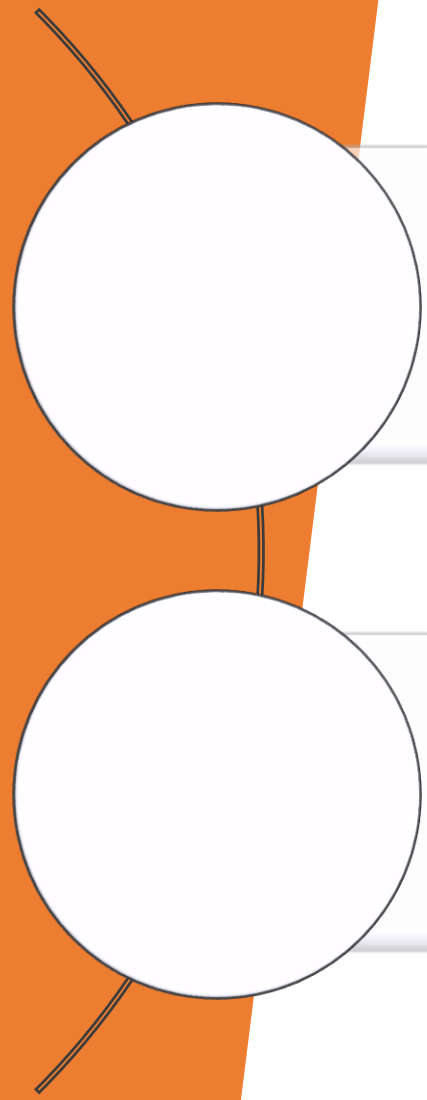
Video Analytic Technologies for the BPO Surveillance Applications

Report: C Wang

21th Nov. 2019



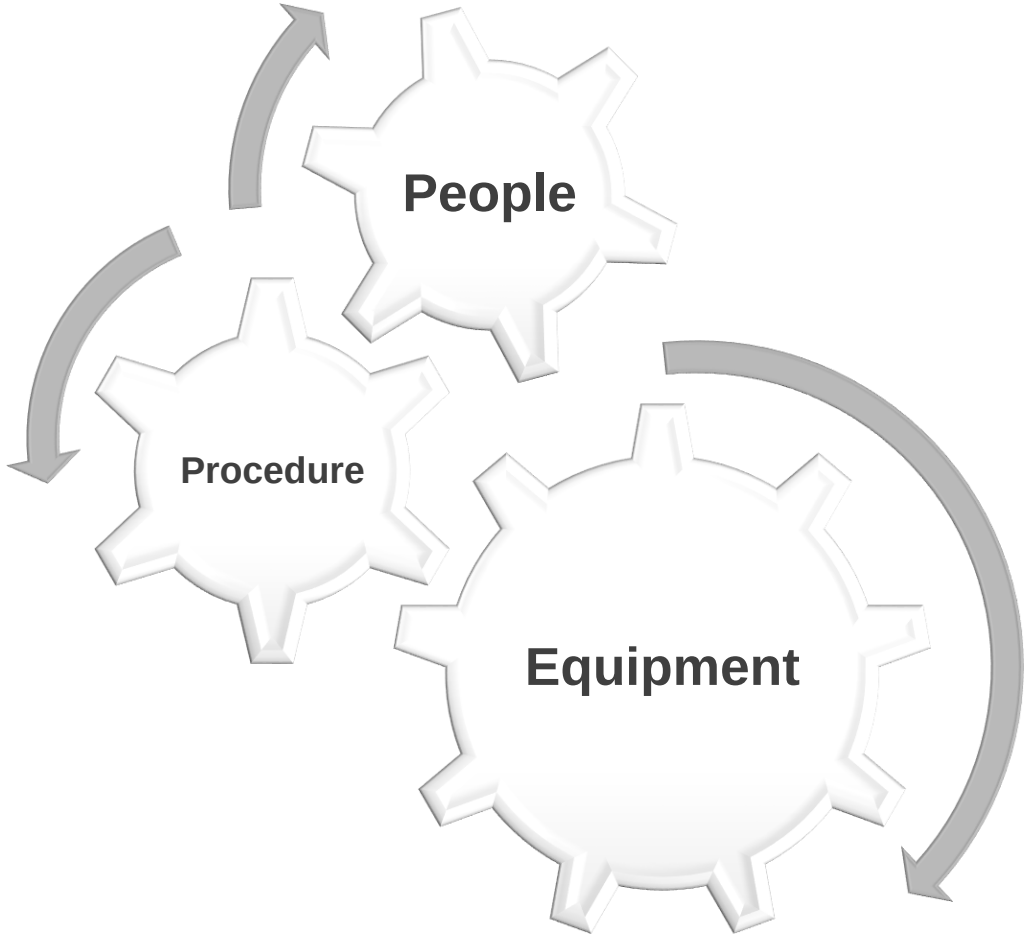
Understand video analytics in a surveillance system

Video analytic technology briefing and case studies

Understand the role of Video Analytics in a Surveillance System

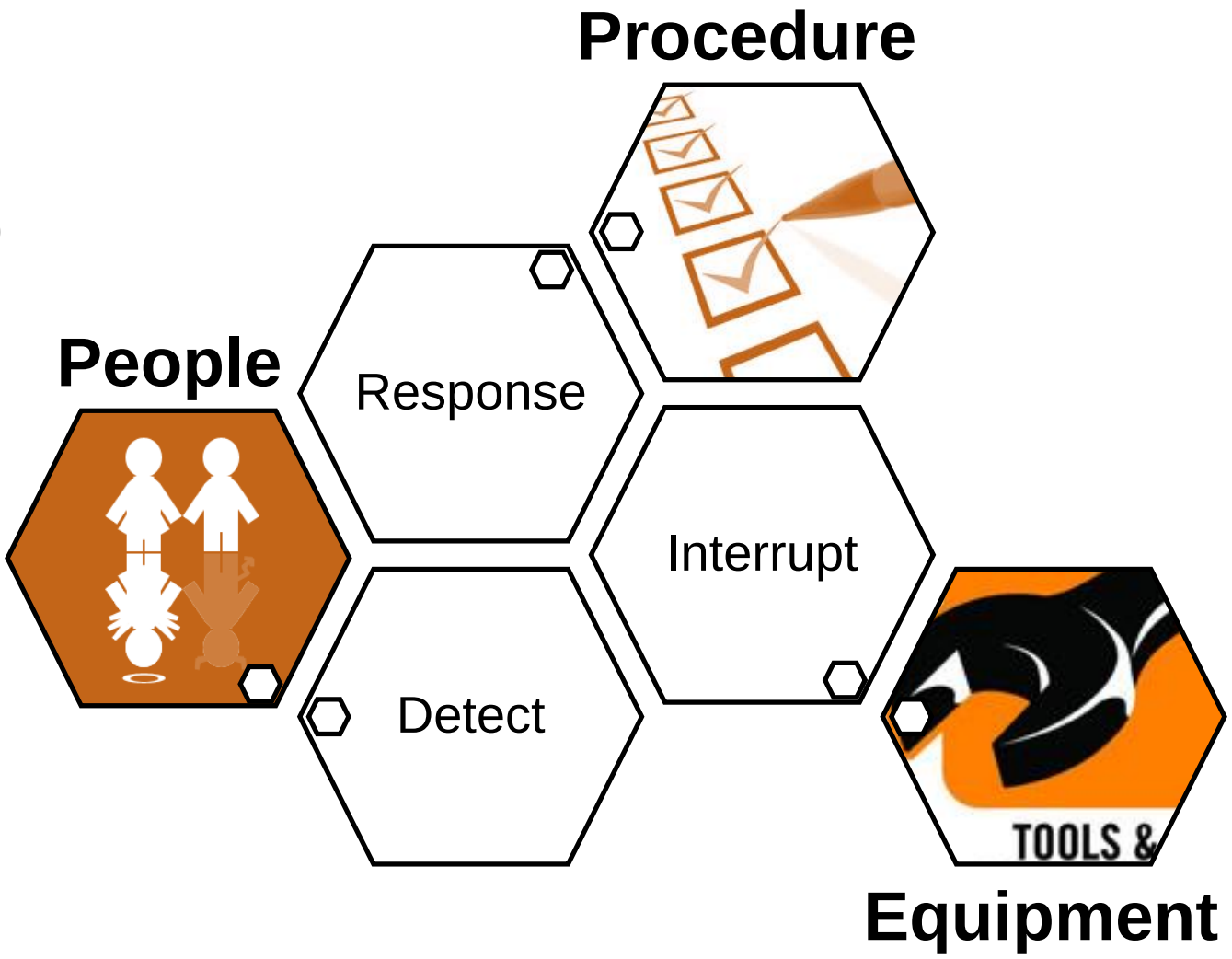
Security Issues of BPO Industry

- Employee background checking
- Fraud
- Overspending
- Facility sabotage
- Facility incident prevention
- Facility incidence response
- Facility equipment maintenance



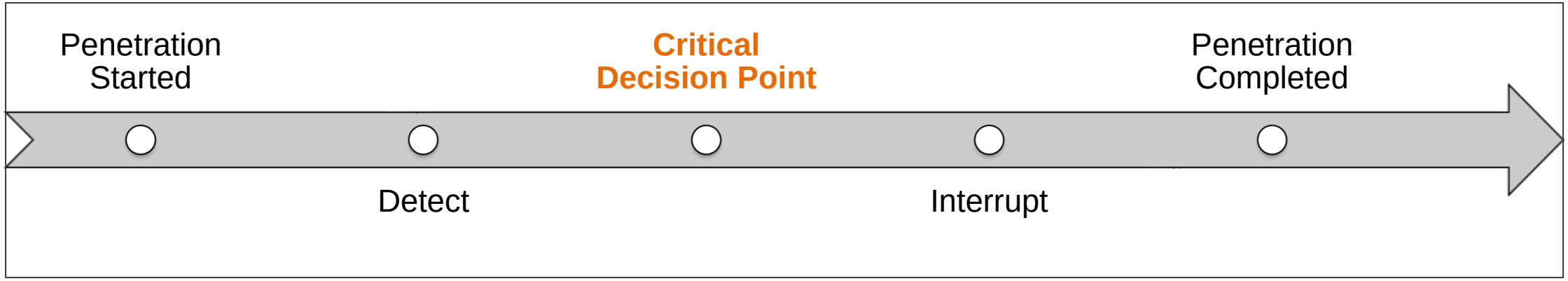
Definitions of Physical Security & Prevention System

- **People, Equipment** and **Procedure** three main components of physical security & prevention system.
- Basic functions of security system is to **detect**, **response** and **interrupt**.

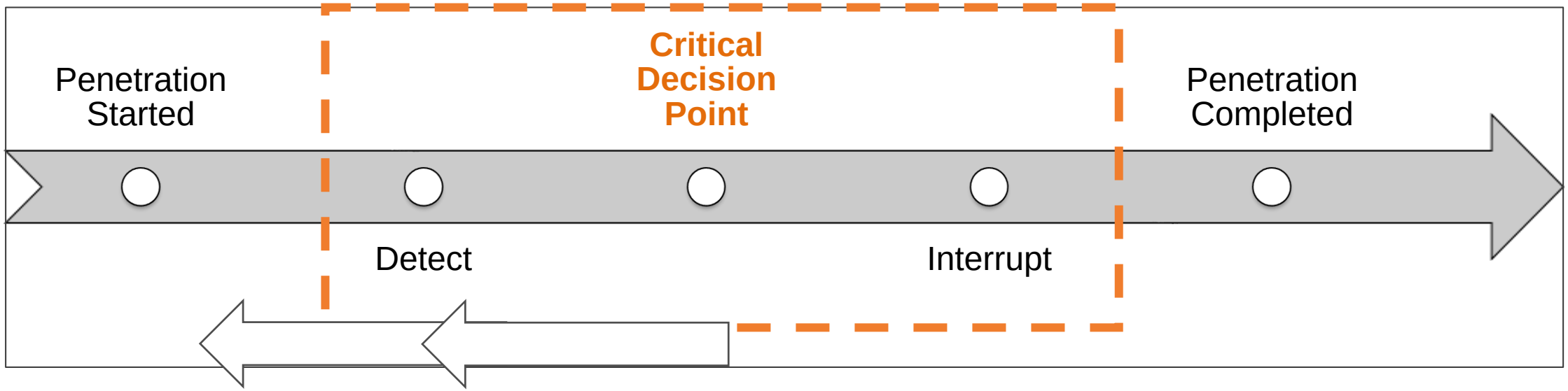


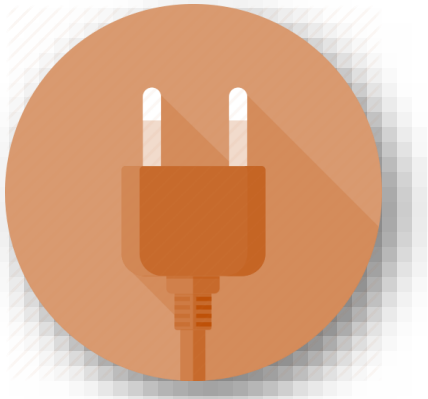
Managing Critical Decision Point

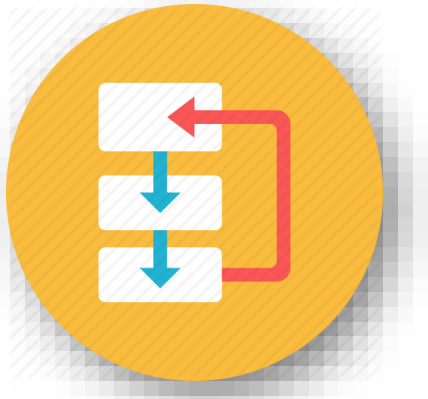
Due to the unknown of penetration starting point, performances and times of **Detection** and **Interruption** are keys to improve the Physical Security & Prevention System

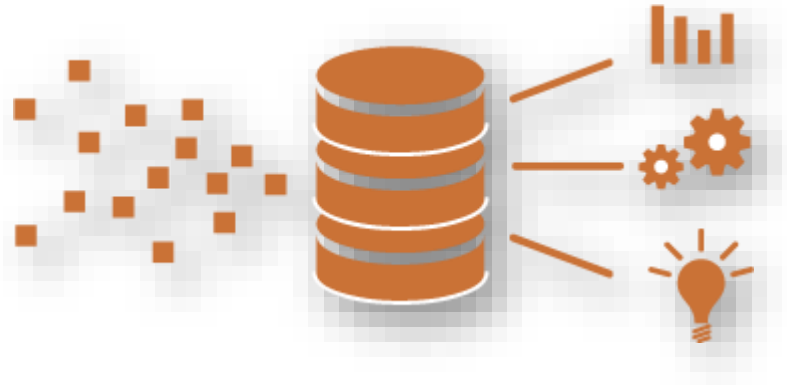


Shifting Critical Decision Point via Technologies



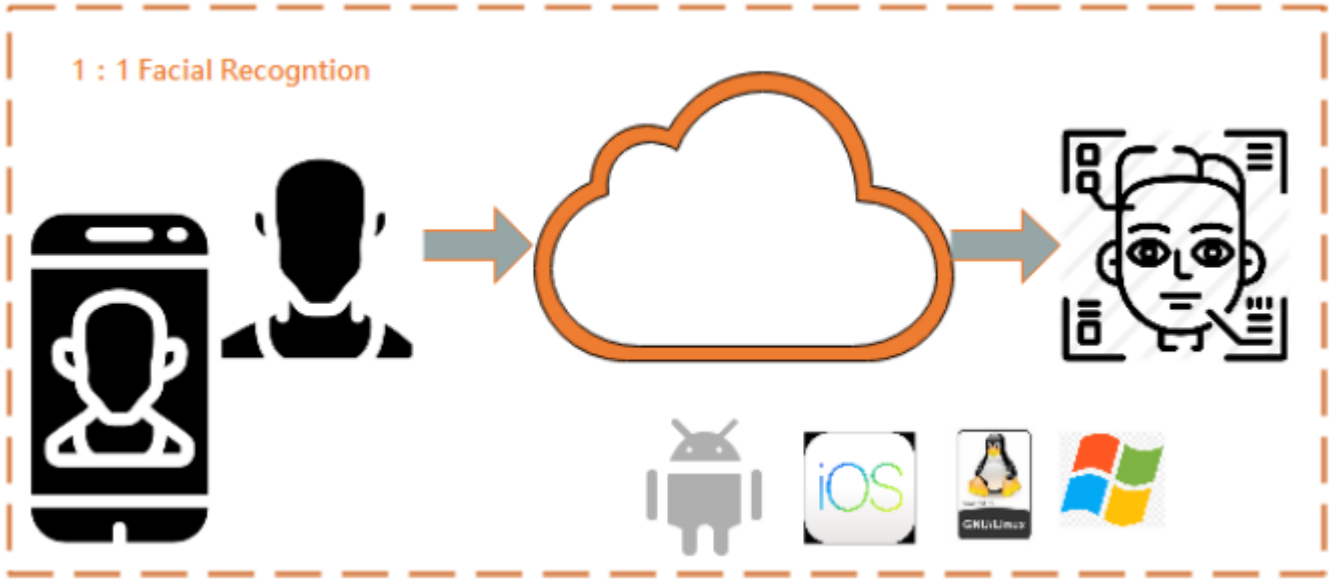




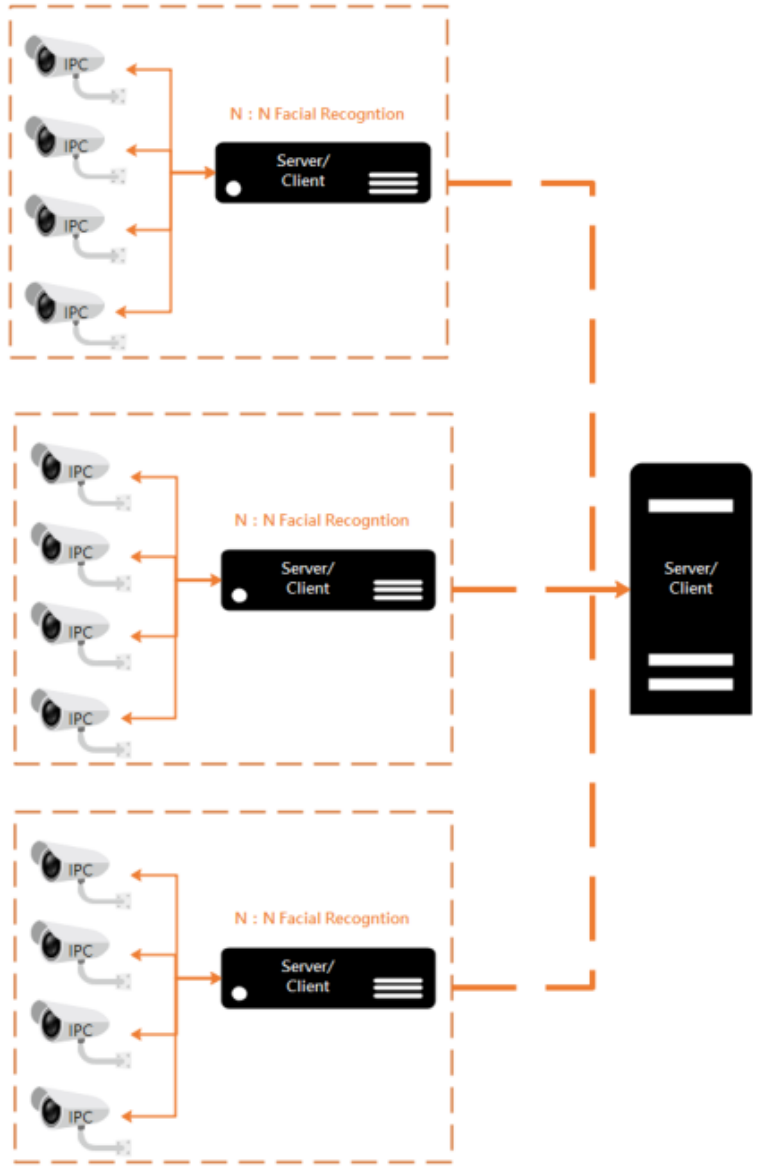


Video Analytic Technology Briefing and Case Studies

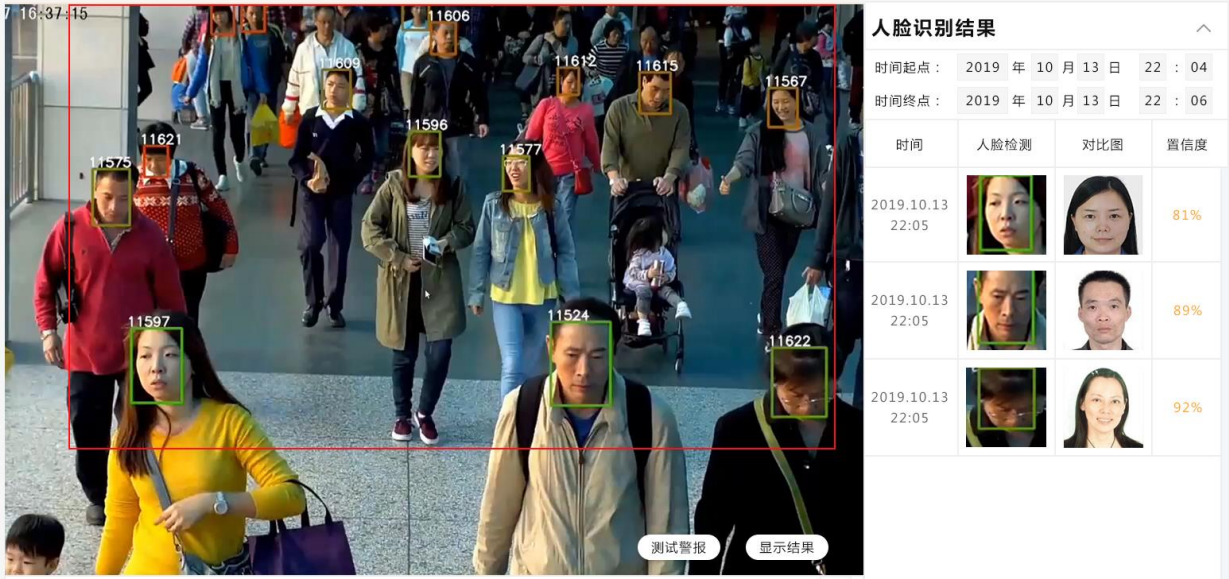
Facial Recognition Technologies

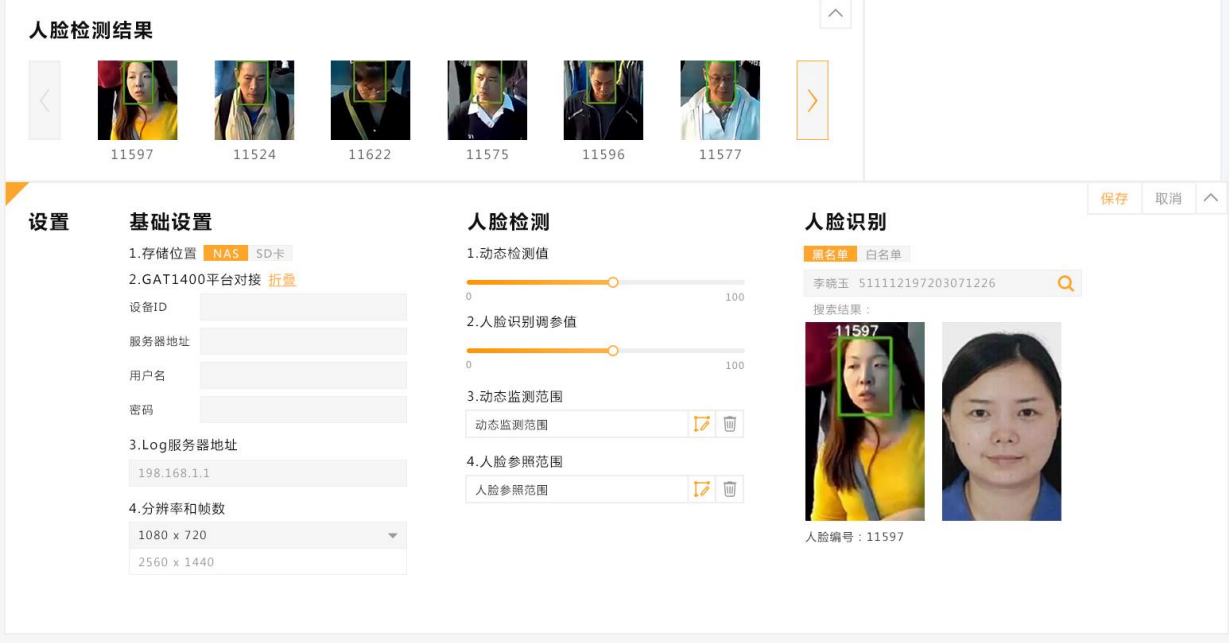


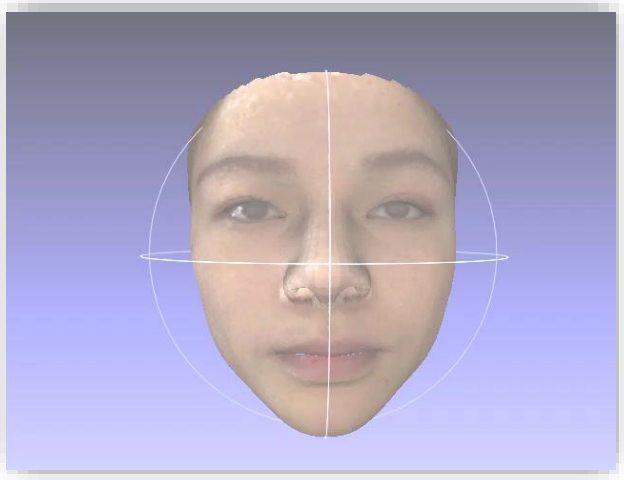
- Remote access
- Black list & VIP
- Location identification

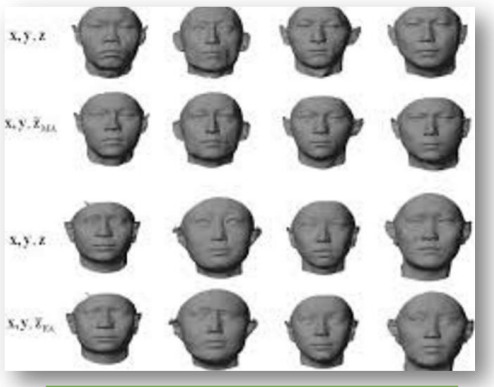


VIP and Black List Functions of Facial Recognition System



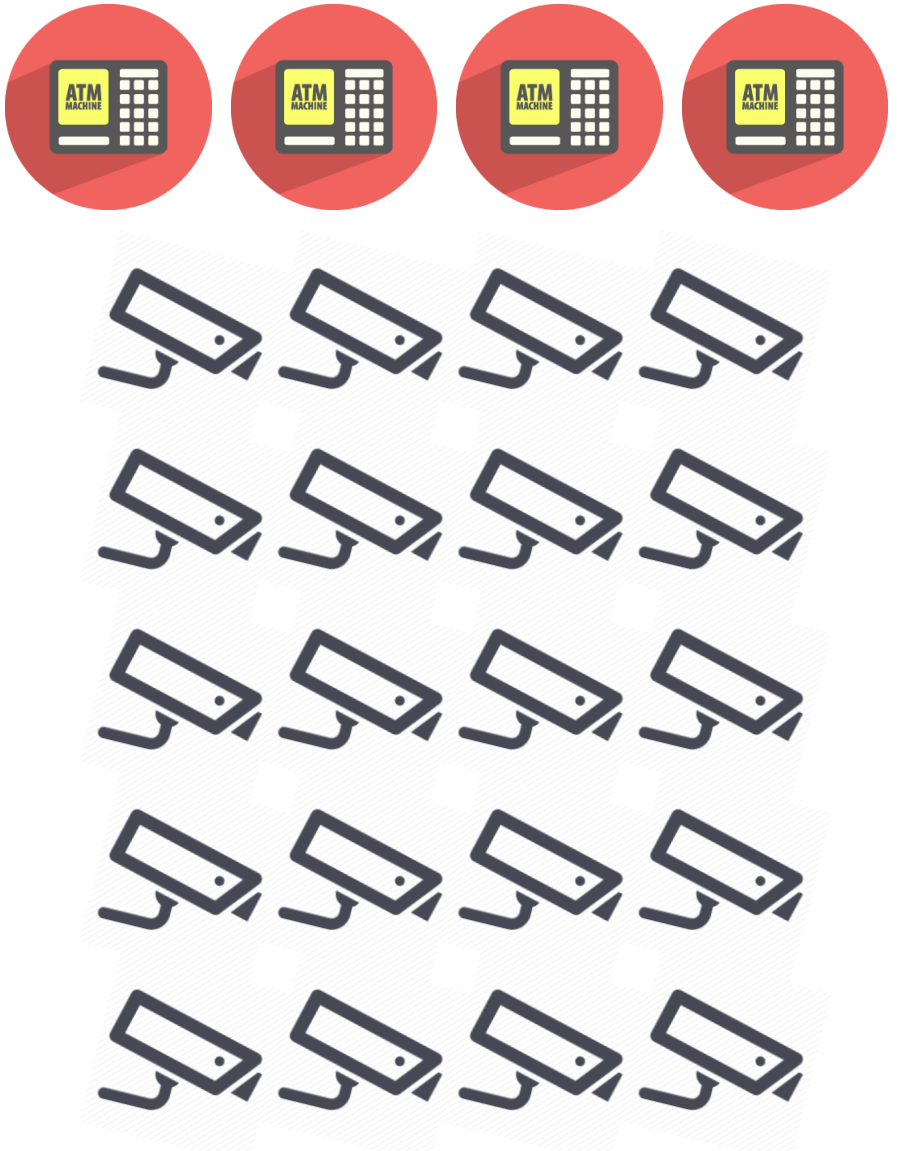






Pseudo-3D face database

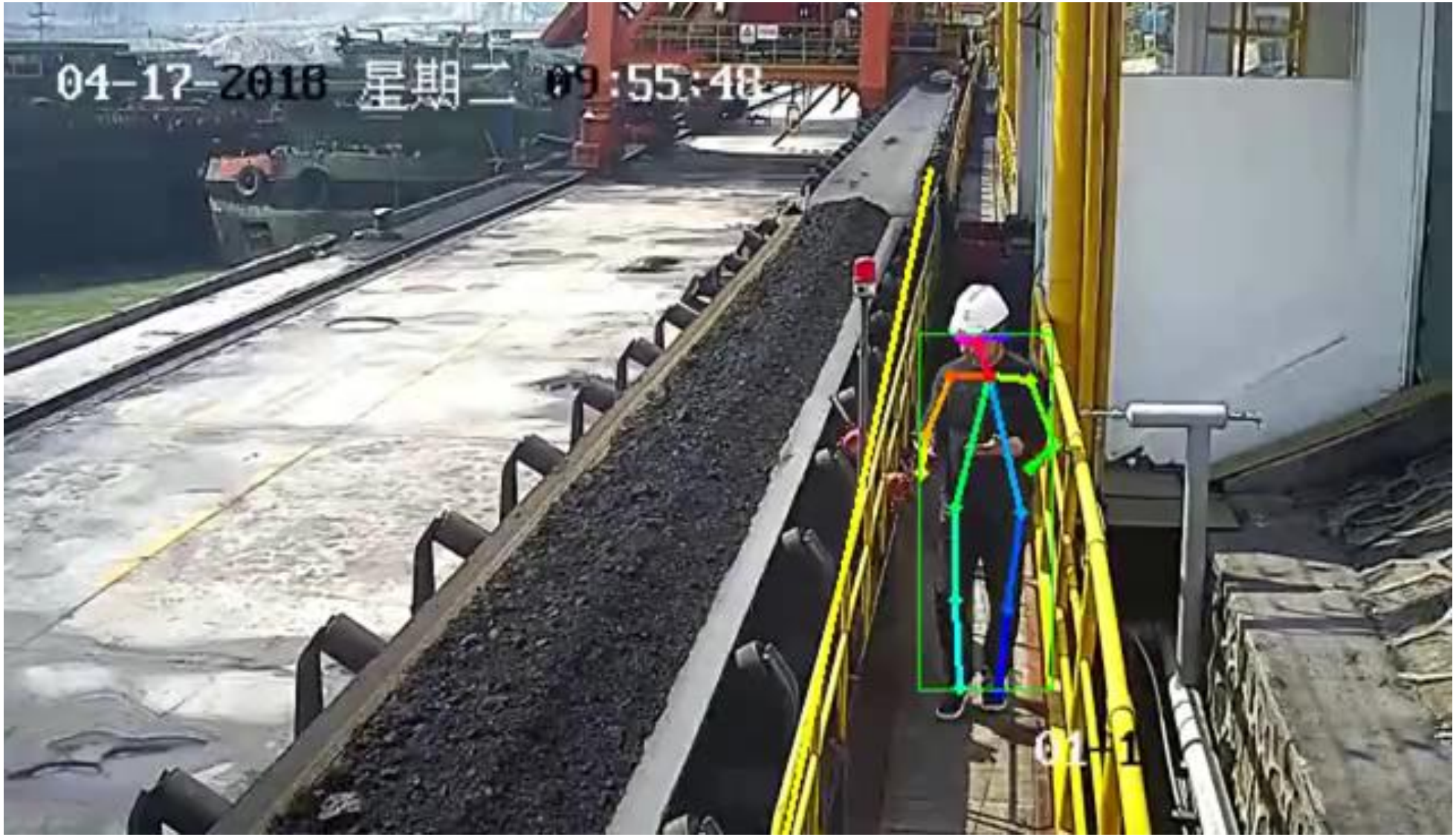
Case Study – ATM Security Center



Each camera require >**2Mbps** broadband width for video stream uploading

Behavior Analysis – in ATM Room

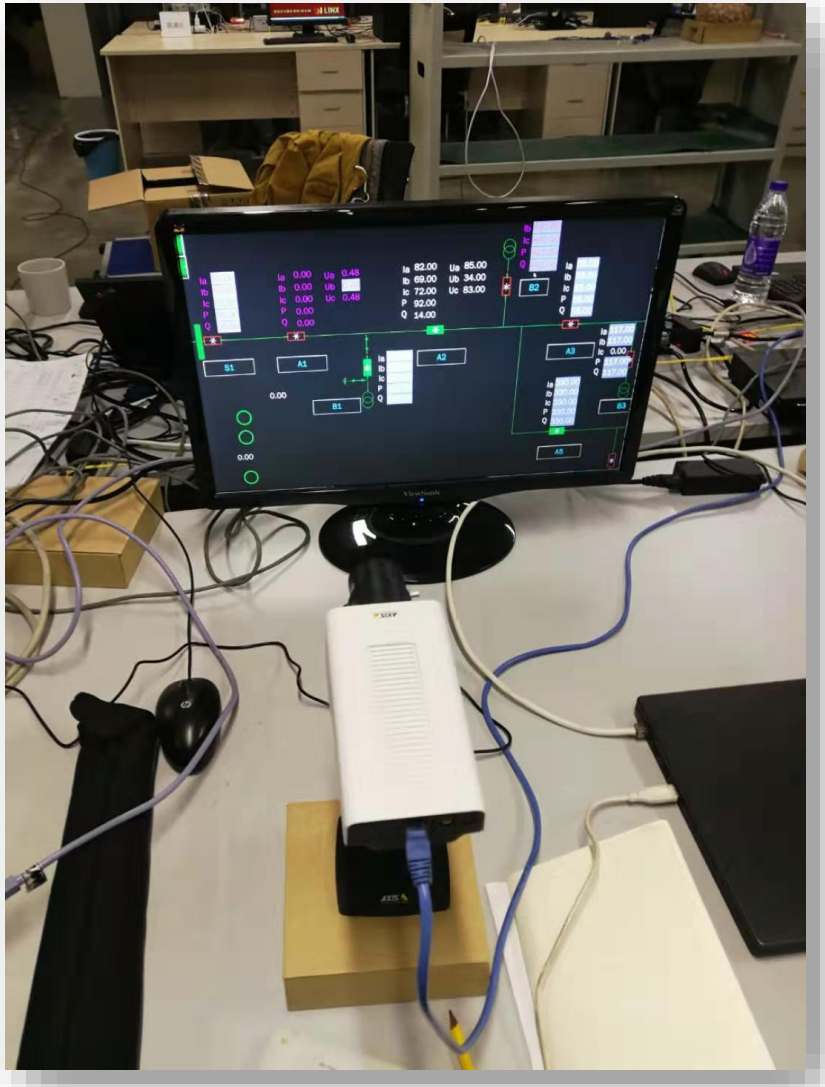
Behavior Analysis – Detect the employee dangerous behavior

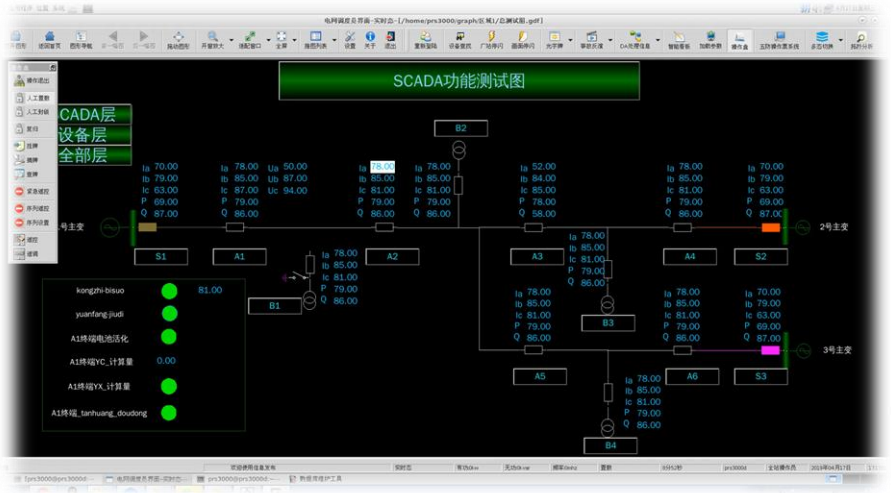


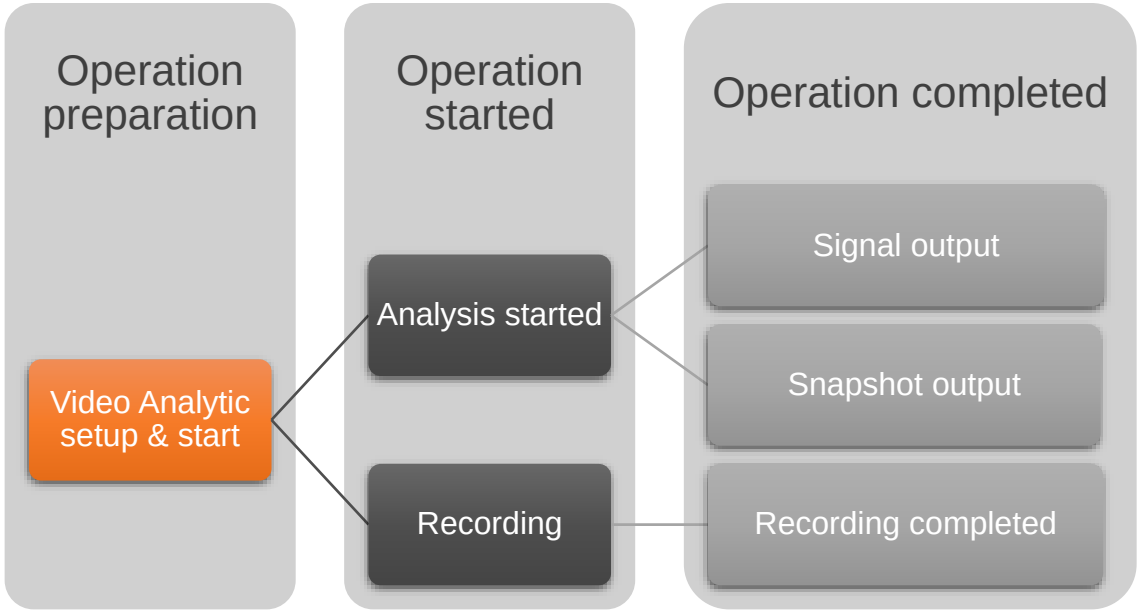
Case Study – Checking Operator's Behaviors from the Computer Screen

- Time
- Accuracy
- Objects
- Evidence

Behavior Analysis – during operation







Thanks