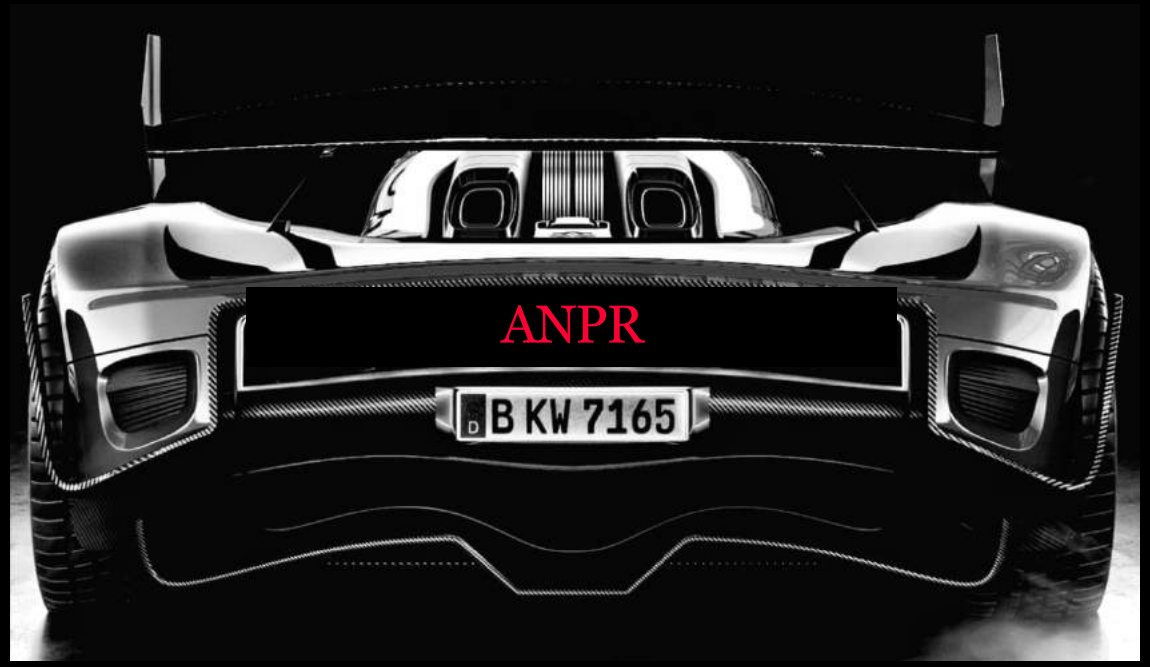
LucrorAi

Automated Number Plate Recognition – Vehicle Ai

ANPR – Automated Number Plate Recognition



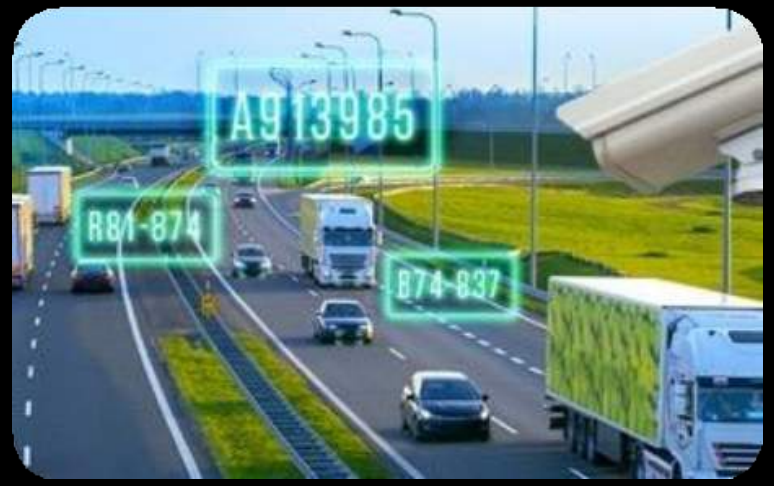
- High accuracy end-to-end AI pipeline (98+% accuracy)
- Handles wide range of challenging license plate types
- Stacked Characters, Symbols, Temp plates
- Supports Stop-n-Go and Free-Flow, Unidirectional & Bi-directional, Multiple lane views
- Open API for integration with any 3rd Party system
- Service Level Accuracy Guarantees (SLA)

Award-winning Ai Company

Gartner COOL VENDOR | Deloitte. Insights | amazon web services MOBILITY AWARDS | NextBIGIdea CONTEST 2018 : 6th Edition | CISCO LaunchPad | Microsoft Accelerator | QUALCOMM Design Winner

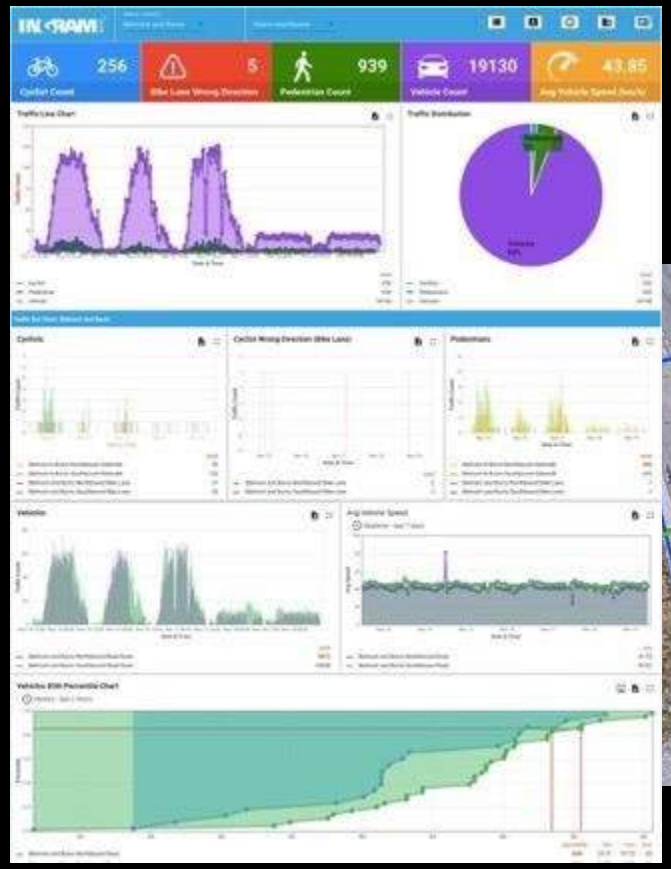
Traffic Automation Ai

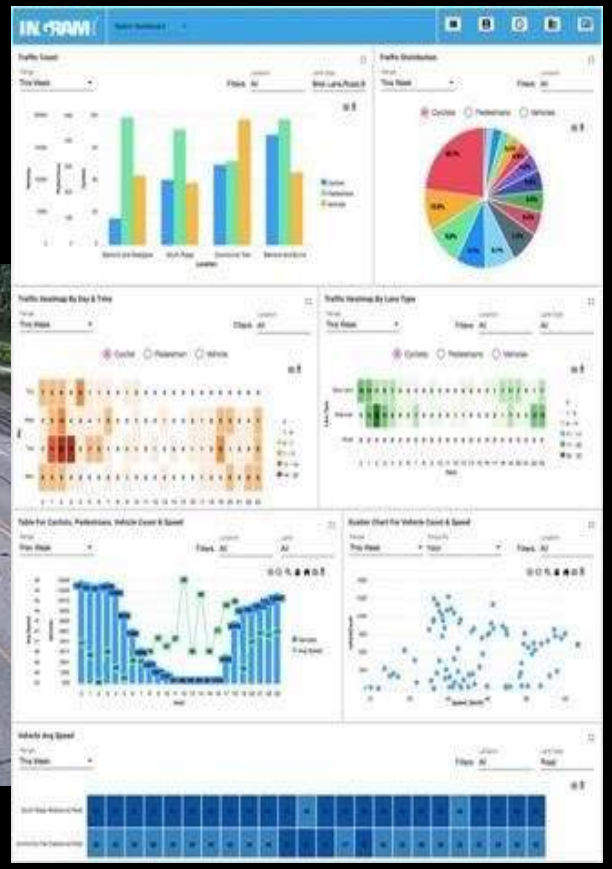
- Red Light Violation
- Average Speed Violation / Spot Speed Violation
- Helmet Violation Detection
- Parking in NO parking zone
- One-way violation
- Opposite direction driving



Smart Cities

- Traffic Analytics
- Vehicle Counting & Speed Analysis
- Pedestrian & Bicyclist Counting
- Violation Detection

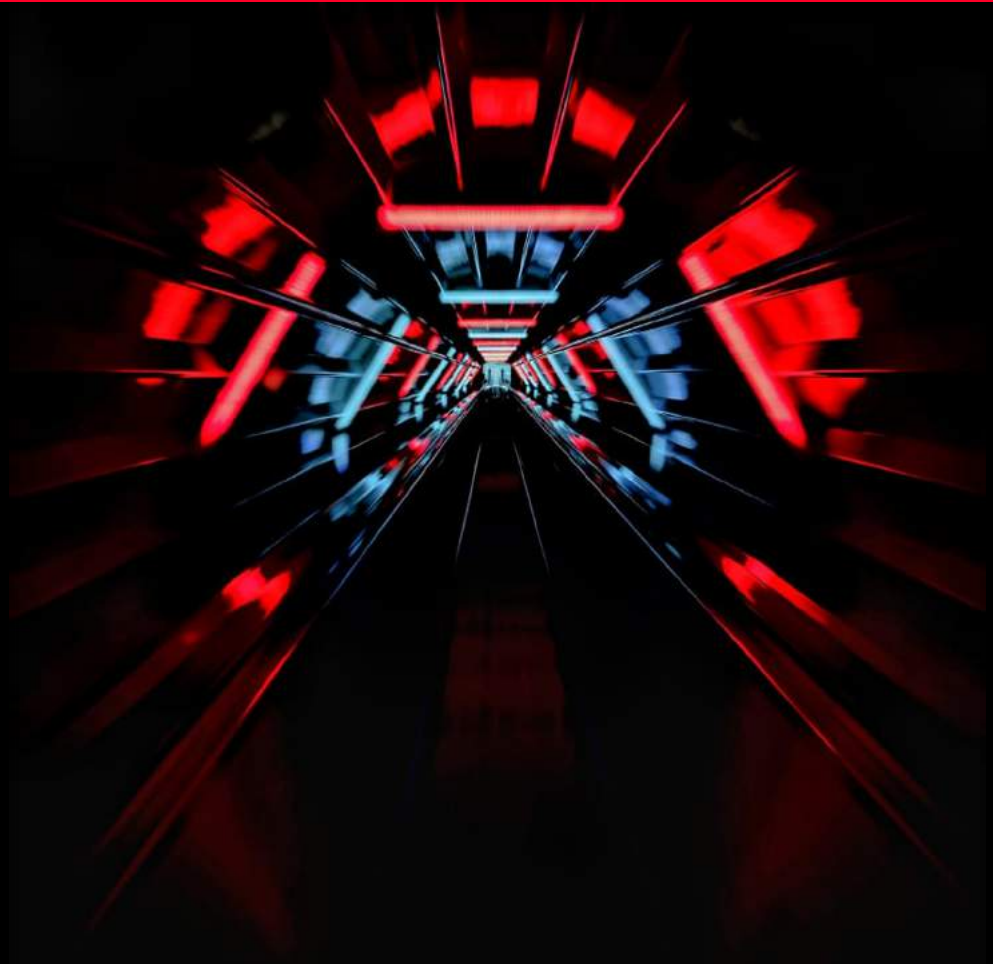




Tunnel Surveillance

- Road Tunnel Vehicle stopped/ wrong direction/ lane crossing, Vehicle parked, entered or exited restricted area, People trespassing, loitering, crowding, entered or excited restricted area and other rules as above

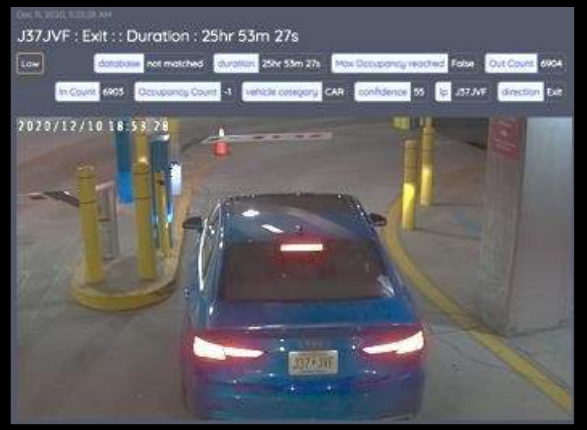
- Surveillance of any assets 24/7

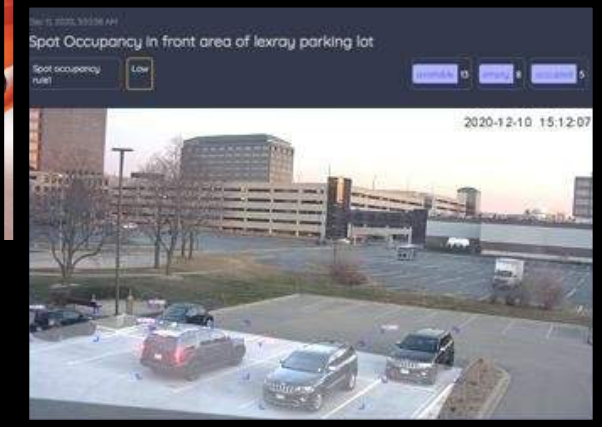


Smart Parking & Gate Security

License Plate Recognition at Gate

- Recognizes authorized vehicles of - Tenants or Guests or Visitors
- No security monitoring required
- Vehicle Entry/Exit Access Control using Boom Barrier
- Parking Duration/Inside Premises Report
- Automated Access Control
- Visitor Management Solution
- Ticketless Parking
- Revenue Monitoring
- Spot Occupancy
- Digitization of Occupancy
- Edge AI and Cloud Dashboard



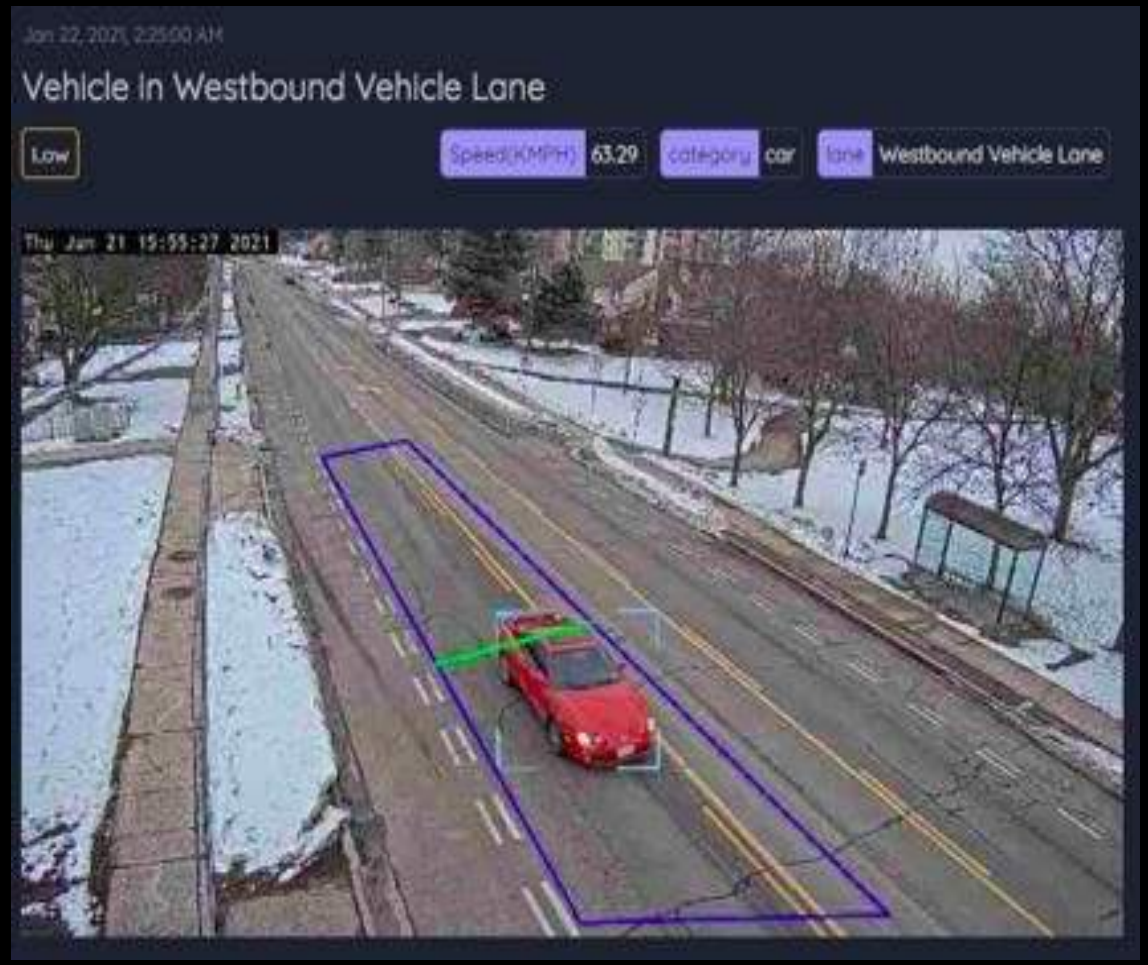


Signal Automation Ai

- Traffic Density Measurement;
- Dynamically change the signal depending on the vehicle density
- Vehicle count and class of vehicle
- Red light violation

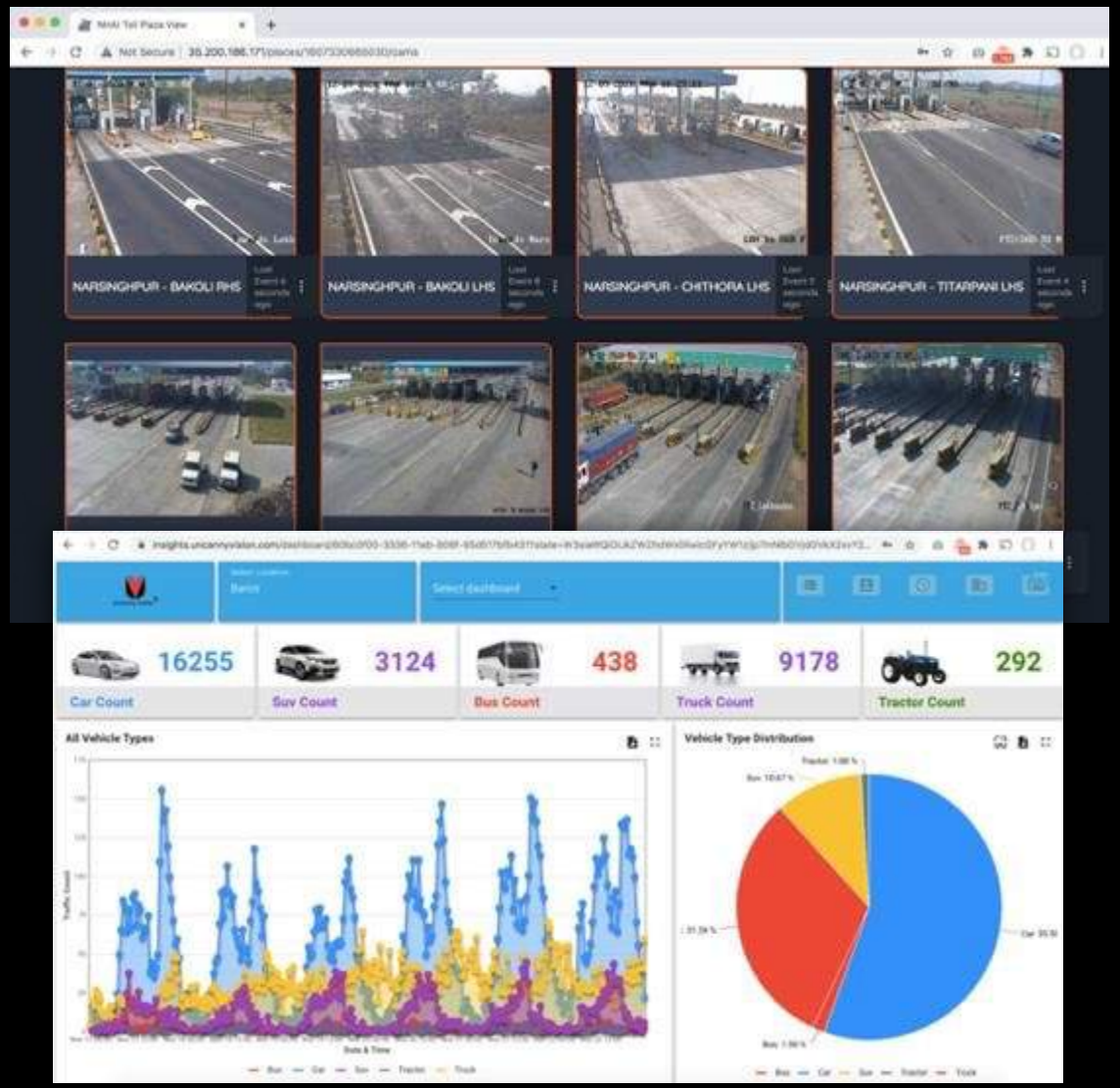
Speed monitoring with ANPR

- Speed Monitoring without Radar
- Low-cost Edge Solution
- Vehicle Classification
- Integrated ANPR
- Targeted at Commercial & Residential Campuses



Highway & Toll monitoring

- High Accuracy LPR
  - Stop-n-Go mode for Toll Plaza
  - Free-Flow mode for Gantry-based Installations
- Vehicle Counting
- Vehicle Classification
- Detailed Analytics Dashboards



Video Incident Detection

The concept of video incident detection is to detect specific rule incident at a given area.

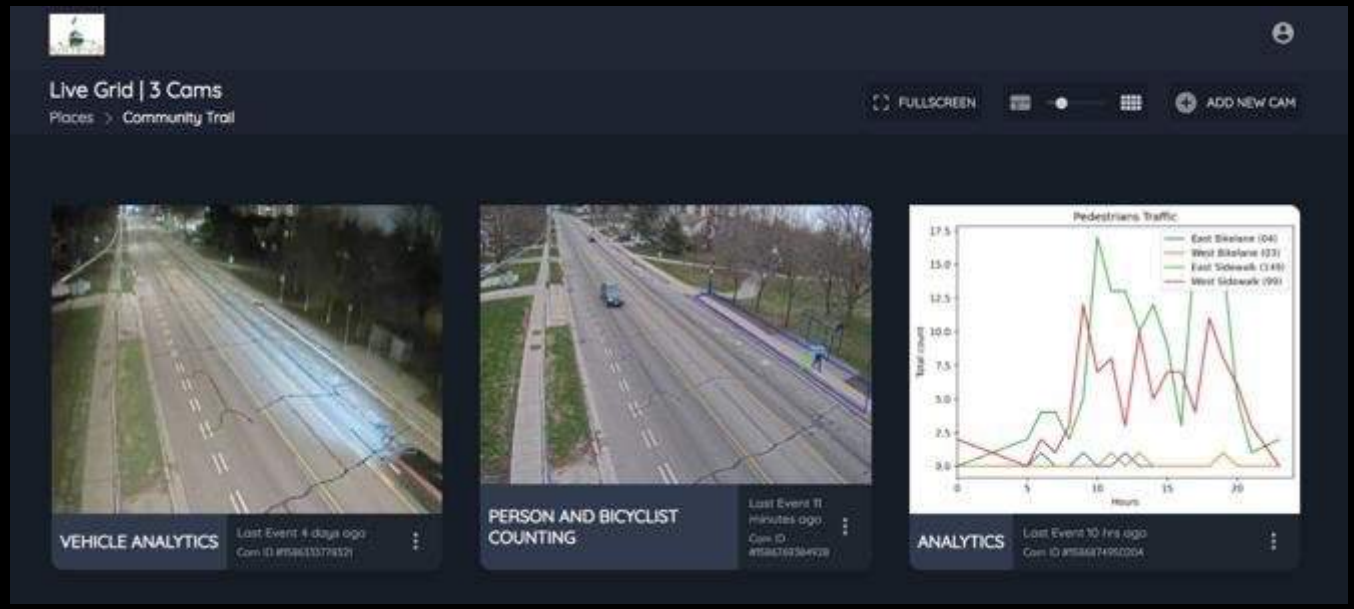
- Normal Camera compatible
- Processing at edge processor allowing to connect to existing network without much bandwidth burden

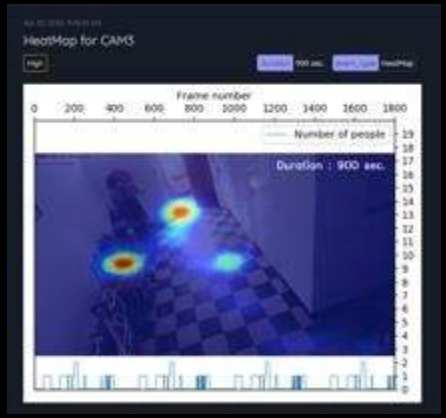
Supports Custom Analytics like below:

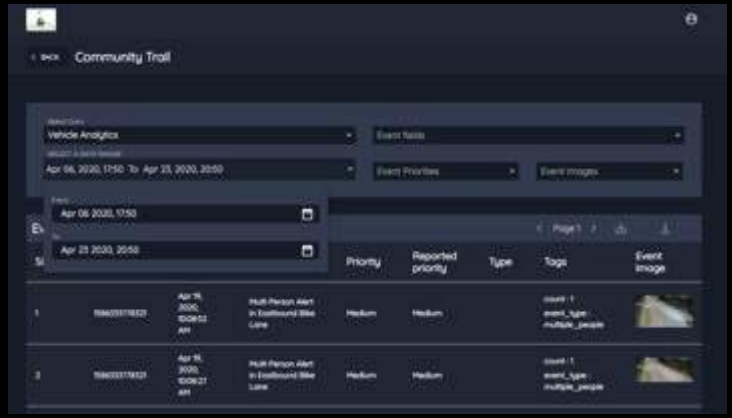
- Any crimes
- One way riding violation
- Two wheeler on footpath
- Helmet/ No Helmet detection
- Parking in NO parking zone
- Opposite direction driving detection

Customer Dashboard

- Multi-Tenant Secure Dashboard for viewing Alerts & Analytics
  - Cloud or Private Datacenter
  - Scalable to 1000's of Cameras
- Modern Web-based UI
  - Mobile or Web Support
  - HTML5 based
  - Open Frontend & Backend REST APIs
- Highly Configurable
  - Alert Types – Image or Video snippers
  - Org, Camera, People structure
  - Remote Camera & Analytics Settings
- Downloadable Reports
- Email/Phone Notifications
- Configurable Analytics, Heatmaps
- Summary Videos (upcoming feature)







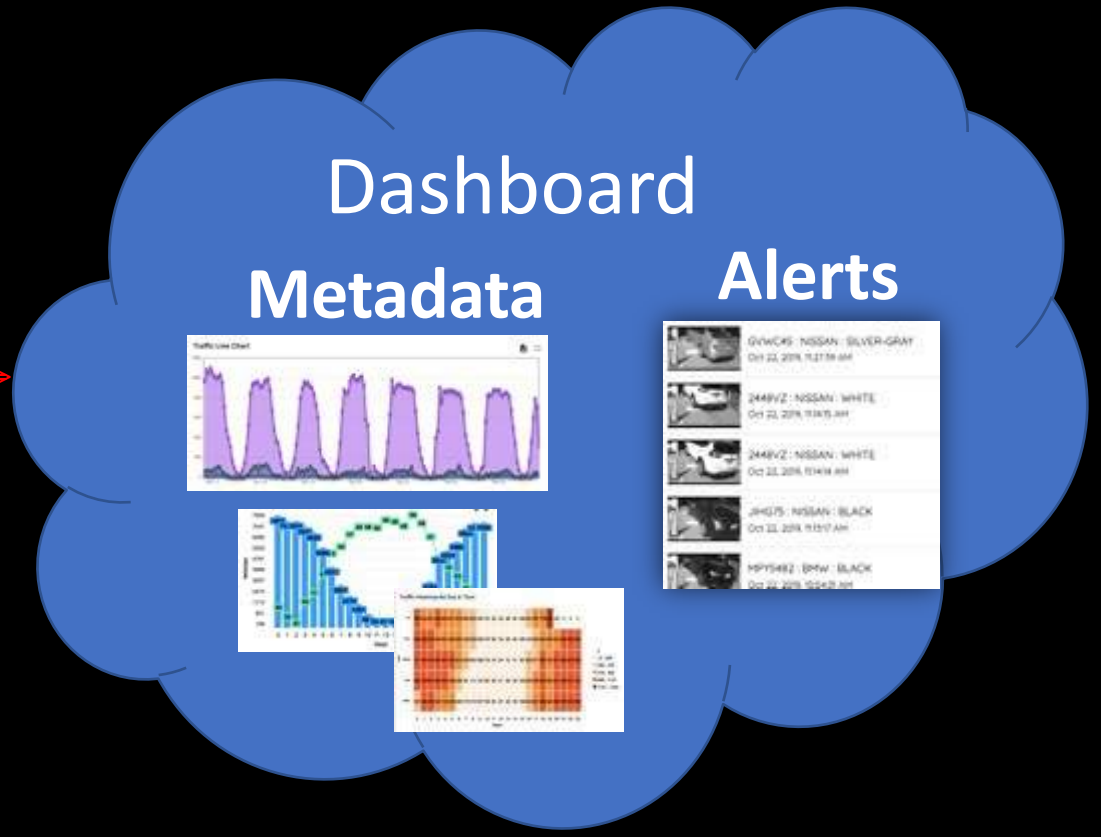
Turning Cameras into vision sensors

Cameras

Live Video

AI Processing system
(Edge or Cloud)

Events
(Open API)



Rapidly growing installations worldwide

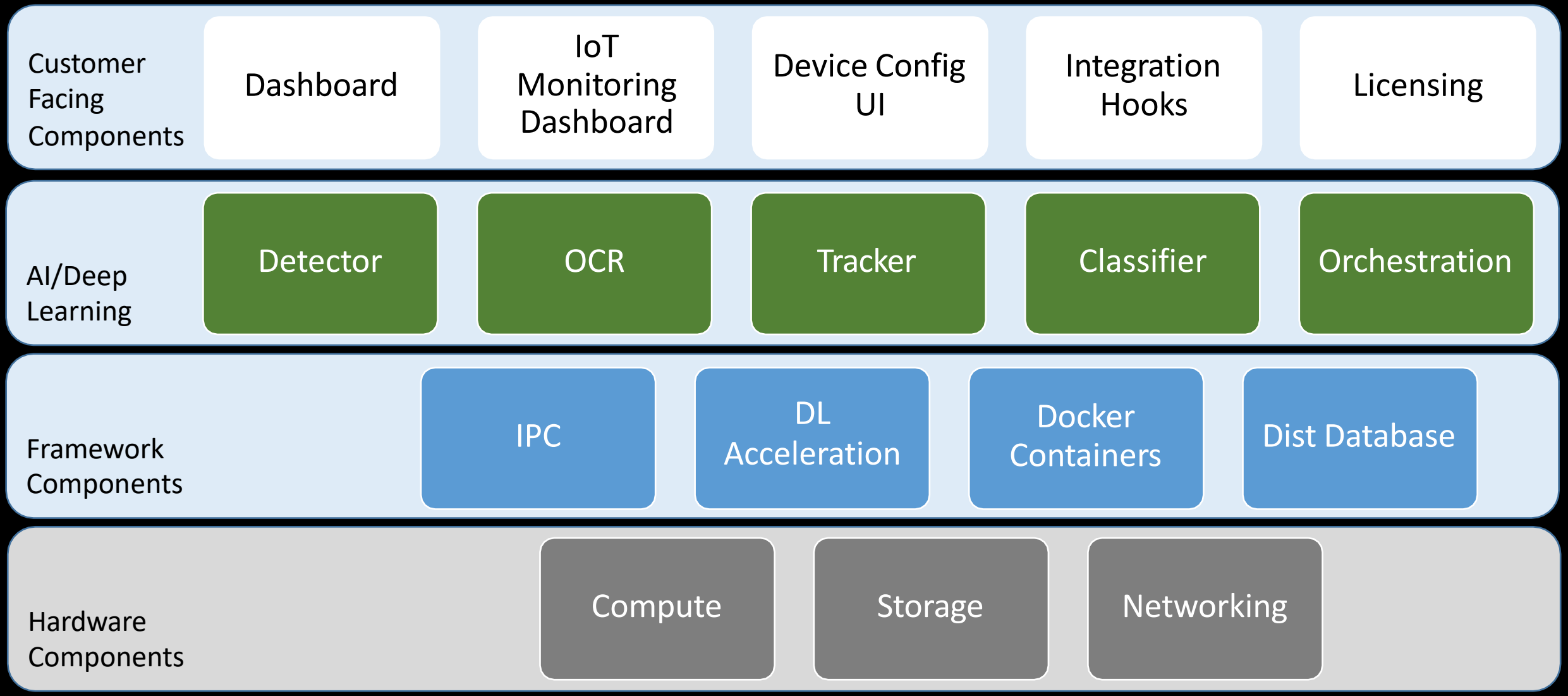
2018: 300 Cameras

2019: 3000 Cameras

2020: 30,000 Cameras

Live deployments

Techstack


Customer Facing Components
Dashboard
IoT Monitoring Dashboard
Device Config UI
Integration Hooks
Licensing
AI/Deep Learning
Detector
OCR
Tracker
Classifier
Orchestration
Framework Components
IPC
DL Acceleration
Docker Containers
Dist Database
Hardware Components
Compute
Storage
Networking

Technology Workflow

Video

Edge
IoT Gateway

Events

Cloud Dashboard

VM

DB

Secondary
Validation

Tertiary
Validation

Human
Annotation

Alerts,
Heartbeats

Updates

IoT
Management
Framework

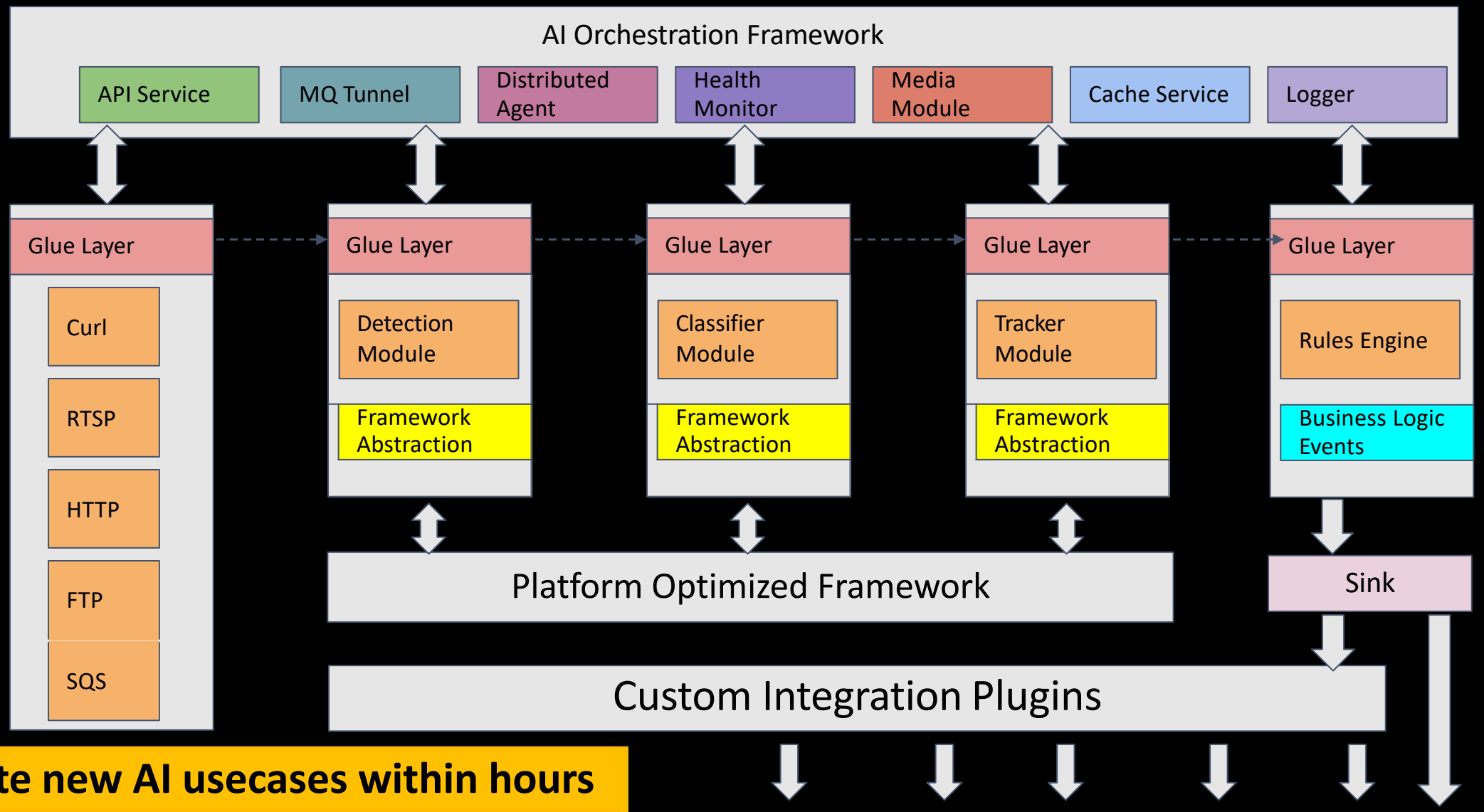
Target-specific
Optimization

DL Training

CV, DL based
Augmentation

Proprietary Site-Specific Training Framework in Teacher-Student mode enables small but highly accurate AI models

Framework



Create new AI usecases within hours

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