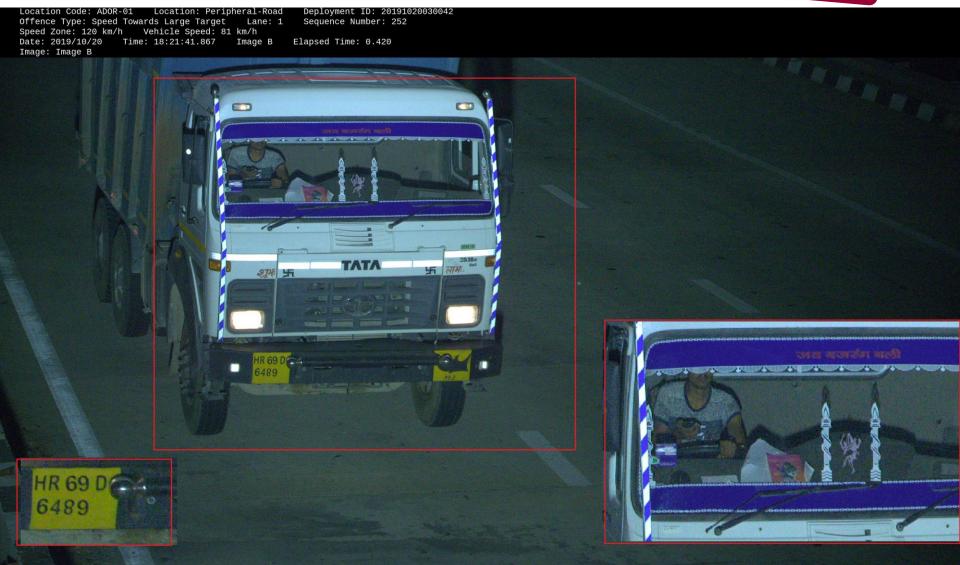




## DISTRACTED DRIVING

Delhi Eastern Peripheral

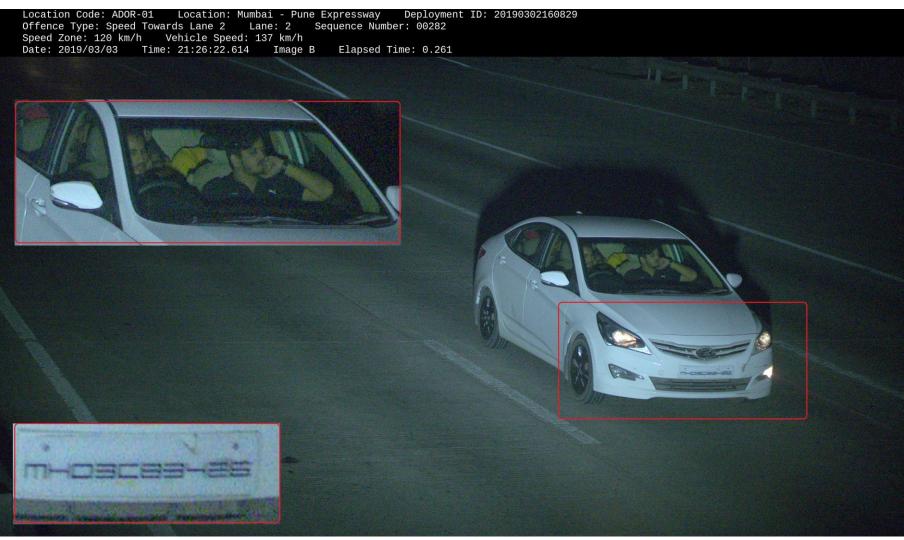


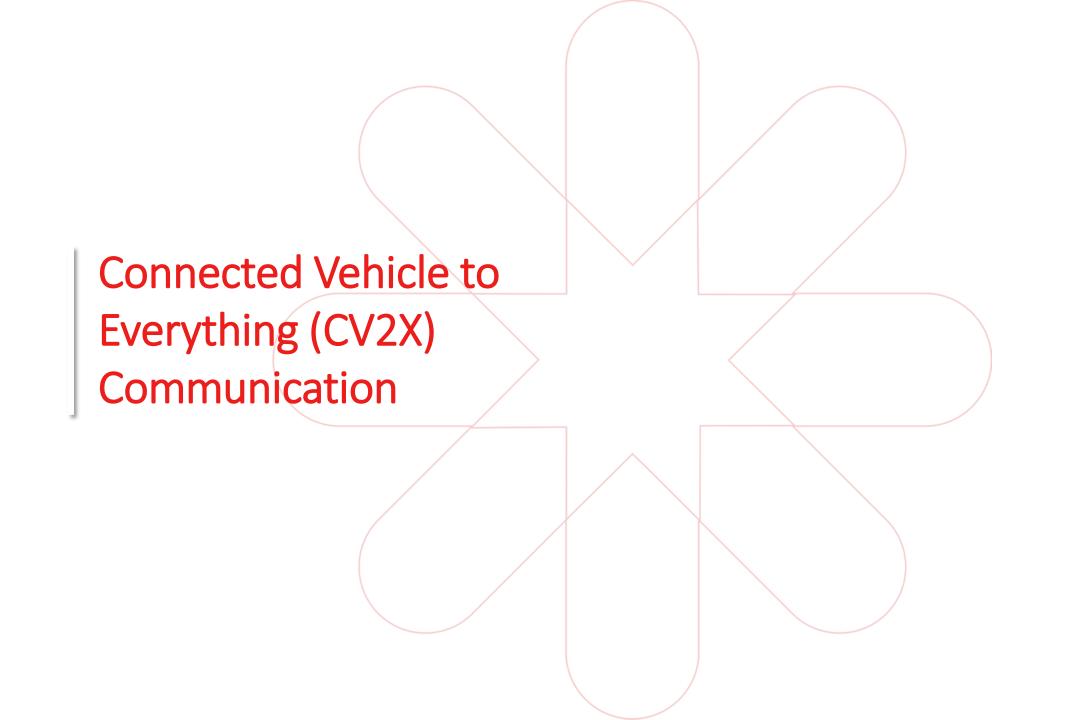


## SEAT BELT ENFORCEMENT

\* Mumbai Pune Expressway



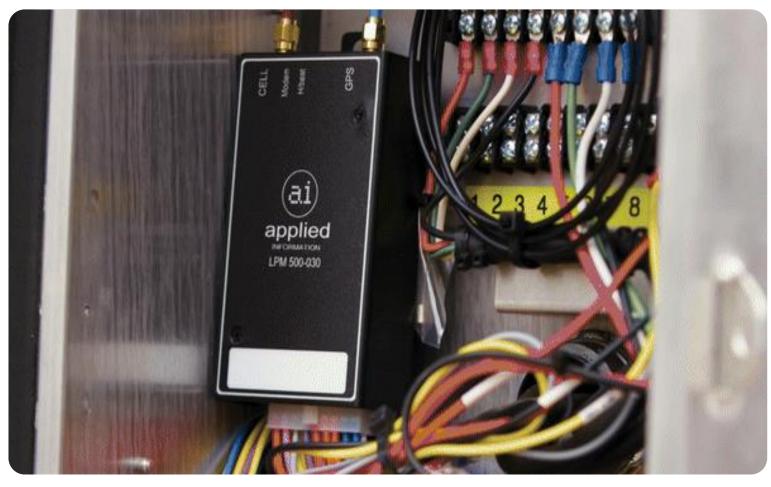




#### Enhancing Transportation with Connected Vehicle-to-Everything (CV2X)

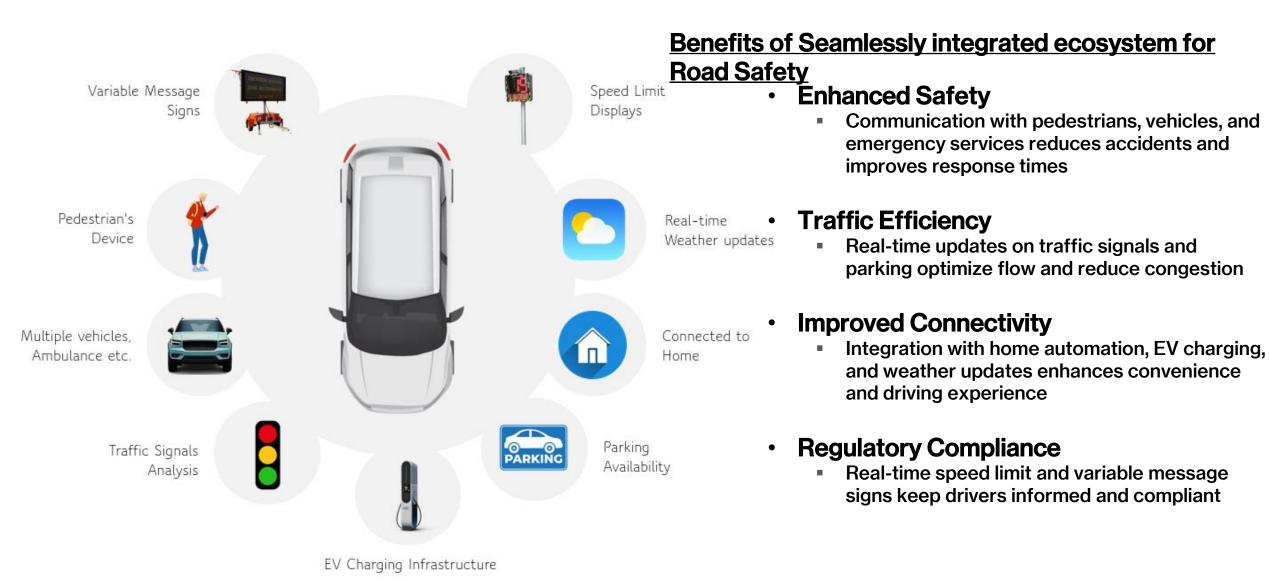
#### Communication

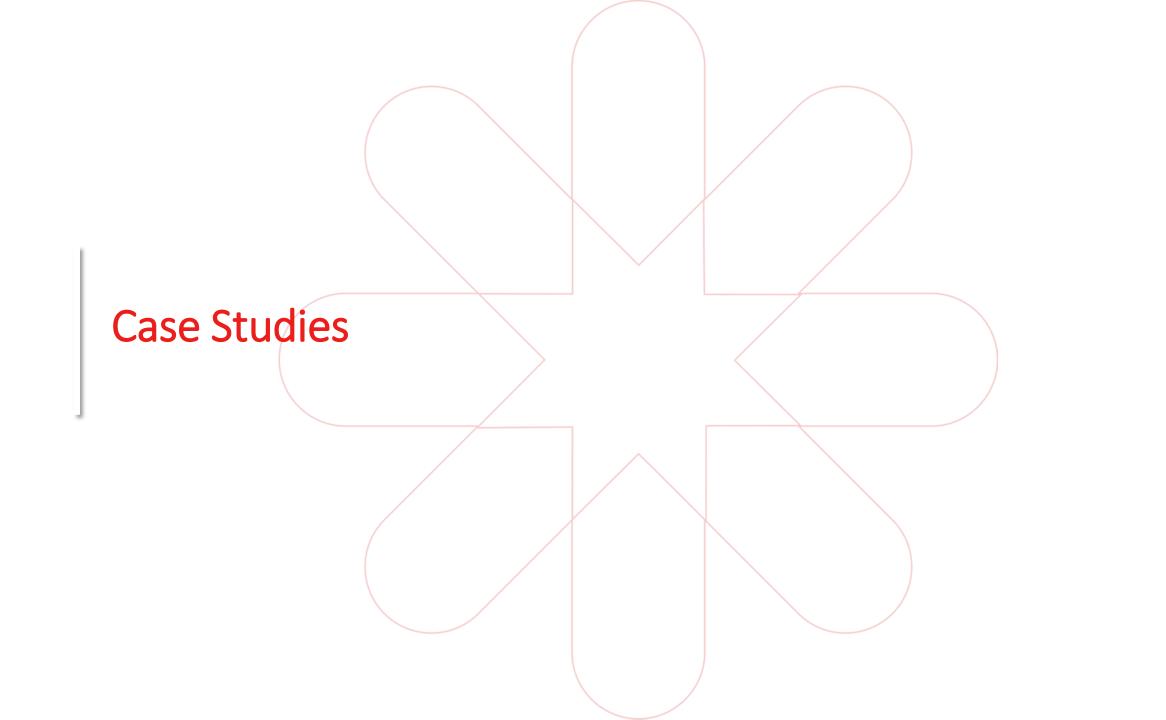
CV2X is the idea to connect and exchange information between multiple devices involved in transportation with the goal to improve safety and enhance traffic flow.



# V2X encompasses multiple communication technologies:

- 1. Vehicle to Vehicle (V2V) Direct communication between vehicles allowing them to share data such as position and speed as well as possible dangers detected by the vehicle's sensors. This would help to prevent accidents and to improve traffic flow
- 2. Vehicle to Infrastructure (V2I) Communication between vehicle and roadside infrastructure (traffic lights, road signs, weather sensors, etc.)
- 3. Vehicle to Pedestrian (V2P) Communication between vehicles and pedestrians' personal devices, such as a cellphone, and alert them or vice versa
- 4. Vehicle to Network (V2N) Communication between vehicles and external networks to access real-time data such as traffic analysis, weather, parking locations, etc.





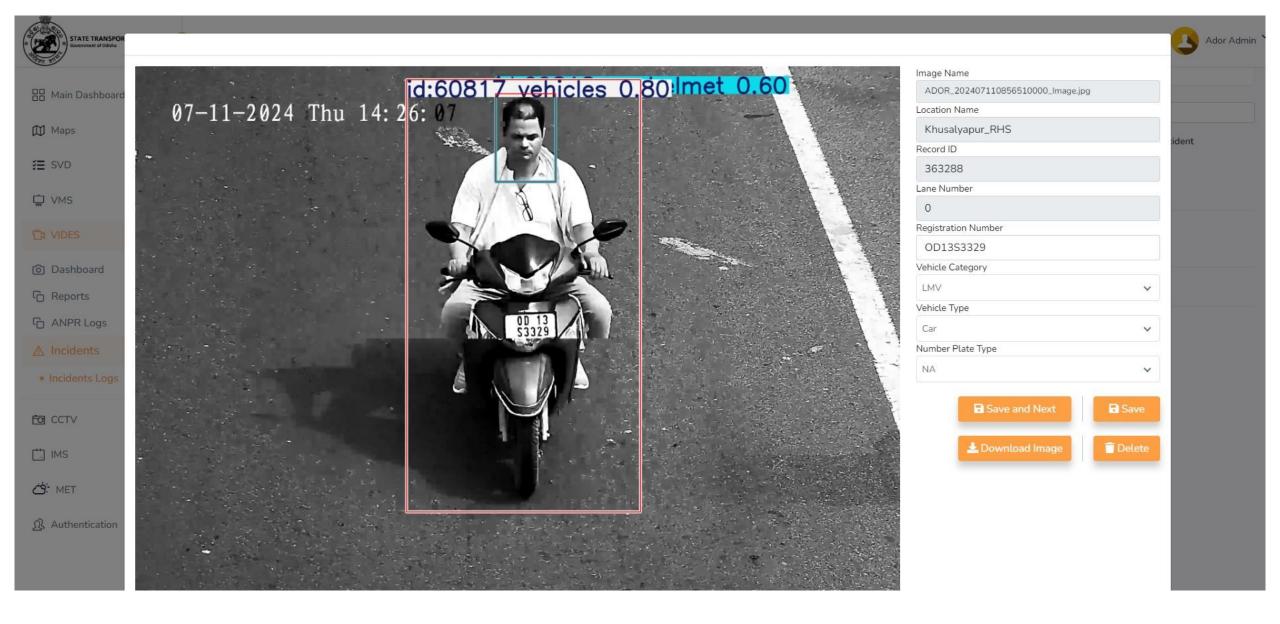


Successful Implementation of the Intelligent Enforcement Management System (IEMS) for Odisha State Transport Authority





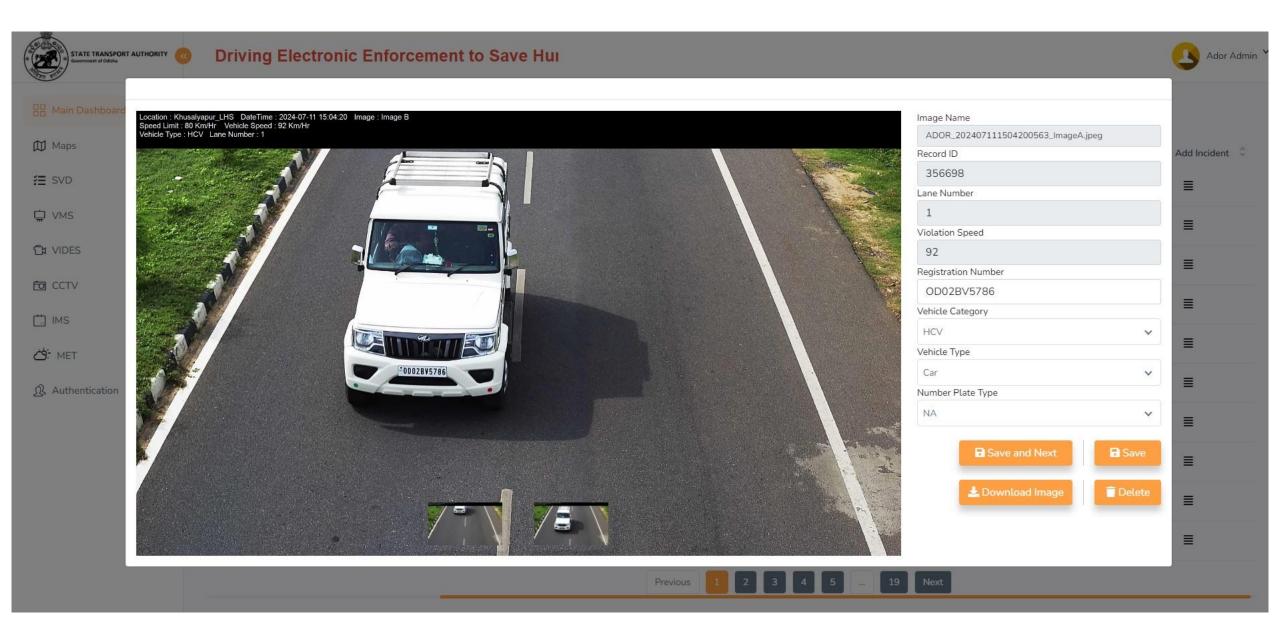




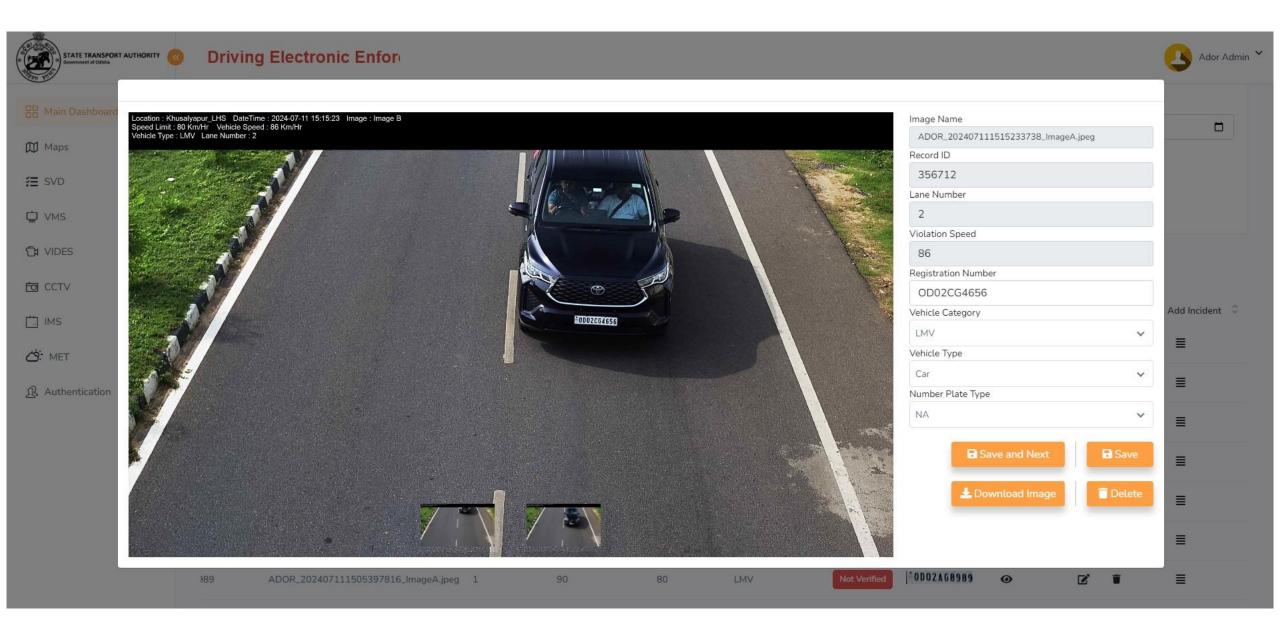
**No Helmet** 



**No Helmet** 



Over speeding



Over speeding

