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Traffic *Infra* Tech
EXPO
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COS AI PRODUCT BROCHURE

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www.cosai.in

ATCC - TOLL Automatic Traffic Counter and Classifier



Adhering to



NHAI
National Highways Authority of India

Guidelines



IHMCL
Indian Highway Management
Company Limited

Exclusively
for
Toll Managers

Why AI based ATCC for Toll Plaza?

AI-powered traffic counting and classification systems outperform traditional sensors, providing precise real-time data. They seamlessly integrate with toll plaza management software, offering cost-effective solutions and improved operational efficiency with minimal maintenance.

Why choose COS AI ATCC?

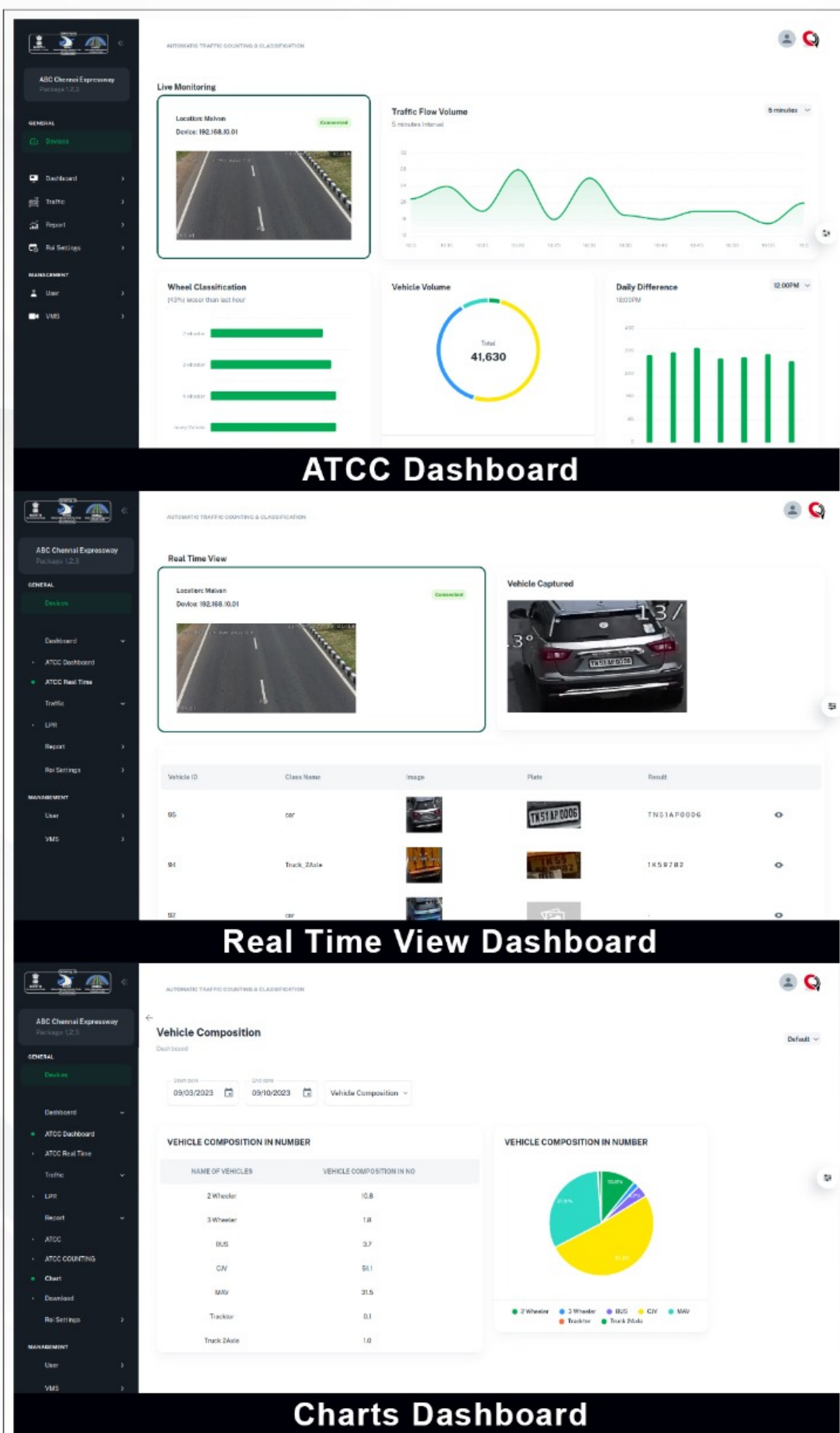
COS AI provides customized solutions for toll plazas, with adaptable hardware and software tailored to diverse vehicle types and axle counts. Its user-friendly interface integrates seamlessly with existing systems, enhancing toll plaza management efficiency.

How ATCC works?

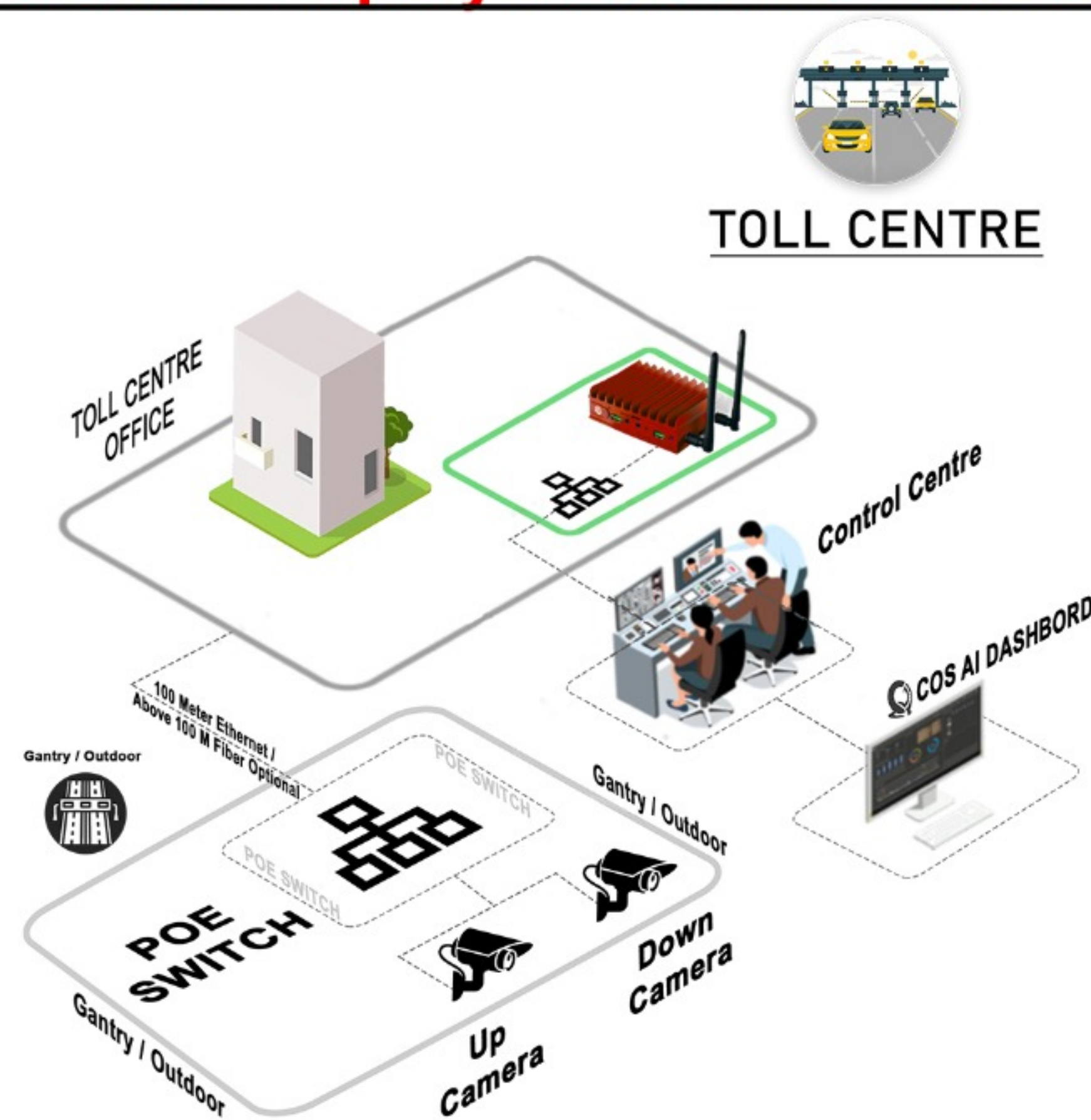
The camera on the gantry near the toll plaza transmits video through optical cables, and with the assistance of COS AI software, an LPU kit in the toll office performs analytics. The real-time traffic data is then showcased on a separately provided computer interface.

Key Features:

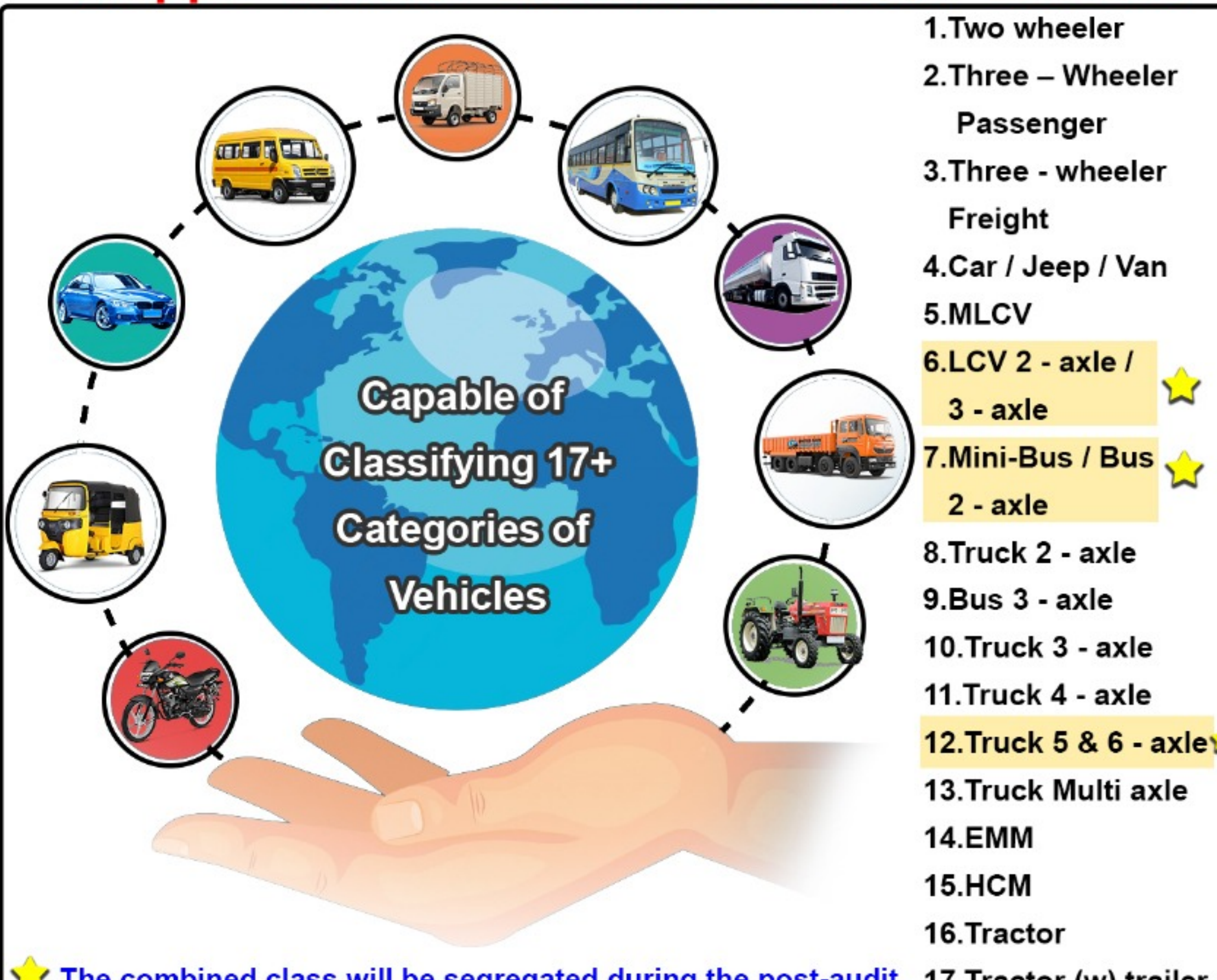
- ★ Detects more than 17 classes, covering most of the NHAI Mapper Vehicle Classes (20 classes).
- ★ Achieves 95% classification accuracy and 98% counting accuracy.
- ★ Validation of the toll plaza traffic is done using other installed methods.
- ★ Flexible post-editing options and an excellent report format for comprehensive toll management.



COS AI Deployment Architecture

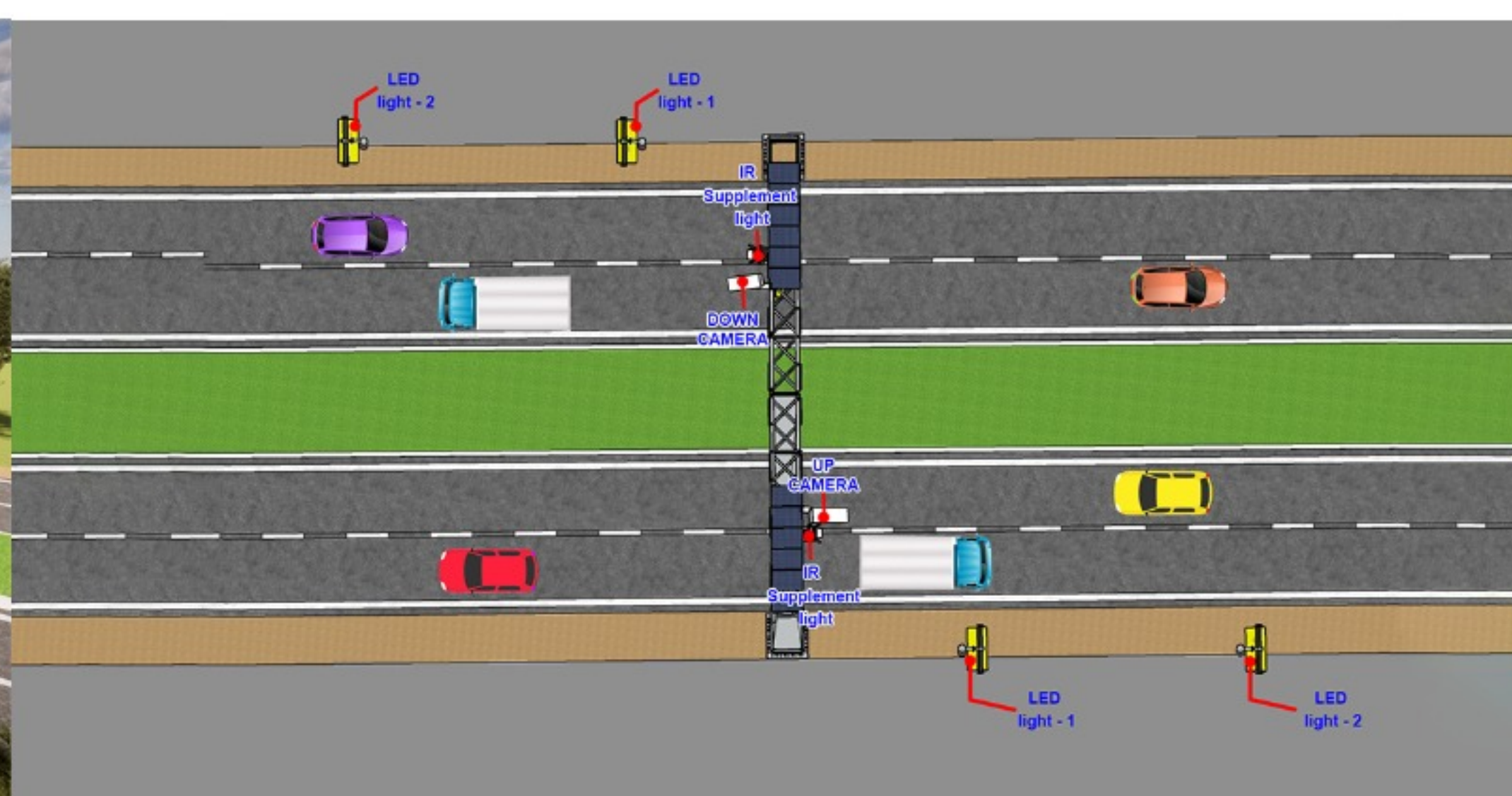


Mapper Vehicle Classes vs COS AI Classes



COS AI 's Indicative ATCC Toll Components (For 4 / 6 lane Highway section)

Sl.No	ATCC Toll Components	Qty.	Unit	Cost per unit + Tax	Remarks
1	COS AI ATCC Toll Software	1	No.	Contact	COS AI
2	Hardware of COS AI LPU Kit	2	Nos.	Contact	COS AI
3	IP Camera 2MP / 5MP - HIKVISION / DAHUA	2	Nos.	Contact	Client
4	IR Supplement Light for 2 Cameras	2	Nos.	Contact	Client
5	Lighting Pole for 8.0m Pole with 1m Arm @ 5.5m	4	Nos.	Contact	Client
6	PoE Switch TP Link / HIKVISION (4 Port)	1	No.	Contact	COS AI
7	Internet Dongle	2	Nos.	Contact	COS AI
8	FIBER Cable / Media Converter to connect 2 Cameras to Toll Centre Desktop and LPU Kit	1	No.	Contact	Client
9	LED Focus Lamp 1000W / 500W as per the Plan Diagram	6	Nos.	Contact	Client
10	To viewing the real time scenario - Desktop (Specs.:i5/ 16GB RAM / 1 TB SSD)	1	No.	Contact	Client
11	8 Port Gigabyte Ethernet switch for LAN purpose	1	No.	Contact	Client



Terms & Conditions

- ★ The client is responsible for covering the costs associated with Uninterrupted Power Supply, lighting, Internet Broadband line, Network Cabling, Camera mounting, and any other miscellaneous works.
- ★ Camera installations must be positioned at a minimum height of 18 feet above the surface.
- ★ Any expenses related to establishing connectivity from the camera pole to the toll center, including fiber connectivity, are the responsibility of the client.
- ★ Two lights will be installed, necessitating the placement of two poles in front of the camera pole. A minimum space of 20 meters between each pole is required on both LHS and RHS. Additionally, a third light will be installed near the camera with a road-focused beam.
- ★ The video coverage area must not have stationary vehicles parked within it. Only through-traffic is preferred.
- ★ For Toll Plaza installations, it is recommended that only through-traffic be accommodated.
- ★ Usage in areas with mixed traffic, such as road crossings, traffic signals, or leakage roads, is not recommended.
- ★ If a customer requests usage on road crossings, service roads, leakage roads, etc., a separate product should be explored.



ATCC MOVABLE Automatic Traffic Counter and Classifier



Adhering to



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National Highways Authority of India

Guidelines



IHMCL
Indian Highway Management
Company Limited

Exclusively
for
Traffic Managers &
DPR Consultants



Why AI based ATCC Movable?

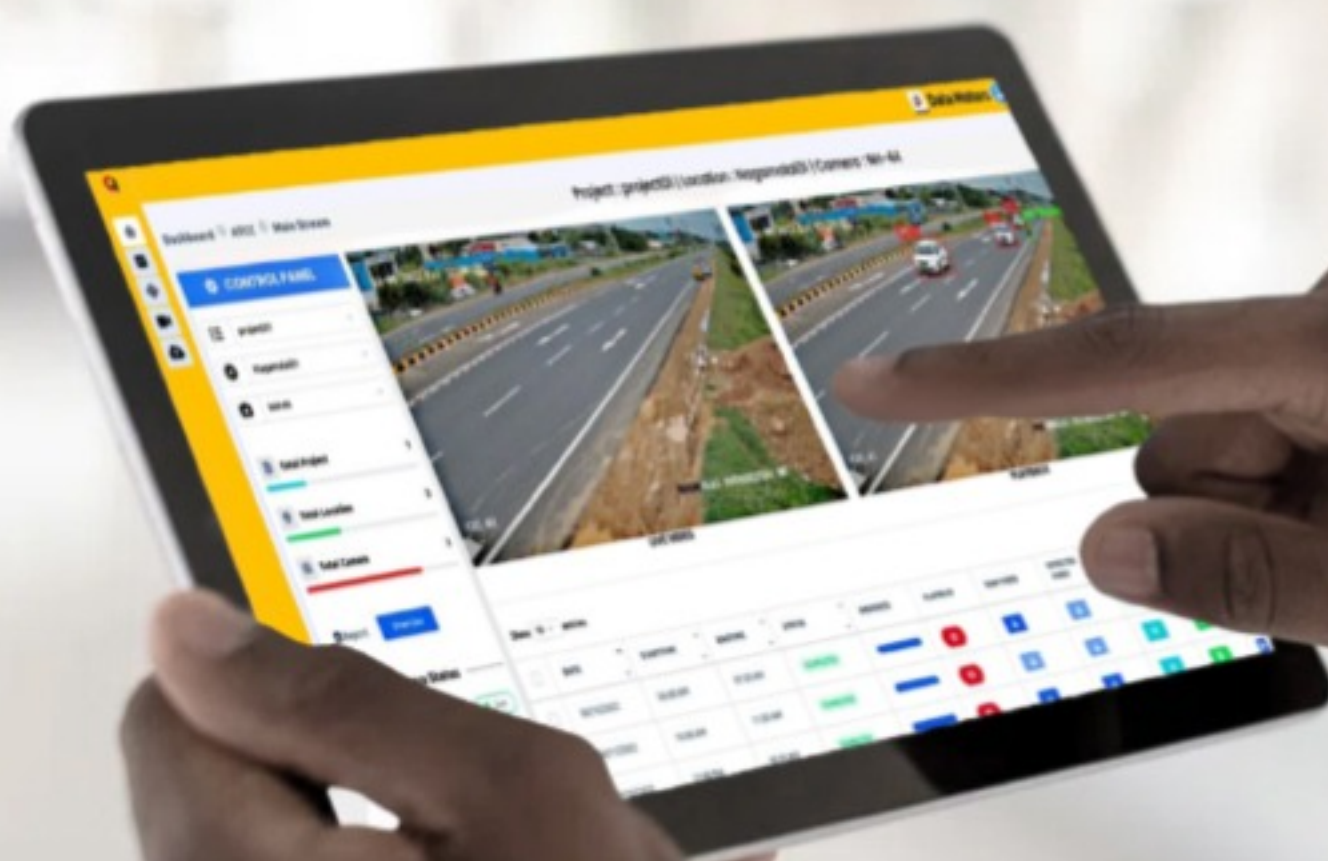
The ATCC Movable system comprises a smart GPU-powered kit, Camera with batteries and other essential accessories, making it highly effective for vehicle detection at any time and in any location. This system is particularly valuable for Traffic Managers and DPR (Detailed Project Report) consultants, aiding them in efficient traffic management and planning.

How ATCC Movable works?

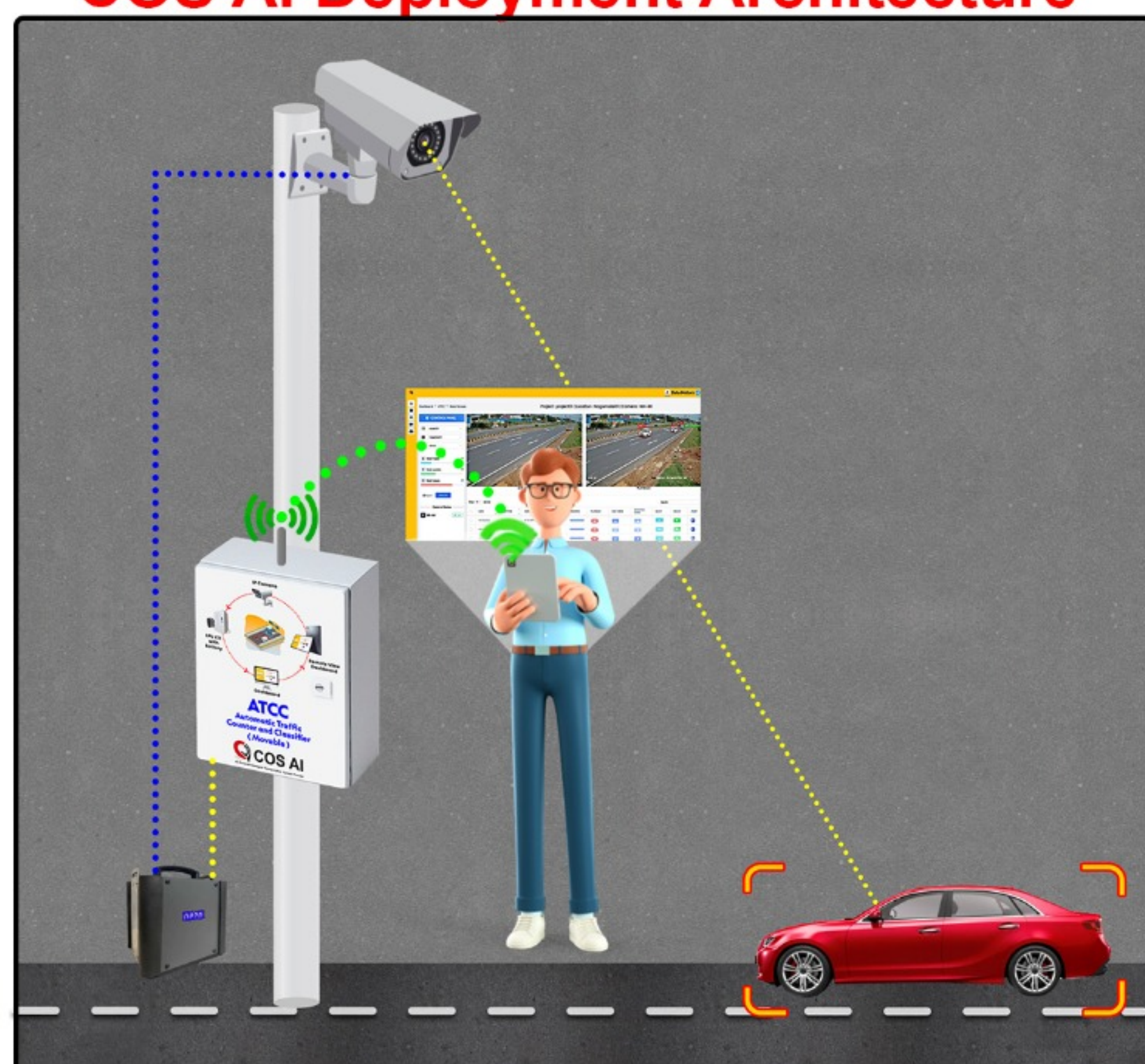
Our supplied cameras are strategically placed at suitable angles to ensure without occlusion of vehicles. A GPU kit, installed alongside the cameras, processes the video data using advanced analytics for accurate detection and classification. The results are displayed in real-time on a dashboard and can be shared with your customers, providing valuable insights into traffic patterns.

Key Features:

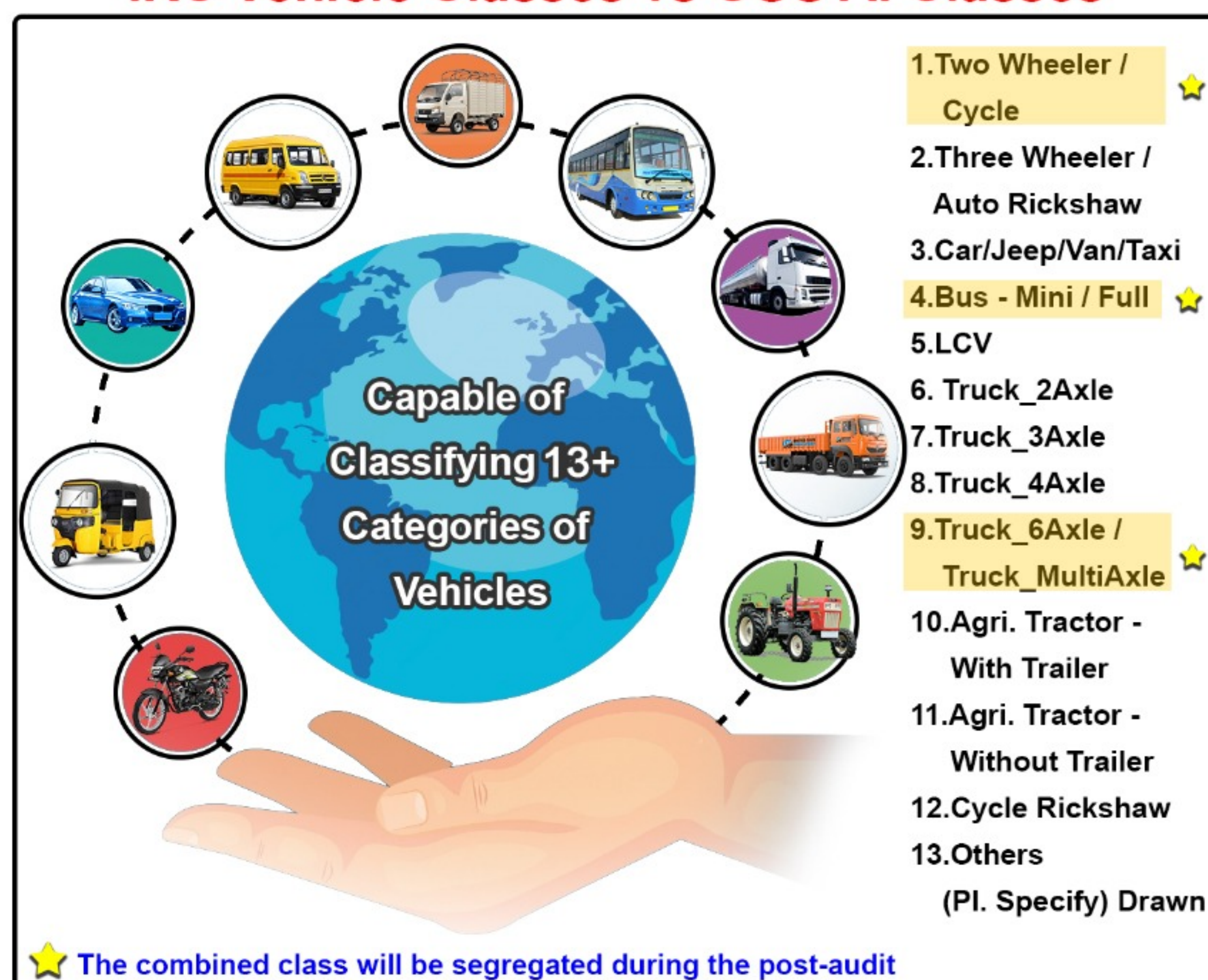
- ★ Detects more than 13 Classes, covering most of the IRC Classes(16 Classes).
- ★ Achieves 95% classification accuracy and 98% counting accuracy after post audit.
- ★ Portable and easily transported to any location.
- ★ Designed specially for Indian roads.
- ★ Detects vehicle axle configuration.
- ★ Free Flow Traffic Count & Classification up to 4 lanes.



COS AI Deployment Architecture

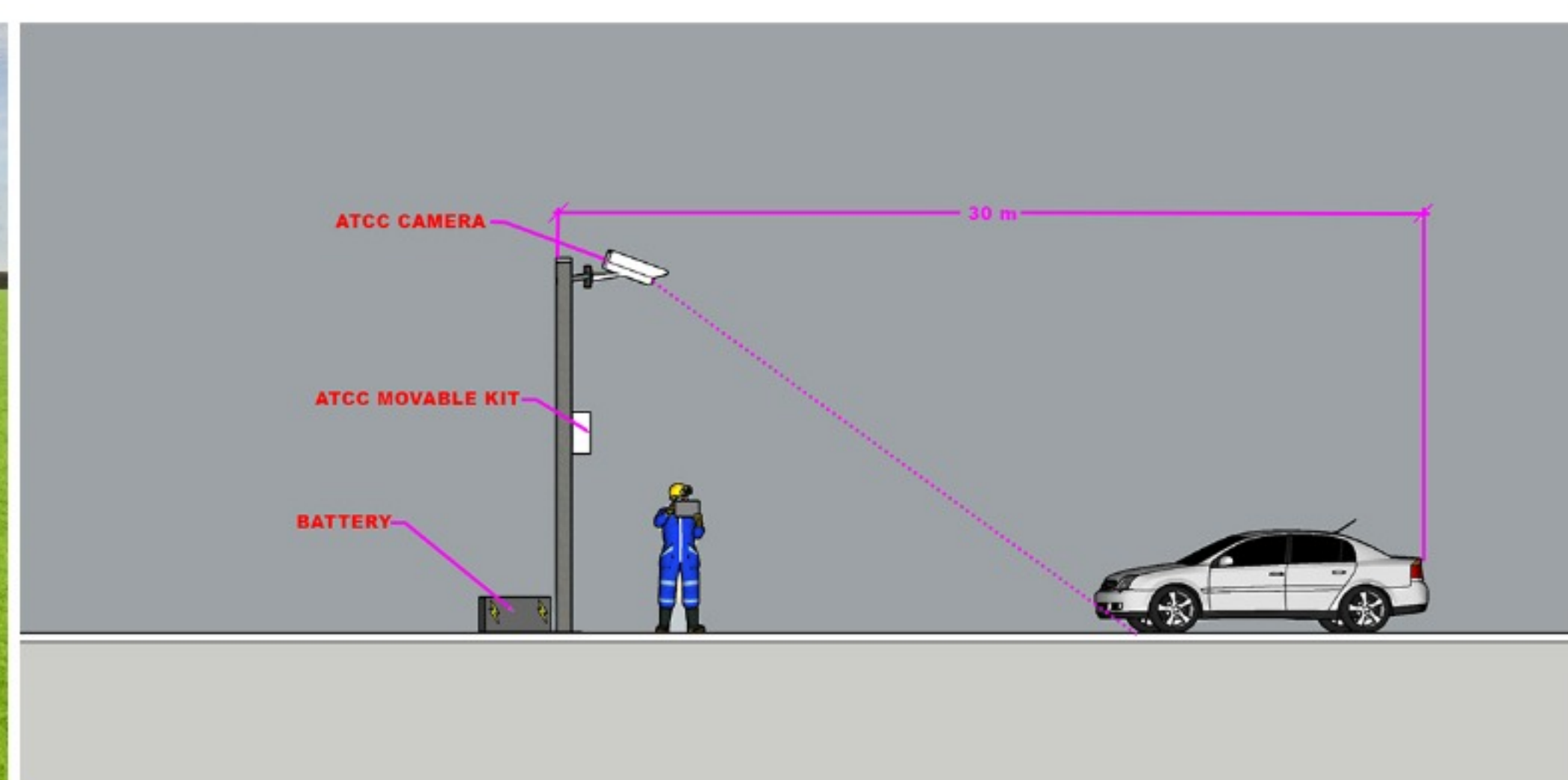
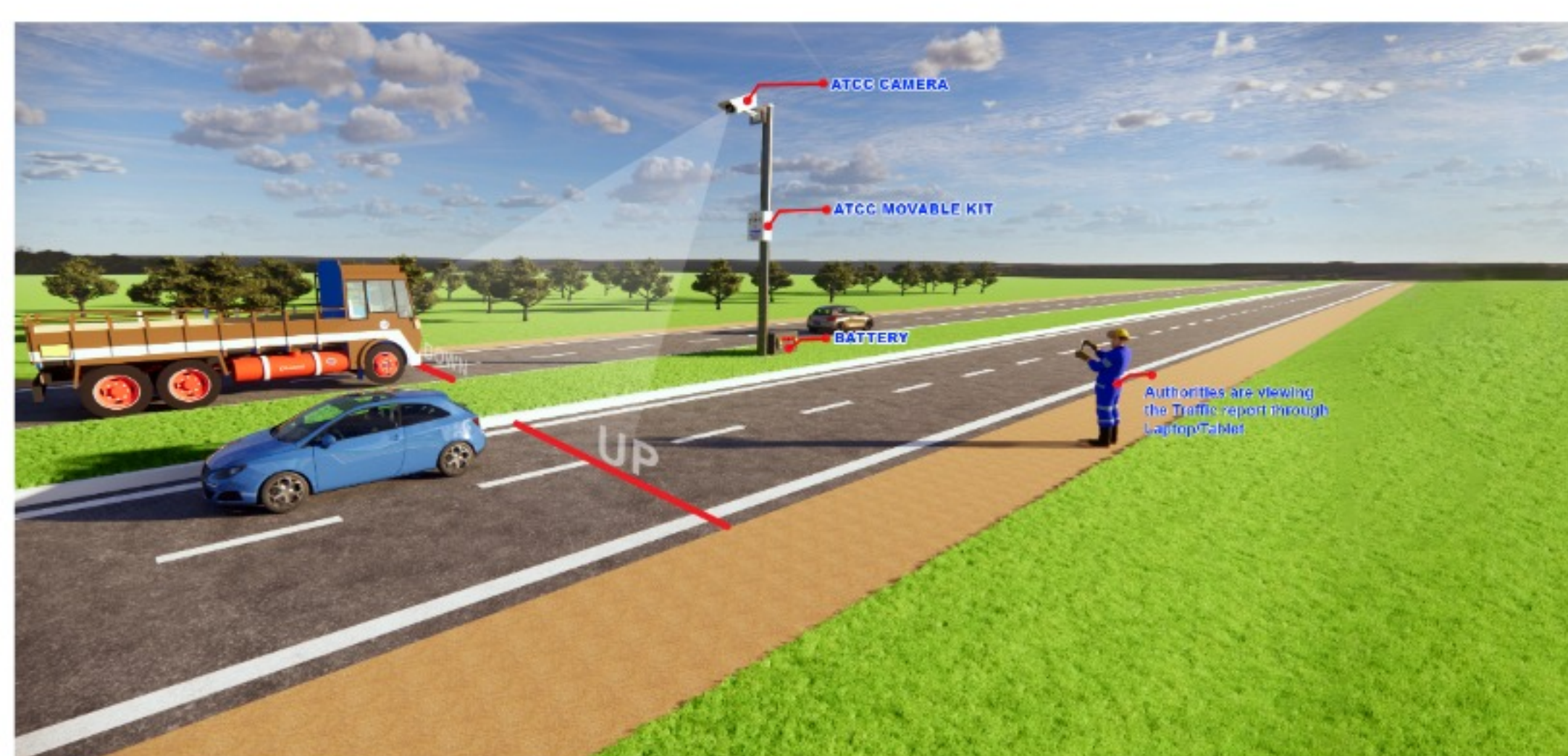


IRC Vehicle Classes vs COS AI Classes



COS AI 's Indicative ATCC Movable Components - (One location One kit for 2-lanes)

Sl.No	ATCC Movable Components	Qty.	Unit	Cost per unit + Tax	Remarks
1	COS AI ATCC Movable Software	1	No.	Contact	COS AI
2	Hardware of COS AI LPU Kit	1	No.	Contact	COS AI
3	IP Camera 2MP / 5MP - HIKVISION / DAHUA	1	No.	Contact	Client
4	8m Telescopic tube	1	No.	Contact	Client
5	PoE Switch TP Link / HIKVISION	1	No.	Contact	COS AI
6	Internet Dongle	1	No.	Contact	COS AI
7	To viewing the real time scenario				
	Laptop (Specs.: i5/ 8GB RAM / 512 GB SSD) - Optional	1	No.	Contact	Client
	Tab (Windows / Android)	1	No.	Contact	Client
8	APPA Portable Lithium-ion battery for LPU Kit and Camera power supply (Up to 10 hours backup)	1	No.	Contact	Client / COS AI



Terms & Conditions

- ★ The client is responsible for covering the costs associated with Uninterrupted Power Supply, lighting, Internet facilities, Network Cabling, Camera mounting, and any other miscellaneous works.
- ★ Camera installations must be positioned at a minimum height of 12 feet above the surface.
- ★ The video coverage area must not have stationary vehicles parked within it. Only through-traffic is preferred.
- ★ Usage in areas with mixed traffic, such as road crossings, traffic signals, or leakage roads, is not recommended.
- ★ If a customer requests usage on road crossings, service roads, leakage roads, etc., a separate product should be explored.



AI Based Traffic Camera



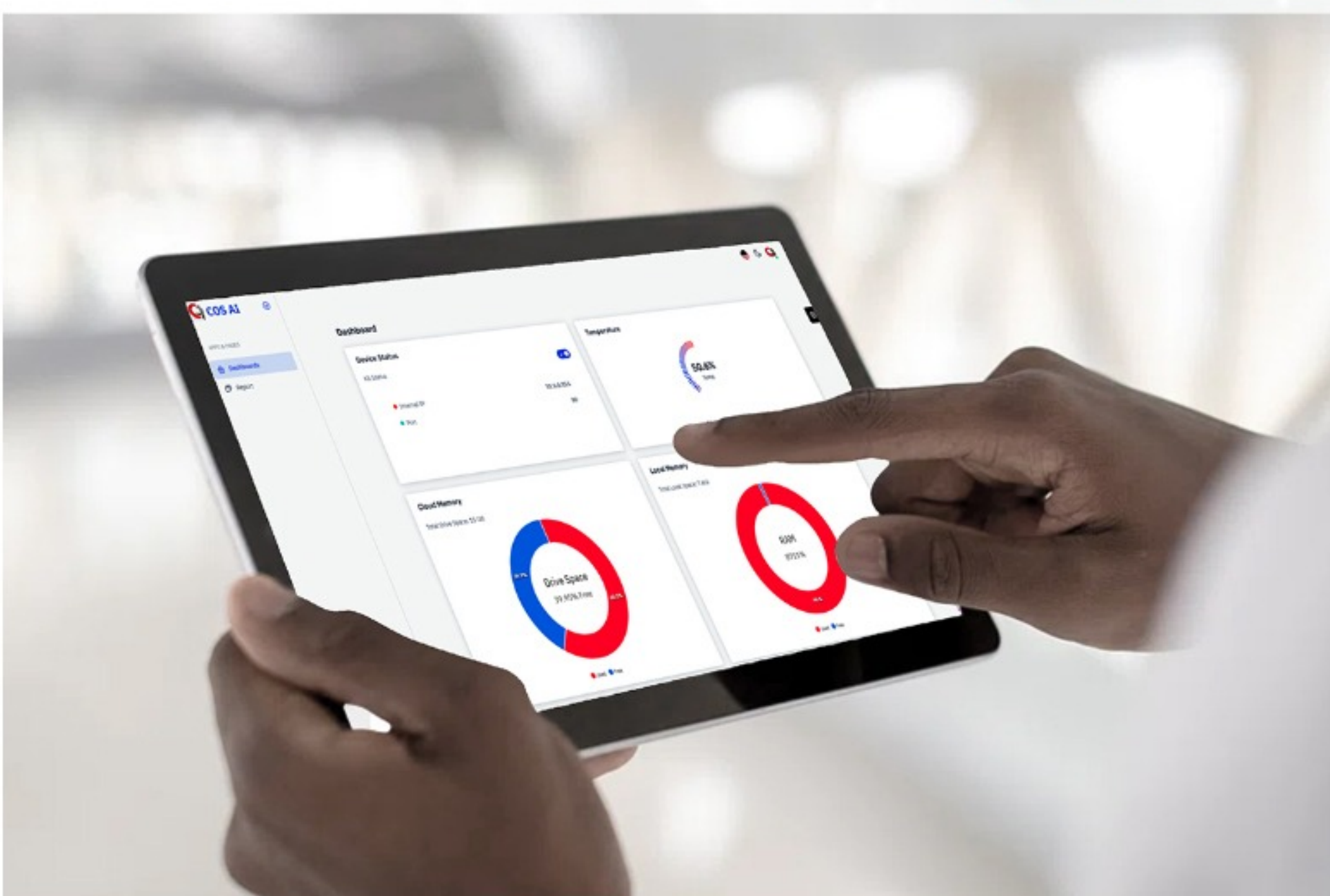
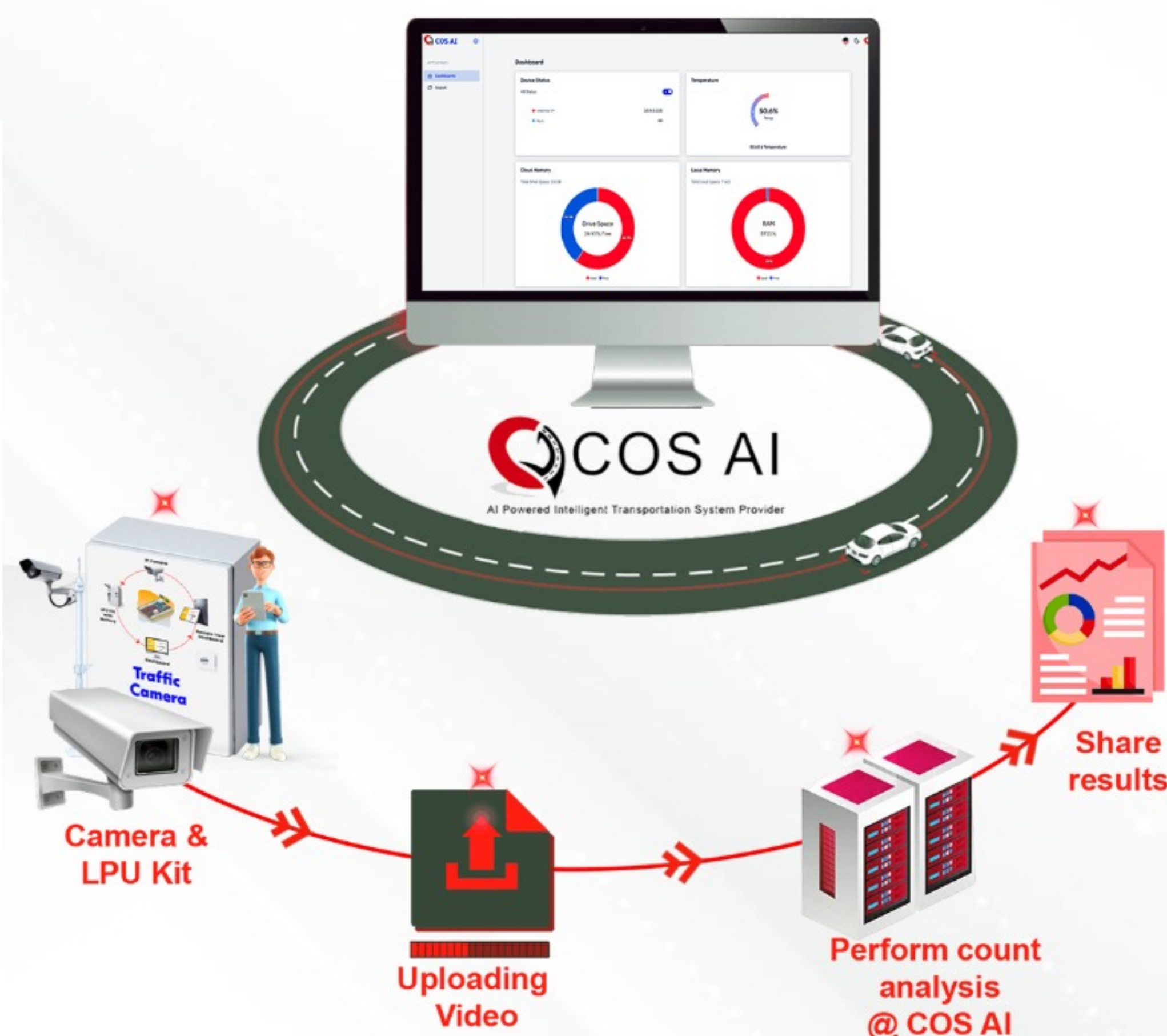
Exclusively
for
Traffic Surveyors

Why AI Based Traffic Camera for Traffic Manages and DPR Consultants?

The Traffic Camera is exclusively developed for traffic managers, offering a kit without NPR and heavy-weight batteries. The videos captured at the site are seamlessly transferred to our COS AI office for efficient detection. This process significantly reduces both time and cost, providing an economical solution. Long waiting times for video transfer and manual detection are completely eliminated, making it a remarkably smart product. Share results promptly with your customers.

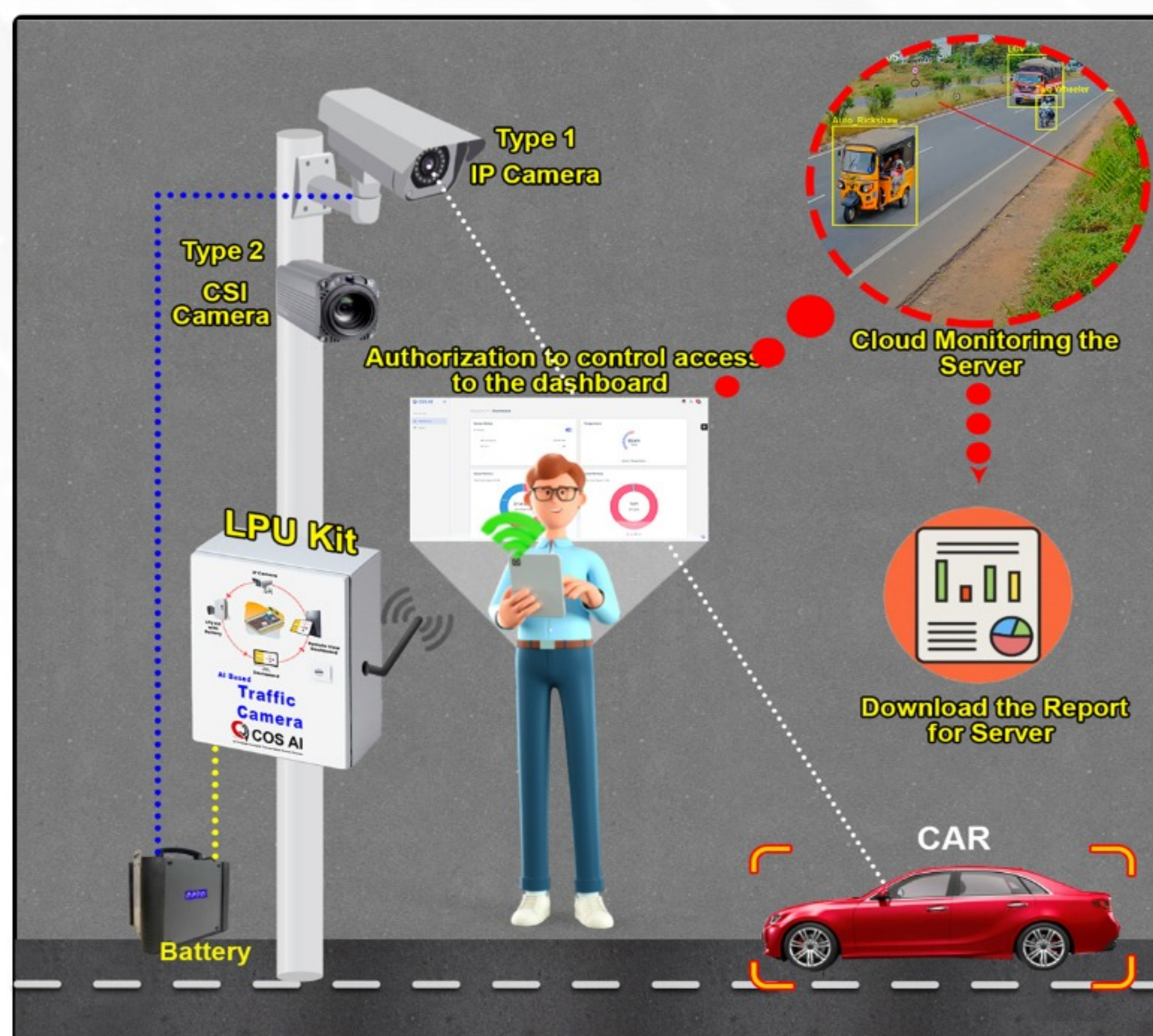
Key Features:

- ★ **Automatic Video Recording:** The system can automatically start video recording based on predefined criteria.
- ★ **Remote Access:** Real VNC allows for secure remote access and control of the recording system, enabling users to manage recordings and check the system's status from anywhere with an internet connection.
- ★ **Cloud Storage Integration:** If Internet available, Videos are automatically uploaded to Google Drive, easy access to recorded footage.
- ★ **Error Handling and Alerts:** The system is equipped with error-handling mechanisms and alerts to notify users of any issues, such as failed uploads display in LCD(16*2).
- ★ **Preconfigured Wi-Fi Configuration:** You can provide the steps for the user to set the SSID to "admin" and the password to "admin123" for the kit to connect automatically.
- ★ **Dashboard Creation:** Set up a web-based dashboard. The dashboard can display live camera feeds, recorded video playback, and system status. Implement user authentication and authorization to control access to the dashboard.



COS AI Deployment Architecture

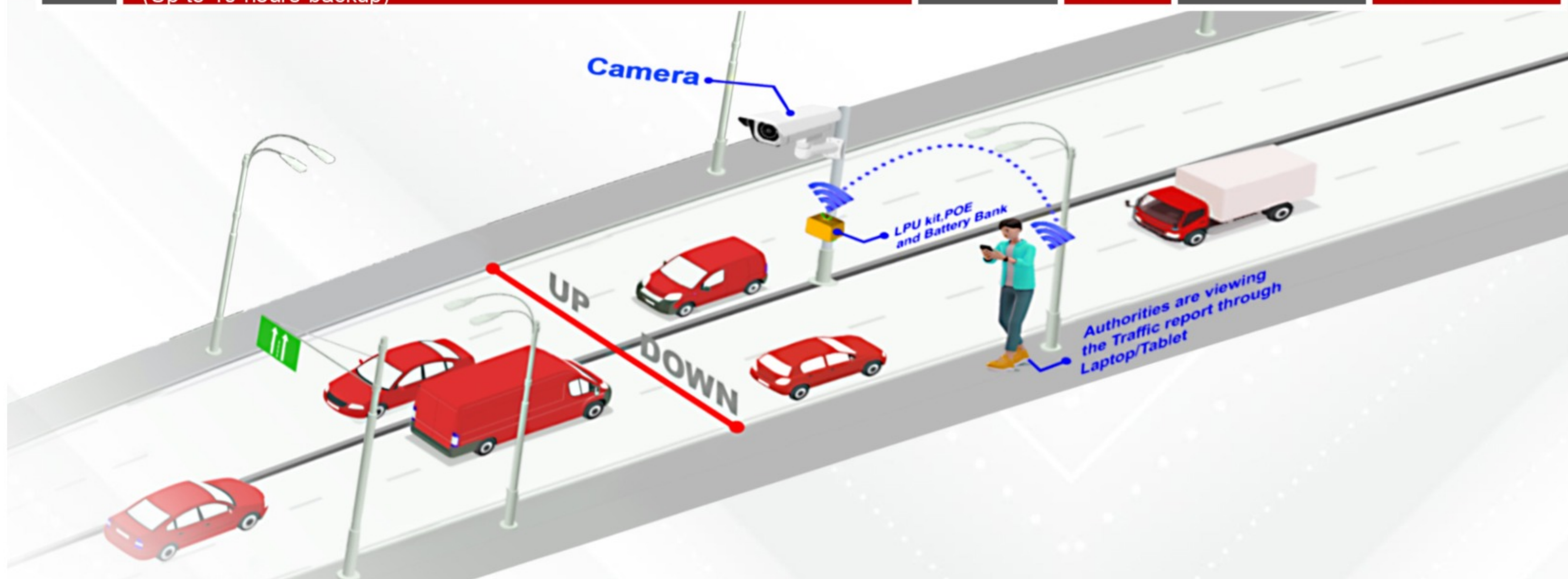
COS AI Camera Requirements



Parameter	COS AI Recommended	Min.	Max.
Resolution	1920 x 1080 px	320 x 240 px	4096 x 2160 px
FPS	25	10	30
Bit rate	2000+ kbps (SDR), 8000+ kbps (HDR)	800/4000 kbps (240p/HD1080)	NA
Shutter Speed	1/60s	1/24 s	1/48 s or 1/50 s
File size(per-file)	<500 MB	<150 MB	NA
Total Video Duration	1 Hour	1 minutes	1 Hour
Supported Video Codec's	H.264	NA	NA
Backlight HLC Level	50	NA	NA
Cloud Storage	15 GB (Free Trial)	1 GB	NA (Premium)

COS AI 's Indicative AI Based Traffic Camera Components - (One location One kit for 2-lanes)

Sl.No	Traffic Camera Components	Qty.	Unit	Cost per unit + Tax	Remarks
1	COS AI Software	1	No.	Contact	COS AI
2	Hardware of COS AI LPU Kit	1	No.	Contact	COS AI
3	IP Camera 2MP / 5MP - HIKVISION / DAHUA	1	No.	Contact	Client
4	8m Telescopic tube	1	No.	Contact	Client / COS AI
5	PoE Switch TP Link / HIKVISION	1	No.	Contact	COS AI
6	Internet Dongle	1	No.	Contact	COS AI
7	To viewing the real time scenario – Tablet is preferable	1	No.	Contact	Client
8	Cloud Storage	1	No.	Contact	Client / COS AI
9	APPA Portable Lithium-ion battery for LPU Kit and Camera power supply (Up to 10 hours backup)	1	No.	Contact	Client / COS AI



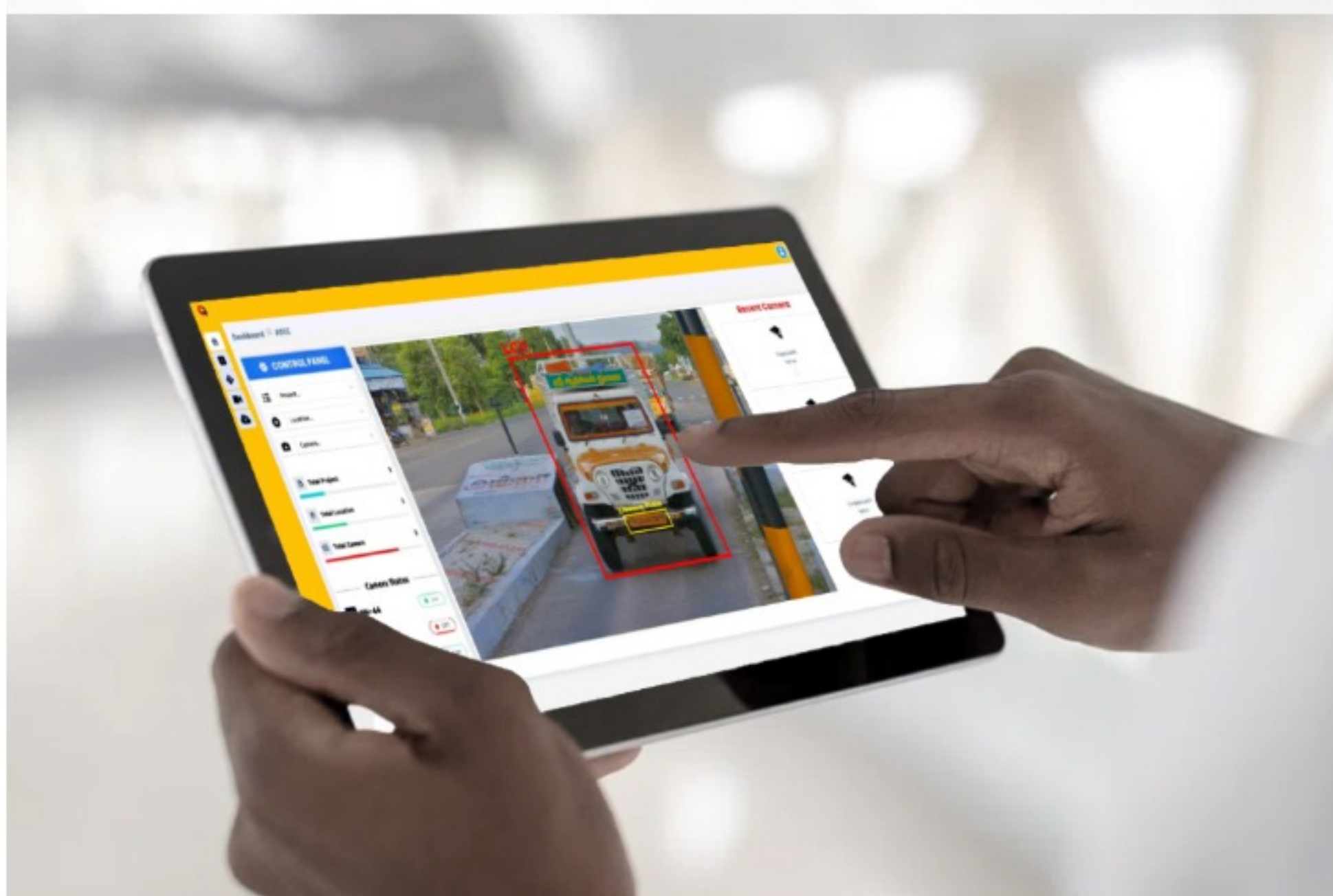
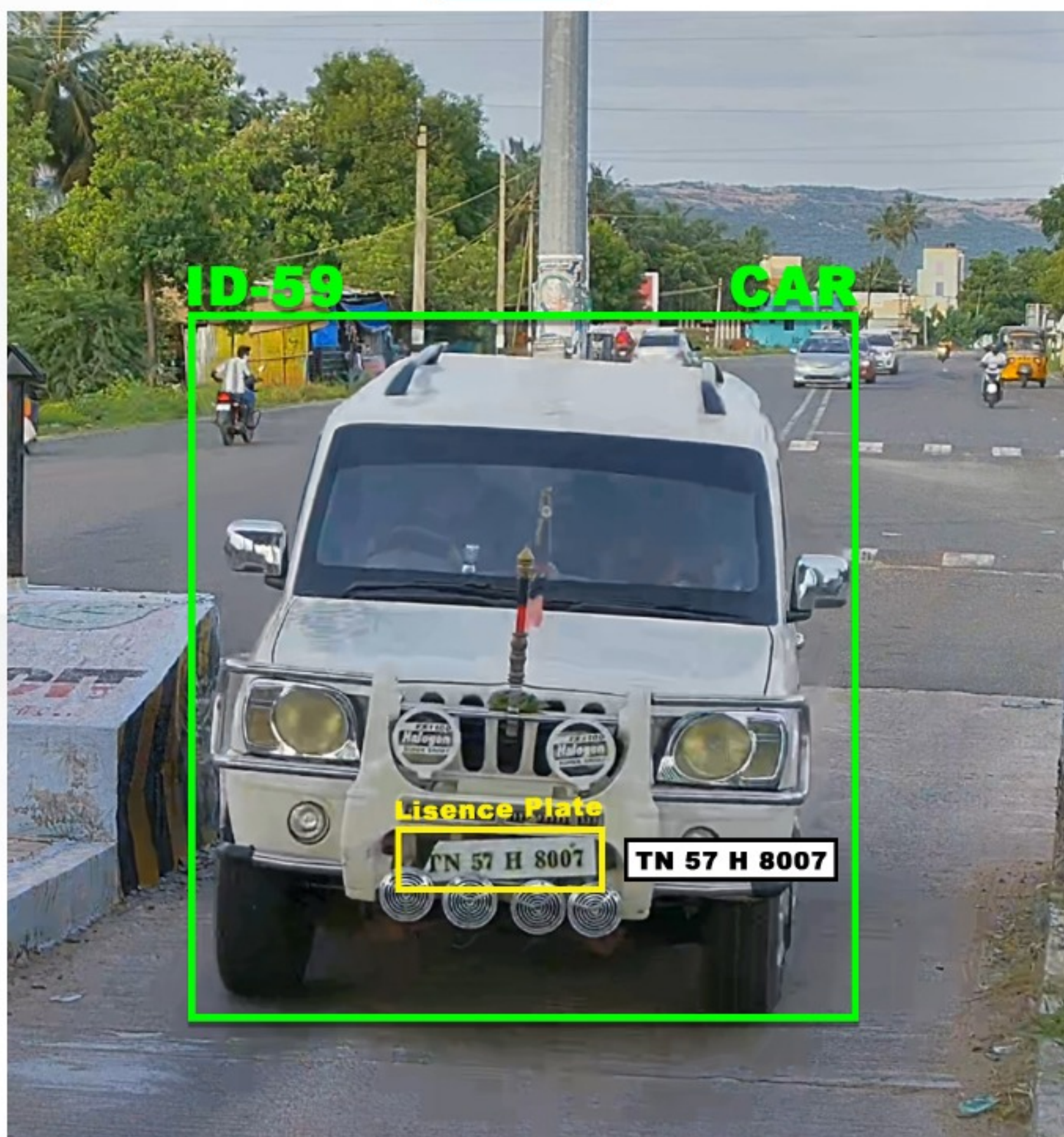
Terms & Conditions

- ★ The charges outlined above solely cover the camera and its accessories for video analytics. Payment for video processing and vehicle counting will be made on an hourly or daily basis, depending on the conditions agreed upon through mutual discussion.
- ★ The camera and kit are covered by a one-year warranty. In the event of any issues, repairs will be attempted first, and if not possible, the equipment will be replaced.
- ★ COS AI cloud-based analytics offer accuracy levels exceeding 95%, contingent on factors such as video graphics (including camera height and angle), video parameters, and environmental conditions (such as lighting and weather conditions).



ATCC + ANPR Automatic Number Plate Recognition

TN 58 HD 3886



ATCC with ANPR Overview:

Combining Automatic Traffic Counting and Classification (ATCC) with Automatic Number Plate Recognition (ANPR) technology, proposed by NHAI, enables vehicle counting, classification, and precise number plate recognition. It streamlines tolling for highway efficiency, supports the Travel Time Measurement System (TTMS) for accurate travel time analysis, and optimizes traffic management, safety, and law enforcement, offering a holistic transport solution.

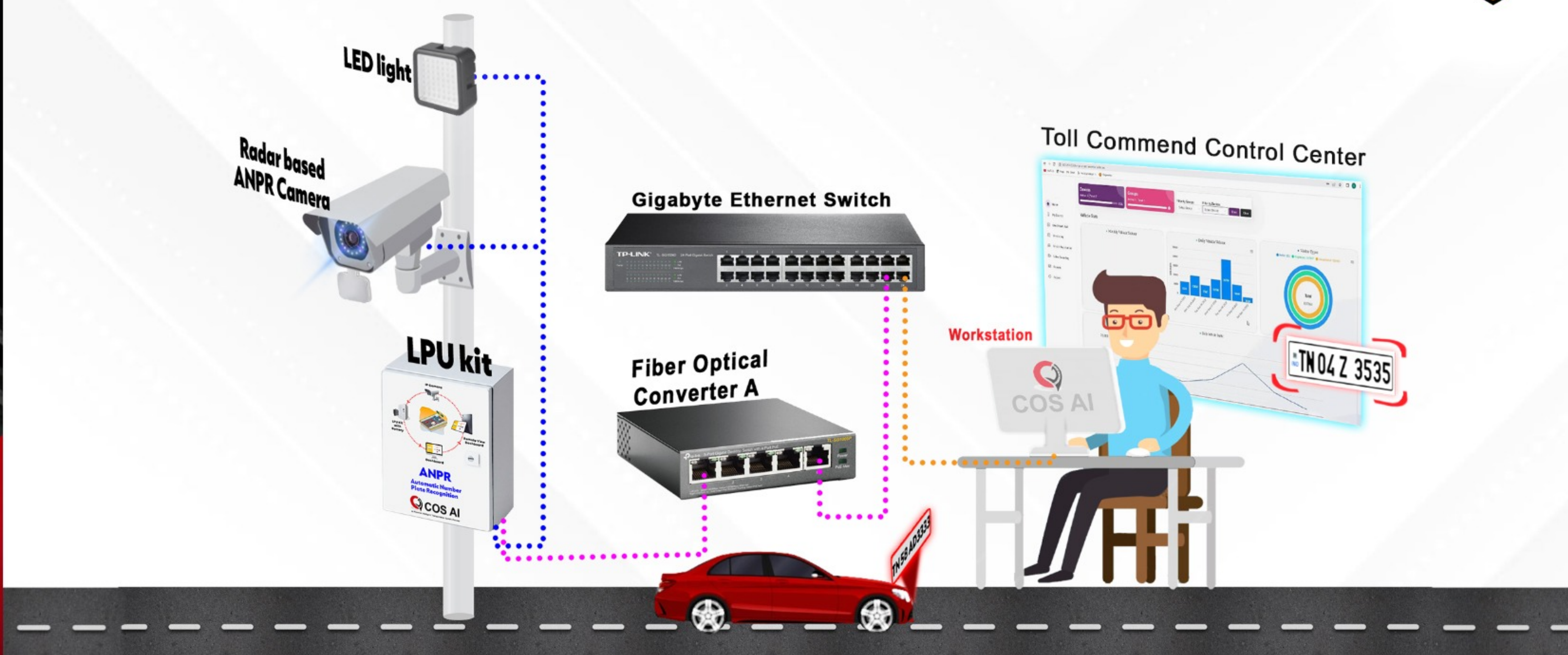
How ATCC with ANPR works?

The integrated system uses cameras, ANPR, and a GPU unit along highways to capture vehicle details, process them in real-time, and automate toll collection for congestion-free flow through toll points.

Key Features:

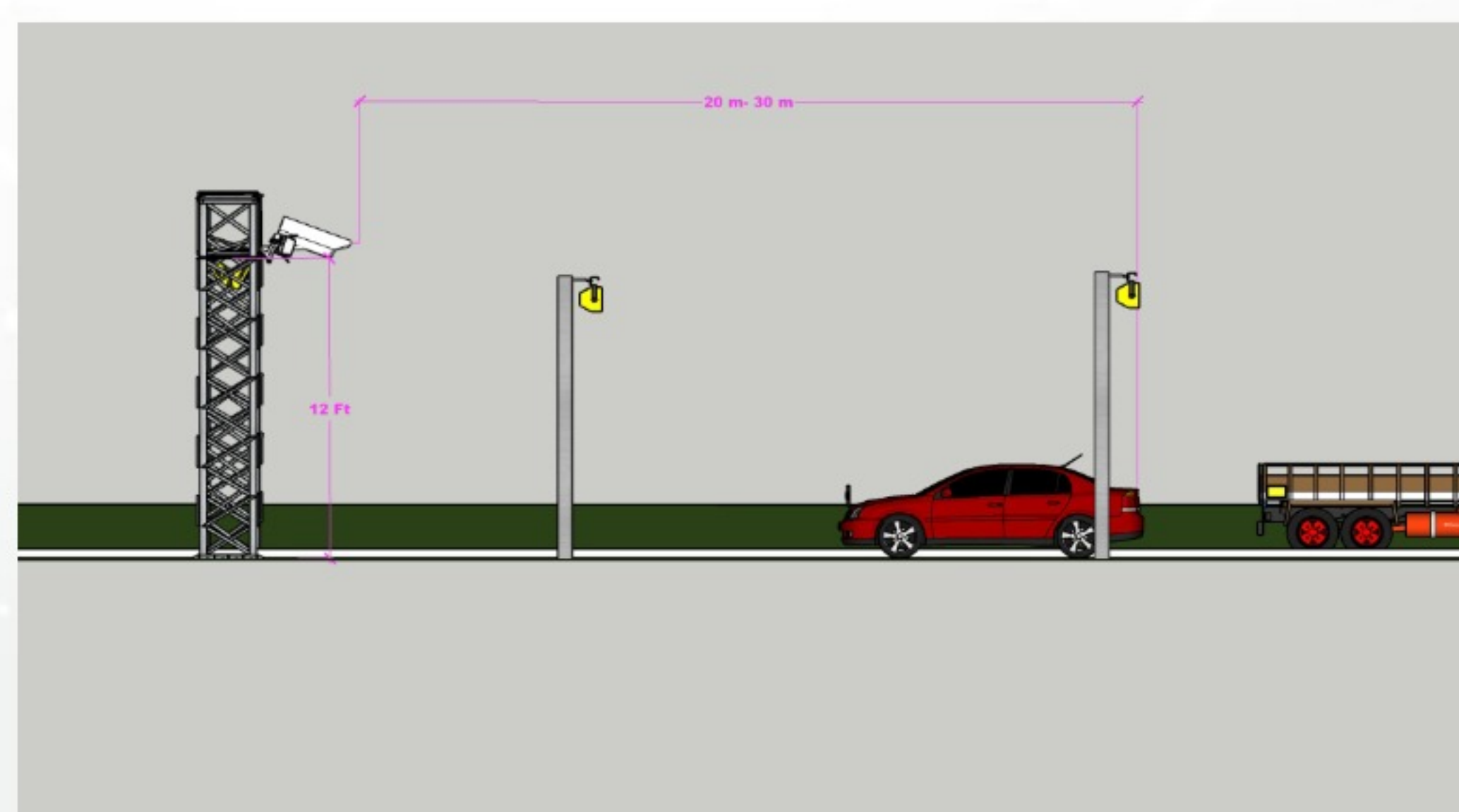
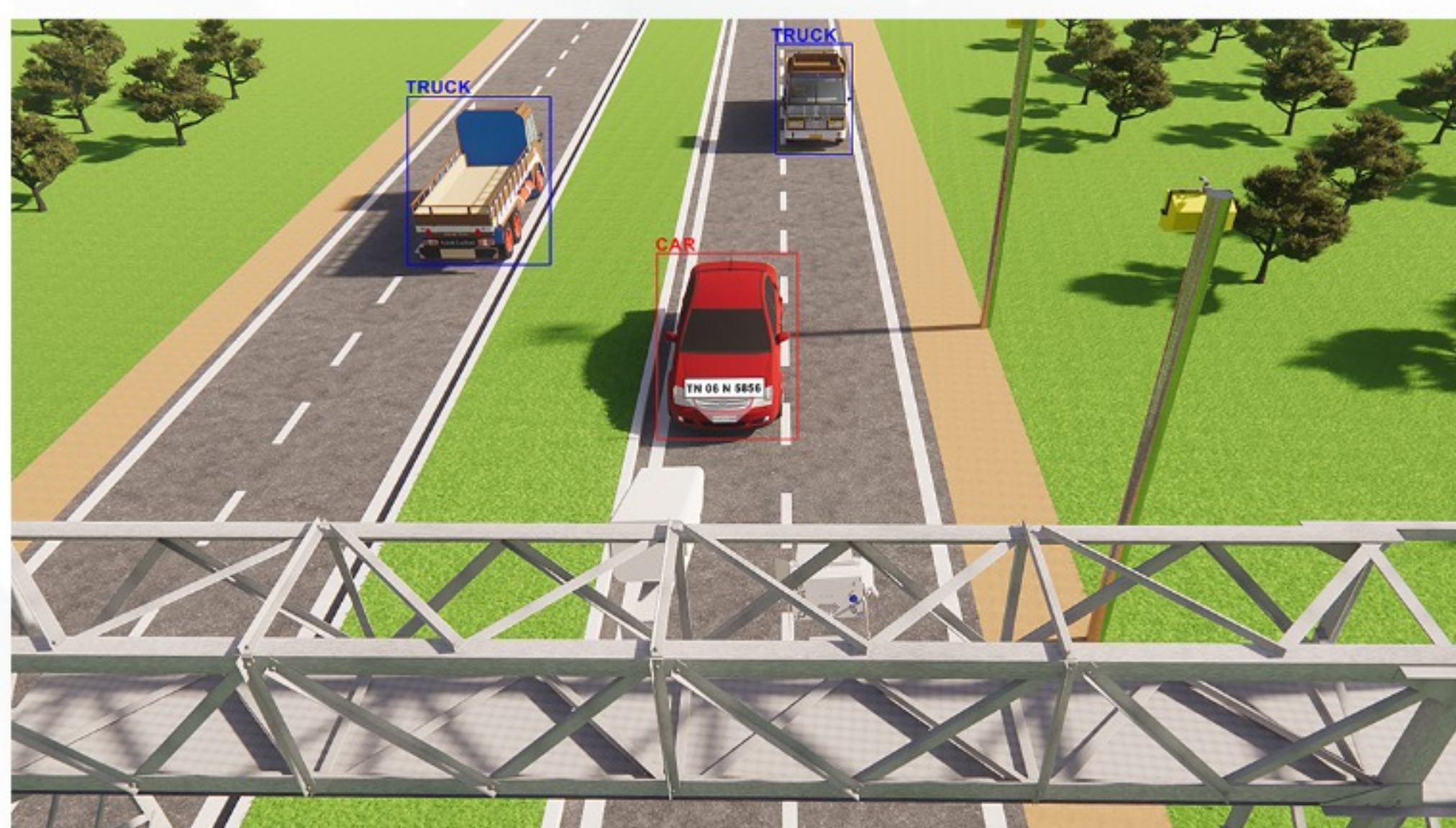
- ★ License Plate Detection
- ★ Character Segmentation
- ★ Optical Character Recognition (OCR)
- ★ Image Preprocessing
- ★ Specialized Cameras
- ★ Database Integration
- ★ Real-Time Processing
- ★ High Accuracy
- ★ Scalability
- ★ Data Storage and Retrieval
- ★ Privacy and Data Protection
- ★ Alerting and Notification
- ★ Traffic Analysis
- ★ Integration with Other Systems.

COS AI Deployment Architecture



COS AI 's Indicative ANPR Components - (One location One kit for 2-lanes)

Sl.No	ANPR Components	Qty.	Unit	Cost per unit + Tax	Remarks
1	COS AI ANPR Software	1	No.	Contact	COS AI
2	Hardware of COS AI LPU Kit	1	No.	Contact	COS AI
3	ANPR Radar based Camera	1	No.	Contact	Client
4	Lighting Pole for 8.0m Pole with 1m Arm @ 5.5m / Telescopic tube / Gantry	1	No.	Contact	Client
5	PoE Switch TP Link / HIKVISION	1	No.	Contact	COS AI
6	Internet Dongle	1	No.	Contact	COS AI
7	FIBER Cable / Media Converter to connect Camera to Toll Centre Desktop	1	No.	Contact	Client
8	LED Focus Lamp 1000W / 500W as per site condition	3	Nos.	Contact	Client
9	To viewing the real time scenario - Desktop (Specs.: i5/ 8GB RAM / 512 GB SSD)	1	No.	Contact	Client



Terms & Conditions

- ★ Uninterrupted Power Supply, lighting, Internet Broadband line, Network Cabling ,Camera mounting and other miscellaneous works are borne by the client.
 - ★ Camera installation must be at least 12 feet above the surface.
 - ★ Distance from the pole to the desktop fiber connectivity is required are borne by the client.
 - ★ 3 lights will be installed. There must be two poles in front of the camera pole. We need a 20 meter space between each pole. A Third light will be installed close to the camera with a road-focused beam.
 - ★ Standing vehicle should not be parked in the video coverage area. Thro-traffic only preferable.
- For TOLL Plaza, through traffic only, not advised for Service road, Road crossing, Traffic Signal, and Leakage Roads, ATCC Toll is recommendable.
- ★ If a customer requests a service road, leakage road, etc., we are unable to guarantee the accuracy of the counting and classification.



VIDS Video Incident Detection System



Based on
ATMS 2021
Manual



VIDS Overview:

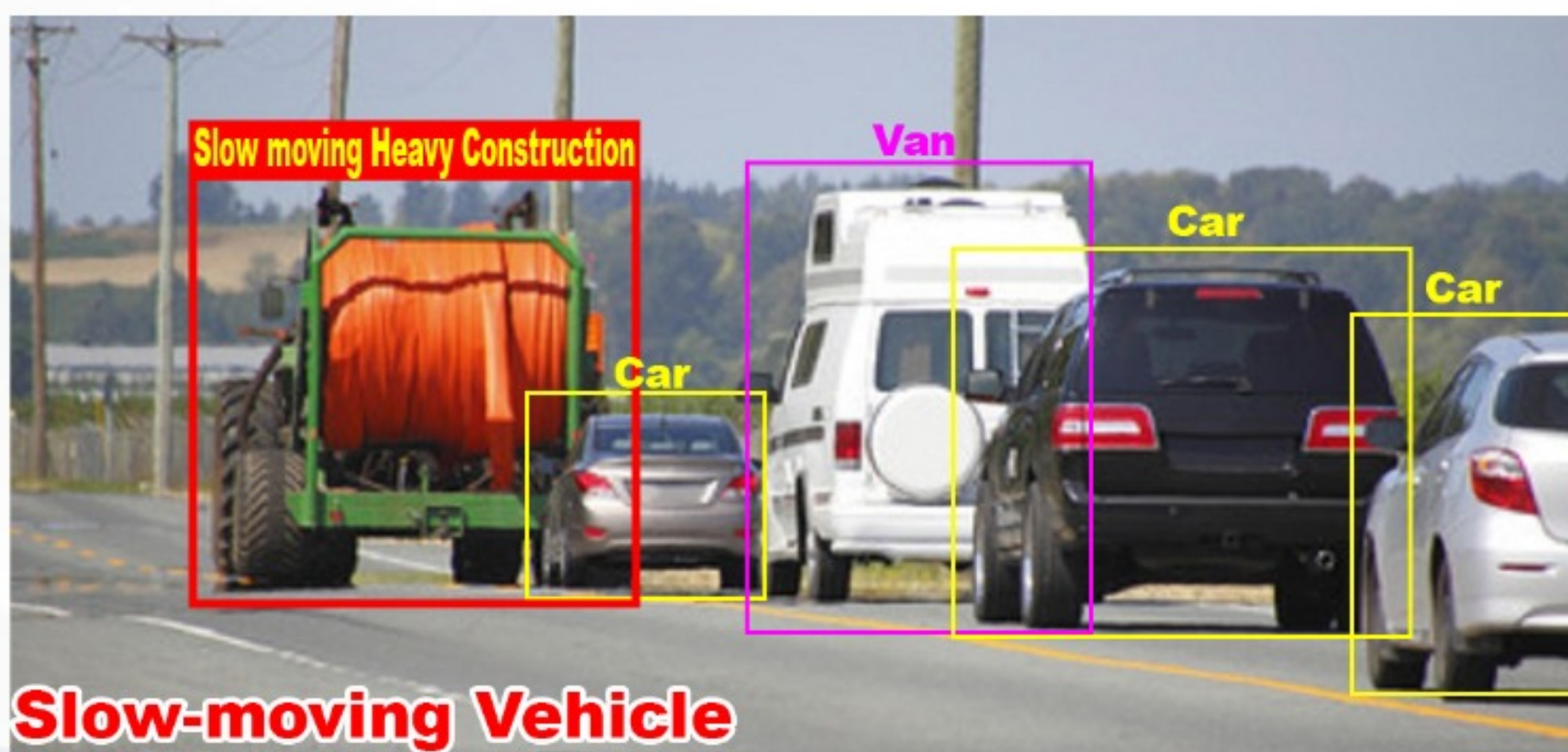
Video Incident Detection System is now mandatory for NHAI concession projects. This product offers a comprehensive solution, including both software and hardware, in accordance with the 2021 manual. The VIDS LPU kit and software also provide excellent integration with the prevailing ATMS system.

How VIDS works?

A Video Incident Detection System combines a GPU kit with cameras to capture and analyze video data. The system processes the footage and identifies incidents, displaying them on operators' screens. Incidents are categorized and presented visually. When an incident is detected, the software raises an alarm and displays the incident image, enabling swift response and enhanced security measures.

Detected Incidents:

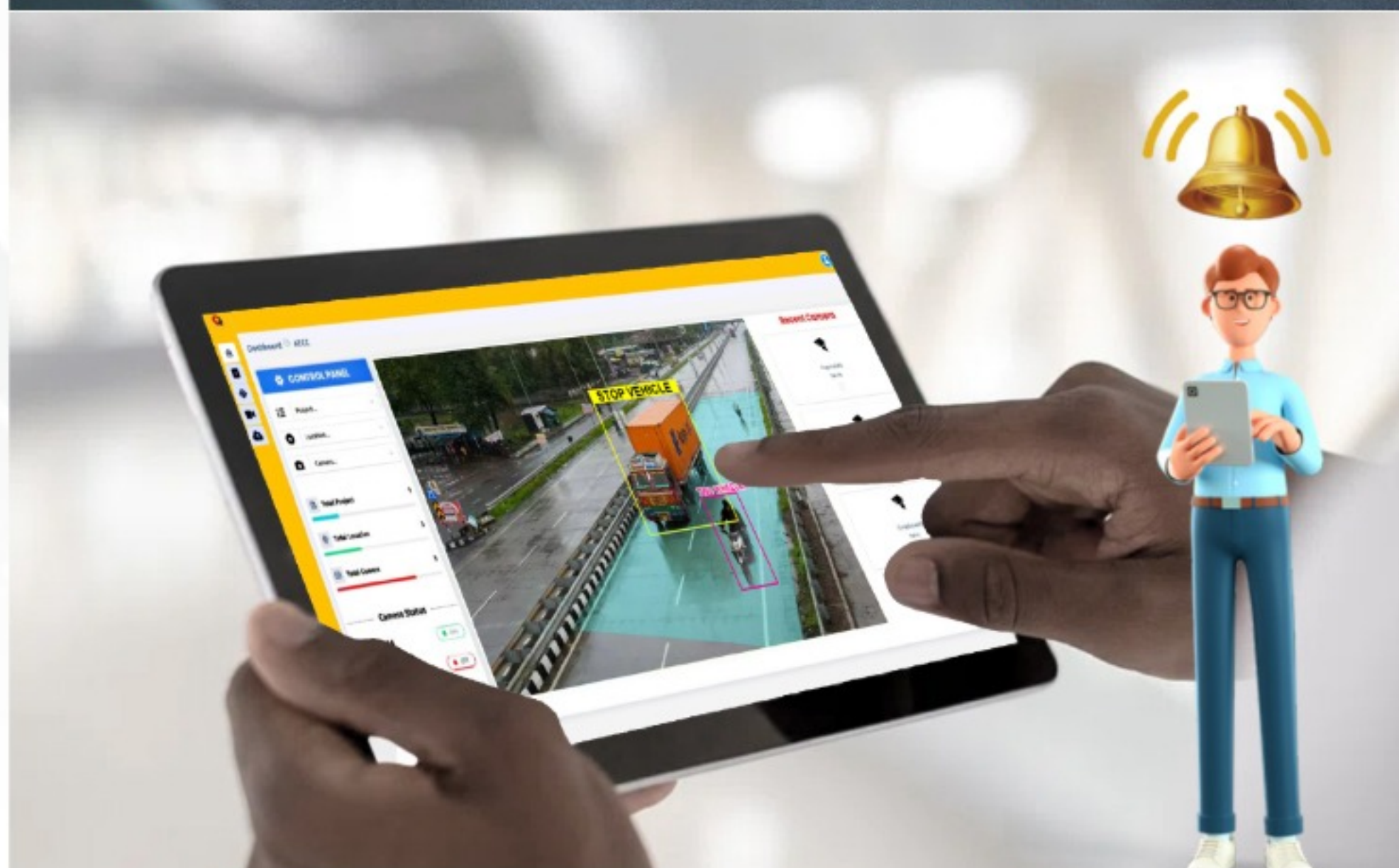
- ★ Slow-moving Vehicle.
- ★ Stopped Vehicle.
- ★ Reverse Traffic.
- ★ Fallen object.
- ★ Poor Visibility.
- ★ Vehicle running in opposite direction.
- ★ Crowd Gathering.
- ★ Wrong Lane driving.



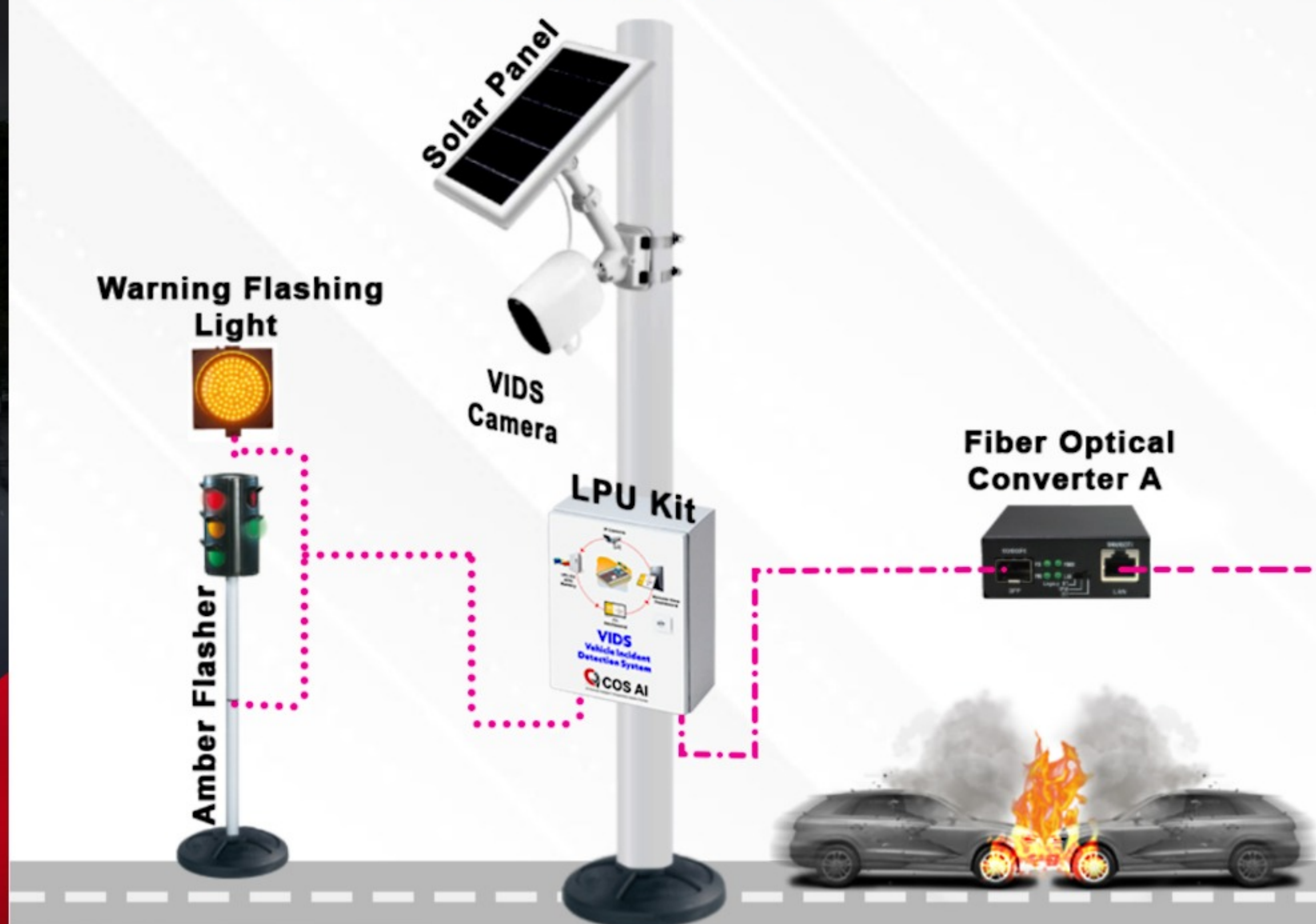
Slow-moving Vehicle



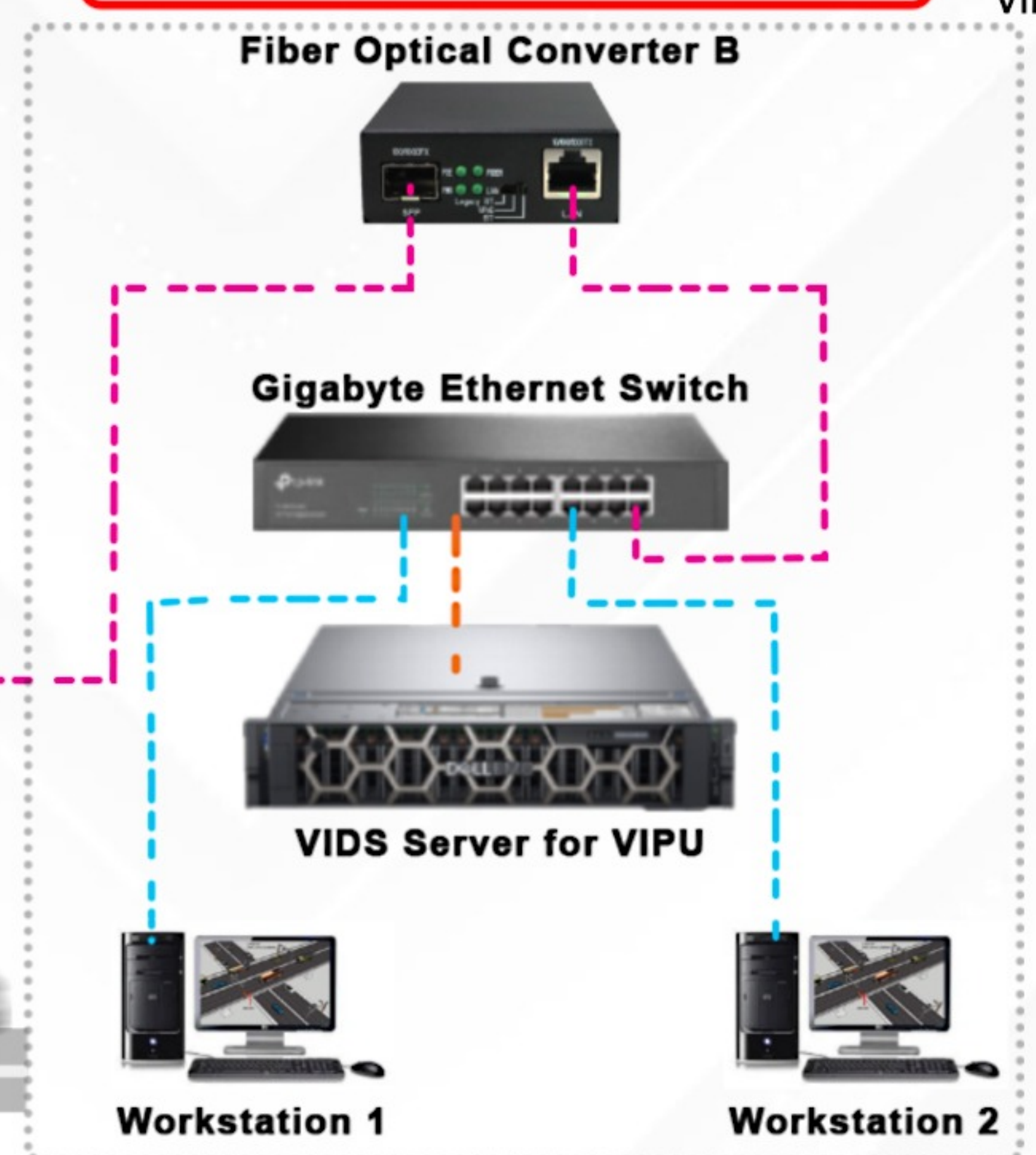
Stopped Vehicle & Poor Visibility



COS AI Deployment Architecture

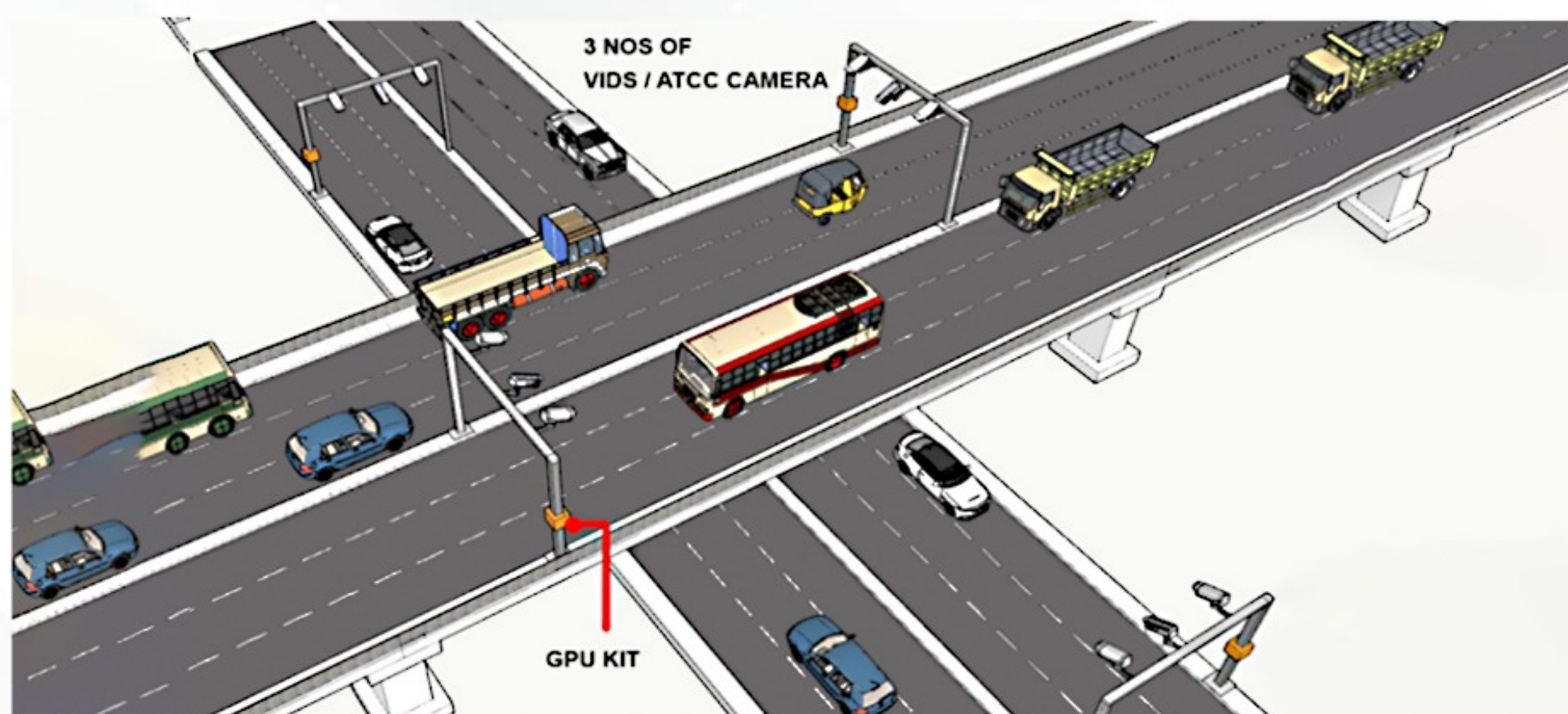


TOLL MANAGEMENT CENTRE

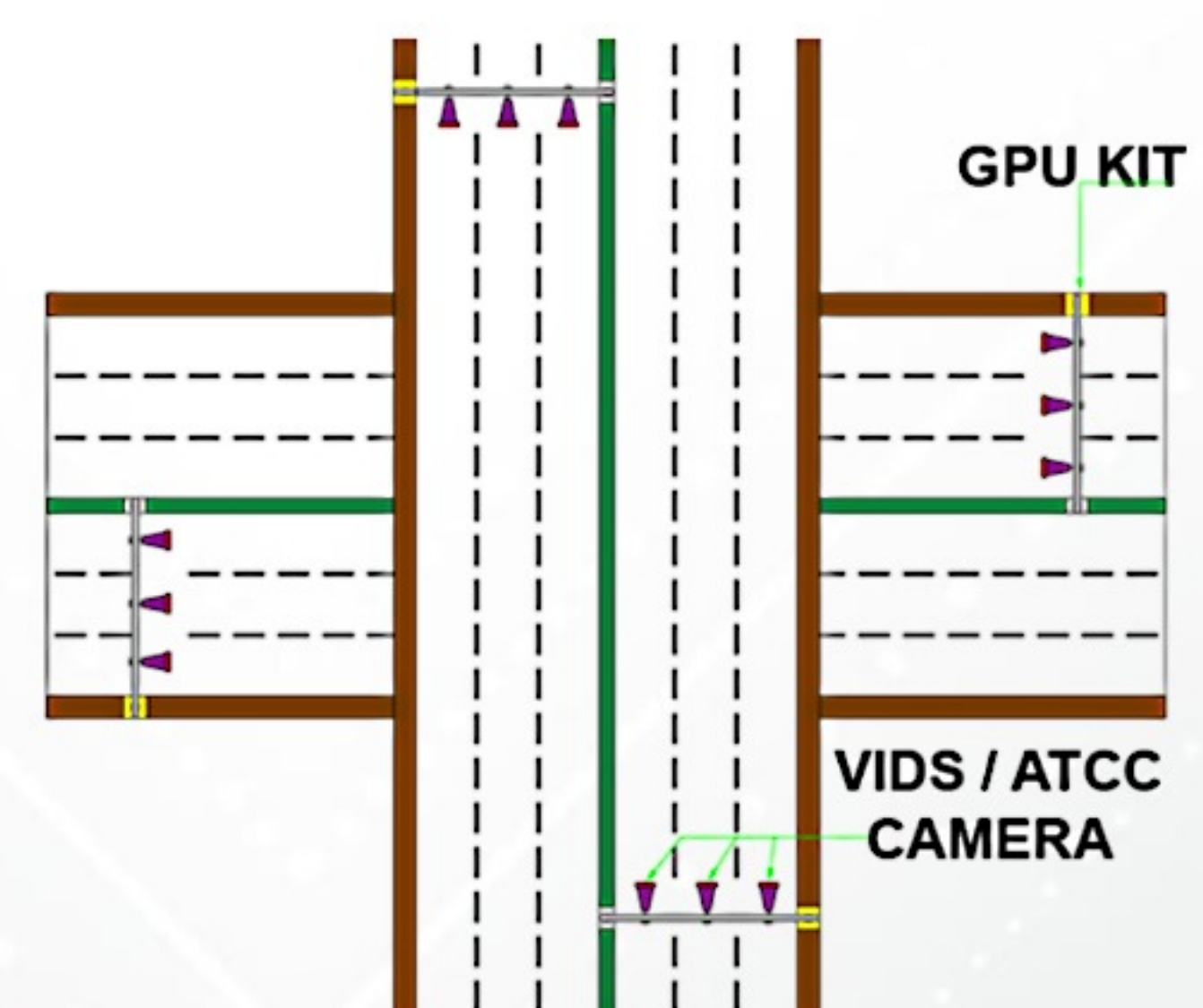


COS AI 's Indicative VIDS Components (Per VIDS Site)

Sl.No	VIDS Components	Qty.	Unit	Cost per unit + Tax	Remarks
1	COS AI VIDS Software	1	No.	Contact	COS AI
2	Hardware of COS AI LPU Kit	1	No.	Contact	COS AI
3	IP Camera 2MP / 5MP - HIKVISION / DAHUA (with IR supplement light)	1	No.	Contact	Client
4	Lighting / Camera Pole for 8.0m Pole with 1m Arm @ 5.5m	2	No.	Contact	Client
5	PoE Switch TP Link / HIKVISION	1	No.	Contact	COS AI
6	Internet Dongle	1	No.	Contact	COS AI
7	FIBER Cable / Media Converter to connect Camera to Toll Centre Desktop	1	No.	Contact	Client
8	LED Focus Lamp 1000W / 500W as per site condition	2	Nos.	Contact	Client
9	To viewing the real time scenario - Desktop (Specs.: i5/ 8GB RAM / 512 GB SSD)	1	No.	Contact	Client



3D - VIEW
VIDS & ATCC CAMERA @ FLYOVER/INTERCHANGE



PLAN
VIDS & ATCC CAMERA @ FLYOVER/INTERCHANGE

Terms & Conditions

- ★ The client is responsible for covering the costs associated with Uninterrupted Power Supply, lighting, Internet Broadband line, Network cabling, Camera mounting, and any other miscellaneous works.
- ★ Camera installations must be positioned at a minimum height of 18 feet above the surface.
- ★ Any expenses related to establishing connectivity from the camera pole to the toll center, including fiber connectivity, are the responsibility of the client.
- ★ Two lights will be installed, necessitating the placement of two poles in front of the camera pole. A minimum space of 20 meters between each pole is required on both LHS and RHS. Additionally, a third light will be installed near the camera with a road-focused beam.



VSDS Vehicle Speed Detection System



Based on
**ATMS 2021
 Manual**

VSDS OVERVIEW:

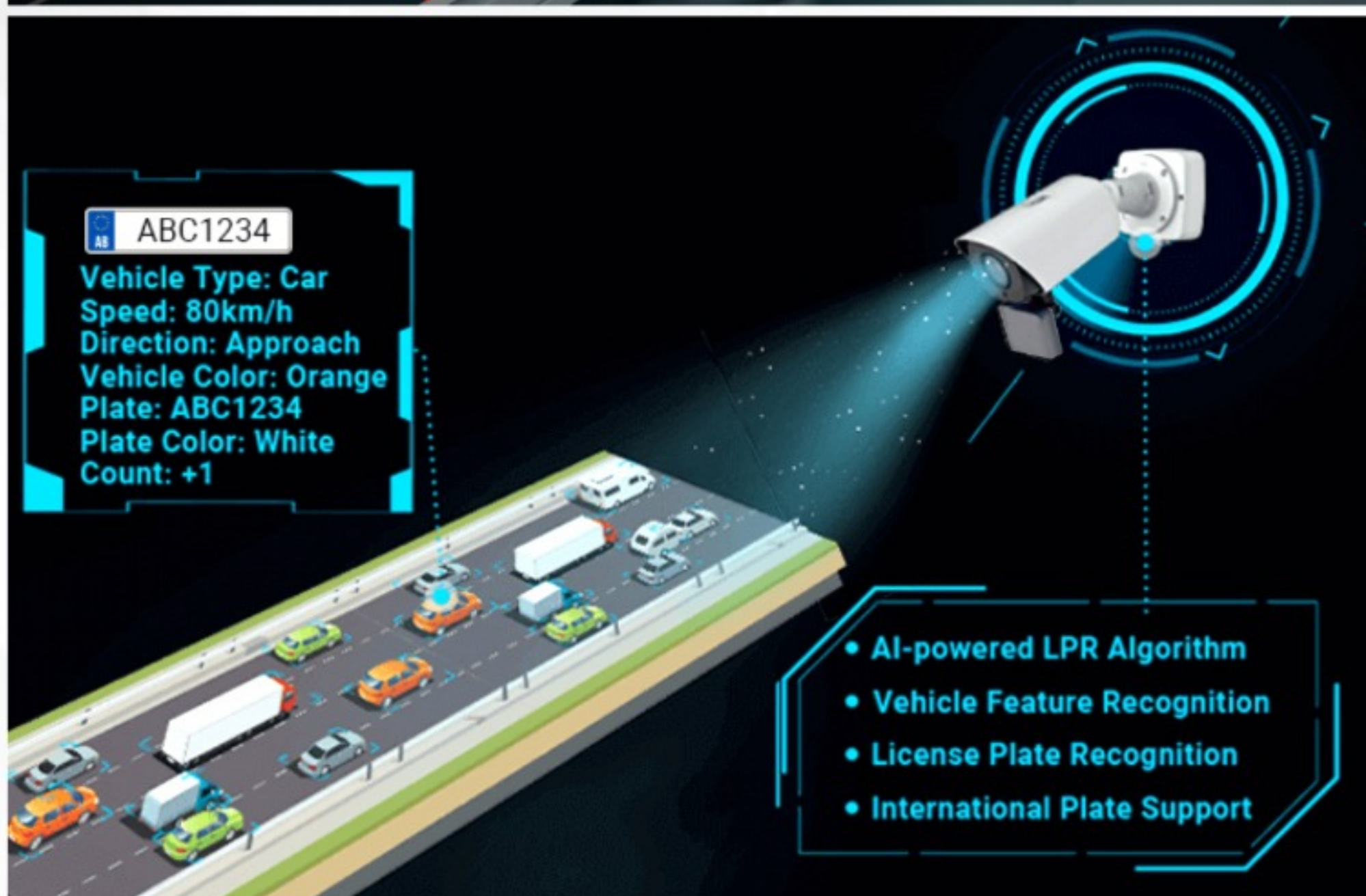
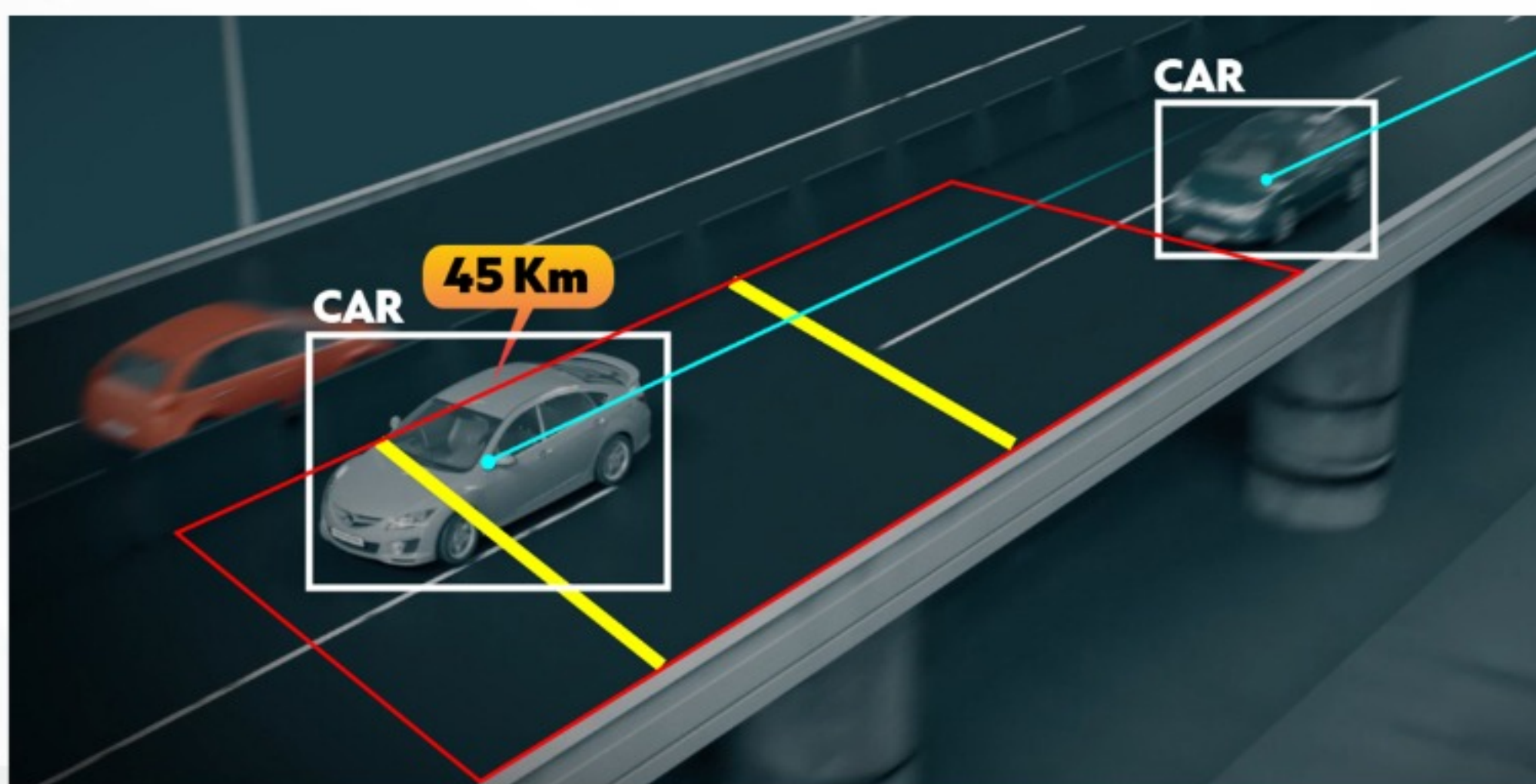
The Vehicle Speed Detection System (VSDS) consists of an ANPR camera, an LED display, along with a 3D speed radar sensor. It is a comprehensive package compliant with the ATMS 2021 manual and operates in real-time. This project is exceptionally exclusive, boasting high accuracy pared to products from other manufacturers.

How VSDS works?

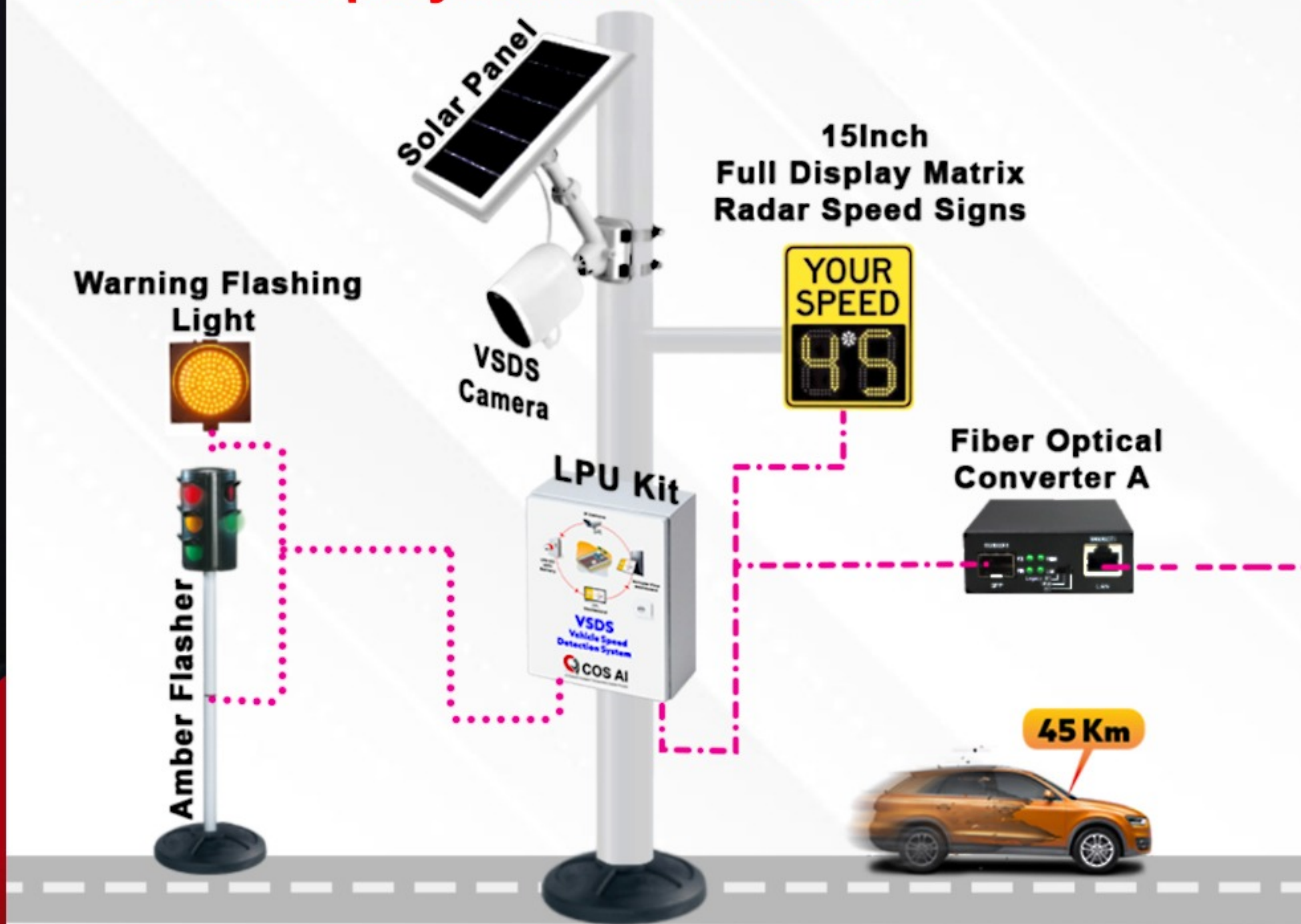
The ANPR camera captures license plate information, while the 3D speed radar sensor measures vehicle speeds accurately. The collected data is then displayed on the LED screen in real-time.

Key Features:

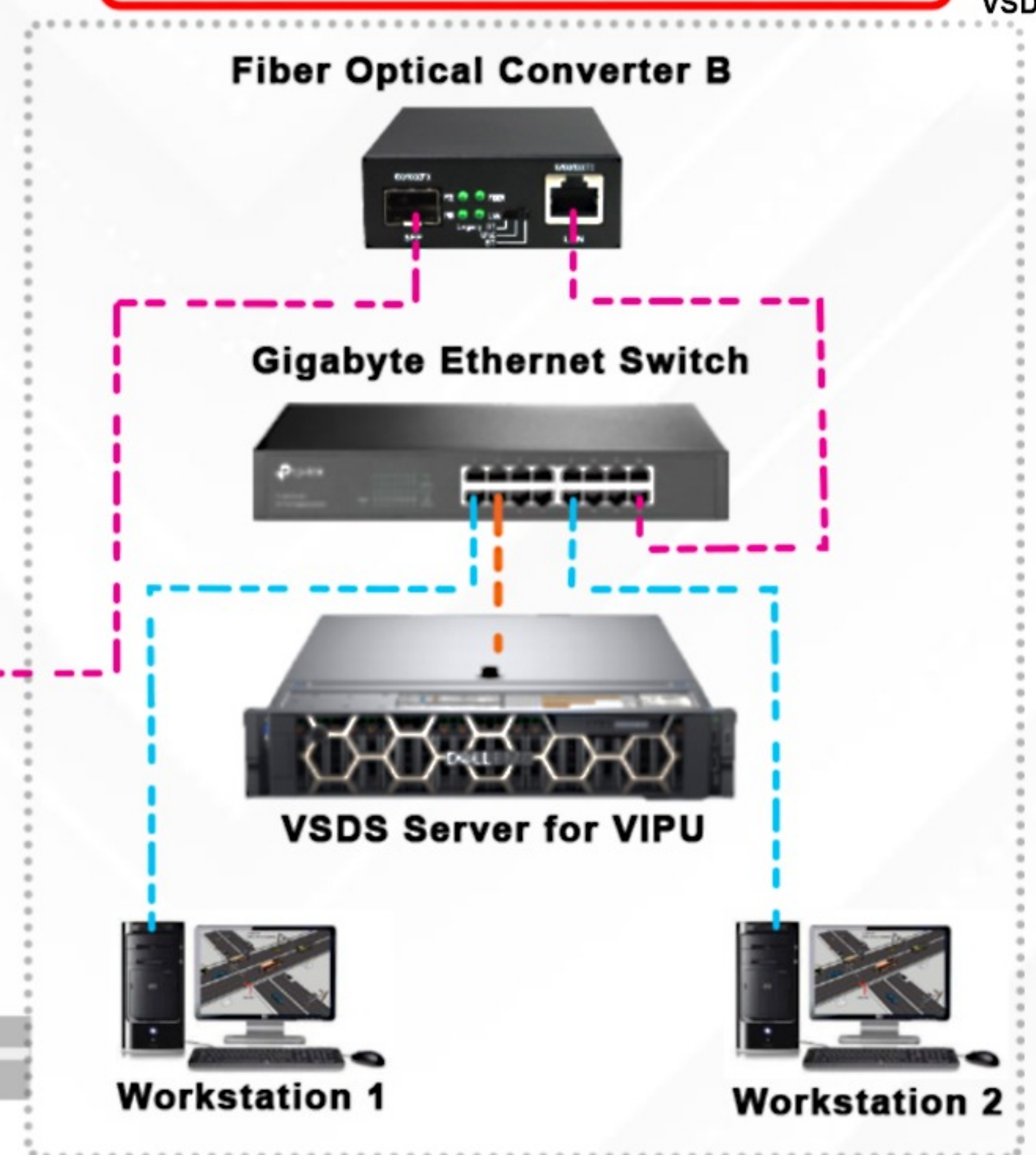
- ★ **Maximum Speed Limit:** Capable of detecting speeds up to 160 km/h, ensuring comprehensive speed monitoring.
- ★ **High-Definition Image Capture:** Provides clear and detailed images for accurate identification and evidence.
- ★ **Automatic Challan Generation:** Automates the process of issuing traffic violation fines, improving efficiency and accuracy.
- ★ **Customized Reporting:** Offers a fully customizable reporting system to tailor reports to specific business needs and requirements.
- ★ **Integration with e-Challan Software:** Seamlessly integrates with e-Challan software for streamlined enforcement and record-keeping.



COS AI Deployment Architecture

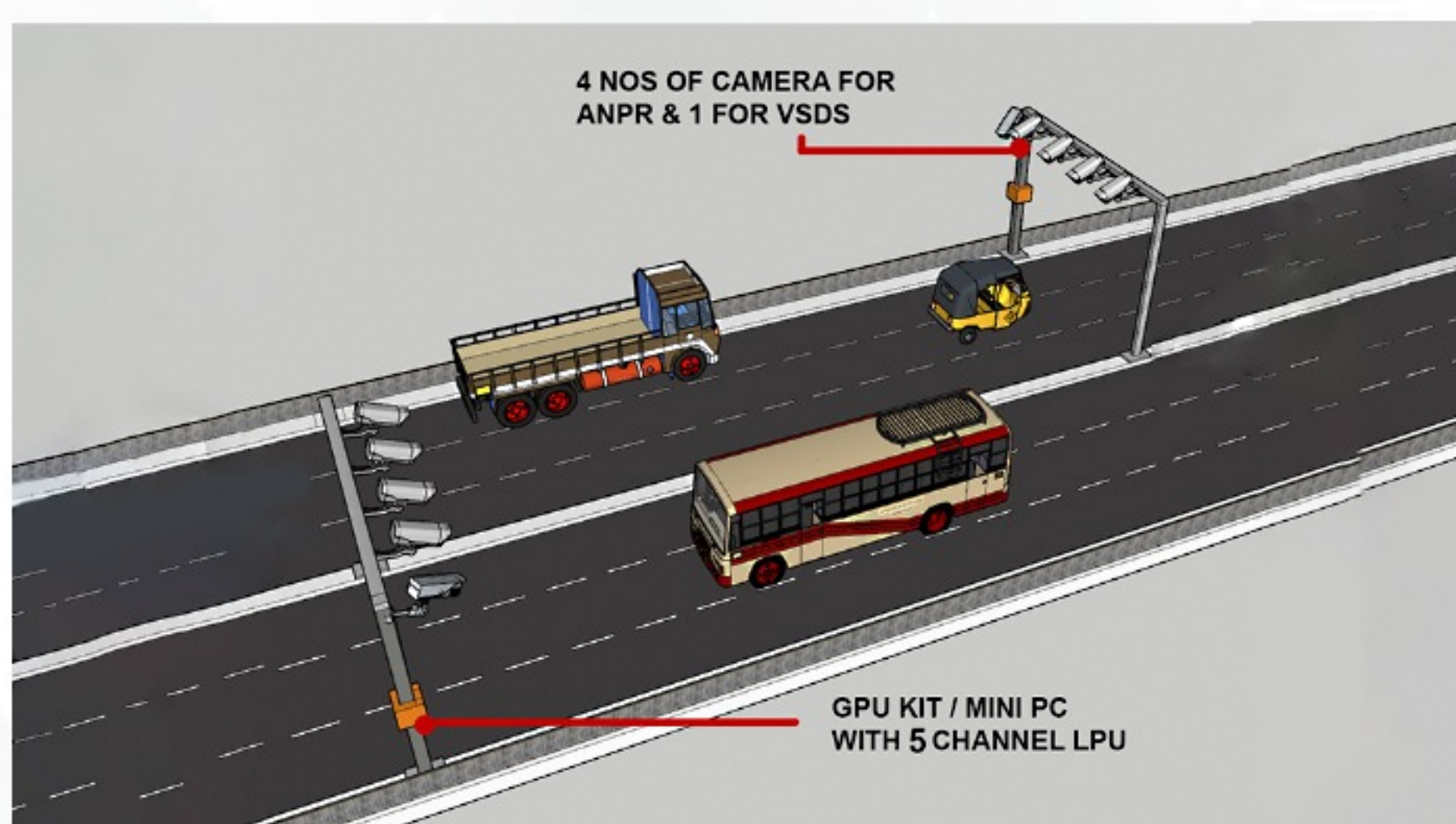


TOLL MANAGEMENT CENTRE

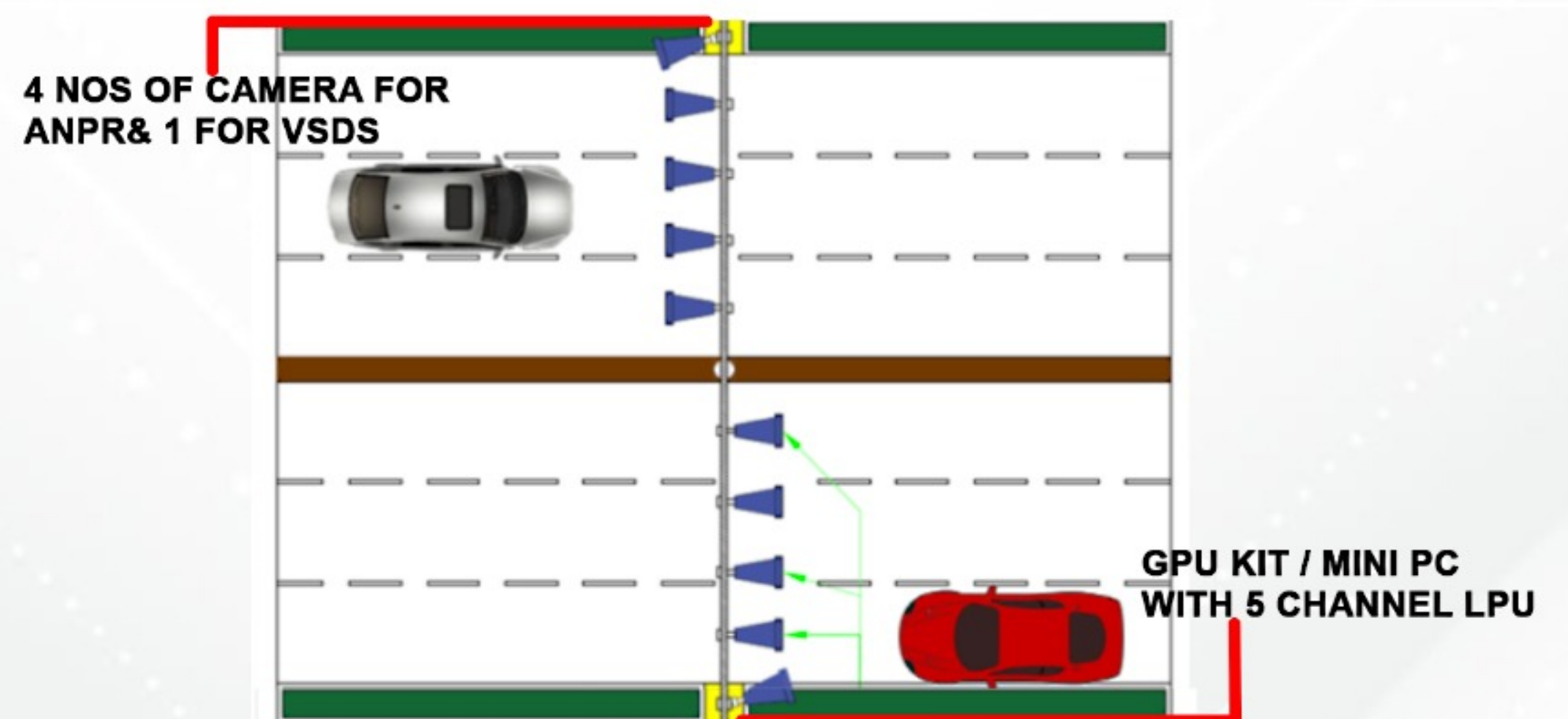


COS AI 's Indicative VSDS Components

Sl.No	VSDS Components	Qty.	Unit	Cost per unit + Tax	Remarks
1	COS AI VSDS Software	1	No.	Contact	COS AI
2	Hardware of COS AI LPU Kit	1	No.	Contact	COS AI
3	ANPR – Radar based speed detection IP Camera 2MP / 5MP	1	No.	Contact	Client
4	Lighting Pole for 8.0m Pole with 1m Arm @ 5.5m	2	No.	Contact	Client
5	PoE Switch TP Link / HIKVISION	1	No.	Contact	COS AI
6	Internet Dongle	1	No.	Contact	COS AI
7	FIBER Cable / Media Converter for internal connectivity of camera and other network elements	1	No.	Contact	Client
8	LED Focus Lamp 1000W / 500W as per site condition	2	Nos.	Contact	Client
9	To viewing the real time scenario - Desktop (Specs.: i5/ 8GB RAM / 512 GB SSD)	1	No.	Contact	Client
10	15 Inch Full Display Matrix - Radar Speed Signs	1	No.	Contact	Client



3D - VIEW
VSDS/ANPR CAMERA @ EVERY 10 KMS



PLAN
VSDS/ANPR CAMERA @ EVERY 10 KMS

Terms & Conditions

- ★ The client is responsible for covering the costs associated with Uninterrupted Power Supply, lighting, Internet Broadband line, Network Cabling, Camera mounting, and any other miscellaneous works.
- ★ Camera installations must be positioned at a minimum height of 18 feet above the surface.
- ★ Any expenses related to establishing connectivity from the camera pole to the toll center, including fiber connectivity, are the responsibility of the client.
- ★ Two lights will be installed, necessitating the placement of two poles in front of the camera pole. A minimum space of 20 meters between each pole is required on both LHS and RHS. Additionally, a third light will be installed near the camera with a road-focused beam.



AI For SMART POLICING



Exclusively
Designed for
Police
Departments

Mobile Vehicle Surveillance System (MVSS)

Mobile Vehicle Surveillance System:

AI Based Mobile Vehicle Surveillance System (MVSS) conducts diverse surveillance tasks like ANPR-based Vehicle Tracking, Helmet Detection, and Intrusion Detection on specialized vehicles for operational departments and intelligence services. It serves as a vigilant road observer for enhanced surveillance and protection.

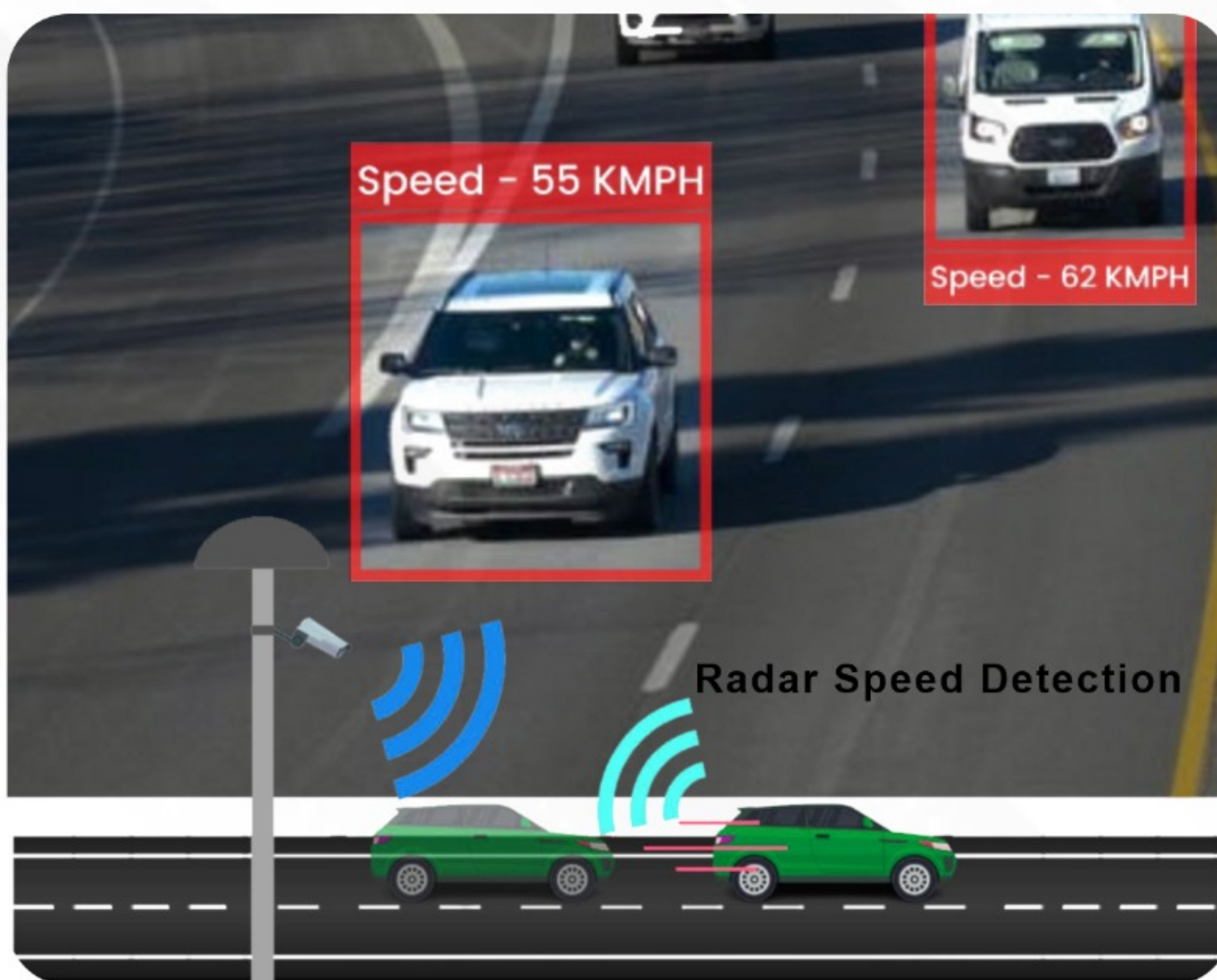
This vehicle-mounted system employs a PTZ camera controlled by a laptop or tablet, enabling operators to adjust the camera's position for targeted surveillance. The user-friendly interface facilitates focus on areas of interest, such as license plates, facilitating effective surveillance and information capture.

Applications:

- ★ Crime Prevention and Investigation.
- ★ Patrol and Response Enhancement.
- ★ Event Security.
- ★ Traffic Monitoring.
- ★ Surveillance in Remote Areas.
- ★ Witness and Evidence Gathering.
- ★ Undercover Operations.
- ★ Search and Rescue Operations.



Vehicle Over Speed Detection System (VOSDS)

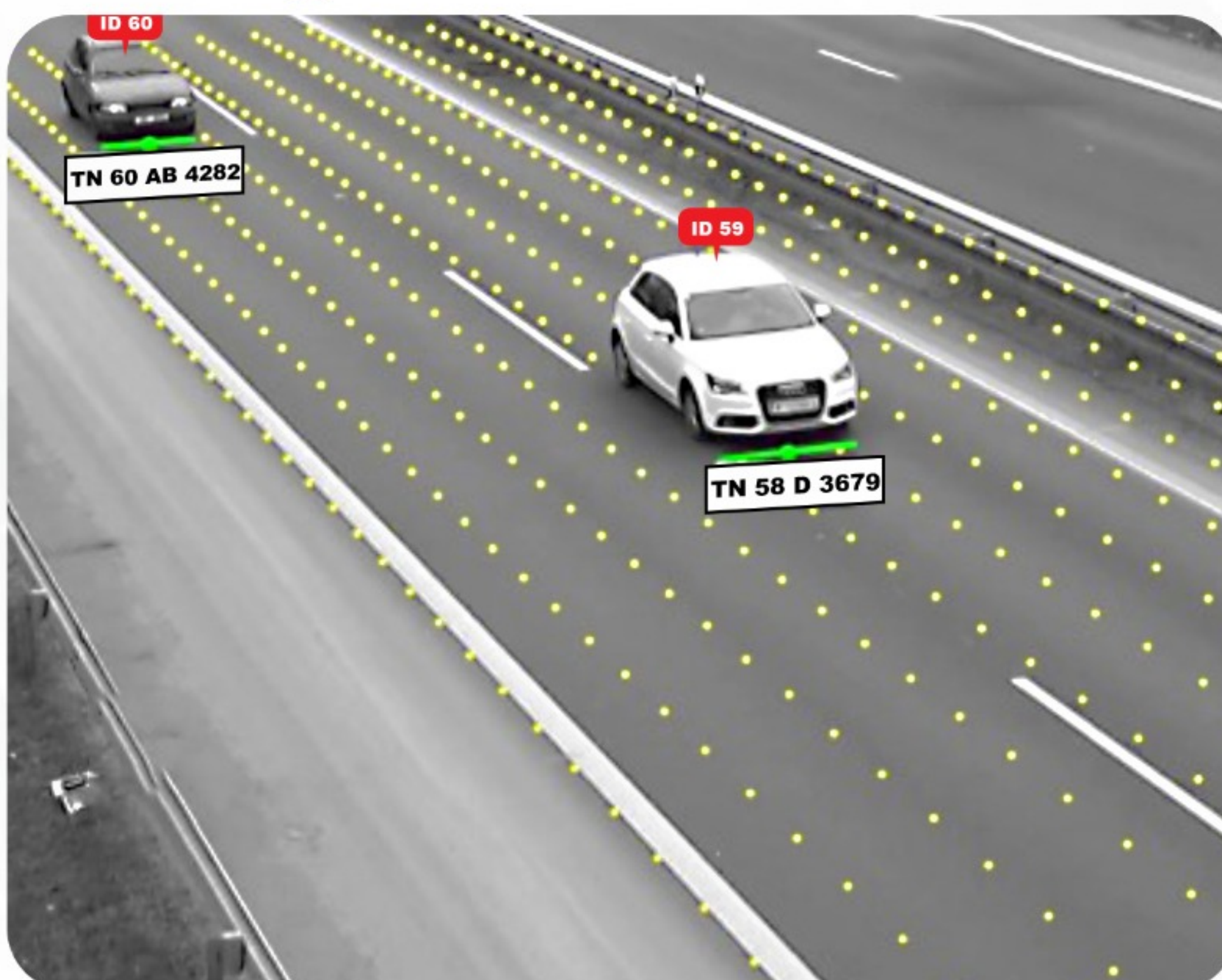


Vehicle Over Speed Detection System

The Vehicle Speed Detection System (VSIDS) is a comprehensive solution, featuring an ANPR camera, LED display, and a choice of either a 3D speed radar sensor or advanced computer vision technology. This integrated package operates in real-time, providing efficient and accurate speed monitoring.

This project stands out for its exceptional exclusivity, offering superior accuracy compared to products from other manufacturers. The VSIDS sets a high standard in speed detection, delivering precision and reliability to enhance road safety and ensure compliance with speed regulations.

Tracing Car with Automatic Number Plate Recognition



Tracing a Car with ANPR

Police use ANPR (Automatic Number Plate Recognition) technology with specialized cameras for capturing vehicle license plates. Algorithms process images, converting plates to text, and real-time databases flag matches with suspect vehicles, alerting law enforcement instantly. It aids location tracking for investigations and integrates with databases for inter-agency collaboration, strengthening crime prevention efforts. ANPR serves as a deterrent against criminal use of suspicious vehicles, ensuring public safety through effective tracking and identification.

No Helmet Detection



No Helmet Detection

Detecting helmet usage using IP cameras, stationary or vehicle-mounted, use advanced computer vision for helmet detection in safety-critical zones like construction sites and roads. Live video feeds undergo real-time analysis with specialized algorithms, identifying helmets based on unique features. When someone lacks a helmet, instant alerts notify authorities or control centers, enabling effective enforcement of safety rules. This proactive system aids law enforcement and safety personnel in promoting helmet compliance and enhancing overall safety in diverse environments.

Automatic Traffic Counter and Classifier (ATCC)



ATCC
Mounted
Camera



ATCC
Pole
Camera



Automatic Traffic Counter and Classifier

The AI-Powered Automatic Traffic Counter and Classifier (ATCC) consist of a smart GPU-powered kit , camera with batteries and essential accessories. Positioned on poles or vehicles, provide crucial traffic data for law enforcement. They capture real-time traffic information, enabling AI algorithms to detect vehicle counting and classification, monitor traffic flow, and enhance road safety. When integrated with police systems, they enable rapid responses, ensuring efficient traffic management. Additionally, this information aids police in optimizing traffic routes, managing road closures, and maintaining smooth traffic flow during events or emergencies, thereby enhancing overall public safety and law enforcement efforts.

Automate Crowd Counting

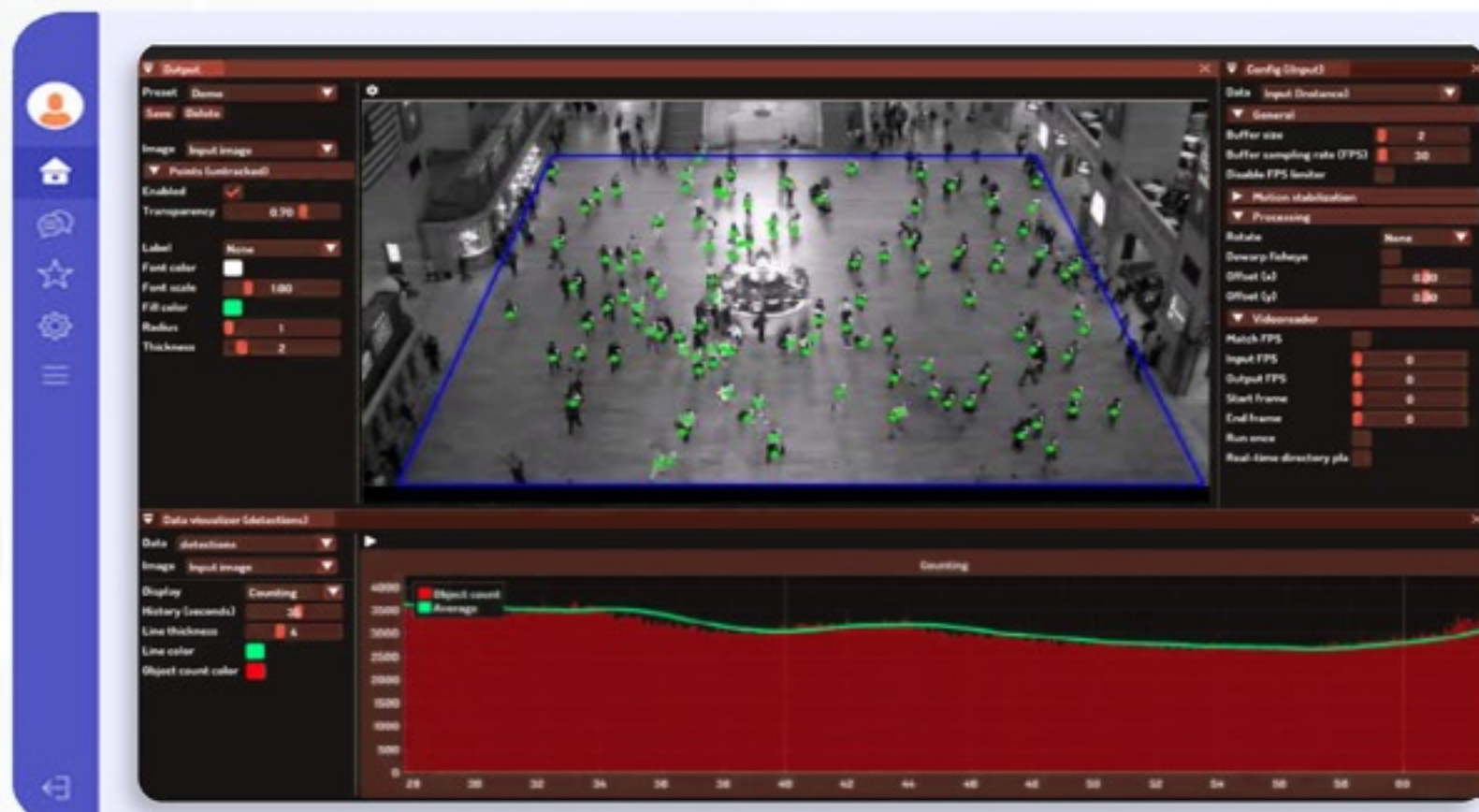
Drone
Crowd
Counting



Drone Crowd Counting

High - resolution camera drones monitor crowds, sending live video to a central hub. Advanced algorithms count people in real-time, aiding law enforcement decisions for proactive crowd management. Recorded data allows post-event analysis and strategy refinement while adhering to legal and privacy guidelines.

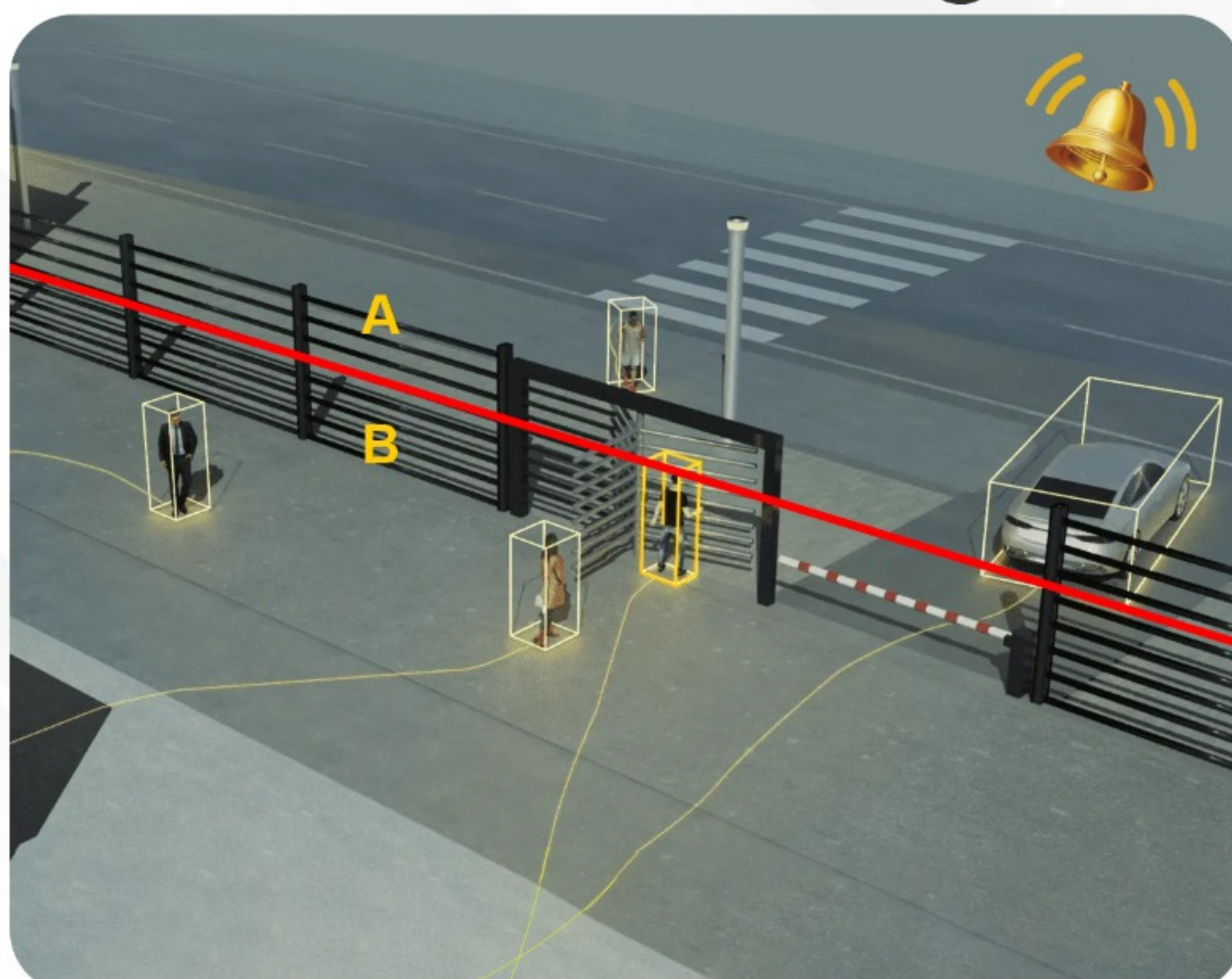
Fixed
Crowd
Counting



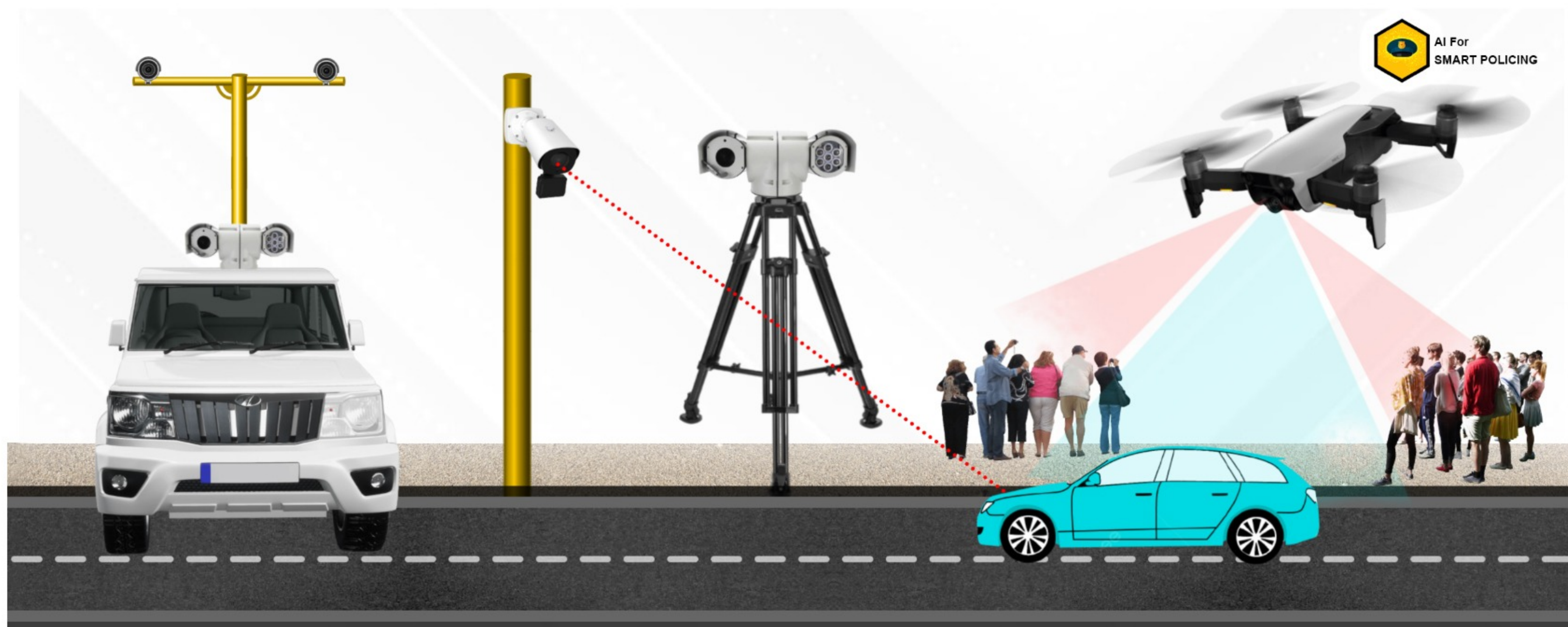
Fixed Crowd Counting

Fixed and vehicle-mounted IP cameras capture and process visual data in crowded areas. Fixed cameras provide real-time footage, while vehicle cameras offer dynamic perspectives. Computer vision algorithms swiftly analyze this data, offering insights into crowd behavior and density. This aids law enforcement and event organizers in efficient crowd management for enhanced public safety at gatherings.

Line Crossing and Intrusion Detection



Line crossing and intrusion detection systems are essential tools for law enforcement, offering enhanced security and rapid response capabilities. These systems use virtual lines to monitor specific areas, triggering immediate alerts when unauthorized individuals cross predefined boundaries. Real-time alerts enable swift responses, allowing law enforcement to assess situations accurately. Integrated with surveillance cameras, these systems provide visual verification, aiding in decision-making. Their visible presence acts as a deterrent, dissuading potential intruders. Customizable and adaptable, these systems are invaluable for safeguarding critical areas and maintaining public safety.



COS AI 's Indicative Components for Smart Policing

Sl.No	AI for Smart Policing Components	Qty.	Unit	Remarks	Pricing
1	COS AI Analytics System Software				
a.	ANPR + ATCC Software (Module - 1)	1	No.	COS AI	Contact
b.	ANPR + Helmet Detection (Module - 2)	1	No.	COS AI	Contact
c.	Tracing Car with ANPR, Crowd Analysis, Line Crossing & Intrusion Detection (Module - 3)	1	No.	COS AI	Contact
d.	Combined above 3 Modules software is Module - 4	1	No.	COS AI	Contact
2	Hardware of COS AI LPU / GPU Kit	1	No.	COS AI	Contact
3	Fixed PTZ Camera 20 X Optical Zoom (4.7 – 94 mm) 150 m IR Night Vision IP (Network)	1	No.	COS AI	Contact
4	For IP Bullet / PTZ Cameras, A Telescopic tube is optional to lift the camera to a greater height position for various purposes.	1	No.	COS AI	Contact
5	PoE Switch TP Link / HIKVISION - Optional for more camera's POE is required	1	No.	COS AI	Contact
6	Internet Dongle (To sent the reports to Head Office from the specified spot)	1	No.	COS AI	Contact
7	To viewing the real time scenario - Laptop or Tablet Latest Specifications.	1	No.	Client	Contact
8	APPA Portable Lithium-ion battery for LPU Kit and Camera power supply (Up to 10 Hours Backup) - Optional	1	No.	COS AI	Contact

Terms & Conditions

- ★ The client is responsible for providing the Bolero/Jeep vehicle.
- ★ All costs related to PTZ camera mounting/engineering works are to be borne by the client.
- ★ The Kit and PTZ Camera's power supply must be drawn from the Bolero/Jeep battery, including any necessary wiring, which is the client's responsibility.
- ★ It is important not to park a stationary vehicle within the video coverage area; continuous traffic flow is preferred.
- ★ Not recommended for use in areas with mixed traffic, such as road crossings, traffic signals, or leakage roads.
- ★ If a customer requests usage on road crossings, service roads, leakage roads, etc., a separate product should be explored.



COS AI – AI Powered Intelligent Transportation System Provider

We also specialize in other smart policing solutions, including Facial Recognition, Suspect Tracking, Traffic Violation Detection, Object Detection, and Cross-Camera Tracking. Additionally, we can tailor our systems to meet specific requirements.

Please contact us or visit www.cosai.in for more information.



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COS AI

AI Powered Intelligent Transportation System Provider



ATCC
Automatic Traffic
Counter and Classifier



AI Based
Traffic Camera



ANPR
Automatic Number
Plate Recognition



VIDS
Video Incident
Detection System



VSIDS
Vehicle Speed
Detection System



AI For
SMART
POLICING

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THANK YOU
for visiting us!