

# Advanced Passenger Processing System Taiwan e-Gate Experience

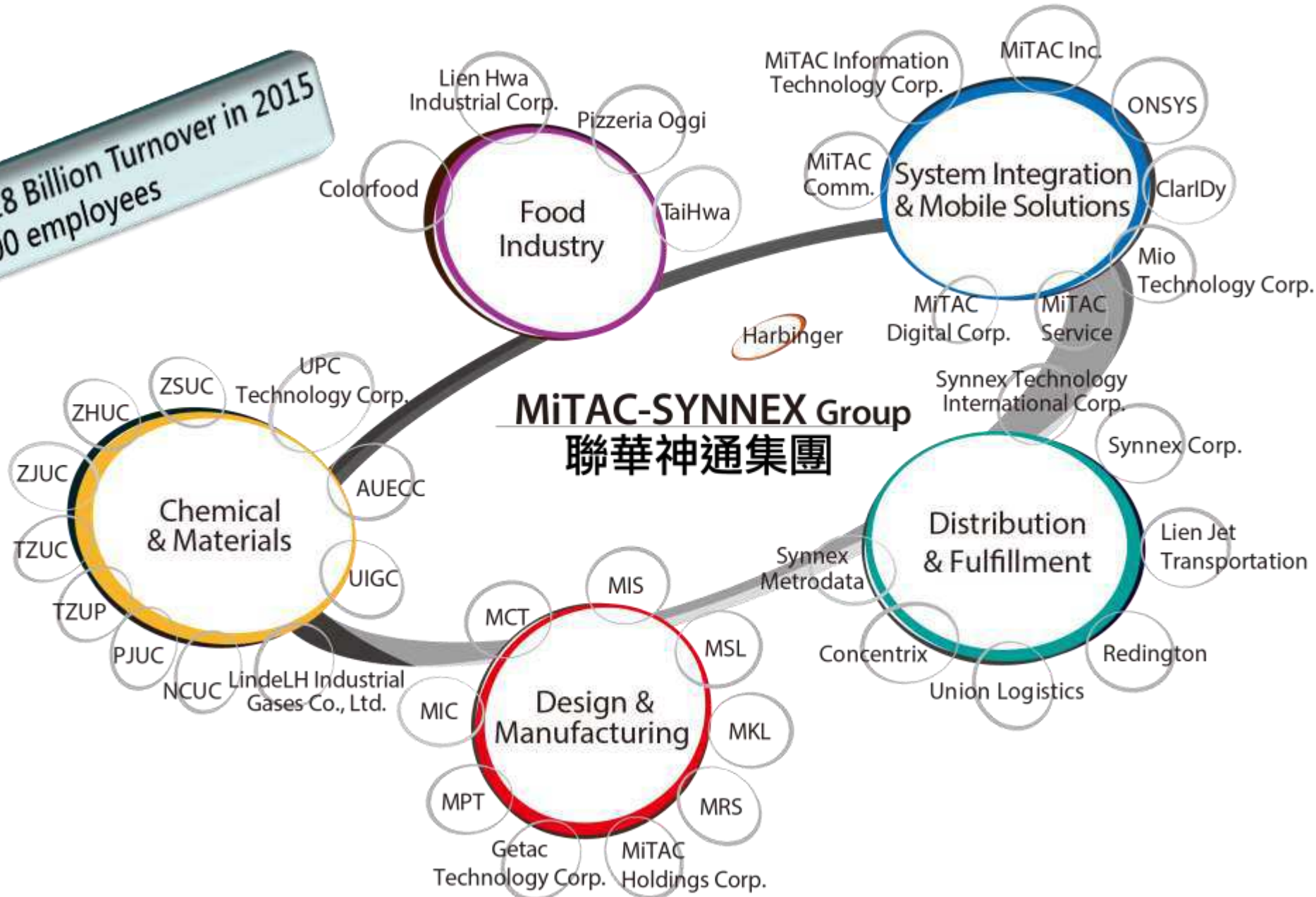
MiTAC Information Technology Corp.  
Project Manager Eric Chang



# Topics

- ◆ **MiTAC Synnex Group Introduction**
- ◆ **Global Smart Gate Trend**
- ◆ **Automatic Passenger Processing System**
- ◆ **Taiwan Experience in Dubai**
- ◆ **Potential Business in Europe**

USD 28 Billion Turnover in 2015  
80,000 employees





# Internet of Things



# Industry 4.0 (Smart Manufacturing)



- ❑ MiTAC assists ASE in passing EAL 6 safety certification
- ❑ Supervisory Control And Data Acquisition (SCADA) System for Gas, Power, Chiller, Chemical, DI water and Clean Room
- ❑ Power SCADA, Gas Supply Monitoring & Control System for semi-conduction foundry
- ❑ IDSmart embedded UHF RFID Machine
- ❑ Factory Automation Monitoring System

# Industry 4.0 (Smart Manufacturing)



ASE GROUP



# e-Ticketing & Easy Card

for Subway, City Bus & Parking Lot Integration:

- ❖ 8 MRT lines :
- ❖ 1215 MRT Gates,
- ❖ 200 Auto Vending Machines.
- ❖ 6550 Bus Validators
- ❖ 200 Parking lots
- ❖ 20000 Chain Stores
- ❖ **China, India, Vietnam Subway**
- ❖ **Hong Kong Airport Express QR-Code**





# Cross-Platform Big Data



Government-Police · Legal Department  
Crime Prevention



Cross-Platform Big Data Cloud



Airline Database



Control Center



VISA System



# Assembling Line





# Auto Fare Collection

6550 Bus Validators & 20000 chain stores in Taiwan



Bus Validator  
Type 1



QR-Code  
Hong Kong



Easy Card Balance  
Inquiry Machine



Bus Validator  
Type 3



Value Add  
Machine



Ticket Vending Machine



# RFID Total Solution

Critical equipment monitoring and staff control applications in Semiconductor

## FAB Critical Tools Security Solution



RFID Staff/Factory/Warehouse/Asset Management application

Using RFID doing the inventory check in and out till the shop management.

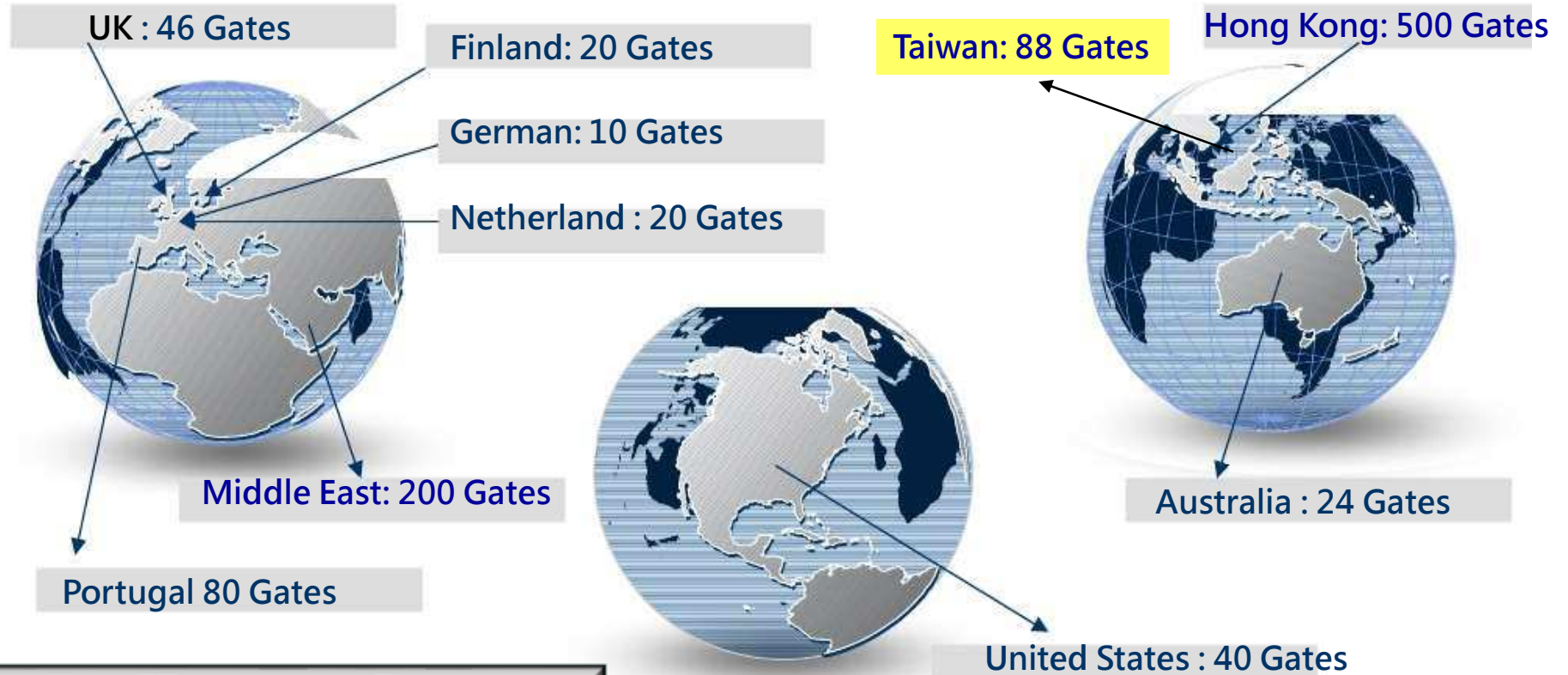


Assets



# Automatic Passenger Processing System

# Global Smart Gate Trend



- Fast Border Pass
- Accurate Passenger Control

Statistics : 2015 Dec



# Automatic Passenger Processing System



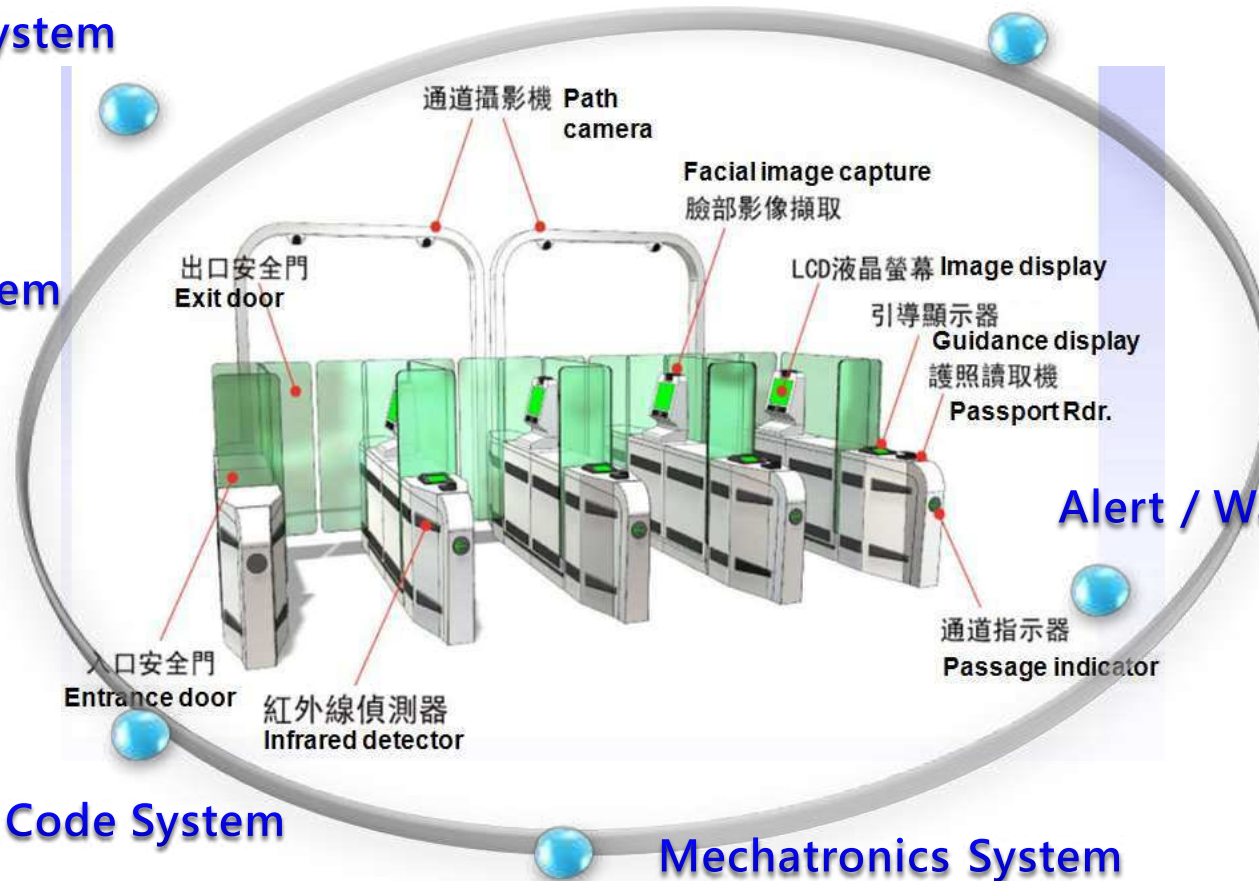
# Automatic Passenger Processing System

Biorecognition

Back-end Database

Surveillance System

Communication System



Alert / Warning System

Smart Card / QR Code System

Mechatronics System

# Automatic Passenger Processing System

1. Passport reading

2. Passenger inspection

3. Open Gate 1

4. Biometric matching



Approved



Unapproved



Manual Inspection

Fail



Manual Inspection

Correct



5. Open Gate 2, Finish inspection flow



# Automatic Passenger Processing System

## Taiwan Airport Project

- Systems : APPS, APIS, e-gate
- Scope : 4 Airports , 1 Seaport

## Achievements

- 2.8 M Taiwan Citizen Registrations
- 27 M Entry/Exit Man-Time Count annually
- One of 38 qualified Visa Waiver Program Participant Countries of United States Customs and Border Protection
- Provide Consulting Services, share Taiwan experience to Dubai






# Signing Teaming Agreement with Local Partner Provide Consulting Service and Concept



# Taiwan Experience in Dubai Airport

Country/Client	UAE / Dubai International Airport	
Local Partner	INDEX, Emaratech	
Work Scope	Being the subcontractor of INDEX to provide <b>consulting services and concept</b> of Sliding Door Manual Gate (T1/T2) and design of Flap door Manual Gate (T3) to Dubai International Airport	



# Taiwan Experience in Dubai-Oman Border



نظام عابر

بيانات المسافرين والوضعية

الوضعية	تاريخ الميلاد/الجنسية	الإسم لاسميا	الإسم عبريا	صورة
Green	11/12/1985	Salem Bahmani	سالم باهمني	
Green	11/12/1994	Abdullah Khalid	عبدالله خالد	
Green	11/12/1994	Hayat Javed	هايات جاهد	
Red	11/12/1978	Shah Hameed	شاه حميد	
Red	11/12/1988	Syed Farhan Ahsan	سيد فرحان احسان	
Green	11/11/1991	Wajeeh Ahsan Ahsan	وجيه احسان احسان	
Green	11/12/1991	RAHMA AHMED KHALID	رحمة احمد خالد	

تمثيل آخر 100 خروج ووجه المسافرين: 1000000

Fetch

Since May 2015



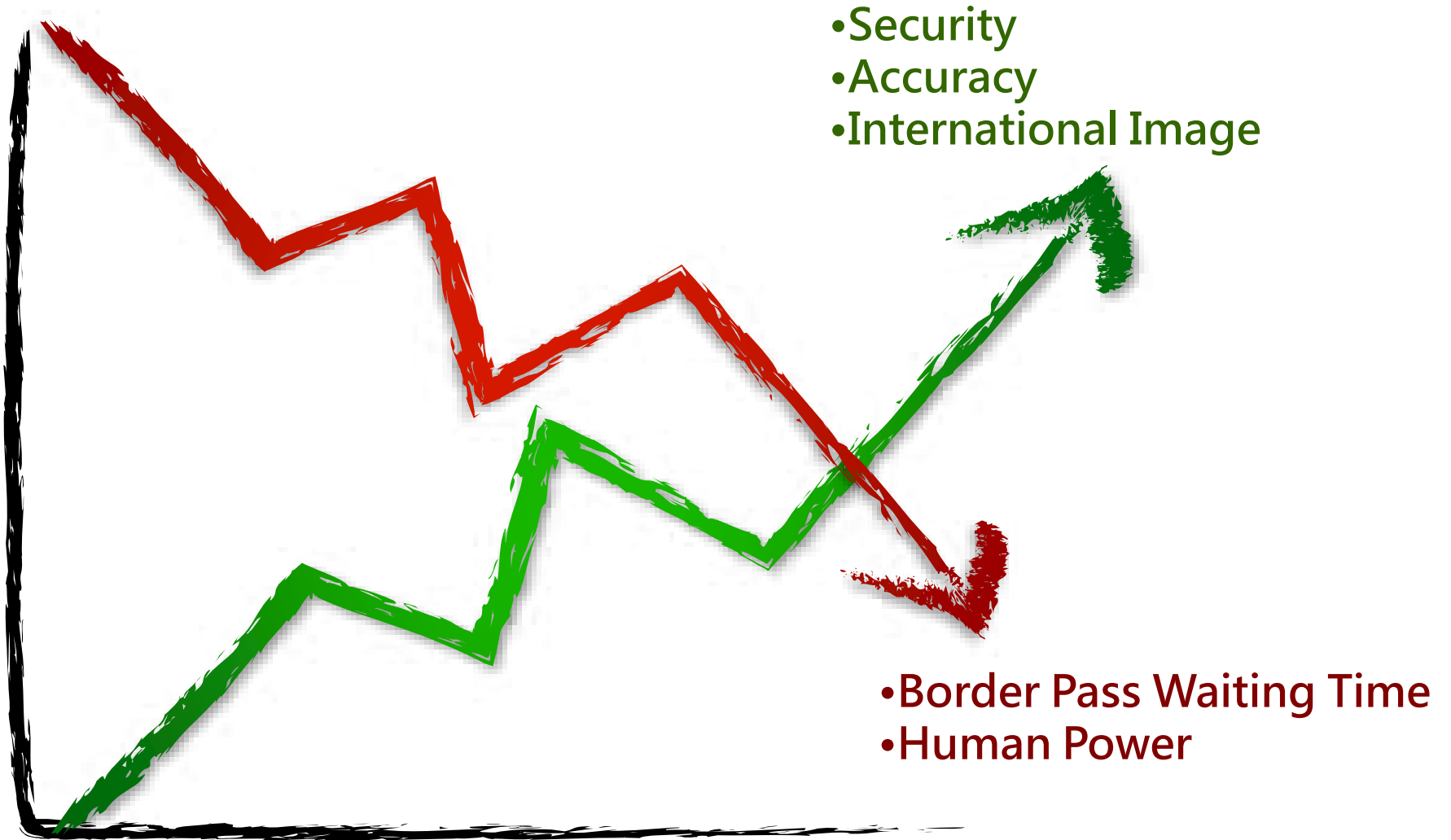


UAE Land Border Passport Control



**Entrance  
For  
Aaber  
Card Holders  
Only**

# Quantitative Index



# Potential Business - Smart City Market in Europe



Global Smart City Market –  
A \$1.5 Trillion Market Opportunity by 2020  
More than 50% smart cities are from Europe  
and North America

Source:

Forbes Smart City List, Innovation City Index, Specific Smart City Project Websites for each city, Frost and Sullivan, Sep 6, 2013

# e-gate/e-border solution for European borders

Serbia and Montenegro have asserted the formation of a joint independent state, but this entity has not been formally recognized as a state by the United States.



# Award Winning Record



2016 Taiwan Smart City System Award



2014 Taiwan Information Application Award



2014 Middle East ICT Best Choice ME Award

# Contact Information

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