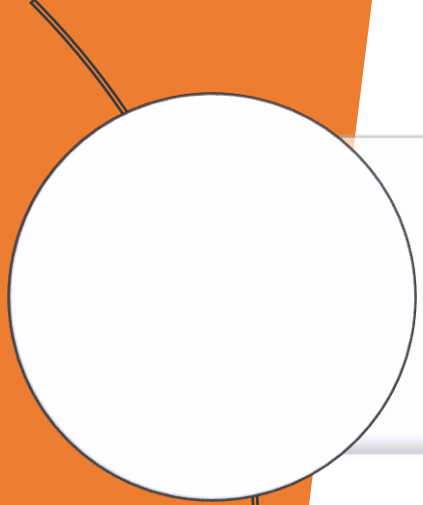


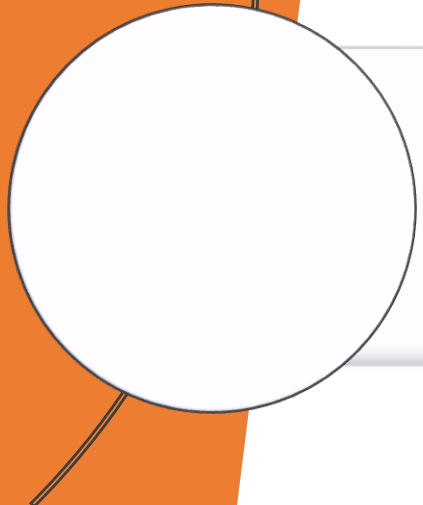
# Video Analytic Technologies for the BPO Surveillance Applications

Report: C Wang

21th Nov. 2019



Understand video analytics  
in a surveillance system



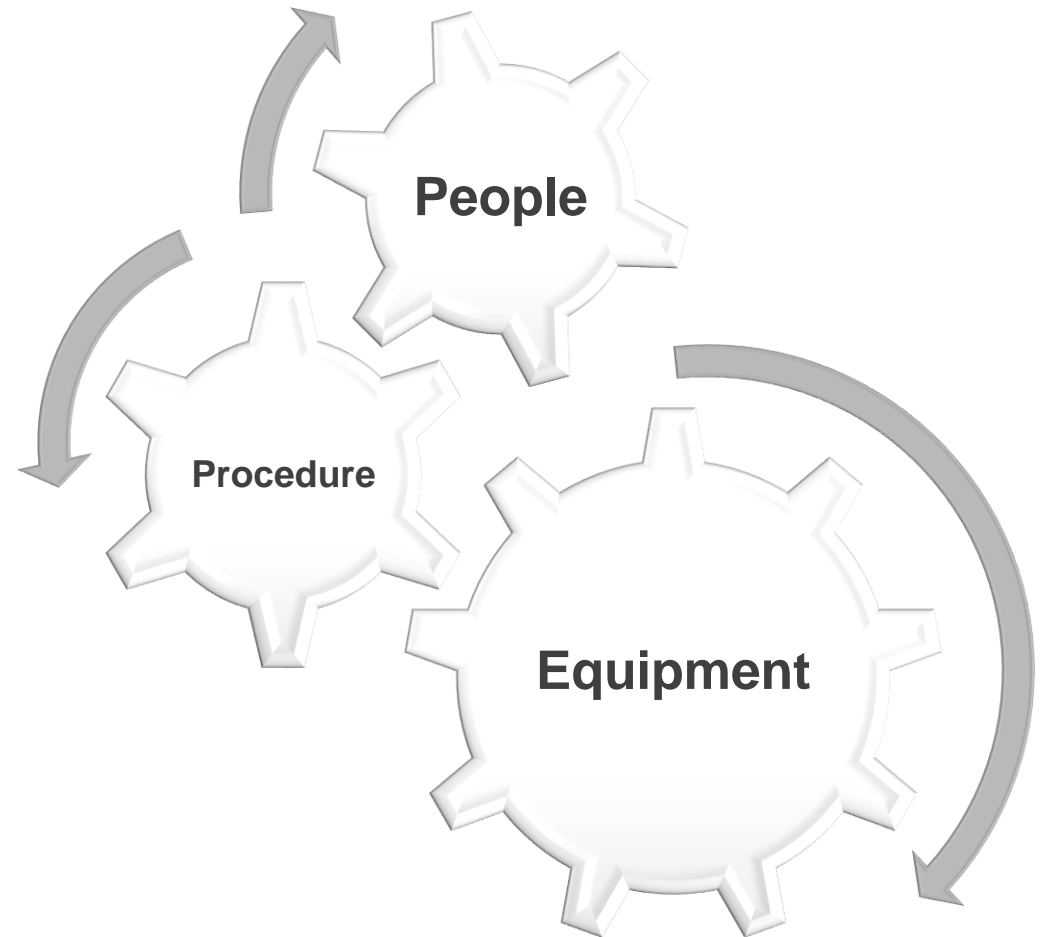
Video analytic technology  
briefing and case studies

*Understand the role of  
Video Analytics in a  
Surveillance System*

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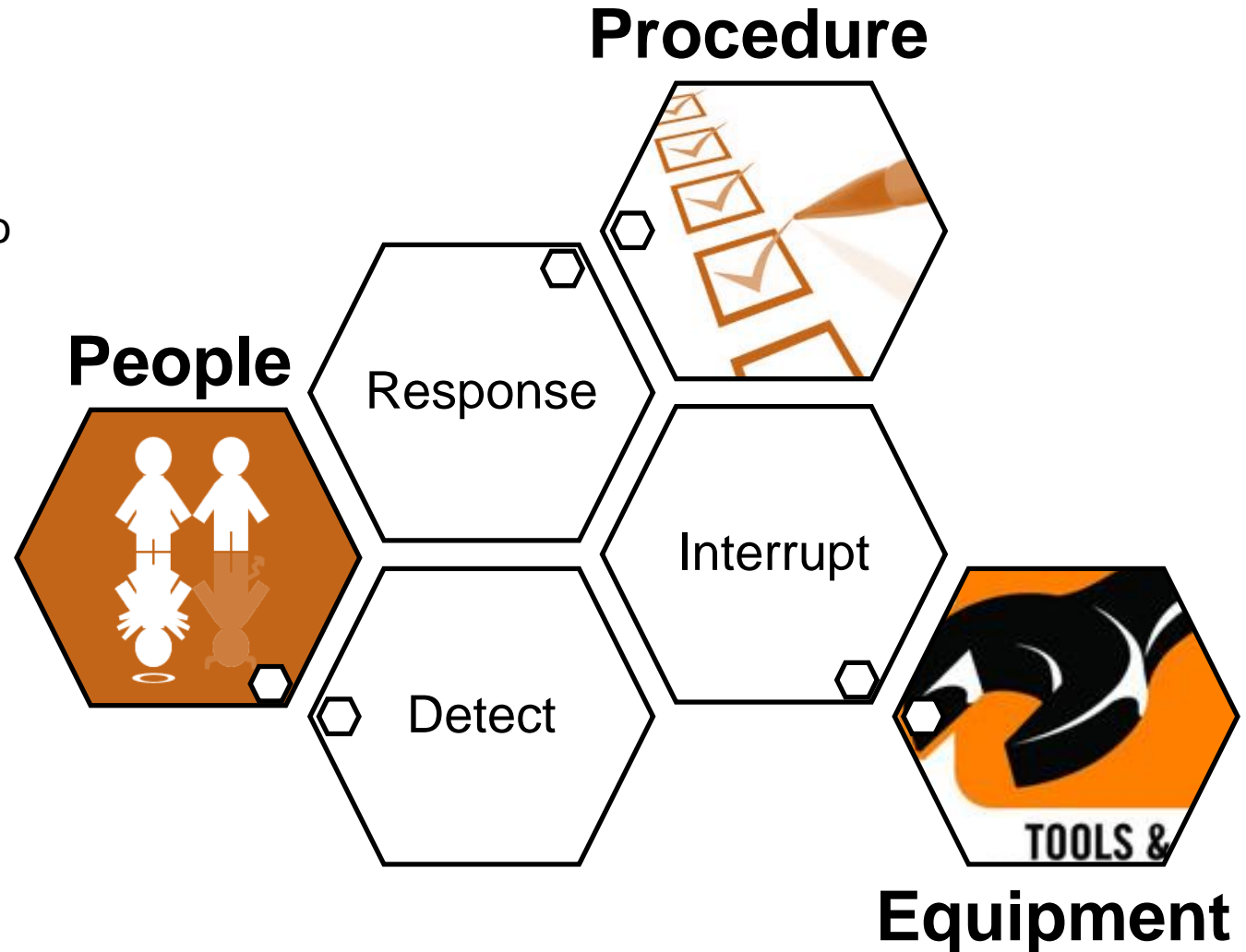
# // Security Issues of BPO Industry

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



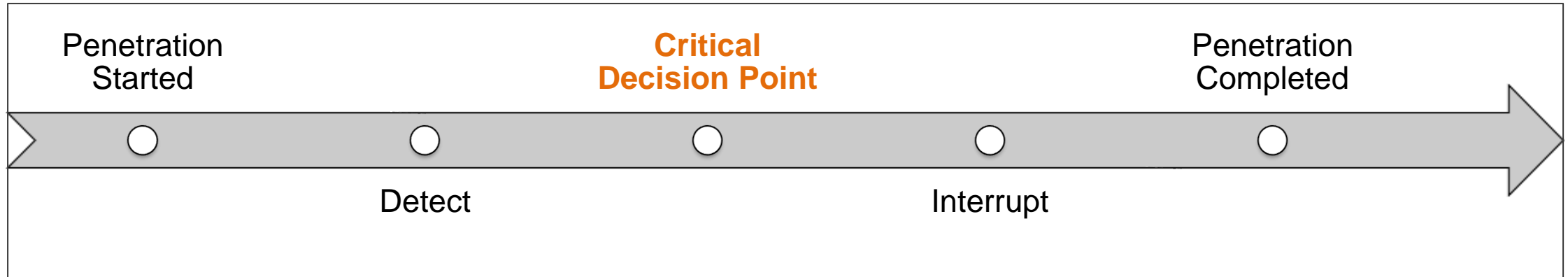
# // Definitions of Physical Security & Prevention System

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

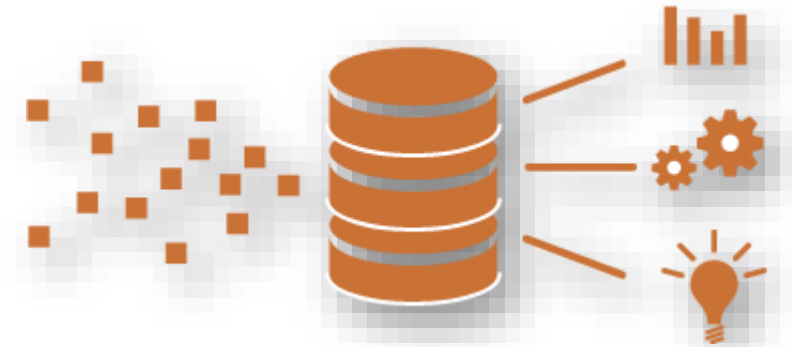
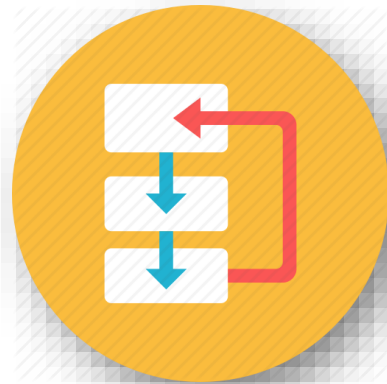
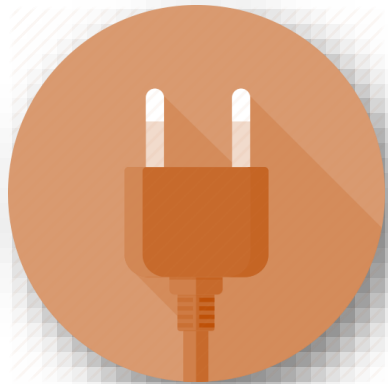
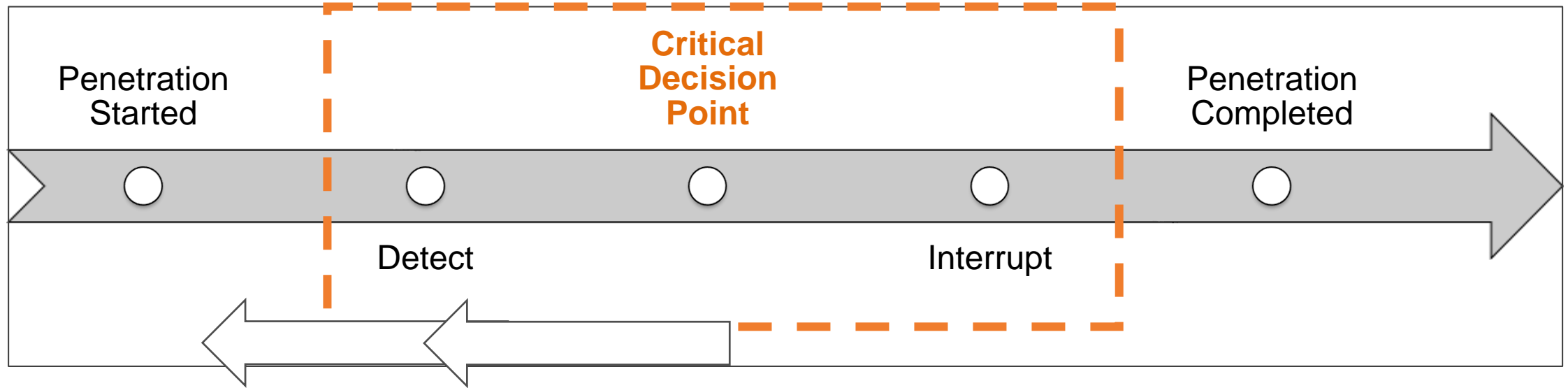


# // Managing Critical Decision Point

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

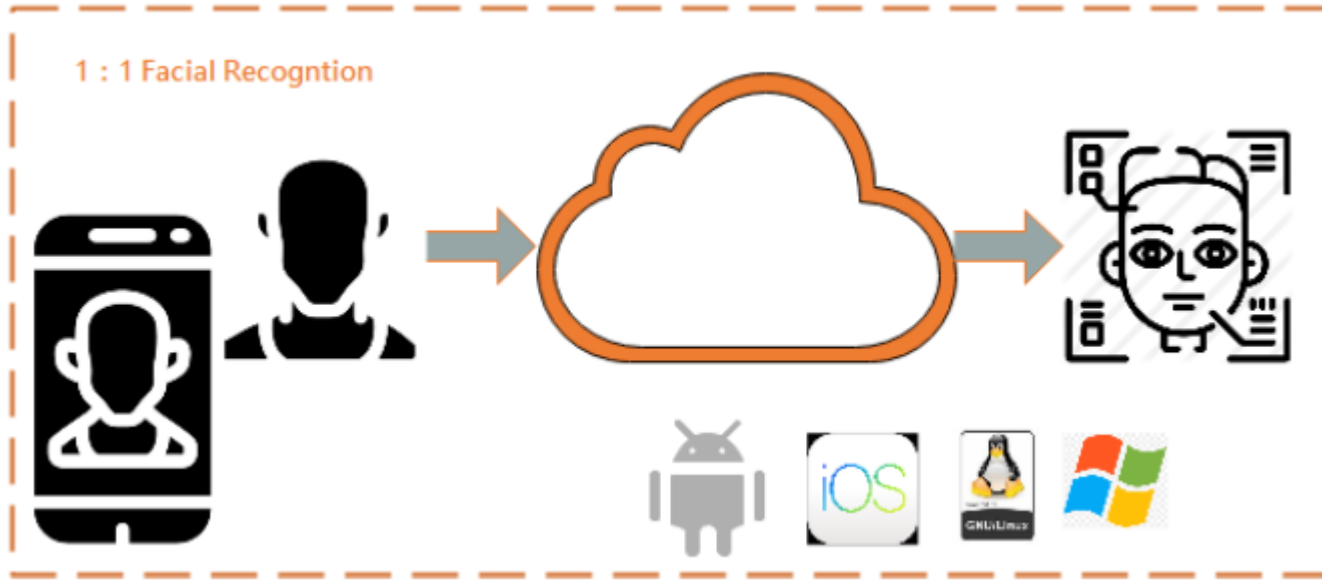


*Video Analytic Technology  
Briefing and Case Studies*

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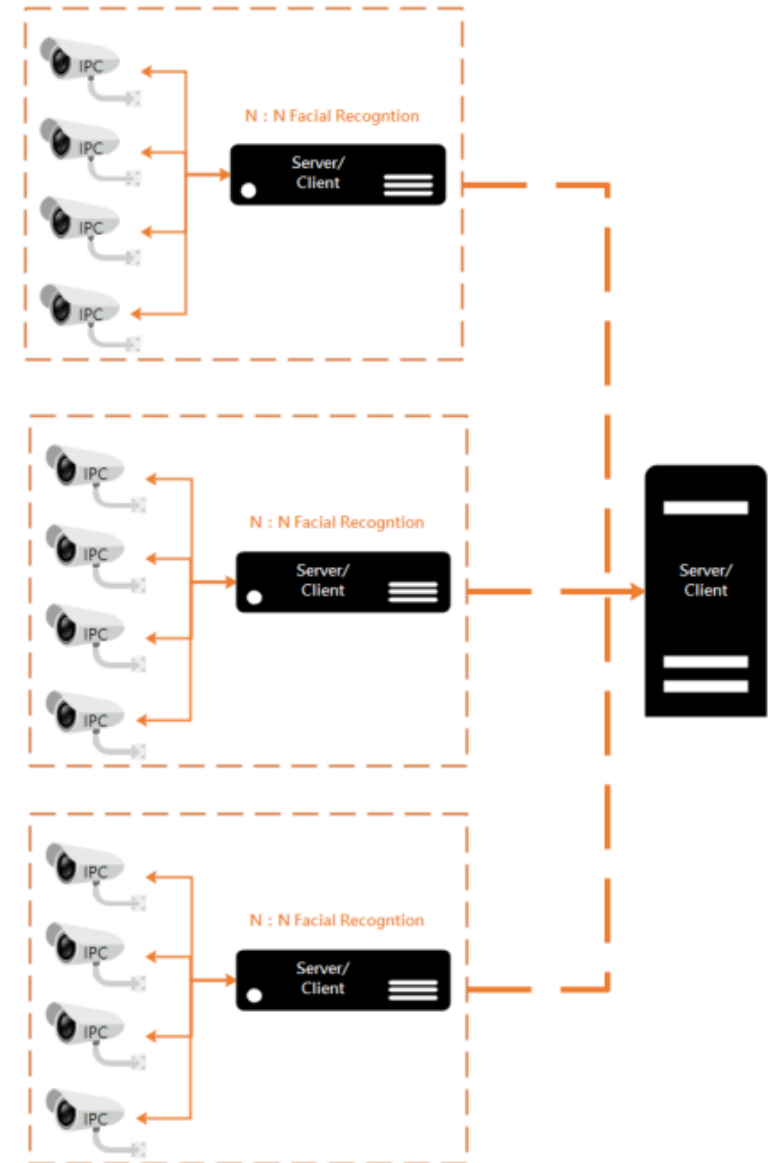
# Facial Recognition Technologies



Remote access

Black list & VIP

Location identification



# VIP and Black List Functions of Facial Recognition System

### 人脸识别结果

时间起点: 2019年10月13日 22:04  
时间终点: 2019年10月13日 22:06

时间	人脸检测	对比图	置信度
2019.10.13 22:05			81%
2019.10.13 22:05			89%
2019.10.13 22:05			92%

### 人脸检测结果

11597
 11524
 11622
 11575
 11596
 11577

### 设置

#### 基础设置

- 1. 存储位置: NAS / SD卡
- 2. GAT1400平台对接: 折叠
- 设备ID: \_\_\_\_\_
- 服务器地址: \_\_\_\_\_
- 用户名: \_\_\_\_\_
- 密码: \_\_\_\_\_
- 3. Log服务器地址: 198.168.1.1
- 4. 分辨率和帧数: 1080 x 720 / 2560 x 1440

#### 人脸检测

- 1. 动态检测值:
- 2. 人脸识别调参值:
- 3. 动态监测范围:
- 4. 人脸参照范围:

#### 人脸识别

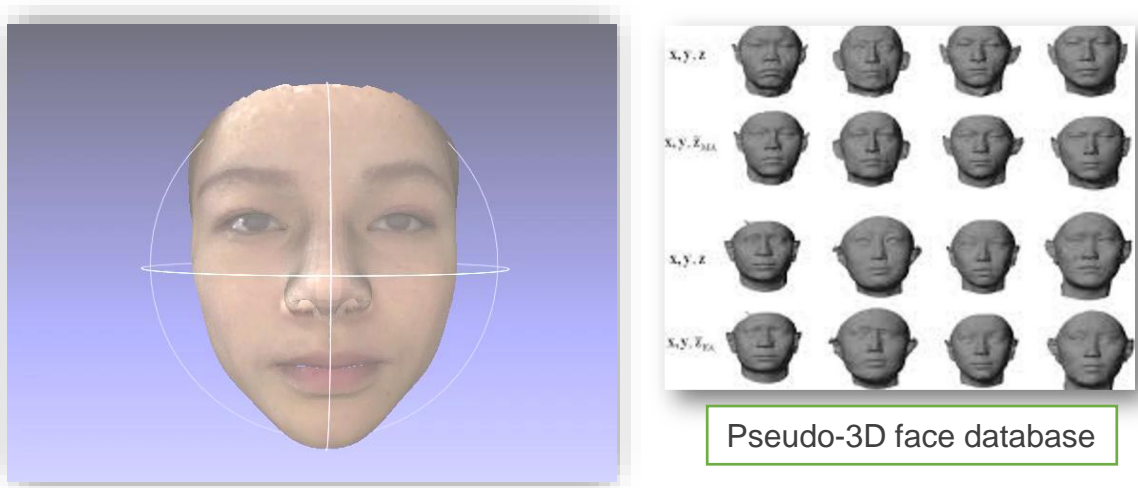
黑名单 | 白名单

李晓玉 511112197203071226

搜索结果:

11597

人脸编号: 11597



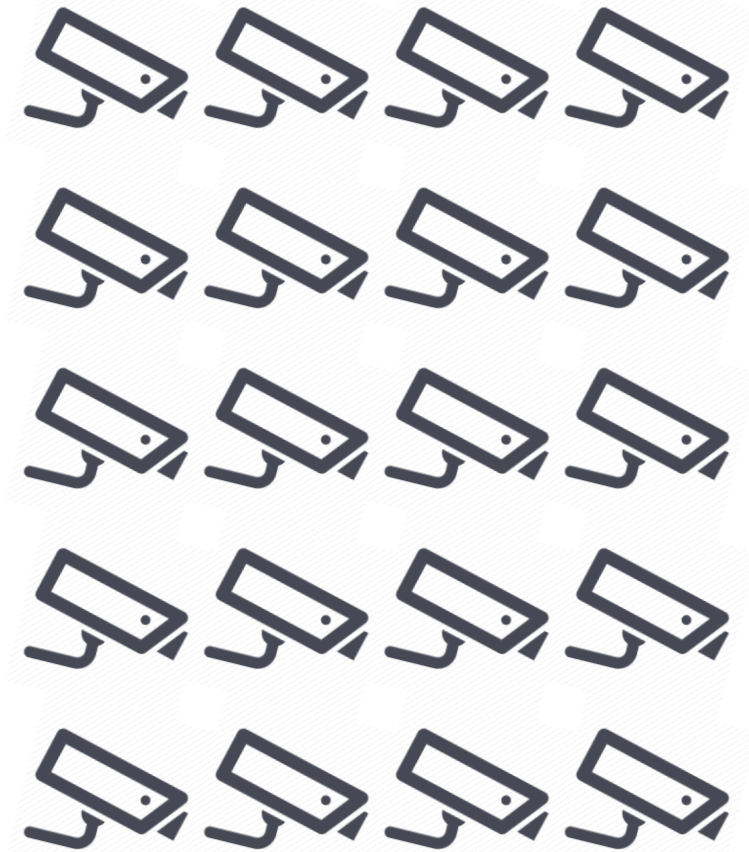
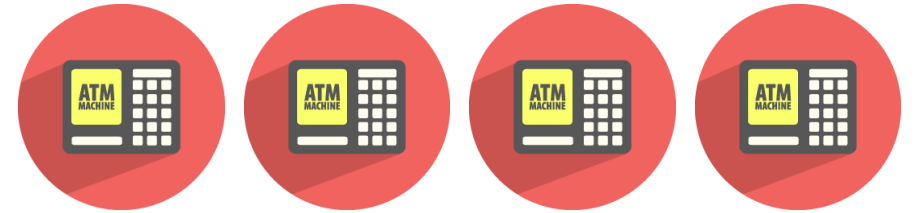
Pseudo-3D face database



# // 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

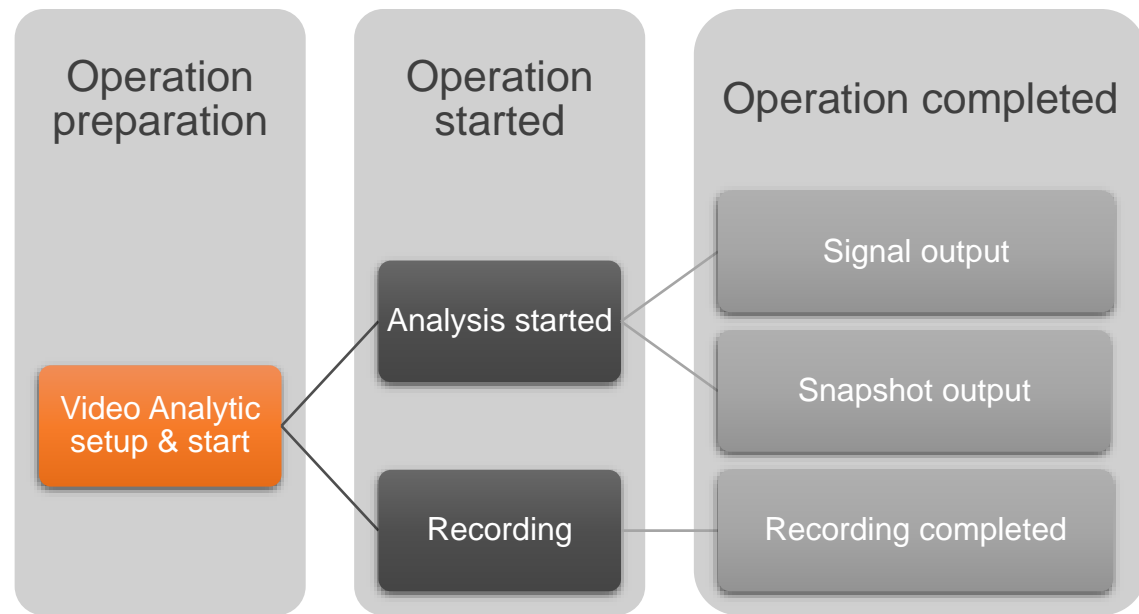
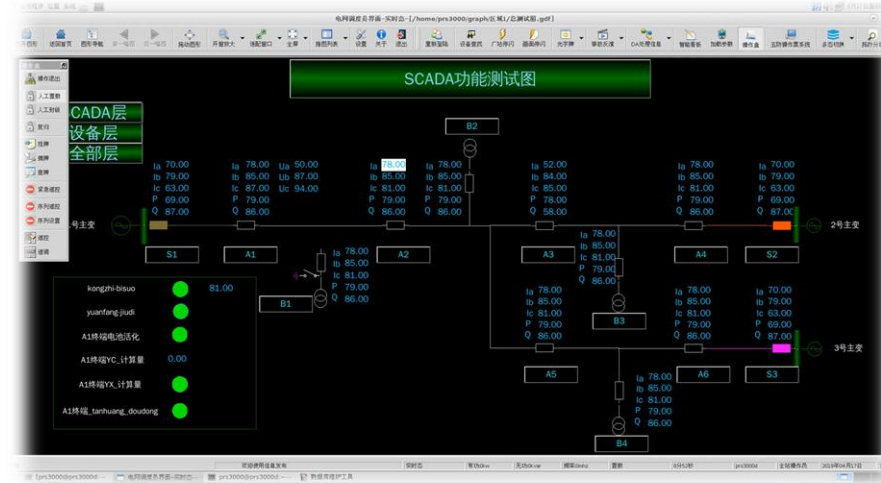


# // Case Study – Checking Operator’s Behaviors from the Computer Screen



- Time
- Accuracy
- Objects
- Evidence

# Behavior Analysis – during operation



Thanks