

 metafusion

# Search Your World

anything, anytime, anywhere



# Problem Statement



70%

High % of rudimentary existing surveillance infra



20%

Low adoption of new tech at lower levels



85%

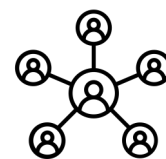
Have no single solution or they use multi-layered systems

**How can you solve for these problems and be future ready?**



# What is **Metafusion**?

“Metafusion is a deep tech analytics platform that combines big data, NLP and computer vision technologies to enable the user, search any info from within the metadata”



**Seamlessly Integrate** with existing setup



Use existing surveillance infra as **source for your data needs**



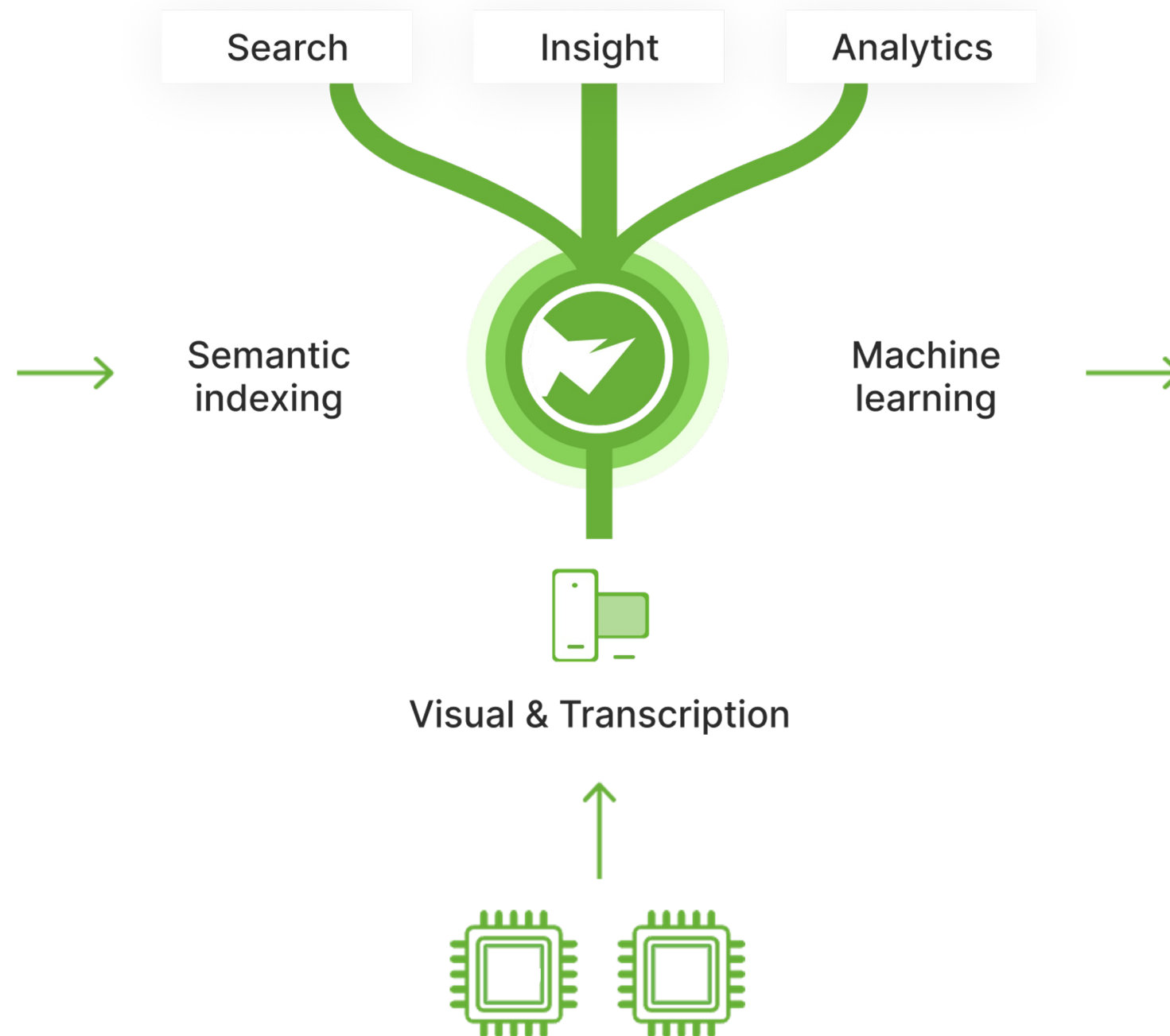
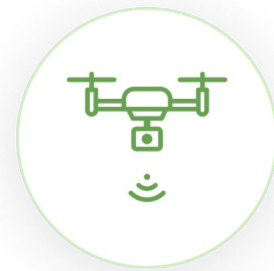
Power of **NLP and Big Data** using **AI/ML/DL**

# Few use cases of **Metafusion**?

- How many red colour cars have crossed the junction in last hour?
- Have traffic violations decreased in last 3 months in west district?
- What's the count of people entered from Gate #2?
- Is anyone absent from the class today?
- What keywords are trending on Social media since morning ?



# Meta extraction process



1. Computer Vision to index and collate your metadata

2. Big data analytics to help with your metadata analytics

3. NLP assist the user, creating truly user-friendly experience

# Deployment Mode



Cloud



Hybrid



On-premise

# Industries



Public Safety



Smart Traffic



Defence



Law Enforcement



Smart & Safe City



Railways



Shopping Mall



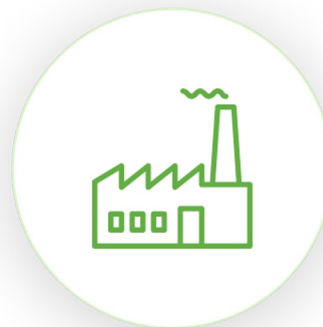
Metro



Parking  
Management



Media & Ent



Manufacturing



Warehousing



Retail



Critical Infra  
Monitoring



Education



Aviation



Public Transport



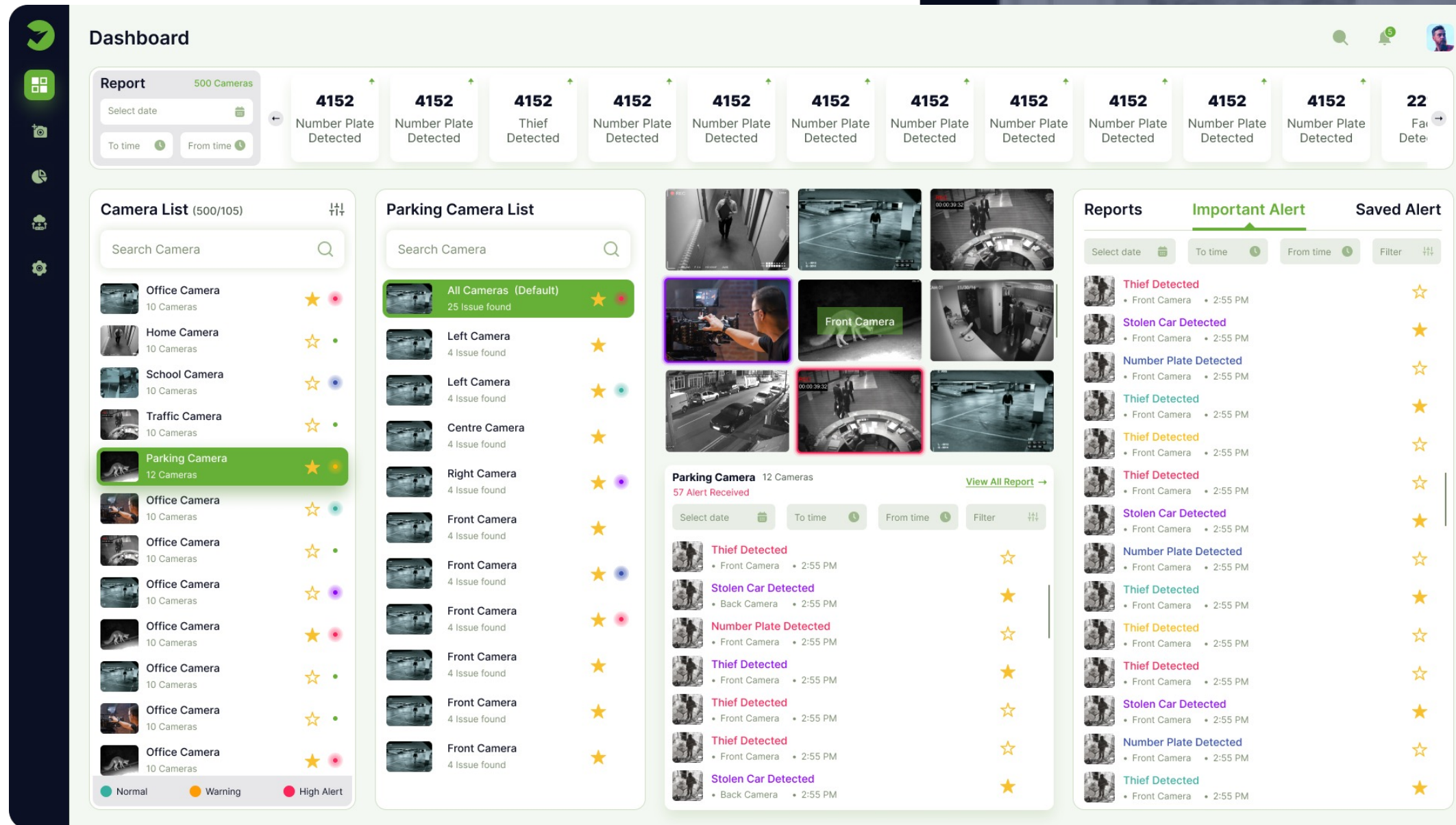
Ports

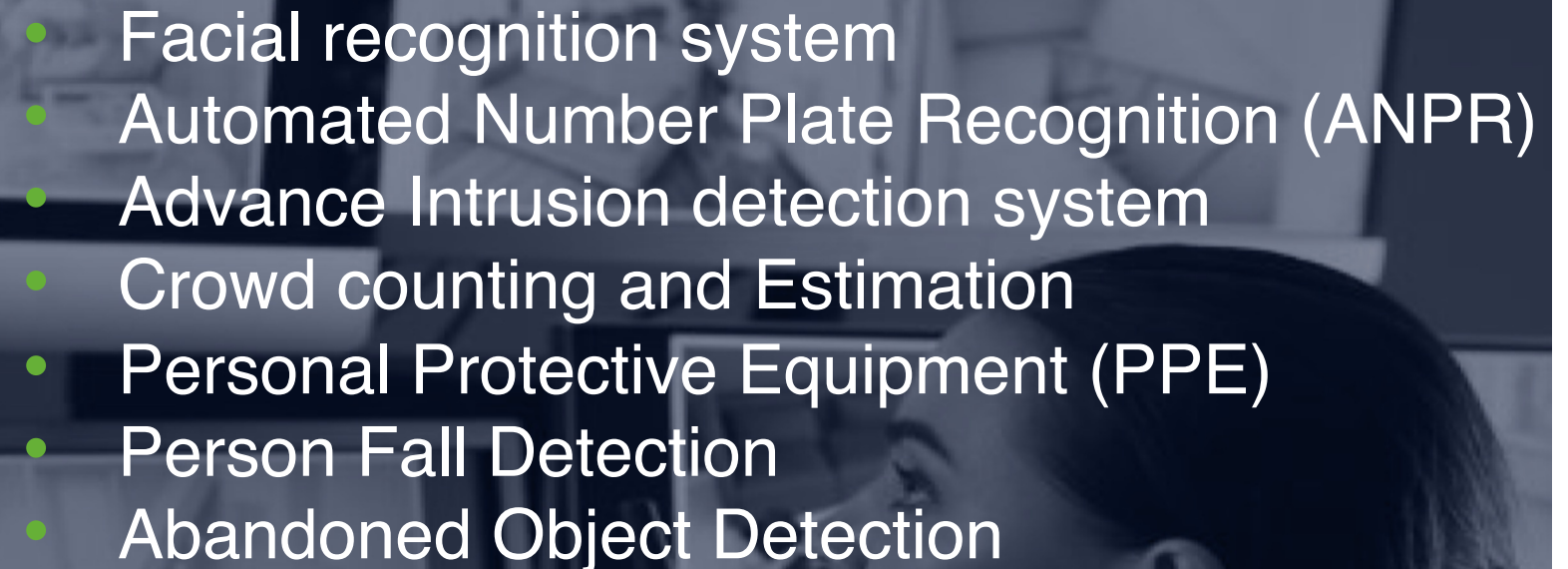


# Unified AI powered Video Surveillance System

**metafusion.ai**

## Core Surveillance Tasks



- 
- A person is seen from the side, looking at a laptop screen. The image is dark and blurry, with a list of computer vision applications overlaid in white text on the left side. The list includes: Facial recognition system, Automated Number Plate Recognition (ANPR), Advance Intrusion detection system, Crowd counting and Estimation, Personal Protective Equipment (PPE), Person Fall Detection, and Abandoned Object Detection. The background shows a person's head and shoulders, and a laptop screen displaying some data or images. The overall tone is professional and technical.
- Facial recognition system
  - Automated Number Plate Recognition (ANPR)
  - Advance Intrusion detection system
  - Crowd counting and Estimation
  - Personal Protective Equipment (PPE)
  - Person Fall Detection
  - Abandoned Object Detection

# Platforms

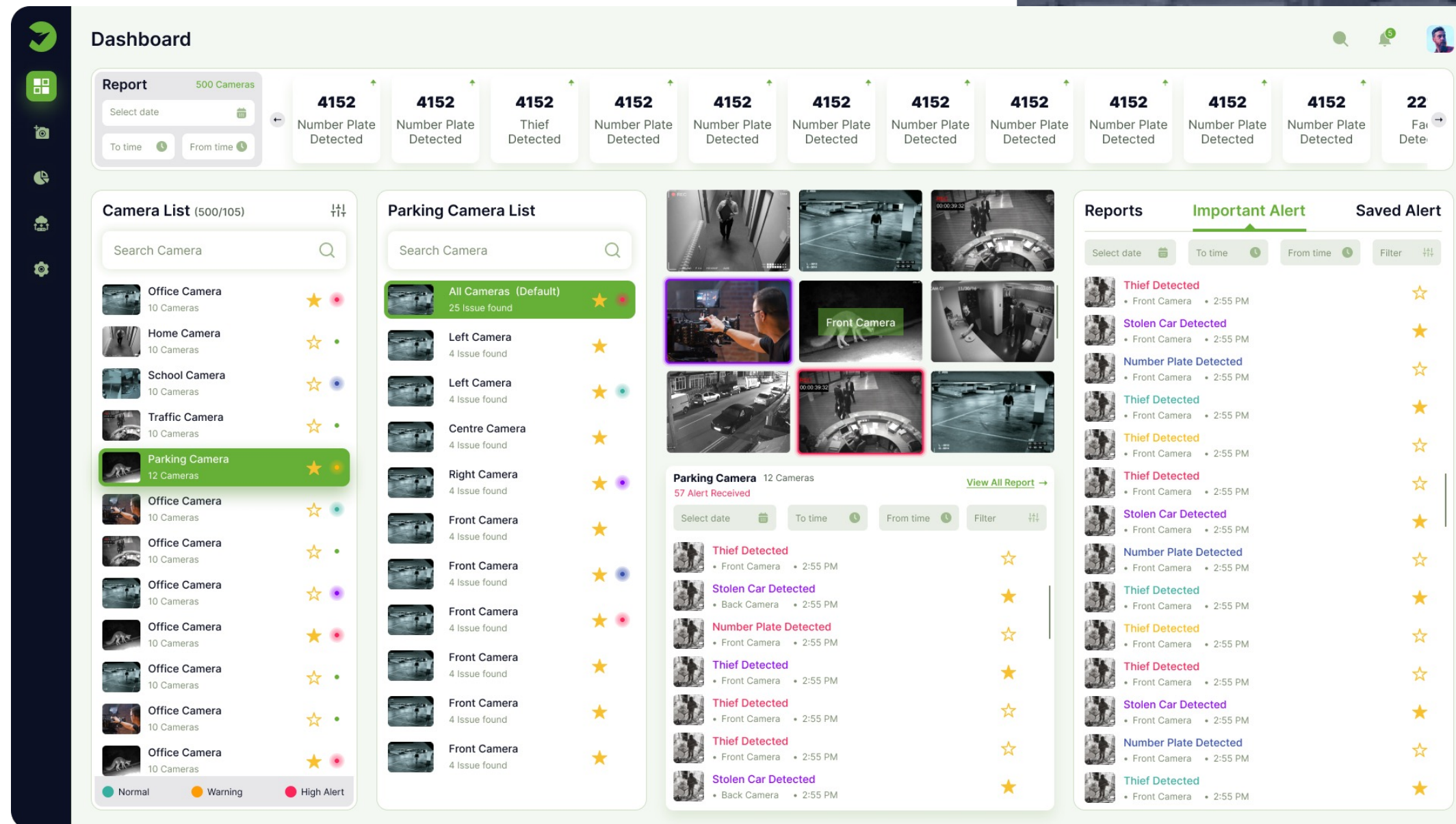
# Picture Intelligence Unit Video Summarization

## ++ 20 Surveillance Tasks



# Unified AI Integrated Traffic Management System

metatraffic.ai



**Dashboard**

**Report** 500 Cameras

Select date: [Calendar icon] To time: [Clock icon] From time: [Clock icon]

4152 Number Plate Detected

4152 Number Plate Detected

4152 Thief Detected

4152 Number Plate Detected

4152 Number Plate Detected

4152 Number Plate Detected

4152 Number Plate Detected

4152 Number Plate Detected

4152 Number Plate Detected

4152 Number Plate Detected

4152 Number Plate Detected

22 Fai Dete

**Camera List (500/105)**

Search Camera [Search icon]

- Office Camera 10 Cameras
- Home Camera 10 Cameras
- School Camera 10 Cameras
- Traffic Camera 10 Cameras
- Parking Camera 12 Cameras**
- Office Camera 10 Cameras
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**Parking Camera List**

Search Camera [Search icon]

- All Cameras (Default) 25 Issue found**
- Left Camera 4 Issue found
- Left Camera 4 Issue found
- Centre Camera 4 Issue found
- Right Camera 4 Issue found
- Front Camera 4 Issue found
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- Front Camera 4 Issue found

**Parking Camera 12 Cameras** 57 Alert Received

Select date: [Calendar icon] To time: [Clock icon] From time: [Clock icon] Filter: [Filter icon]

- Thief Detected Front Camera 2:55 PM
- Stolen Car Detected Back Camera 2:55 PM
- Number Plate Detected Front Camera 2:55 PM
- Thief Detected Front Camera 2:55 PM
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**Reports** Important Alert Saved Alert

Select date: [Calendar icon] To time: [Clock icon] From time: [Clock icon] Filter: [Filter icon]

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● Normal ● Warning ● High Alert

## Enforcement –

- ANPR + RLVD + e-challan system
- Speed Detection - Camera Based
- Speed Detection - Radar Based
- Wrong Way Detection
- Triple Riding detection

## Management-

- Vehicle Count and Classification
- ANPR - Fixed Camera + Vehicle Mounted

**++ 18 Traffic Tasks**



# Unified AI Use cases

## Advance Intrusion Detection

**Dashboard**

**Report** 500 Cameras

Select date [ ] To time [ ] From time [ ]

4152 Number Plate Detected

4152 Number Plate Detected

4152 Thief Detected

4152 Number Plate Detected

4152 Number Plate Detected

4152 Number Plate Detected

4152 Number Plate Detected

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22 Fa Det

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● Normal ● Warning ● High Alert

**Parking Camera List**

Search Camera [ ]

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- Front Camera 4 Issue found

**Parking Camera 12 Cameras** 57 Alert Received View All Report →

Select date [ ] To time [ ] From time [ ] Filter [ ]

- Thief Detected • Front Camera • 2:55 PM
- Stolen Car Detected • Back Camera • 2:55 PM
- Number Plate Detected • Front Camera • 2:55 PM
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**Reports** Important Alert Saved Alert

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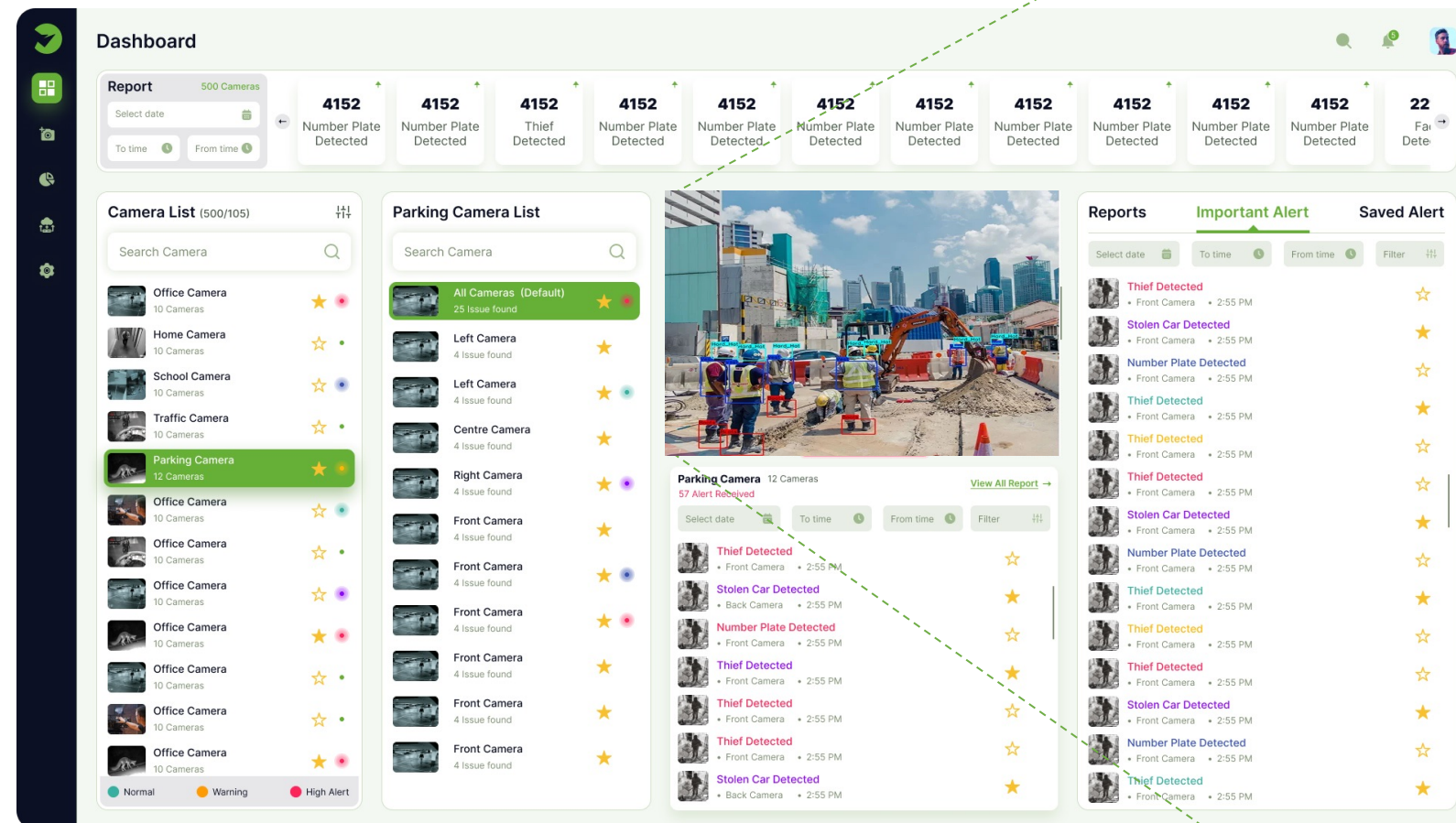
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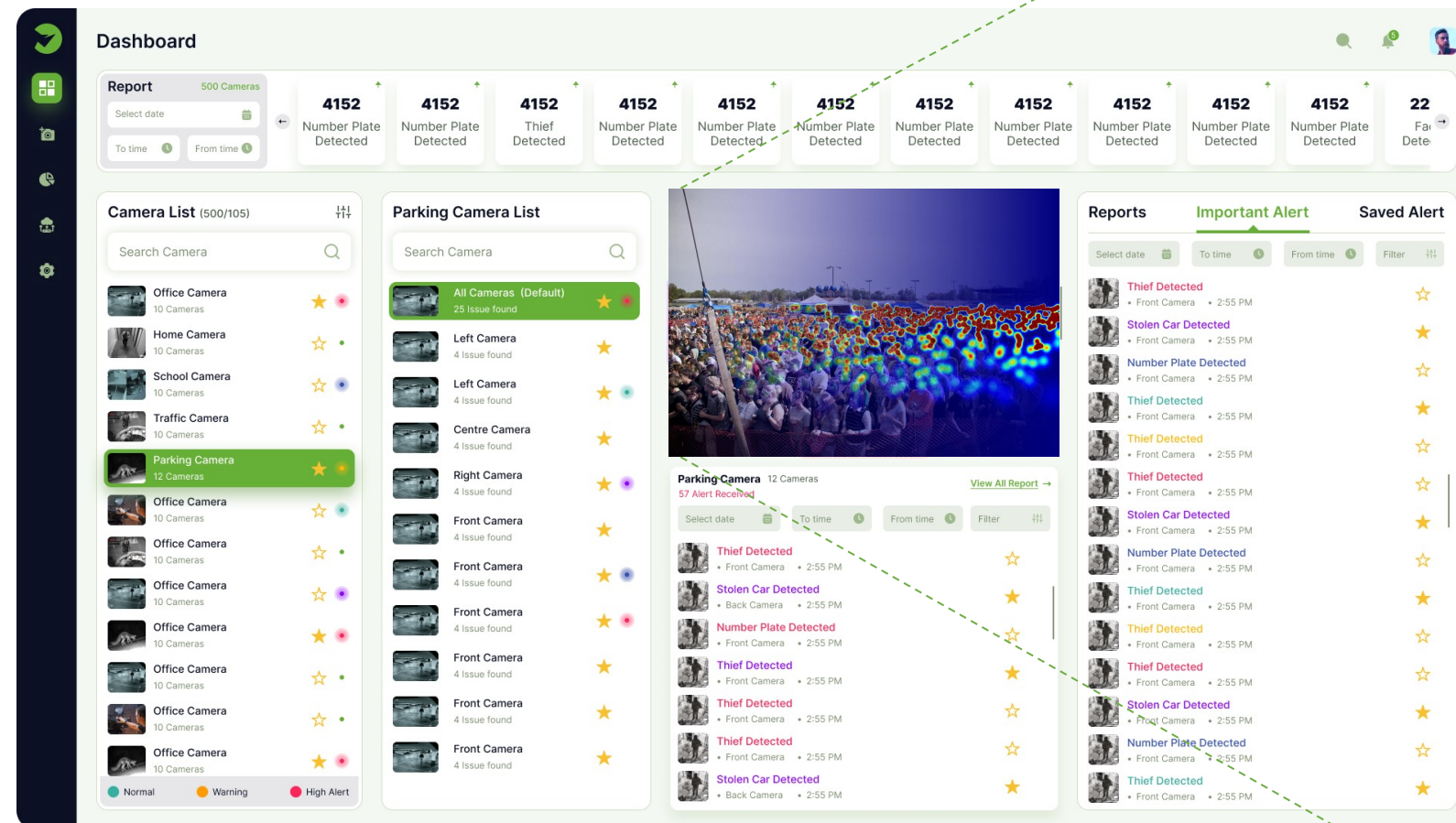
# Unified AI Use cases

## PPE Violation Detection





# Dense Crowd Estimation





- Perimeter and Intrusion Detection
  - Abandoned Object Detection
  - Personal Protective Gear
  - Slip and Fall Detection
  - Fire & Smoke Detection
  - Crowd & People counting
  - Loitering
  - Heatmaps
  - Customer Journey Tracking
  - Inventory Management
  - Footfall Analytics
  - Red Light Violation Detection (RLVD)
  - Speed Violation Detection (SVD)
  - Stop Line Violation Detection (SLVD)
  - Vehicle Count & Classification (VCC)
  - Vehicle Incident Management Detection (VIDS)
  - No Helmet
  - Triple Riding on 2-wheeler
  - Wrong Way Detection
  - Illegal Parking
  - Pothole Detection
  - Garbage Overflow
  - Animal on Street
- + many more...

# Metafusion platform USPs

## Meta Search

- Seamless search across the metadata
- Semantic search capability
- Corelation across datasets

## Flexible Architecture

- Serverless Microservices
- Algorithm Orchestration
- Hardware & Software agnostic
- Interoperability & Portability

## Scale

- Infrastructure as code
- Elastic – Multi City Deployment
- Auto scalable and load balancing
- Distributed yet Central
- Parallel & Concurrent
- Fault tolerant

## VMS & CCC Integrations

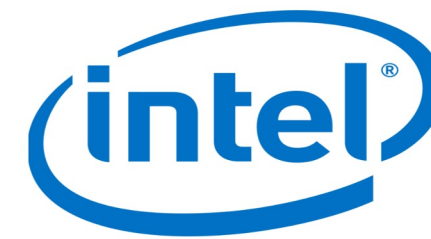
**Genetec**<sup>TM</sup>

 **milestone**

**Honeywell**

 **Qognify**

# Partnerships



**[www.metafusion.ai](http://www.metafusion.ai)**  
**[info@metafusion.ai](mailto:info@metafusion.ai)**

4th Floor, Springhouse Coworking,  
JMD Regent Arcade, MG Road, Gurgaon (HR), India - 122002