

AVIATION SAFETY, SECURITY & OPERATIONAL AI ACROSS INDIAN AIRPORTS





Introduction To Prisma AI

An Overview of Prisma AI

Prisma AI Overview:

- A global pioneer in visual artificial intelligence products.
- Specializes in predictive technologies for body behavioral analysis, sentiment analysis, OCR, image, video, face, and object recognition.

Core Focus:

- Develops pragmatic visual AI products using its proprietary computer vision platform **Gryphos®**, which comprises multiple AI engines and 300+ APIs.

Belief in the Potential of AI:

- The firm believes in the **limitless potential of AI to empower society.**
- Dedicated to contributing to the growth journey of organizations, individuals, and society for a better future.



“Prisma AI brings intelligence to vision systems, enabling real-time understanding of the world around us”

Global Reach



GLOBAL DEPLOYMENTS	CAMERAS RUNNING GRYPHOS®	CONTINENTS COVERED	TOTAL CONTRACTS TILL DATE
125+	425K+	06	\$260M+

-  4 Global Offices
-  19 Partner Offices





Key Challenges at Airports

Airports: Key Challenges

- **Baggage Handling Delays:** Frequent lost or delayed luggage causes passenger inconvenience.
- **Security Threats:** Detecting threats in real time across large terminals.
- **Crowd Management:** Long queues at check-in, security, and boarding points.
- **Access Control:** Ensuring only authorised personnel enter sensitive zones.
- **Operational Efficiency:** Coordinating multiple airport processes smoothly.
- **Emergency Response:** Quick detection and action for fires, intrusions, or suspicious items.





Visual AI Solutions For Airport

List Of Visual AI Solutions For Airport



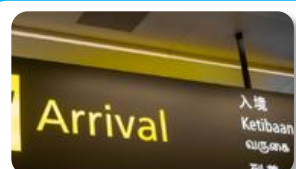
Intelligent Baggage Handling



Unattended Baggage Detection



Detection of Banned Objects



Red Channel Detection for Dutiable Objects



Cargo Screening



Total Airport Surveillance



Offender Detection



Quick Assistance for Incident



Runway Inspection



Airport Kitchen Monitoring



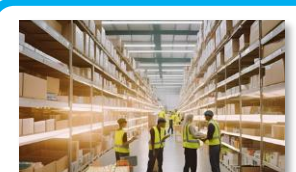
Check-in by Facial Recognition



Smart Parking System



Trolley Management

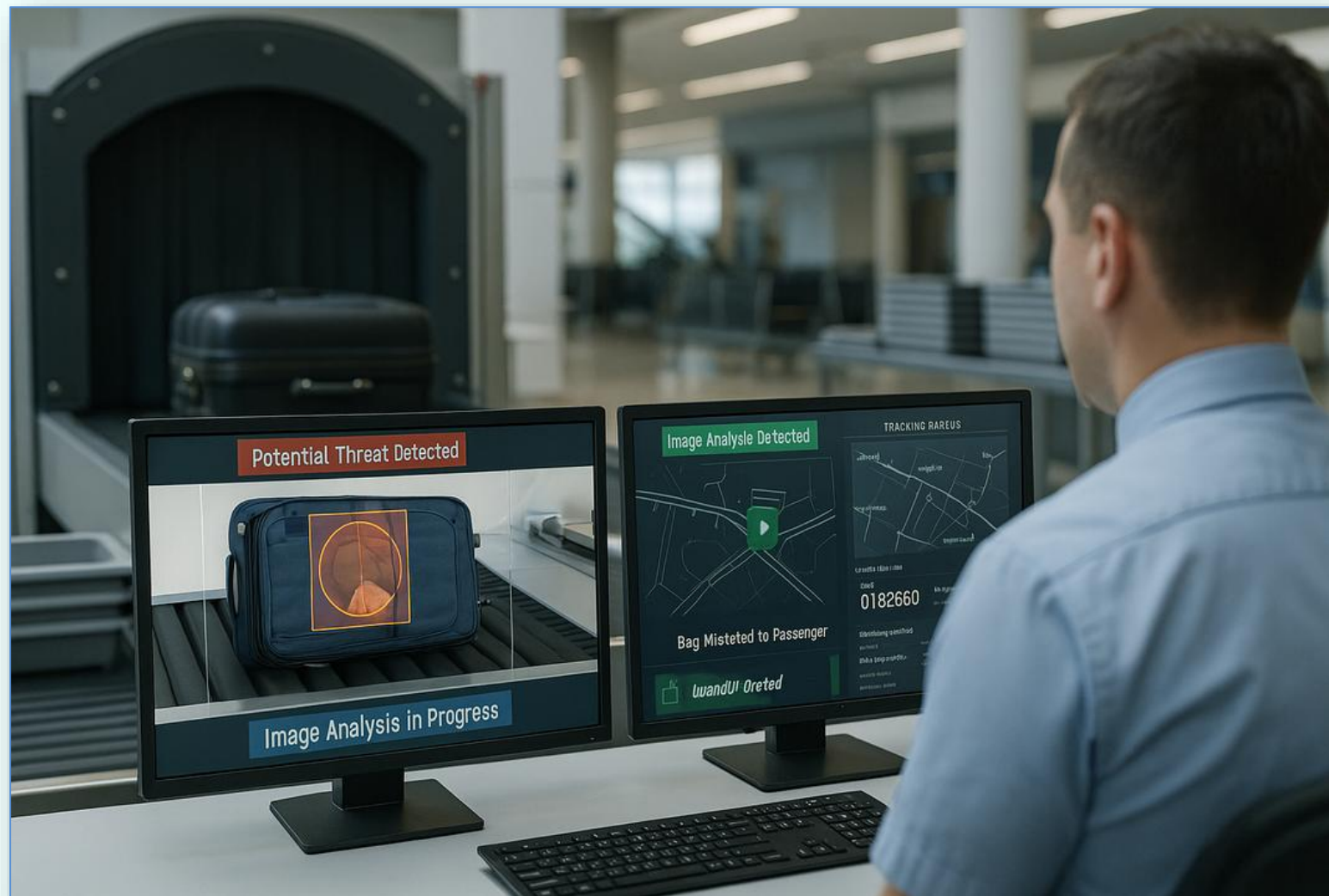


Warehouse Monitoring

Prisma AI Visual Solutions for Airports

Intelligent Baggage Handling

Advanced image recognition screens luggage for threats and improves security checks. Reconciliation and tracking ensure accurate matching and real-time baggage status.



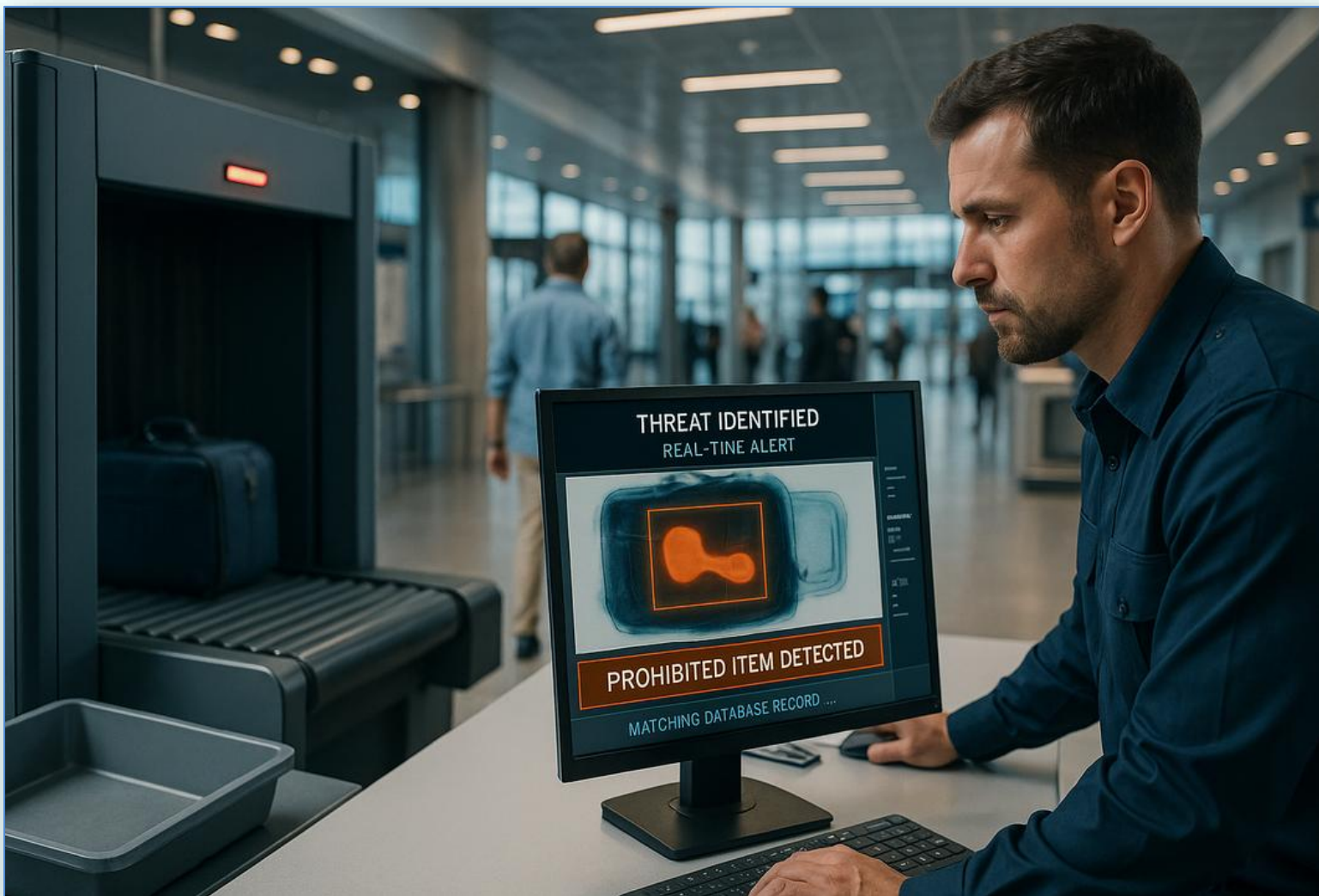
Unattended Baggage Detection

Object recognition detects unattended bags and tracks the last carrier. It monitors the person's time, movement, and proximity for safety.



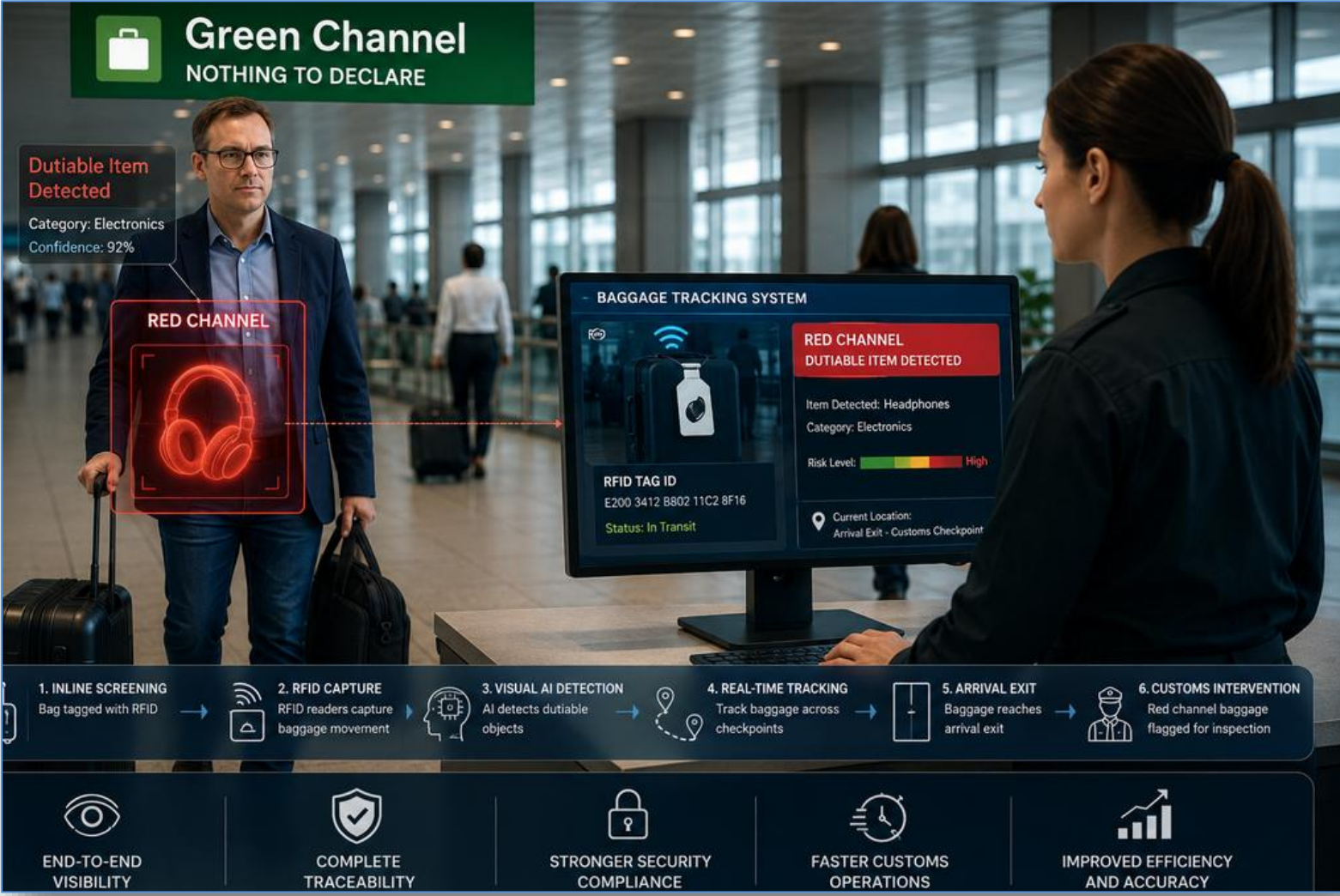
Detection of Banned Objects

AI identifies prohibited items during screening by using integrated databases. Real-time alerts notify security teams instantly, enabling faster responses.



Red Channel Detection for Dutiable Objects

RFID and Visual AI enable real-time tracking of flagged baggage from screening to exit, providing complete traceability, stronger security, and faster customs operations.



Prisma AI Visual Solutions for Airports

Cargo Screening

Image recognition inspects cargo shipments for suspicious or banned items. Real-time alerts improve screening accuracy and overall cargo security.



Total Airport Surveillance

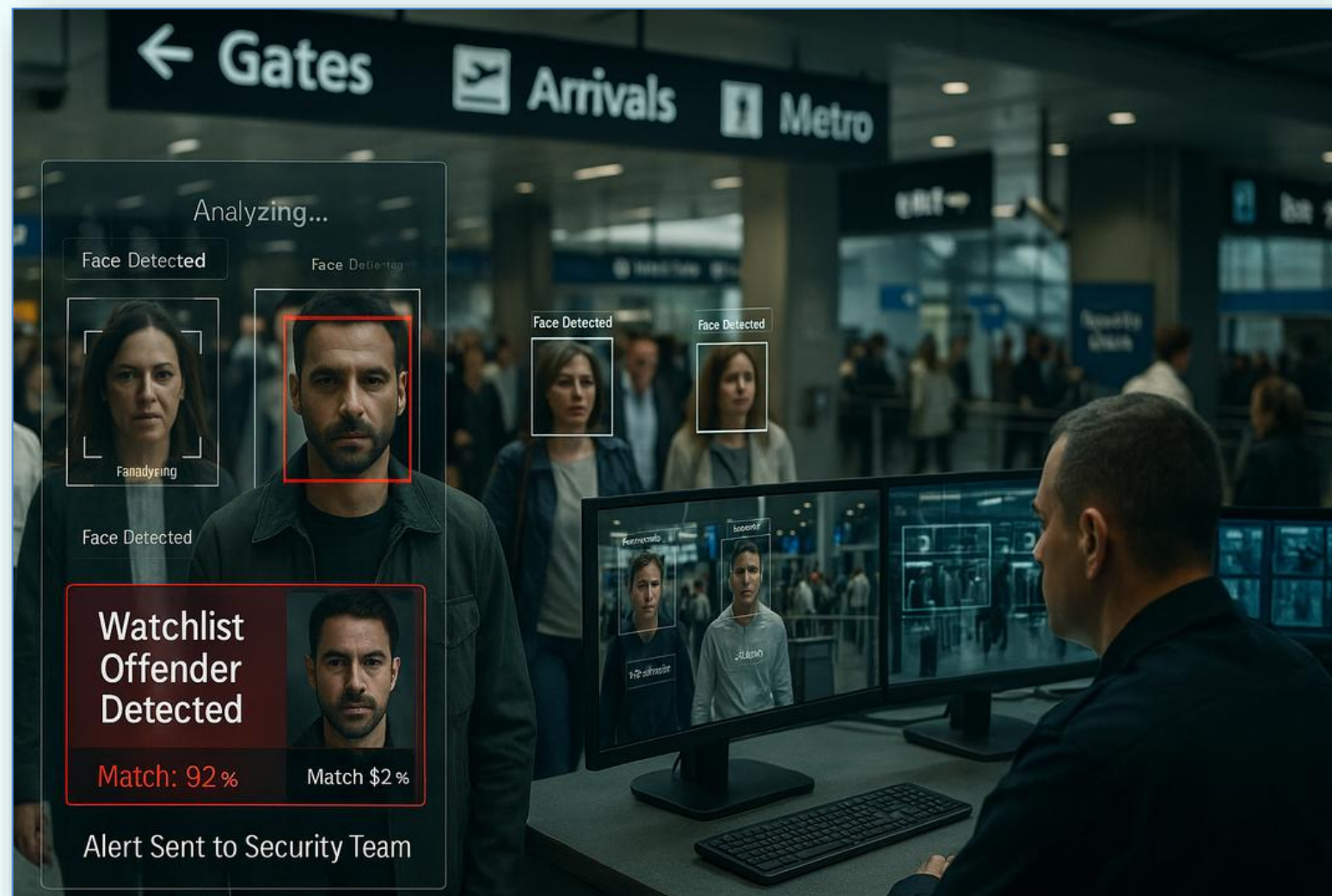
Unmanned video analysis manages traffic, crowds, and customs monitoring. Night-vision and real-time surveillance enhance safety across all airport areas.



Prisma AI Visual Solutions for Airports

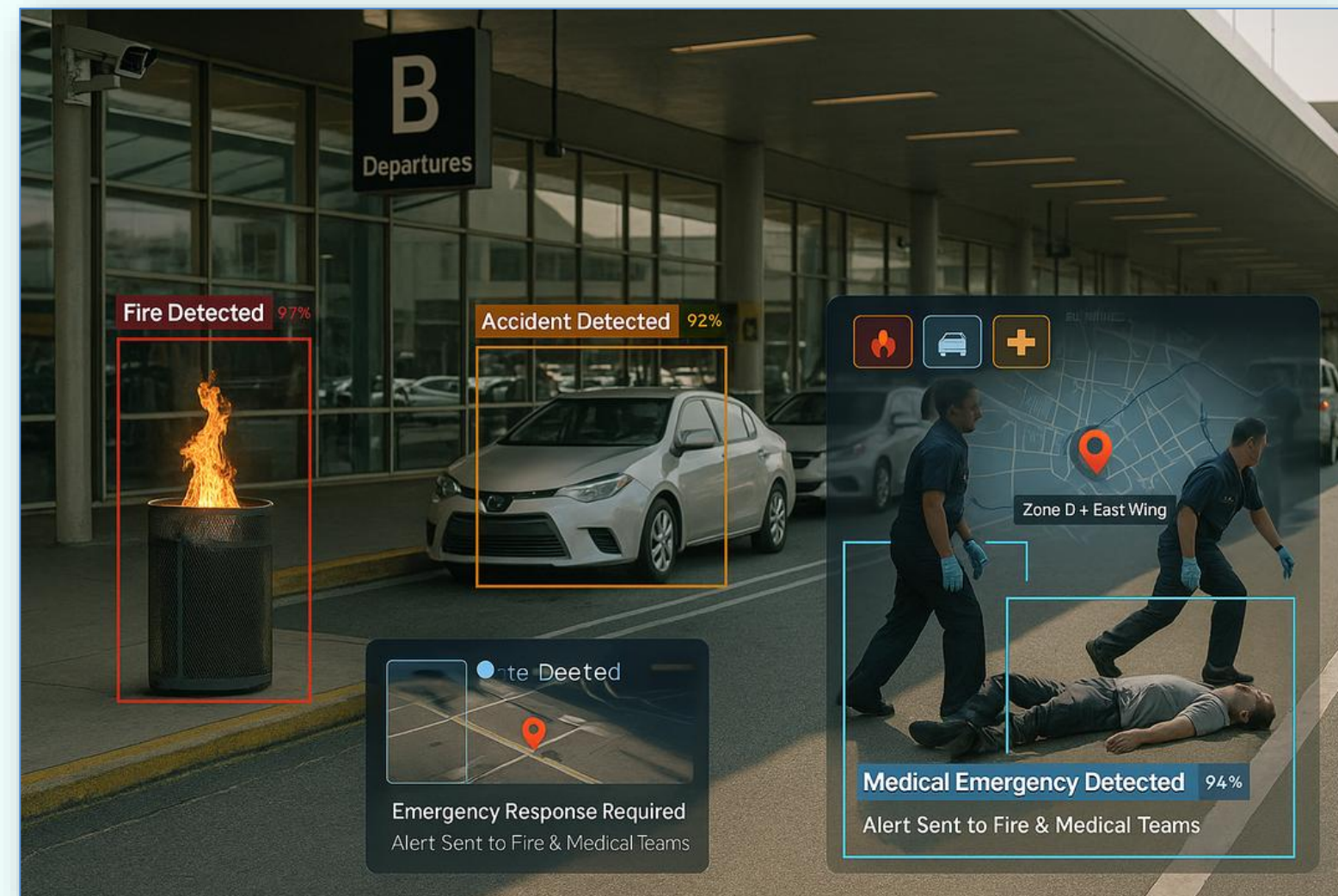
Offender Detection

Facial recognition compares individuals against watchlists in real time. Security teams receive instant alerts when matched offenders are detected.



Quick Assistance for Incidents

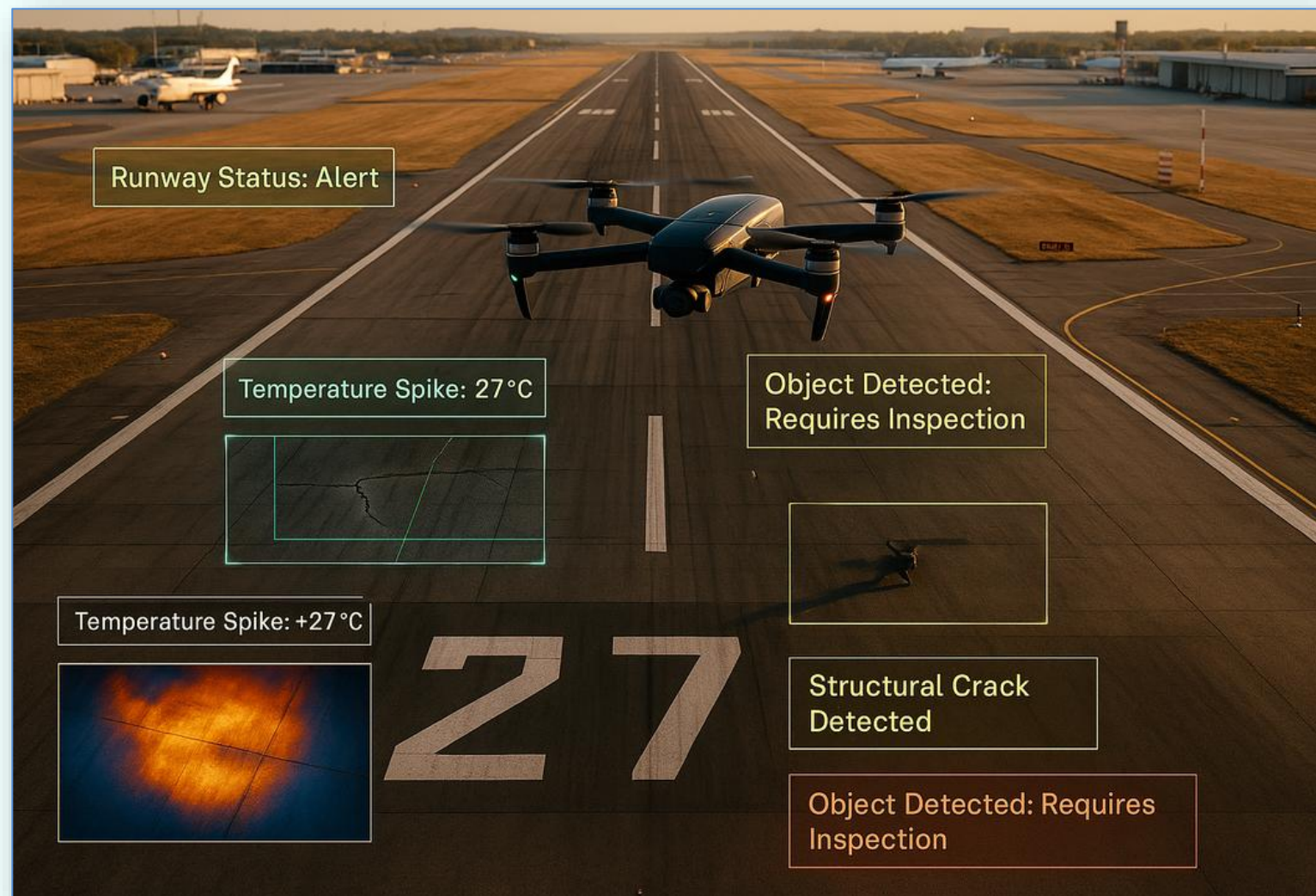
AI detects fires, accidents, or medical emergencies using video analysis. Integrated alerts and geospatial data ensure fast response and coordinated treatment.



Prisma AI Visual Solutions for Airports

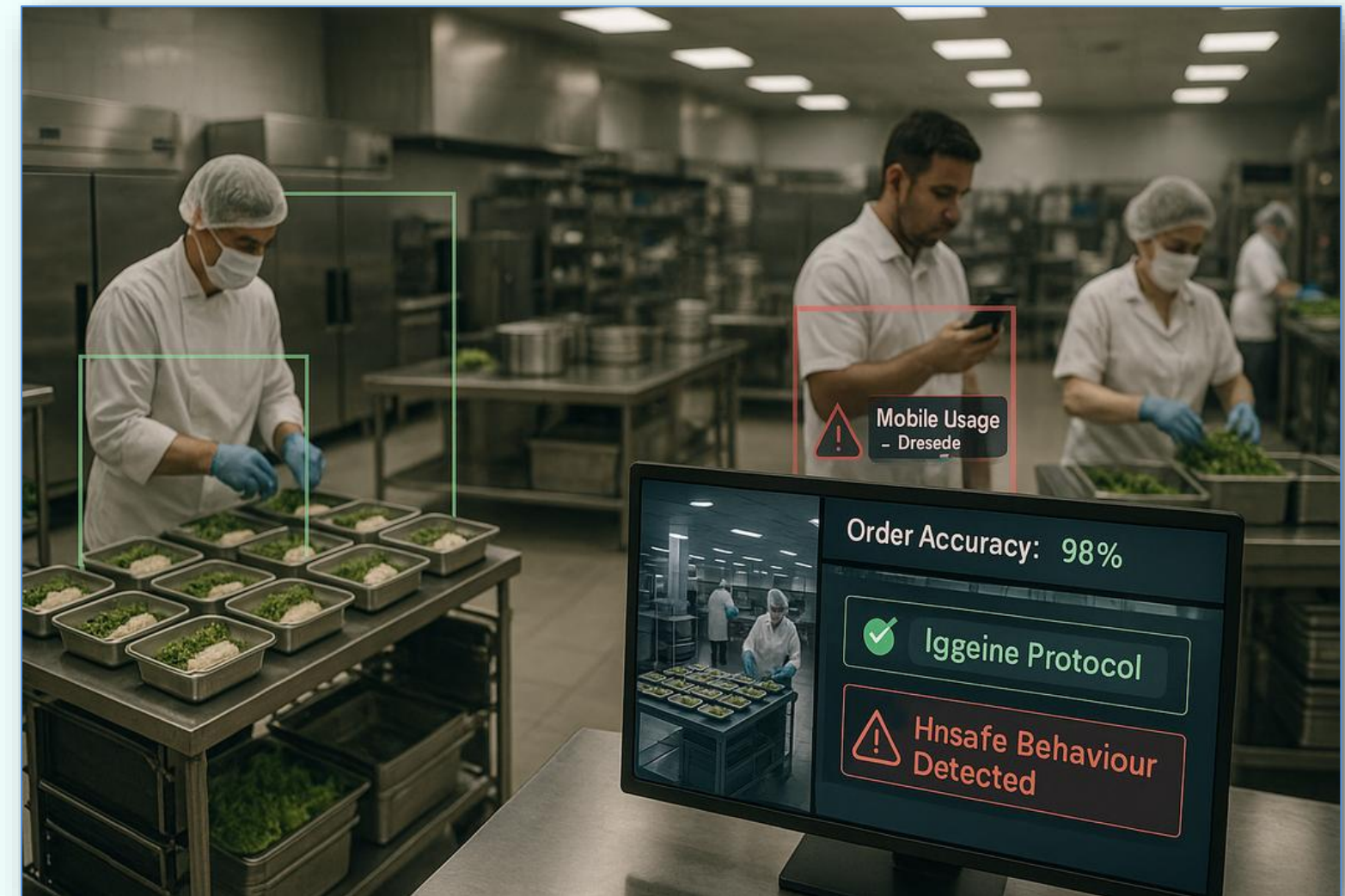
Runway Detection

Aerial imaging and AI detect cracks, threats, and temperature abnormalities. Real-time alerts support maintenance teams and ensure safety compliance.

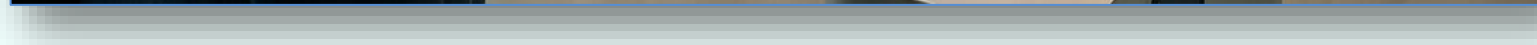


Airport Kitchen Monitoring

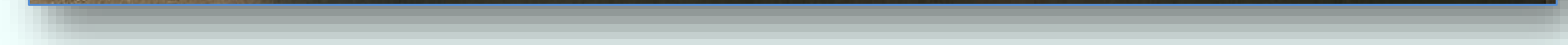
AI checks hygiene protocols, dish counts, and order accuracy. It detects unsafe behaviours such as improper handling or mobile usage.



Facial recognition verifies passenger identity and boarding details. This speeds up authentication and accelerates the boarding process.



Visual AI provides real-time visibility into parking availability across surface and underground facilities, helping drivers locate available spaces faster, reduce congestion, and improve the overall parking experience.



Prisma AI Visual Solutions for Airports

Trolley Management

Visual AI enables real-time monitoring of trolley availability and distribution, ensuring organised access for passengers, reducing wait times, and improving the overall terminal experience.



Warehouse Monitoring

Visual AI monitors cargo and staff activities in real time, detects abnormal behaviour, and sends immediate alerts to enable rapid action and improve warehouse security and operational efficiency.





Prisma AI Case Studies

Leading Airport in Southeast Asia – Kitchen Monitoring

Objective

Monitor kitchen activities to identify unhygienic practices and improper staff behaviour, helping maintain food safety and hygiene standards.

Challenges

- Staff not consistently wearing hairnets and gloves
- Unhygienic behaviour within kitchen premises
- Unauthorised opening of packed food containers
- Limited ability to continuously monitor kitchen activities

Prisma AI's Solution

Gryphos® Visual AI monitors kitchen activities in real time using computer vision and deep pose learning to identify predefined hygiene violations and suspicious behaviour.

AI Detection Capabilities

- Improper food handling
- Opening of packed containers
- Removal of objects from clothing or pockets
- Removing lint or hair from clothing
- Other predefined abnormal behaviour



Real-Time Response

Detected violations → Instant Alert → Authority Intervention

Largest Airport in Malaysia – Unattended Baggage Detection & Access Control

Objective

Improve the existing airport gate system using Visual AI to enable reliable and seamless passenger authentication.

Challenges

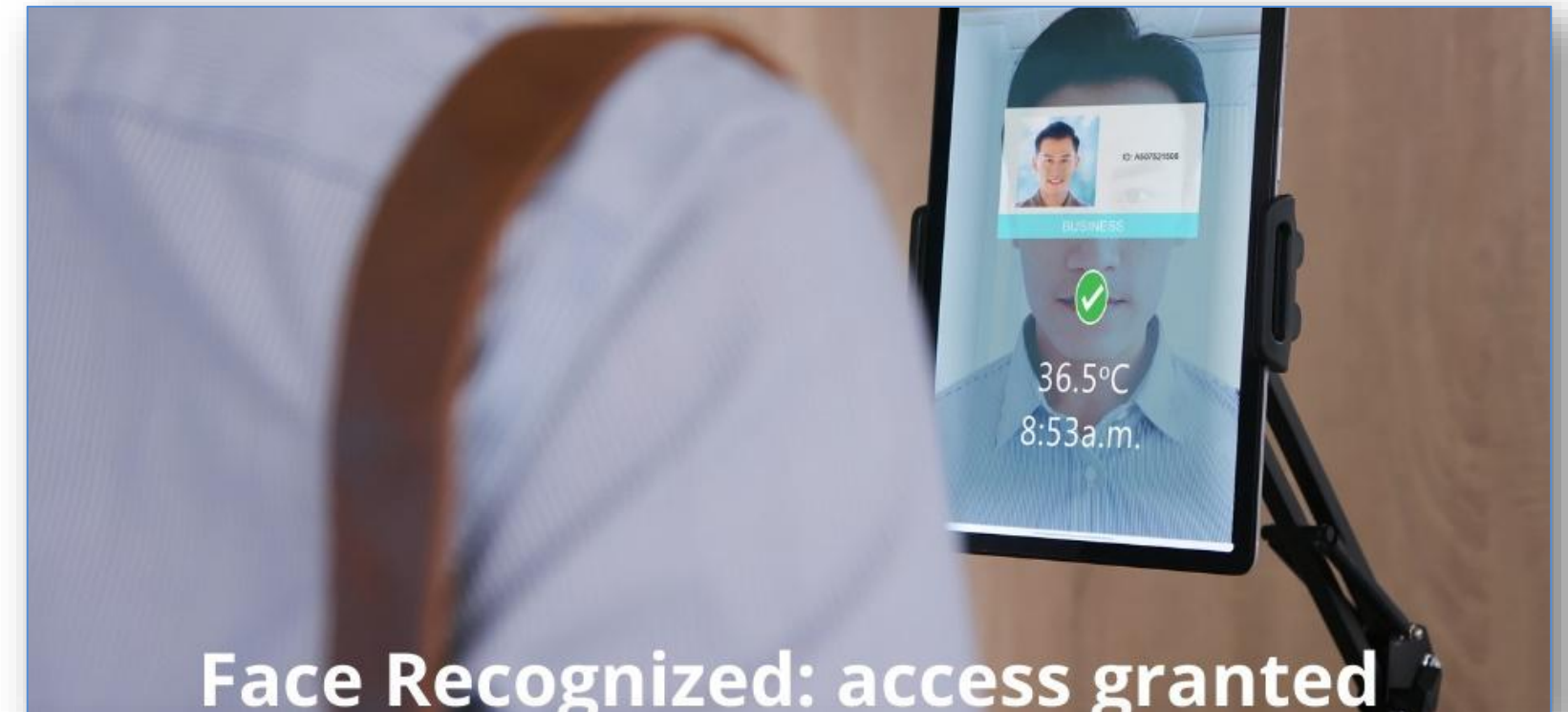
- The existing system rejected a high percentage of valid passengers
- The system relied on the integration of multiple existing software providers
- Need for more accurate and reliable gate authentication

Prisma AI's Solution

Prisma AI implemented Gryphos® Visual AI to enable real-time passenger verification at airport gates. The Passenger Recognition System (PRS) matched passenger facial IDs against a live passenger database and automatically authorised verified passengers to pass through the automated barricades.

Key Capabilities

- Real-time passenger verification
- Automated gate access
- Integration with existing airport systems
- Reduced false rejections
- Faster passenger processing
- Seamless passenger movement



Multiple Airports in India – Passenger Assistance Under “Desk of Goodness”

Objective

Identify passengers who may require assistance and enable airport staff to provide timely, personalised support.

Challenges

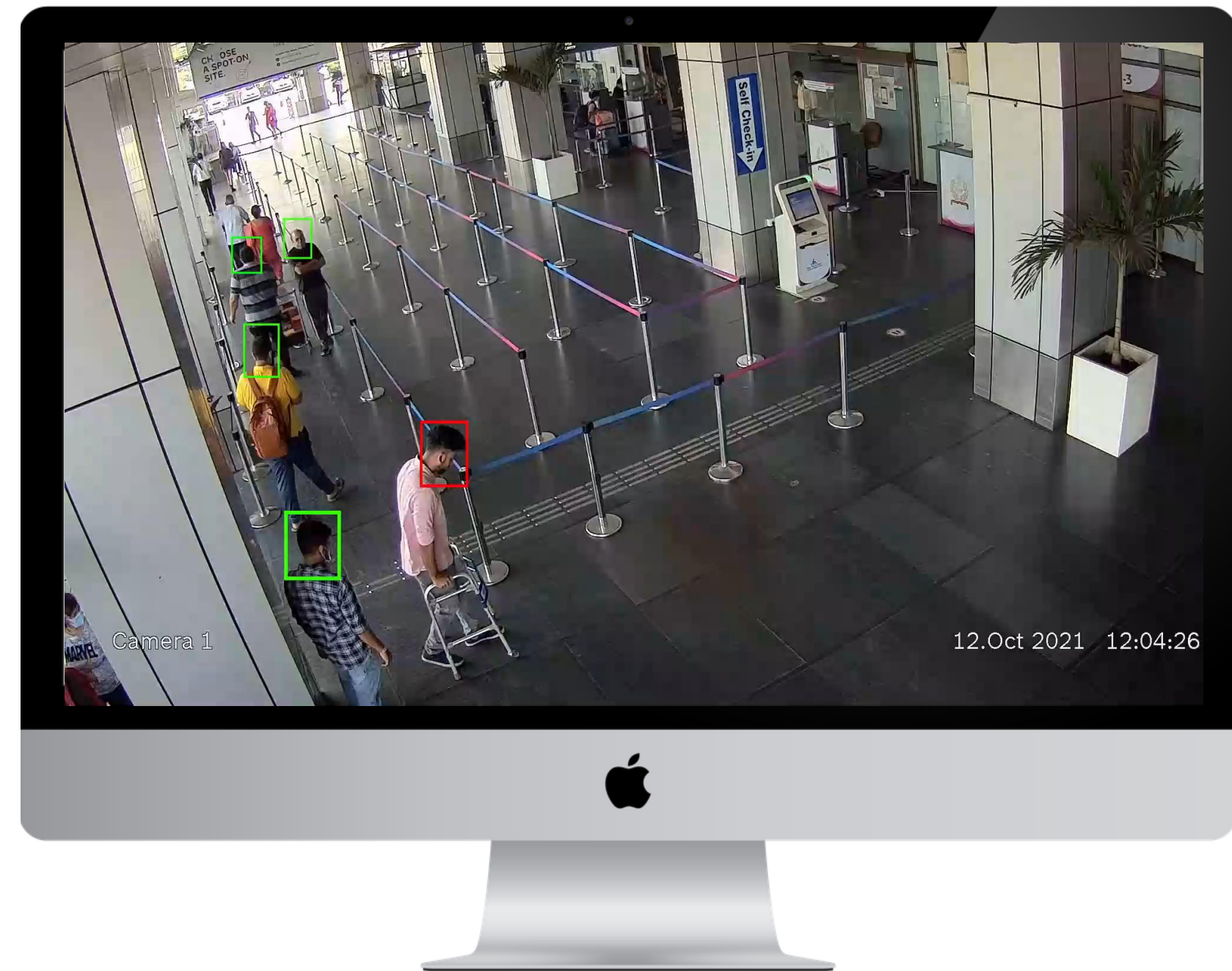
- No real-time identification of passengers needing assistance
- Difficulty identifying elderly, pregnant, or mobility-impaired passengers
- Delayed identification of passengers requiring urgent medical assistance
- Limited staff visibility for timely intervention

Prisma AI's Solution

Prisma AI uses Visual AI and real-time body and behavioural analysis to identify passengers who may require assistance. When a potential need is detected, the system generates an assistance ticket and alerts the concerned staff for timely intervention.

AI Detection Capabilities

- Wheelchair and mobility assistance
- Pregnant passengers
- Parents with young children or infants
- Elderly passengers
- Visible signs of health-related distress
- Passengers requiring urgent assistance



Real-Time Assistance

Detection → Assistance Ticket → Staff Alert → Passenger Support



Prisma AI Transforming Airport Experiences

How Prisma AI Transforms Airport Experience

- Prisma AI turns any camera into an intelligent device, enabling real-time surveillance across airport areas.
- It tracks and identifies lost luggage using video archives for quick recovery.
- Facial recognition boarding allows passengers to use their faces as boarding passes.
- AI detects unattended bags or purses and alerts security immediately.
- The “Desk of Goodness” helps elderly, infants, and wheelchair-assist passengers.
- It also detects falls or unusual behaviour and alerts staff for instant support.
- Prisma AI Solutions for Smarter and Safer Airports



THANK YOU



Prisma AI holds four ISO Certifications for AI Governance, Security, Privacy and Quality
ISO 42001:2023, ISO 27001:2022, ISO 27701:2019 & ISO 9001:2015



125+

Global Deployments

INDIA - MUMBAI

Prisma Global Limited
5th floor, STAR Hub 2, Sahar Airport Road,
Andheri East, Mumbai, Maharashtra
400059

INDIA - BENGALURU

Prisma Global Limited
08-112, Block D3, Manyata Tech Park Rd,
Thannisandra, Bengaluru 560045

425000+

Cameras Running
Gryphos

06

Continents Covered

SINGAPORE

Prisma AI Corporation Pte. Ltd.
10 Ubi Crescent #04-25 Ubi TechPark
(Lobby B) Singapore 408564

UNITED KINGDOM

Prisma AI Limited
134 Buckingham Palace Road, London,
England, SW1W 9SA

\$260M+

Total Contracts Till
Date

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