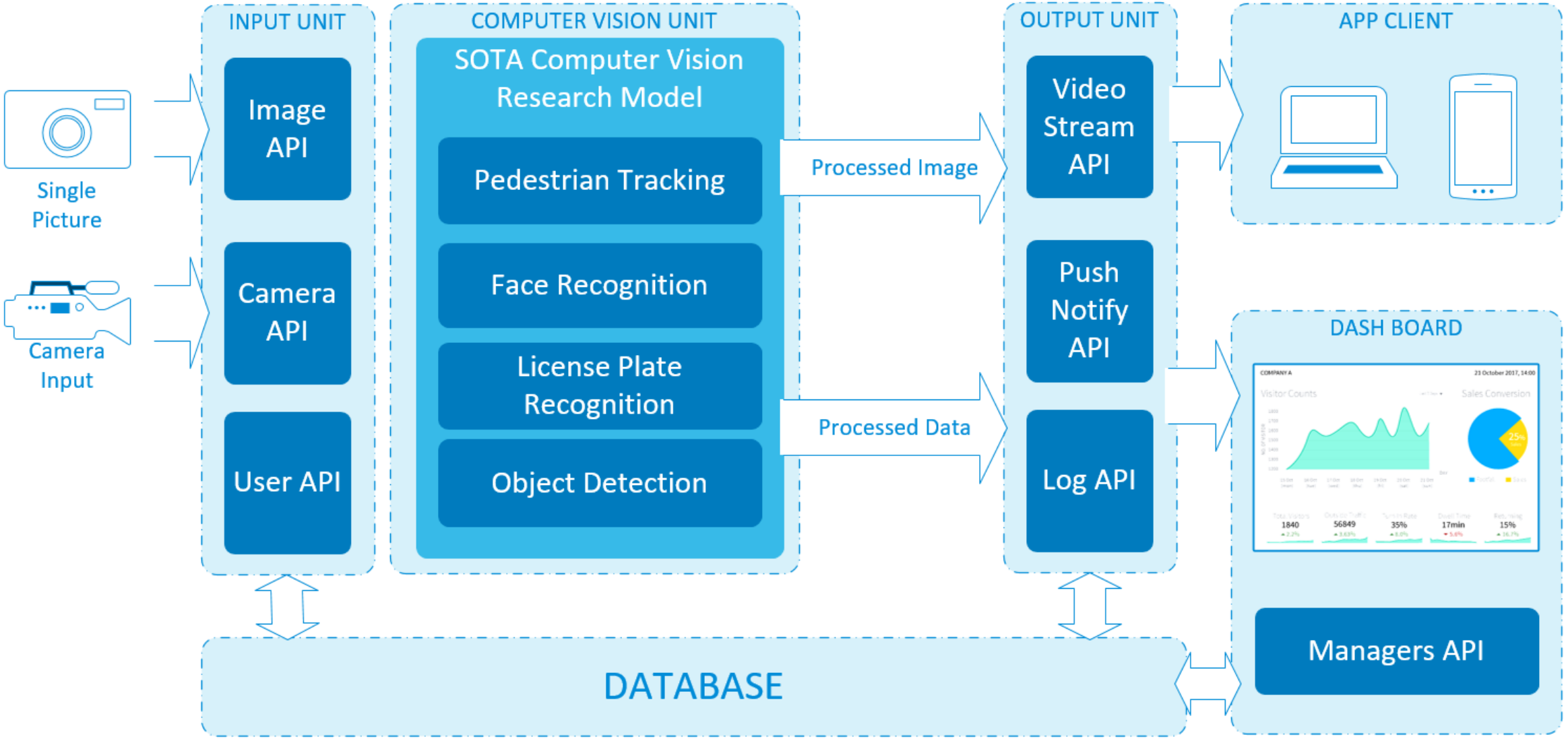
COMPUTER VISION RESEARCHS & APPLICATIONS

System Architecture



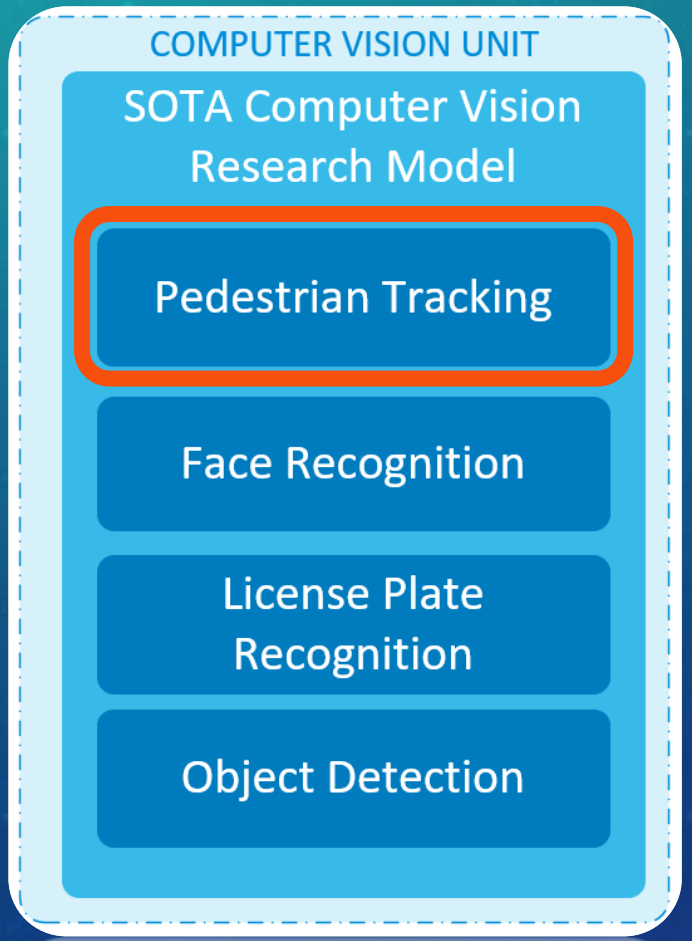
COMPUTER VISION UNIT

- Main Processing Unit
- Using State of the Art Deep Learning Research
- 4 Core Technology Module:
  - Pedestrian Tracking
  - Face Recognition
  - License Plate Recognition
  - Object Detection

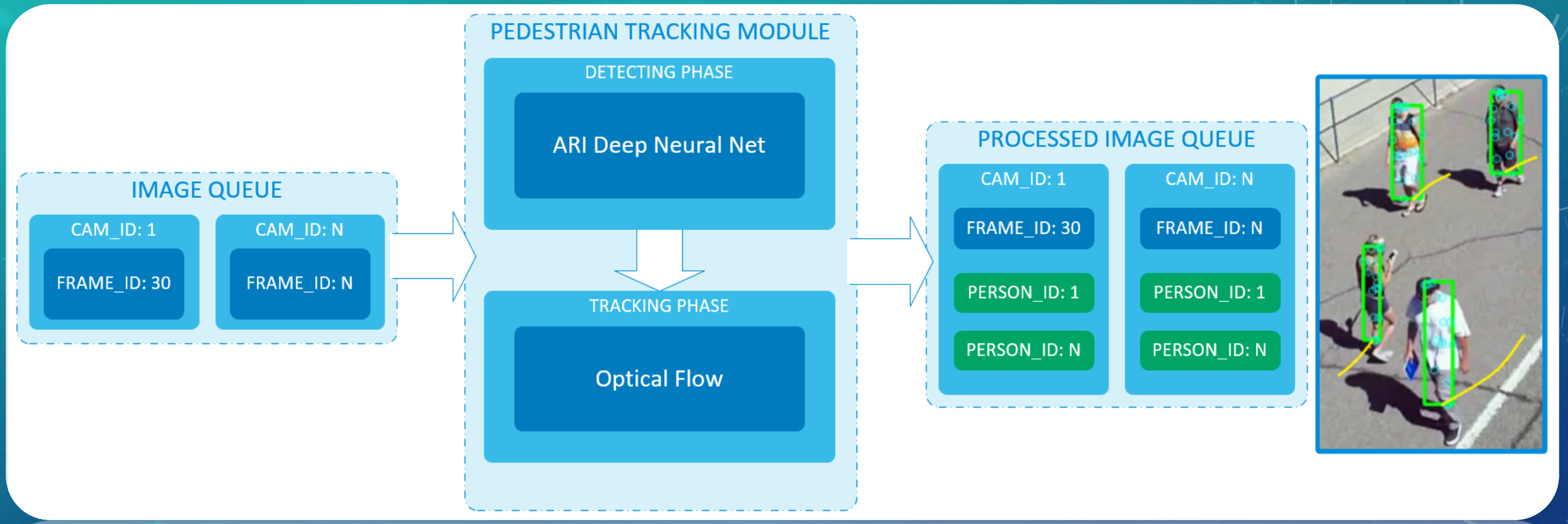
AI Technology

AI-Robotics-IoT&Blockchain

MODULE 1
PEDESTRIAN TRACKING

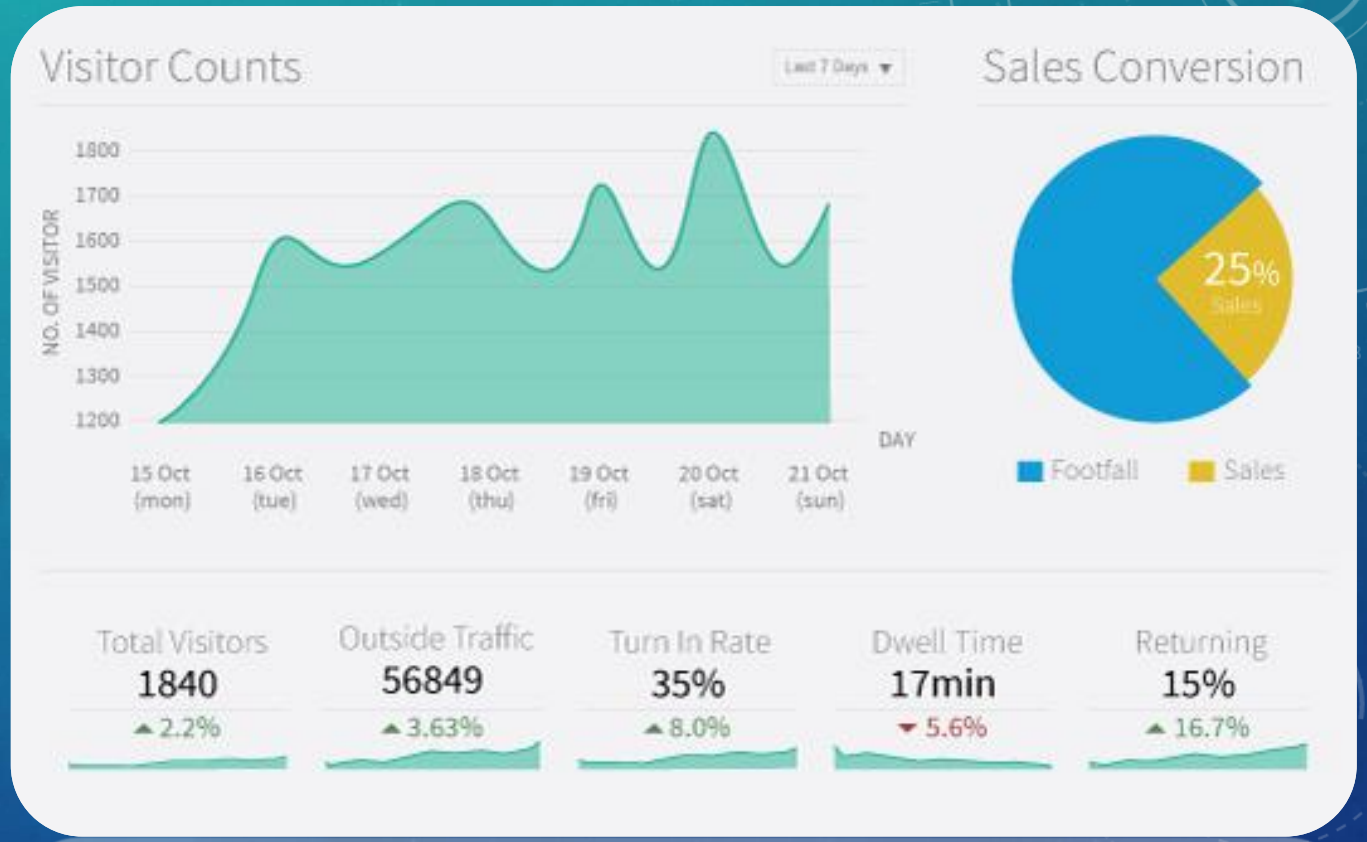


Pedestrian Tracking Module



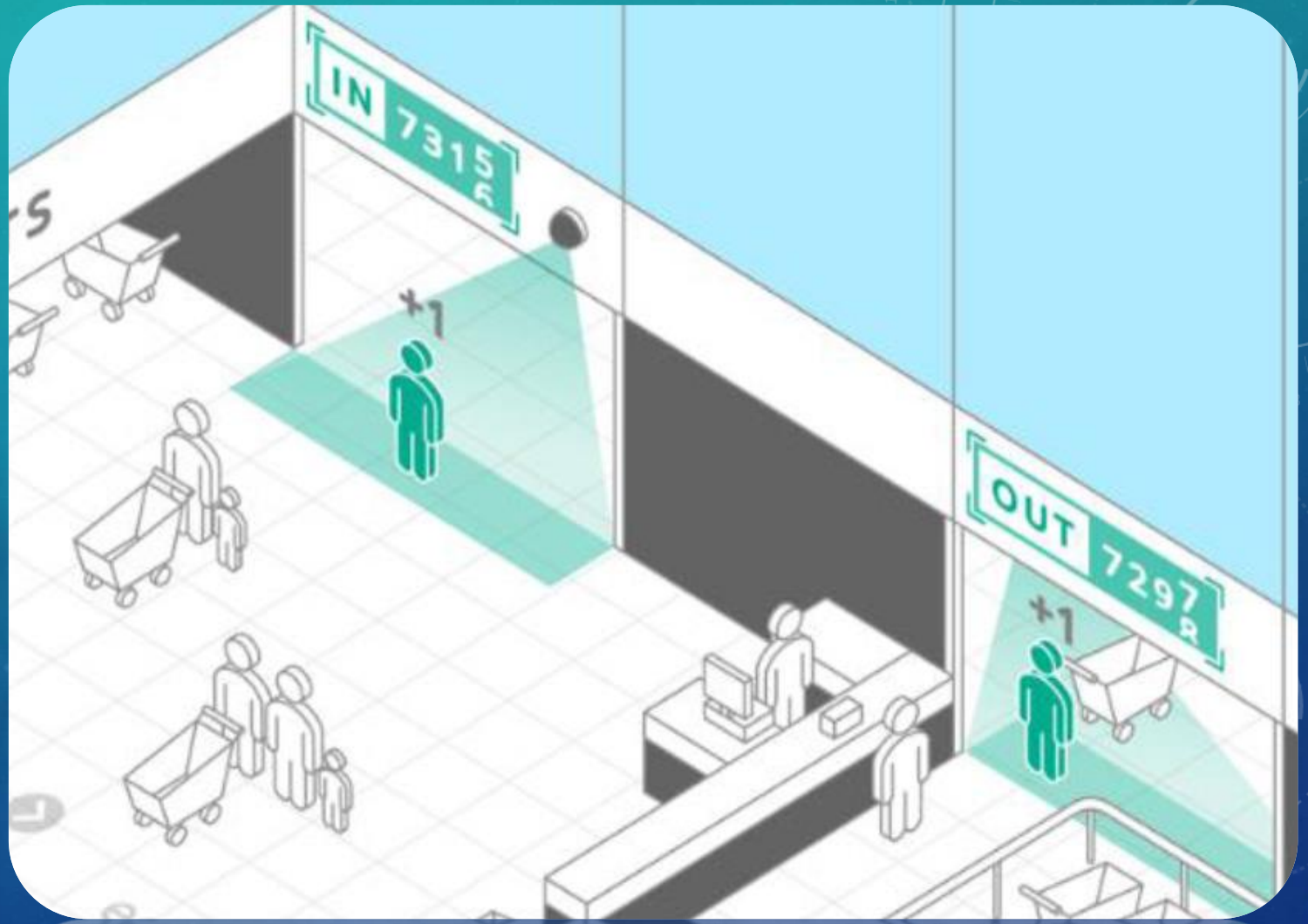
DASH BOARD

- User Management
- People Couting Report
- Alarm Push Notification



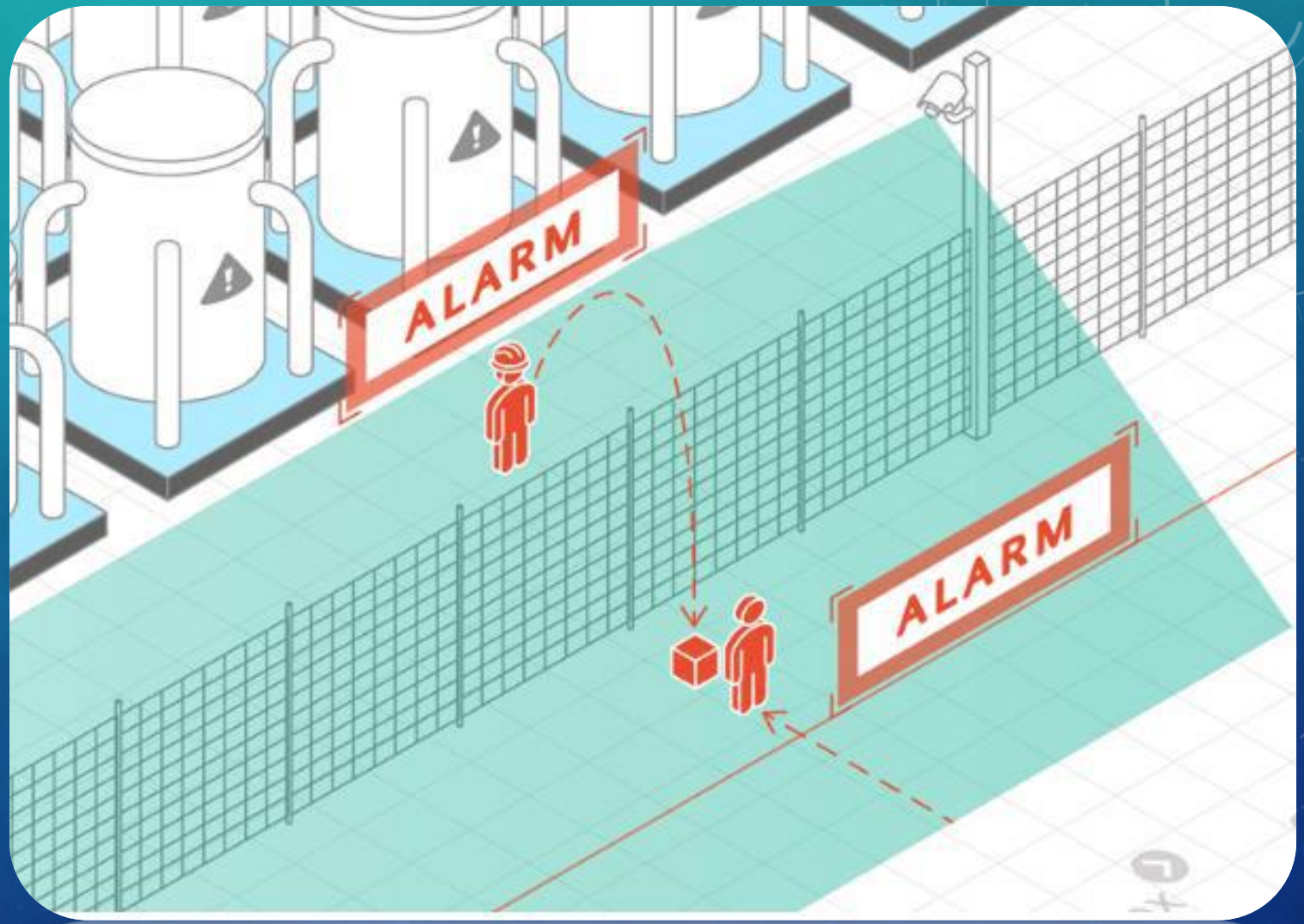
PEOPLE COUNTING

- Total in – out people
- Daily - Monthly Report
- Peak Hour Analytics



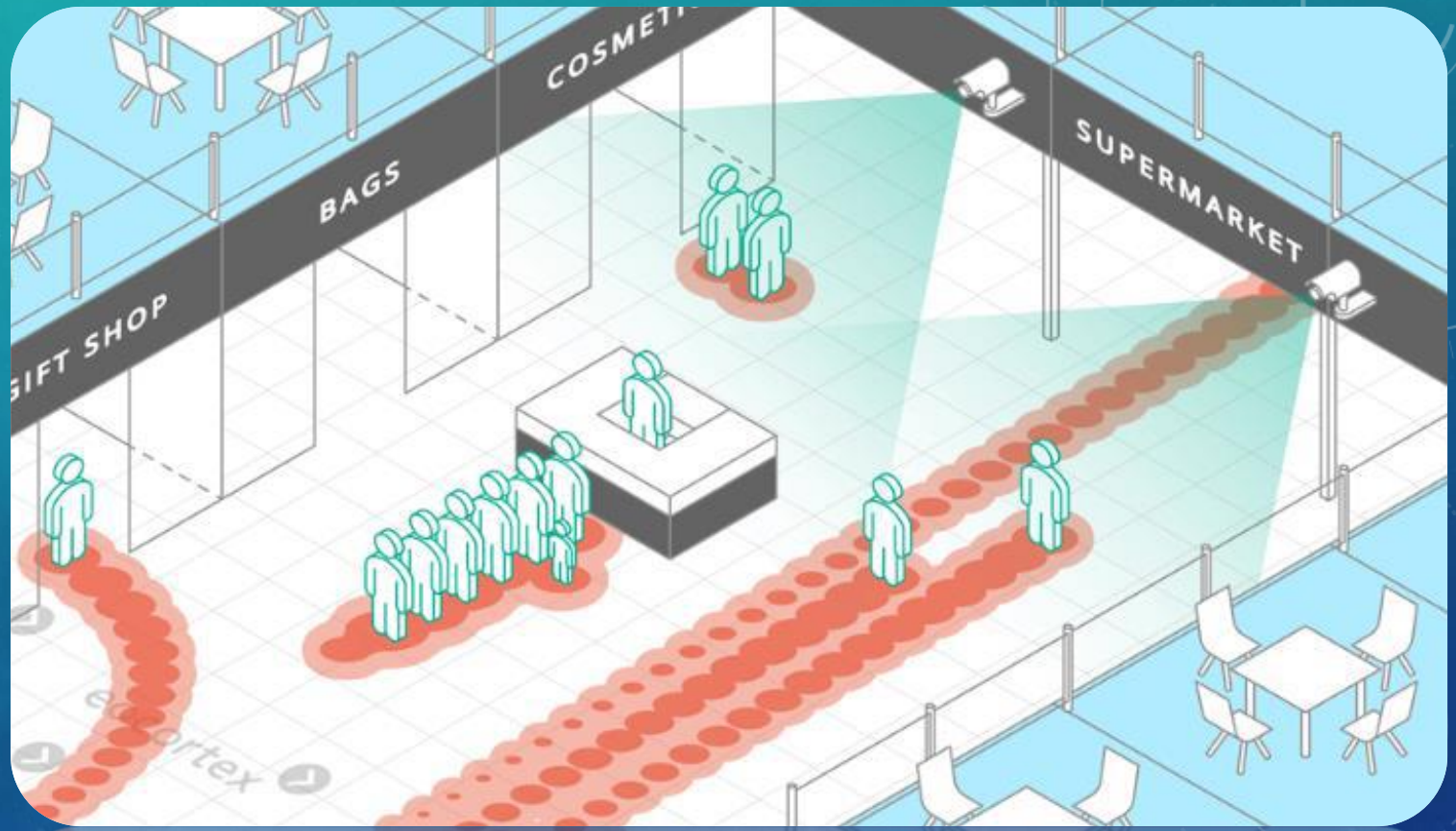
ALARM

- Restricted Zone Alarm
- Line Crossing Alarm
- Push Alarm to Phone/Laptop
- Alarm Time Setting



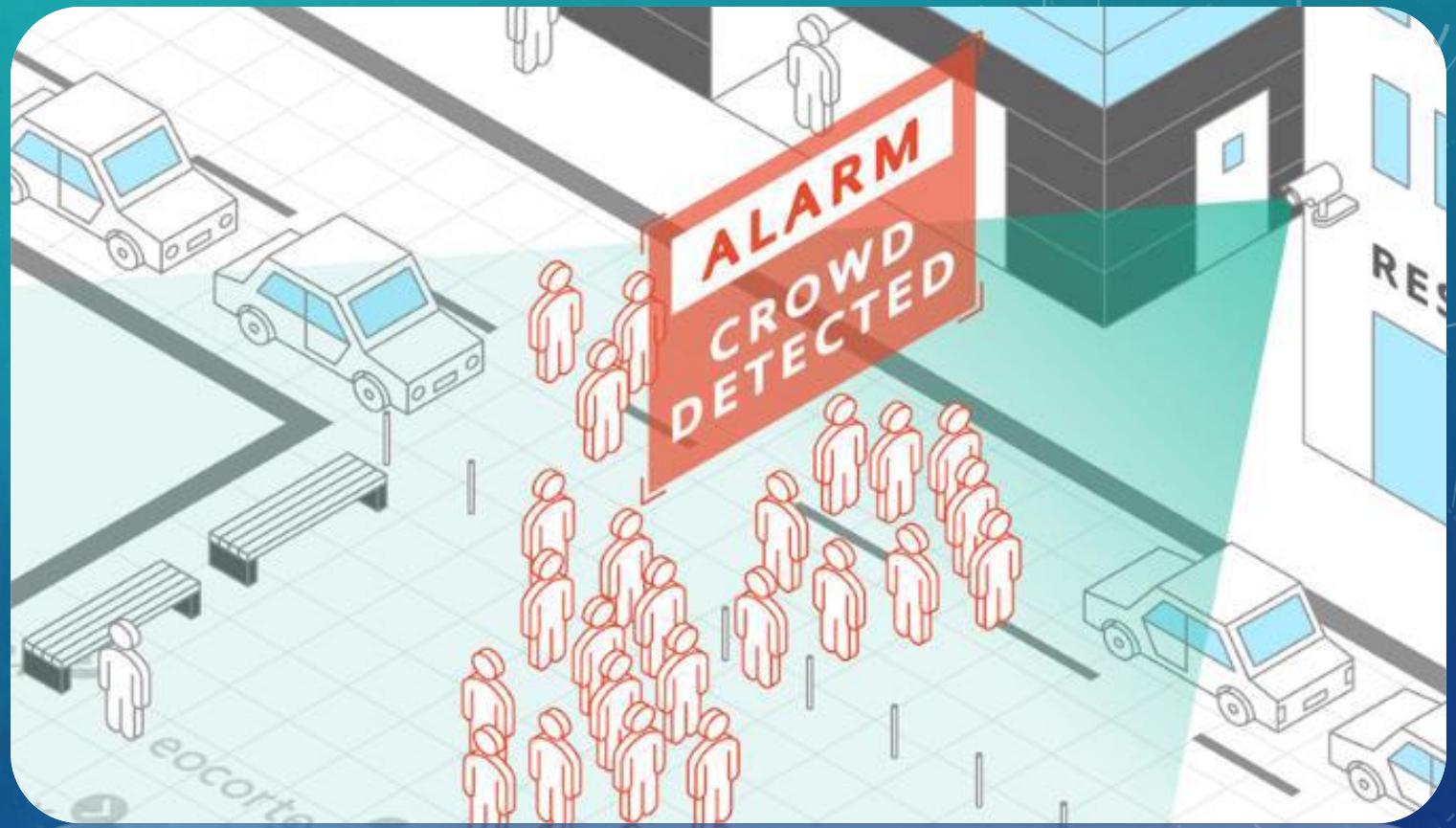
HEAT MAP

- Real-time Customer Tracking
- Optimize Popular Areas
- Improve Store Design



CROWD DETECTION

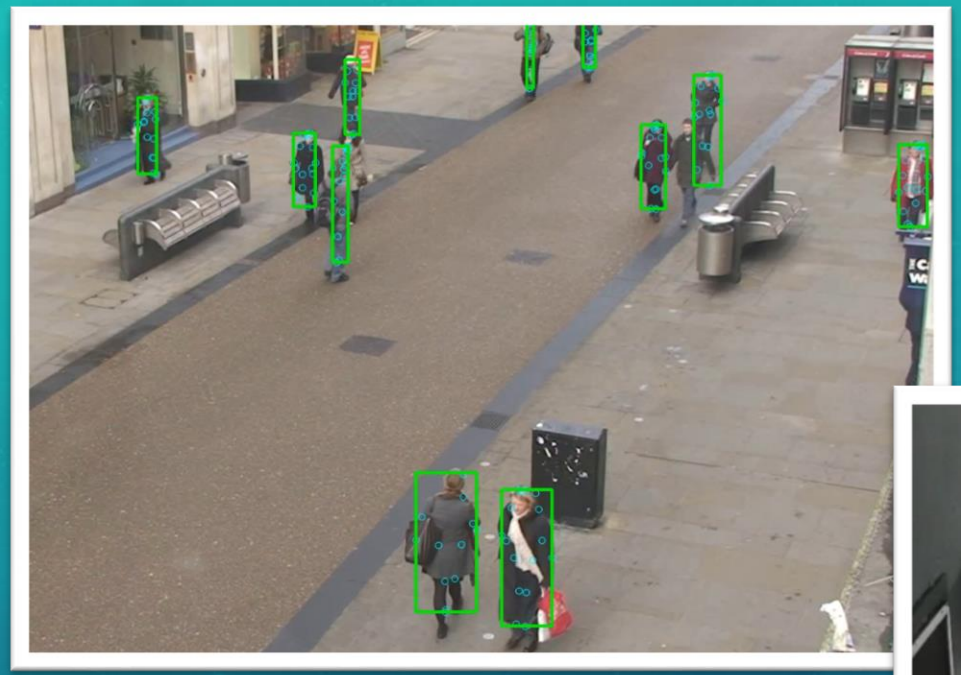
- Trigger Alarm to Phone/Laptop
- Improve Public Safety
- Camera Supervisor not needed

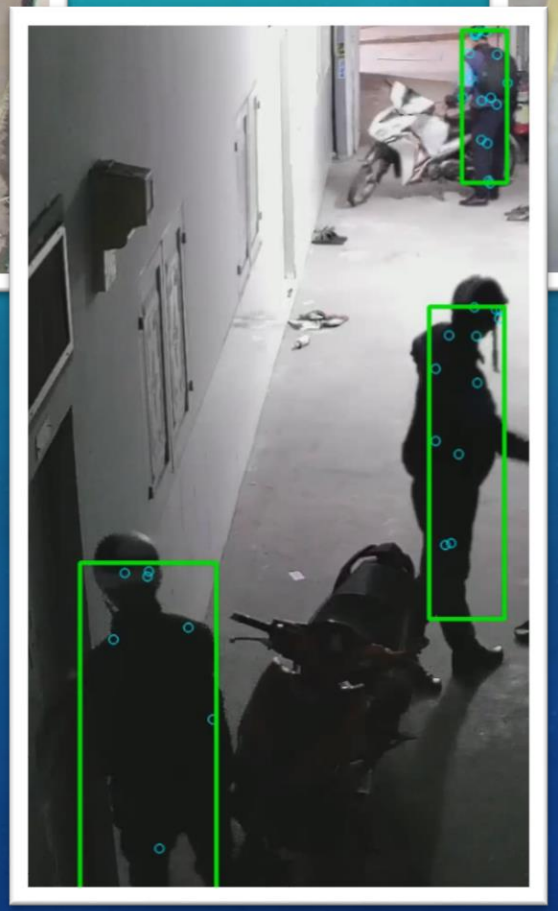


STAFF ABSENT

- Trigger Alarm to Phone/Laptop

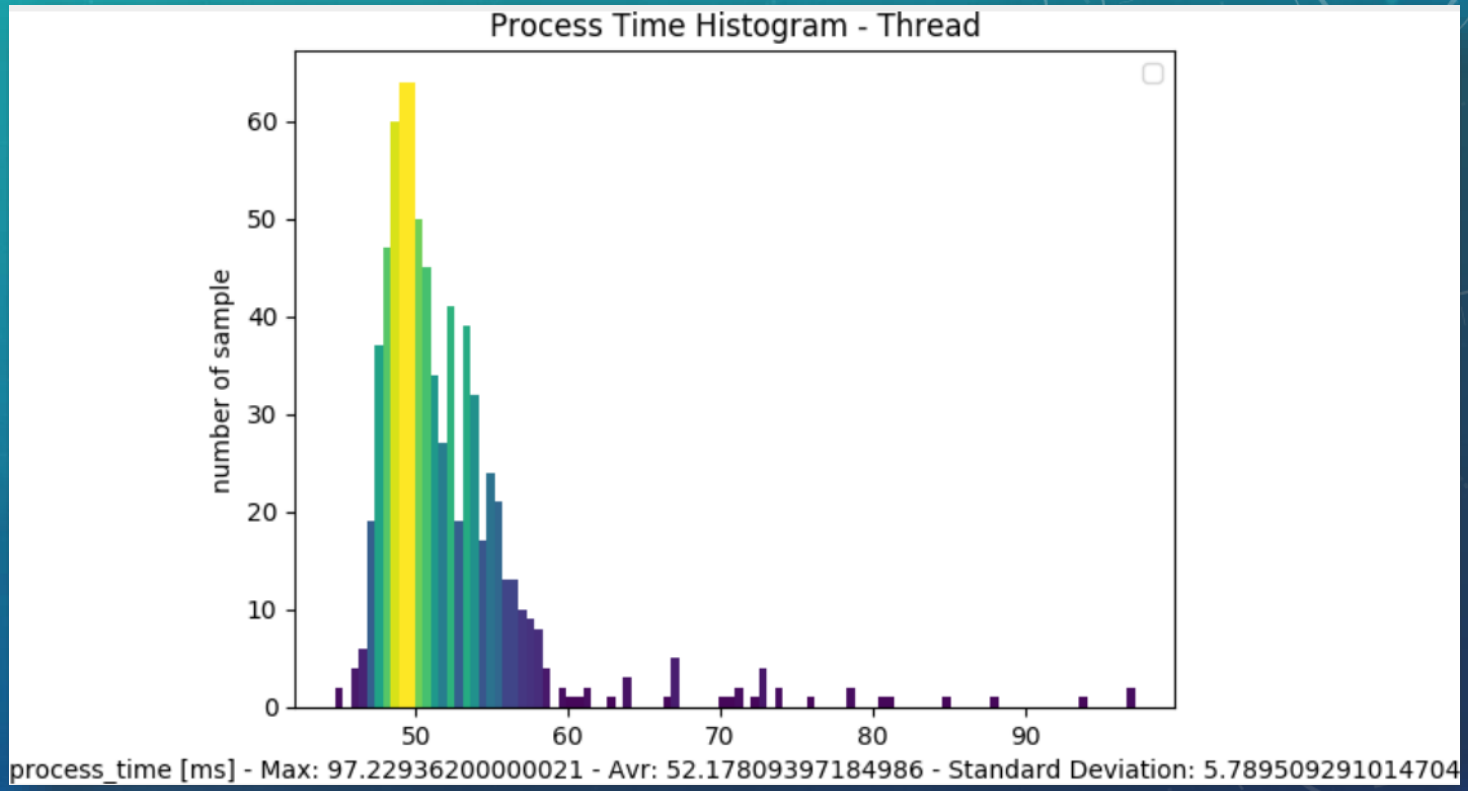
Result & Benchmark





RESULT & BENCHMARK

- Single Video People Detection
- Intel Core I7 Processor
- 8GB RAM
- No GPU Needed
- Ideal Conditions (No other heavy load)



AI Technology

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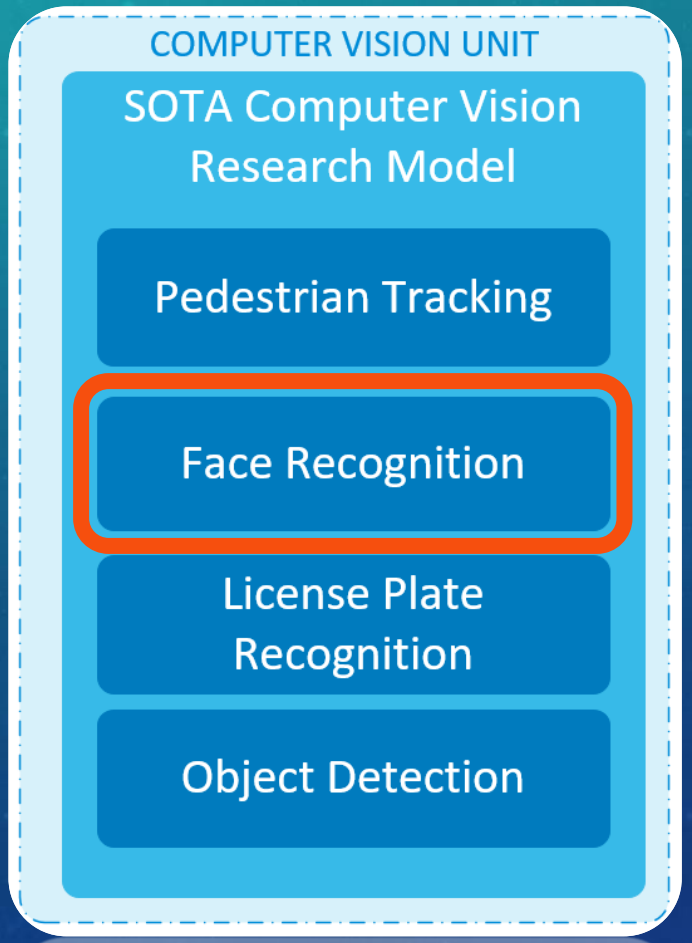
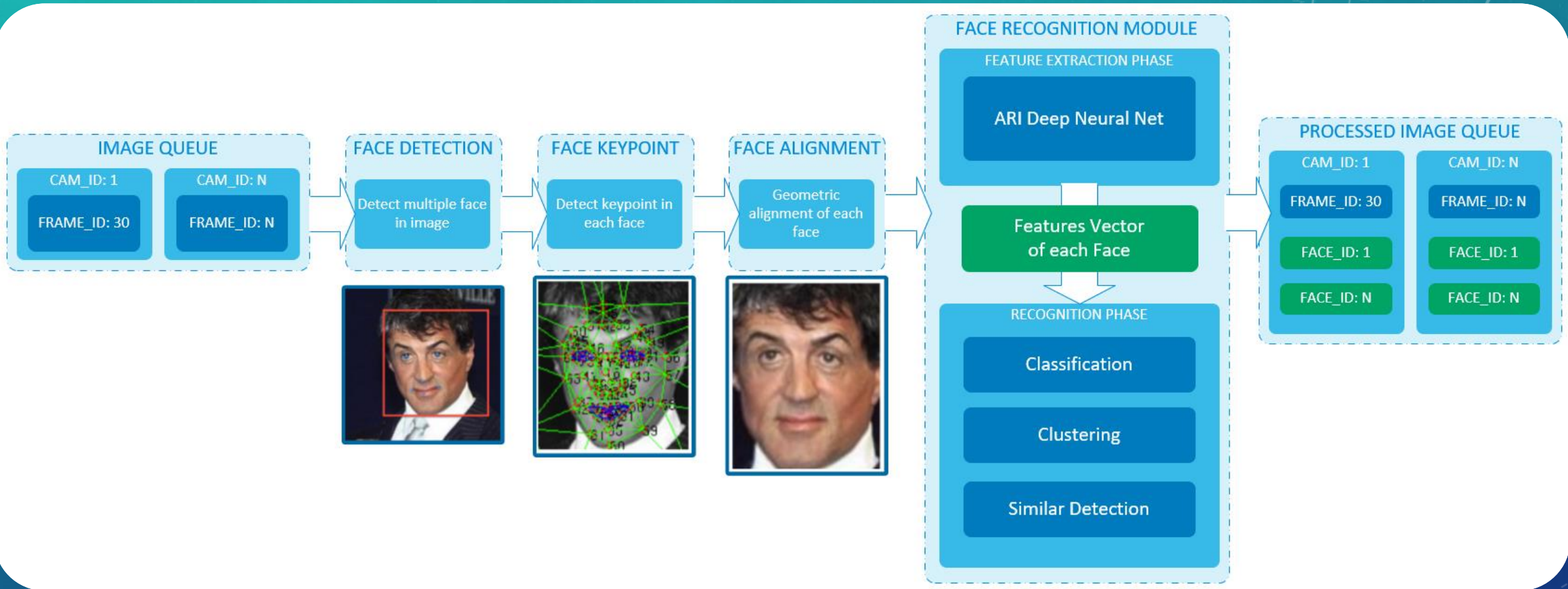
MODULE 2
FACE RECOGNITION



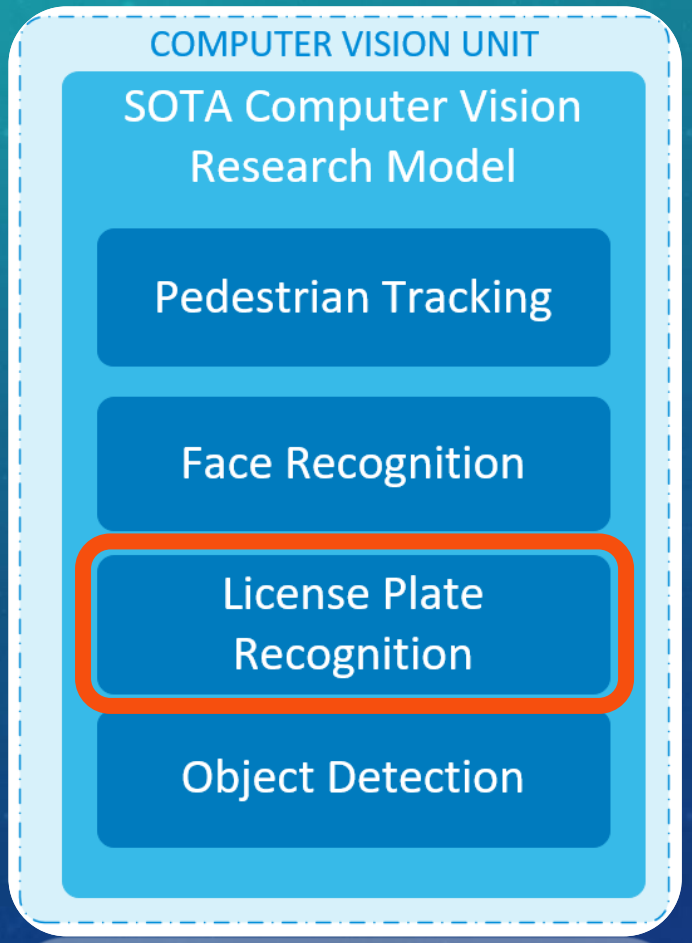
Face Recognition Module



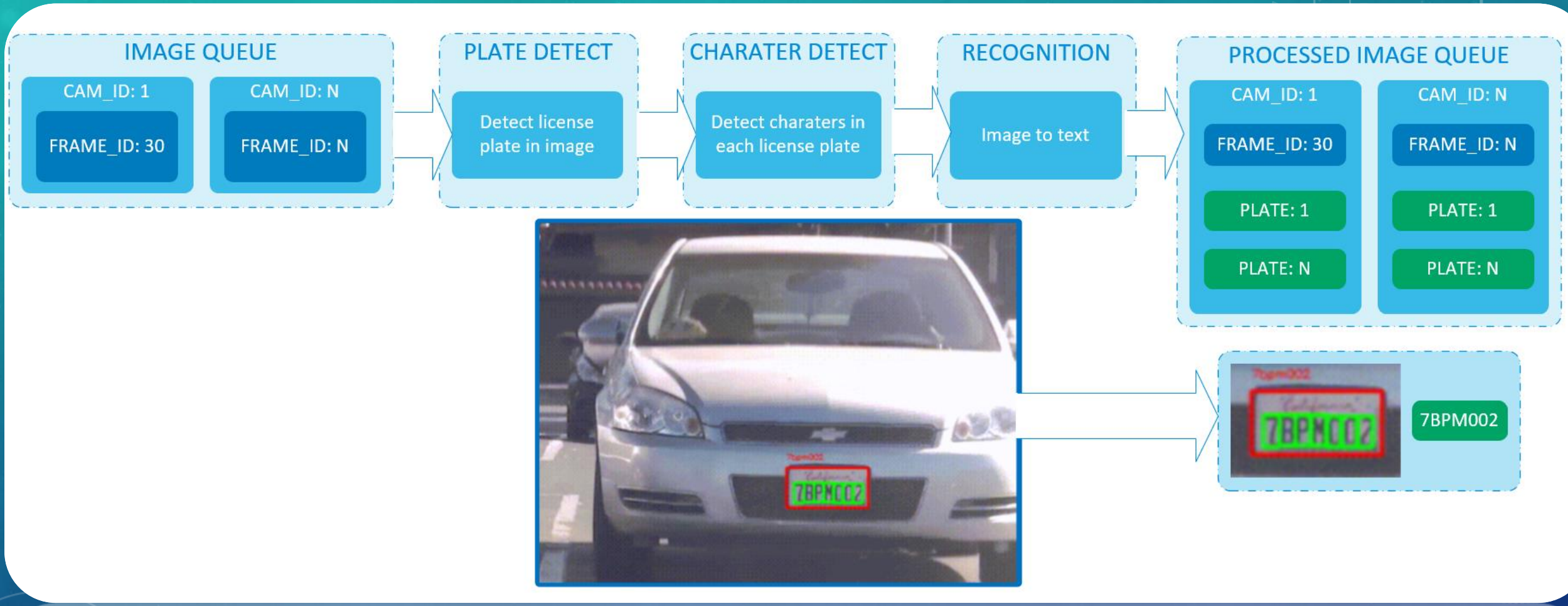
Technology

AI-Robotics-IoT&Blockchain

MODULE 3
LICENSE PLATE RECOGNITION



License Plate Recognition Module



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