

ACTi Introduction · m 🗈



About ACTi



■ Since 2013. 9

■ Headquarter : Taipei, TW

■ Branch : Irvine, U.S.

■ Employee: 400

(50% R&D team)







Cloud-based Analytics Solution



ACTi provides corporate BI & Operation Management solution based on cloud big data platform.



I. Retail





Retailer Challenges



Challenge on operation?

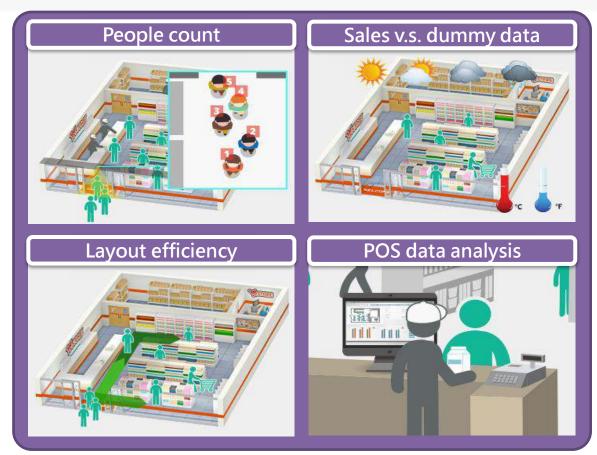
- 1. Streamline report in branches.
- 2. How to evaluate KPI from marketing activities?
- 3. Store layout product & brand locations
- 4. TA analysis
- 5. Visitor numbers & flows

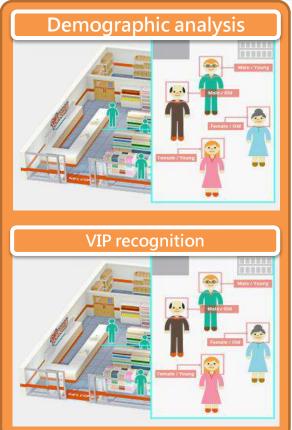




Smart Retail



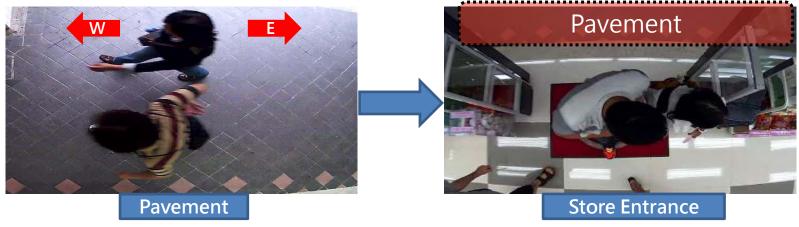






Foot traffic – People Count







Store

- Target customer analysis before rollout.
- Understand target customers category in different time periods.



Layout Efficiency — Heat Map



Heat Map & Dwell Time Analysis



- Understand customers' preference & shopping route.
- Optimize layout efficiency.
- Effectively expose hot products & brands, revenue +50%



Visitor Demographic Analysis



Gender & Age Detection

Detect visitors gender & age through camera at the entrance. Analyze visitors and set short, mid, long-term strategy.





Smart Retail App



Gender Analysis



People Count



Heat Map





Smart Retail Application Suite







VIP Face Recognition



- > Detect VIP visit at the entrance.
- > Application : Luxury industry, Banking, Hospitality ...VIP



Manage VIP data:

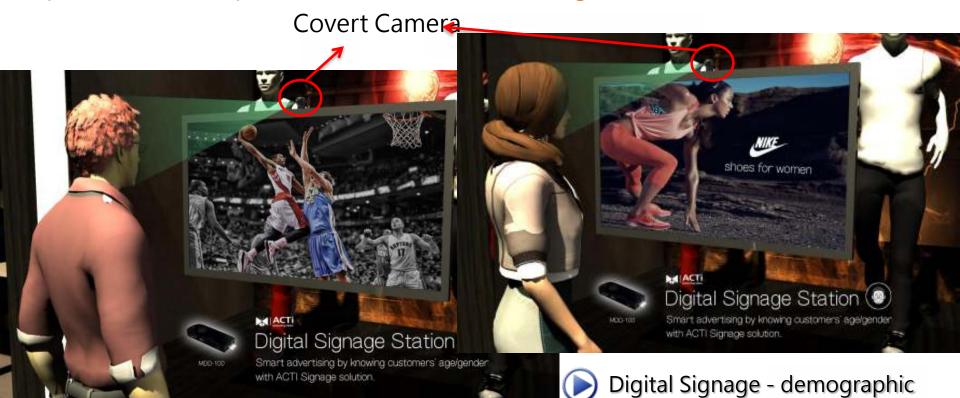
- ✓ Detect VIP upon entry.
- ✓ Attentive service.
- ✓ Increase customer service satisfaction.



Digital Signage Push



>Sportswear store push advertisement based on gender of audiences.





Total Occupancy



- > Total Occupancy: people count application
- Count by video. Avoid inaccuracy due to dust or high failure rate from traditional IR beamer.



Through people count you know..

- 1. Total occupancy fire regulation
- 2. Flow in multiple stores & floors
- 3. Monthly comparison & long-term average analysis
- 4. KPI of marketing activities



Total Occupancy



Occupancy Signage



HOLD ON!

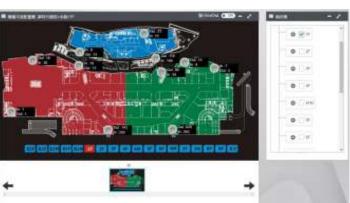
This floor has reached the max. occupancy, we thank you for your patience while waiting.

Max. occupancy: 161,506 people

Current occupancy: 161,285

Manage Interface

Report & people Count per area







Case Study



Taipei 101

Application:

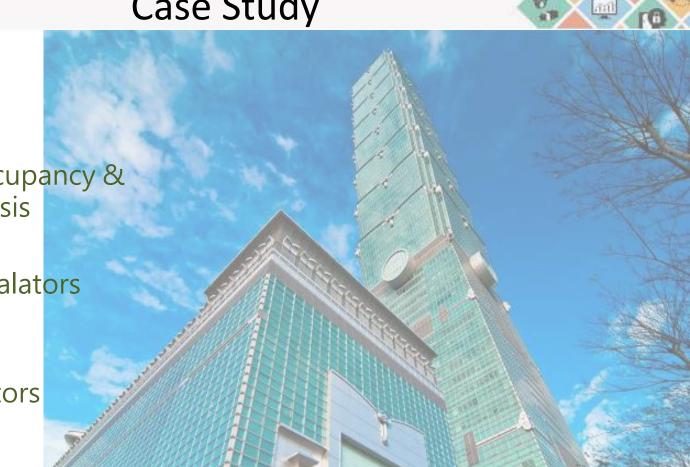
People Count – Occupancy & traffic flow analysis

Scale:

43 entry/exits \ escalators => 89 cameras

Max. flow/day:

30,000~40,000 visitors









TW Kaohsiung - Dream Mall

Application: Total occupancy

Scale: 46 entry/exits => 64 cameras

Max. flow/day: 70,000~80,000 people











New World Center – TW Neihu

Application: People Count & POS

Scale: all stores

Purpose: Stores revenue in mall

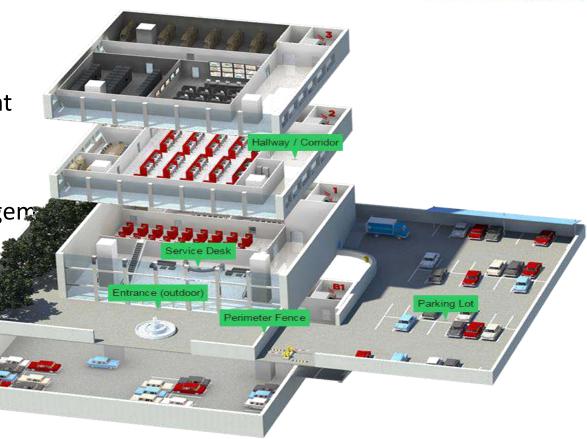


II. Commercial Building



Challenges?

- 1. Staff & vehicles management
- 2. Employee check-in/out
- 3. Visitors appointment managema
- 4. Visitors entry logs

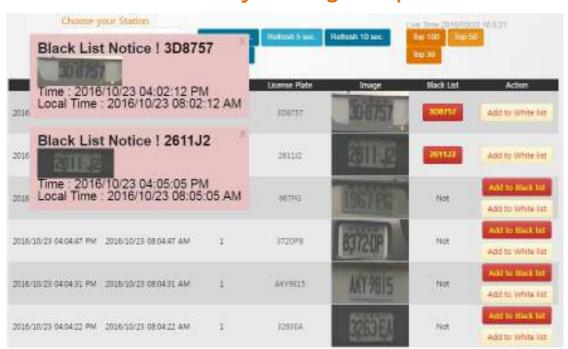




Automatic License Plate Recognition (ALPR)



ALPR- efficiently manage carpark with black/white lists.





- (1) Integrate with access control
- (2) Parking guidance
- (3) Parking location record





Face Recognition – Access Control

> Smart access control

- Face recognition to access approval
- Alert upon entry of strangers
- Notice upon entry of registered visitors





Employee ID	A-1111
Name	Andy Lin
Chinese Name	林益丞
Email	Andy.Lin@acti.com
Extension	7085
Department	CI1103/MAS
Title	Senior Software Engineer
Check in time	2016.08.10 9:45:56 (Late to work)





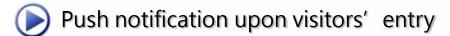


QR Code Backup



- Every employees gets one unique QR code.
- QR Code can be used for access approval.
- Take snapshots upon access via QR code, and push info to mobile devices of security guards.
- Easily issue temporary QR code to contractor or visitors.
- Future Application: QR Code to replace event sign-in











ACTI Meeting Resource Management System



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 Personal & group atte 	endance.
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- Display of reservation & status of meeting room.
- Better attendance & meeting facility management.

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Internal meeting
Interview
Meeting with supplier or client
Available

Floor 樓層	7 F	良好
Seat 座位數	12F	良好
Projector 投影機	Yes	良好
Whiteboard 白板	Yes	良好
Video Conference 視訊設備	Yes	保修中



Forbidden line & area



> Use intelligent video analysis to define forbidden area



- (1) Avoid strangers intrusion.
- (2) Protect lives & premises.





Case Study





Top cosmetic brand – Taipei HQ

Application : Access control – face recognition >

Attendance Management (HR) \ CRM





III. Factory/ Logistics





Challenges?

- 1. How to improve QC?
- 2. Improve stock management
- 3. Maximize load/offload efficiency
- 4. Facility maintenance

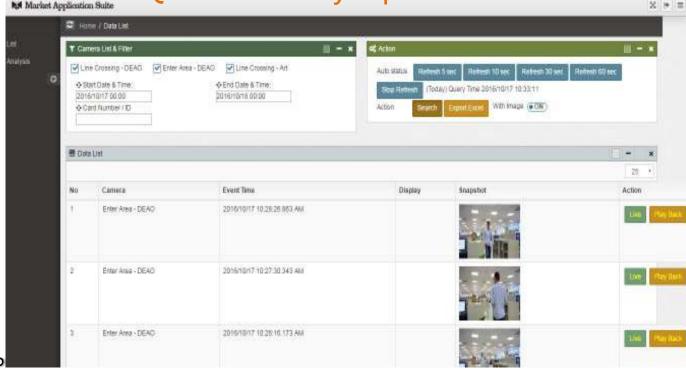


Factory QC

IVS) C

On assembly lines, create multiple stops, and attach with snapshots or real-time videos => Guarantee QC and efficiency of production.

- Manage assembly line efficiency.
- Prioritize assembly order.
- Display camera
 view of critical area
 along with work
 guideline or safety
 instructions.



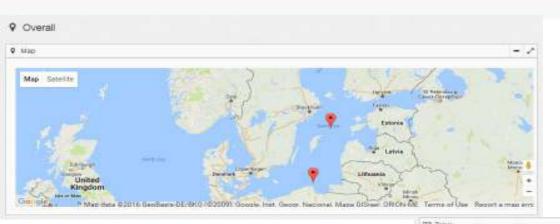


ECD-1000 + factory SOP



Monitor delivery





Locate vehicles on Google map, display it on dashboard with weather info. An alert will be triggered when it is abnormal.

- Track real-time delivery status
- Monitor the quality of delivery



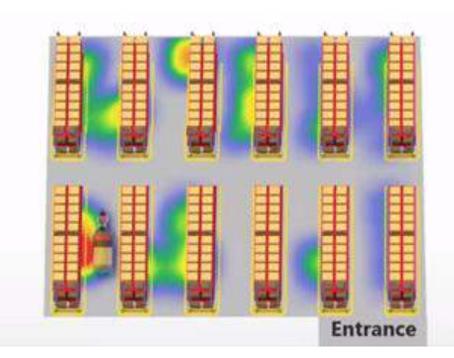


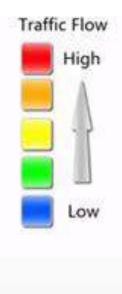
Warehouse – Heat map analysis



> Study heat map in warehouse to design efficient layout & route.

- Adjust placement of goods to achieve the most efficient path.
- Improve employee working process.





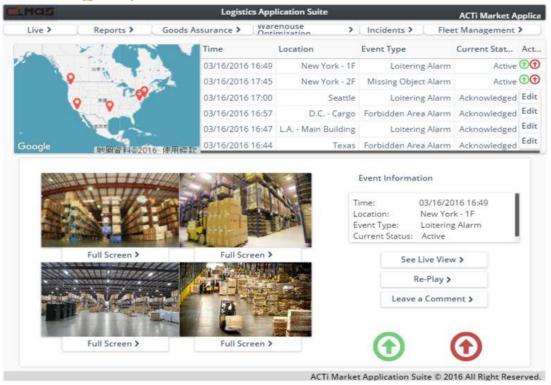




Maximize load/offload efficiency



- Create multiple stops in the procedure and attach with snapshots or real-time videos => Monitor cargos positions
- Monitor multiple warehous
- Track cargos.
- Increase load/offload efficiency, shorten waiting time.

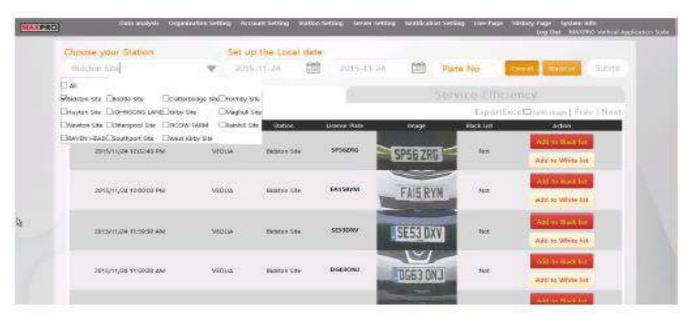




Vehicles access control



- ➤ Collect license plate number and build database with snapshots or realtime video for cross –matching, and record the entry/exit log.
- Fleet management.
- Prevent entry of unknown vehicles.
- Track vehicles positions.
- Alert on overnight parking.

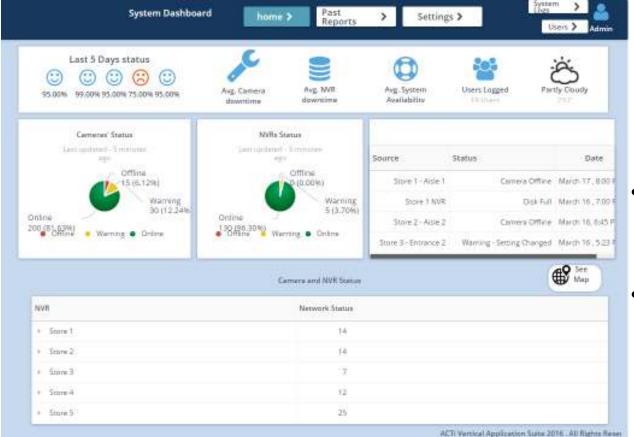






Factory Operation Management





- Customizable dashboard.
- Can do central management.

- Monitor facility status with video live view.
- Analyze facility
 downtime frequency
 for maintenance
 cost evaluation.



Case Study







International Alexander

Logistics company @Romania

Application:

ALPR, White/Black list, Trucks working log

<u>Purpose</u>:

Monitor & track trucks, maximize logistics efficiency



IV. Banking



Challenges?

1. How to enhance security?

2. How to differentiate customer service?

3. How to increase customer satisfaction?

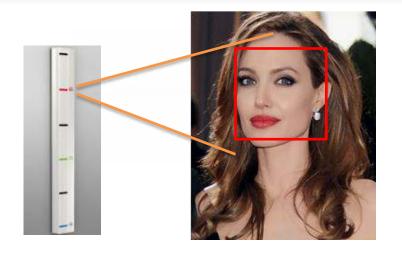
4. How to handle customer complaint?





VIP recognition





Angelina Jolie

Age: 50

Investment: Stock Market (TW)

Consultant: Brad Pitt

- Alert upon VIP arrival.
- Reminder to offer customized advise to VIP.
- Increase customer satisfaction.





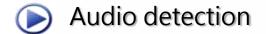
Ensure Service Quality





- Video & audio surveillance at counters.
- Ensure service quality.
- Provide effective evidence for conflict.
- Audio detection for fight alert.







Enhance Security



Use video analytics to enhance security.

- •Alert upon abnormal loitering.
- •Record entry/exit in forbidden area.









Case Study





兆豐國際商業銀行 Mega International Commercial Bank



Mega Bank – Taiwan

Application:

Loitering detection

Location:

ATM

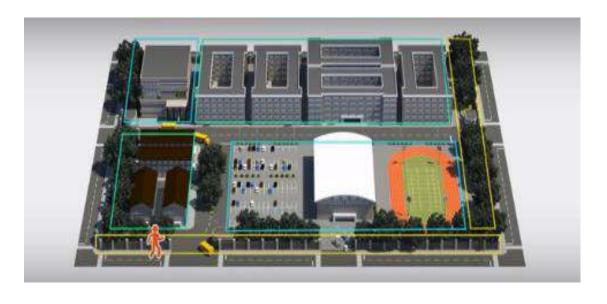
Purpose:

Detect abnormal loitering.



V. Education





Challenges?

- 1. How to promote school events?
- 2. How to enhance campus security?
- 3. Improve reputation



Enhance Campus Security





Enlarge surveillance area under limited human resources, enable proactive response to events.

- Set virtual fence and forbidden area to enhance security in critical areas.
- Video analytics Line Crossing can reduce false alert.
- Security guards can receive real-time notification on mobile devices.
- Use mobile as surveillance camera to prevent blind corner.



Case Study





Tainan Jian-Xing Junior High School

Application:

virtual fencing, push notification on mobile devices

Location:

Perimeter

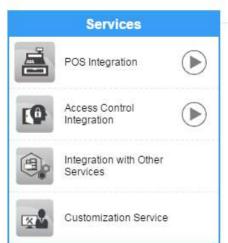
Purpose:

Intelligent security & real-time notification













Edge Recorder Client

6





Global Reference







Discover ACTi solutions that successfully fulfill different requirements in various markets with world famous brand.



























































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