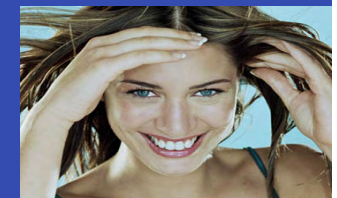


2nd Symposium on ICAO-Standard MRTDs, Biometrics and Security

Airport Security and Biometrics

Yemmi Agbebi, MBA
Group Director *for* Innovation
Manchester Airports Group, UK

MRTD Symposium
ICAO Headquarters, Montréal
6 – 7 September 2006



Talk Outline

- ✱ 9/11: How Fate & Science Combined To Promote Biometrics
- ✱ ICAO's Global Vision for Biometrics
- ✱ Airport Biometrics 101: "State of Play at Airports Worldwide"
- ✱ Biometrics: Critical Challenges
- ✱ Biometrics & Personal Privacy
- ✱ Conclusions

Manchester Airports Group, UK

Some Quick Facts....

Total Group Airports	
Scheduled	16,694
Charter	10,897
Total	27,591
Manchester	
Scheduled	13,192
Charter	8,915
Total	22,106
Nottingham East Midlands	
Scheduled	2,690
Charter	1,501
Total	4,192
Bournemouth	
Scheduled	651
Charter	177
Total	828
Humberside	
Scheduled	160
Charter	304
Total	465



- Manchester - 3rd Largest UK & 10th Largest European Airport

Total Group Pax 2005: 28 Million Pax

- Manchester: 22.1 million
- Nottingham EMA: 4.2 million
- Bournemouth: 1.03 million
- Humberside: 0.46 million

9/11: How Fate & Science Combined to Accelerate Biometrics



Fate & Science Make Strange Bedfellows

- ✱ 9/11 - Undoubted Catalyst
- ✱ Pre 9/11: Handful of Trials at:
 - Ben Gurion, Israel (Hand)
 - Charlotte, USA (Iris)
 - Chicago O'Hare (Fingerprint)
 - Keflavik, Iceland (Face)

ICAO's Global Vision for Biometrics & MRTDs

ICAO Showed Determined Leadership Post 9/11



✱ ICAO Reiterated Global Biometric Vision 1/2

- Interoperability
- Retrievability to 10 Years (Document 9303)
- Technology Specification
- No Proprietary Elements



✱ 2002 Berlin/2003 New Orleans Resolutions 2/2

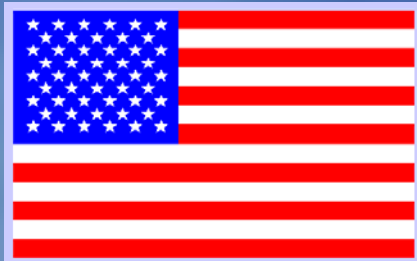
- Face - globally interoperable biometric
- Iris & Fingerprint – additional biometric
- Contactless IC Media (New Orleans Resolution 2003)

ICAO's Global Vision for Biometrics & MRTDs

Many Countries & Organisations with Global Reach
Are Actively Supporting ICAO's Biometrics Vision



Simplifying Passenger Travel



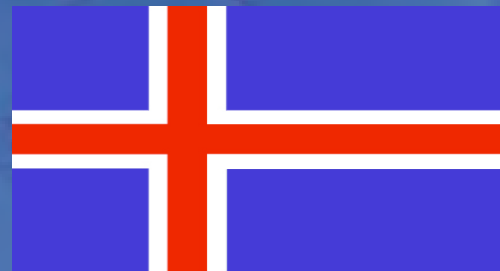
**European
Union**



DUBAI (UAE)



HONG KONG



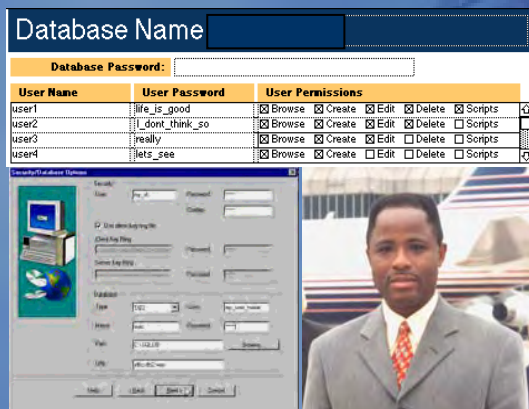
ICAO MRTD, BIOMETRICS, ID, Etc...

Wide Range of Security Measures at Airports
for Border Control, Access Control and Safety & Security



✳ Biometrics

✳ MRTDs



✳ ICAO ID Cards & RFID Access Control

ICAO & ACI – MRTD Milestones

ACI policy position supporting ICAO MRTD programme and use of ICAO Standards for MRTDs and Biometrics etc.



- ✓ ACI Governing Board approved Position Paper Nov. 2005
- ✓ ACI Encourages all Airports to use ICAO Standard
- ✓ ACI Supports Worldwide use of ICAO Doc. 9303 for MRTD and Biometrics specifications including:
 - ✓ ICAO Standard for Border Control
 - ✓ ICAO Standard Check-in & Boarding (PAX Facilitation)
 - ✓ Security Access Control

Airport Biometrics 101

Dominant Airport Biometrics



Fingerprint



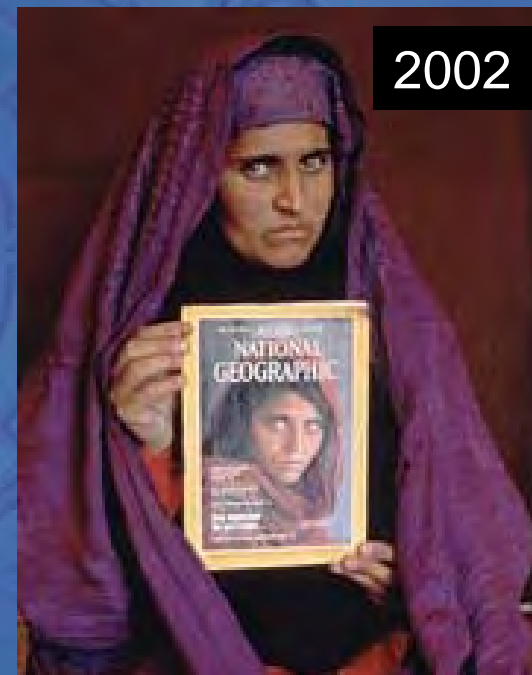
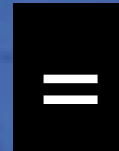
Face



Iris

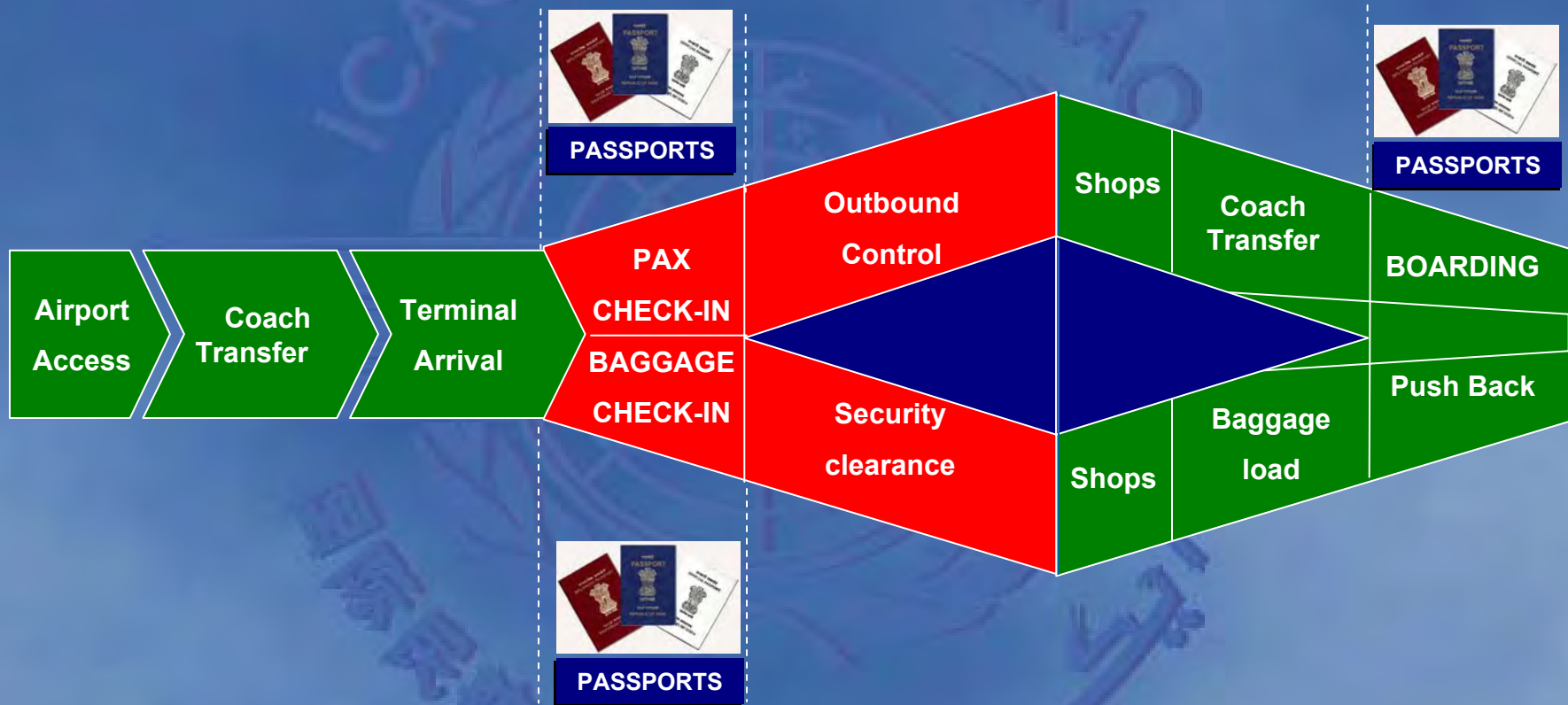
Airport Biometrics 101

Iris Fast Becoming Accepted As Alternative Airport Biometrics
The Compelling Case of SHARBAT GULA, *National Geographic*



- ✿ To establish 100% that *Sharbat Gula* was the girl photographed 17 years earlier, National Geographic obtained verification through iris-scanning and face-recognition technologies.

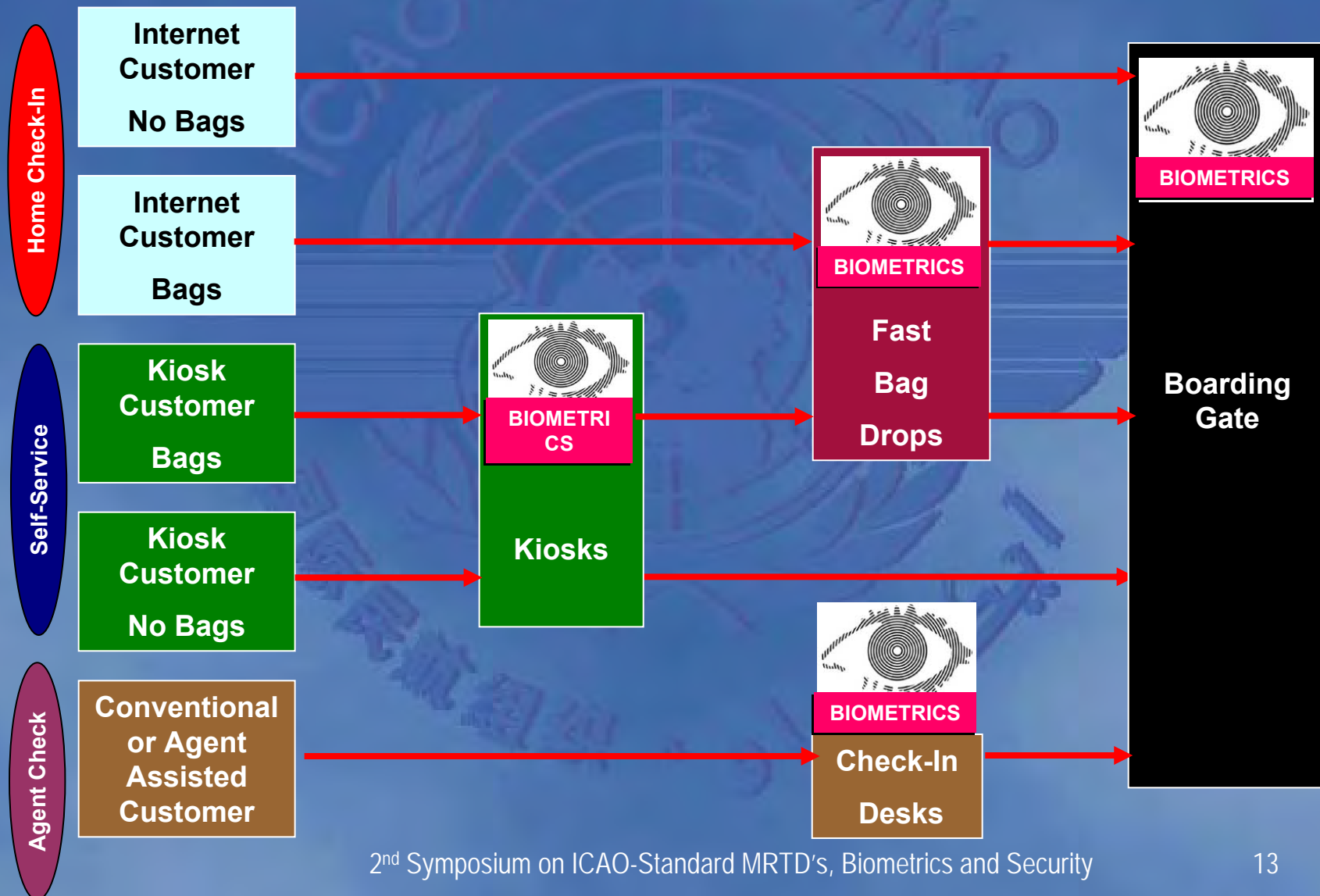
Airport Biometrics 101



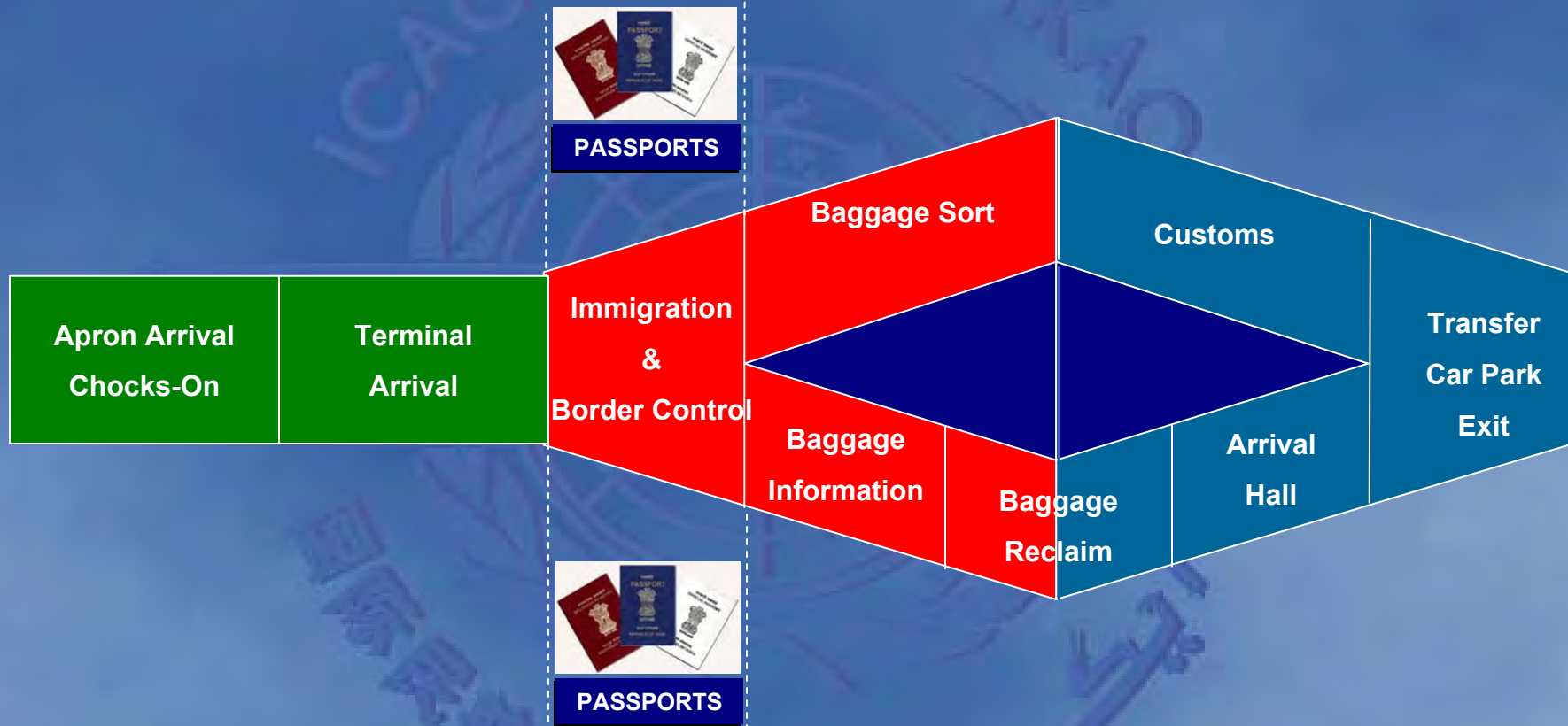
AIRPORT DEPARTURE: OLD BUSINESS MODEL

Airport Biometrics 101

AIRPORT DEPARTURE: NEW BUSINESS MODEL



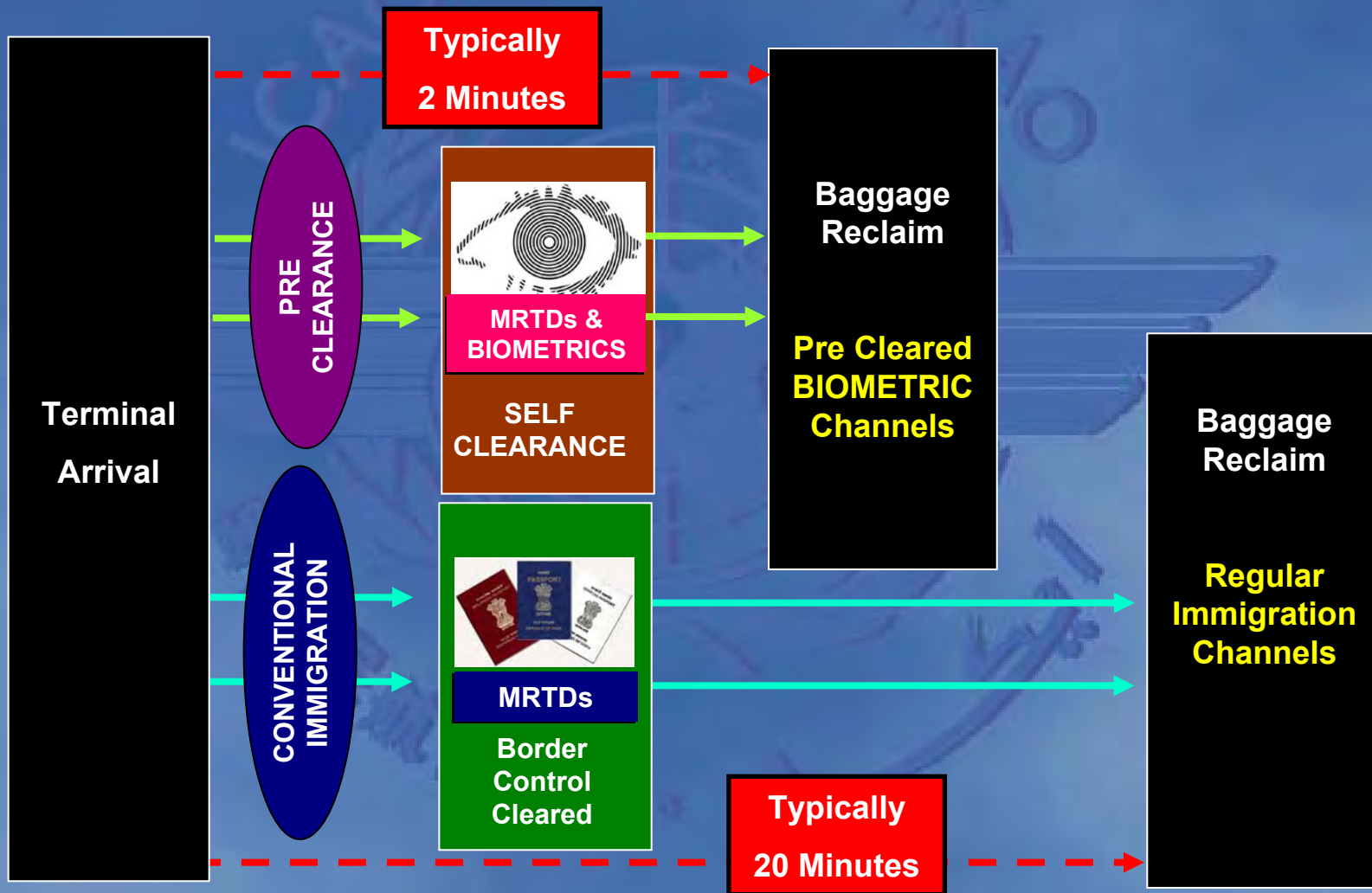
Airport Biometrics 101



AIRPORT ARRIVAL: OLD BUSINESS MODEL

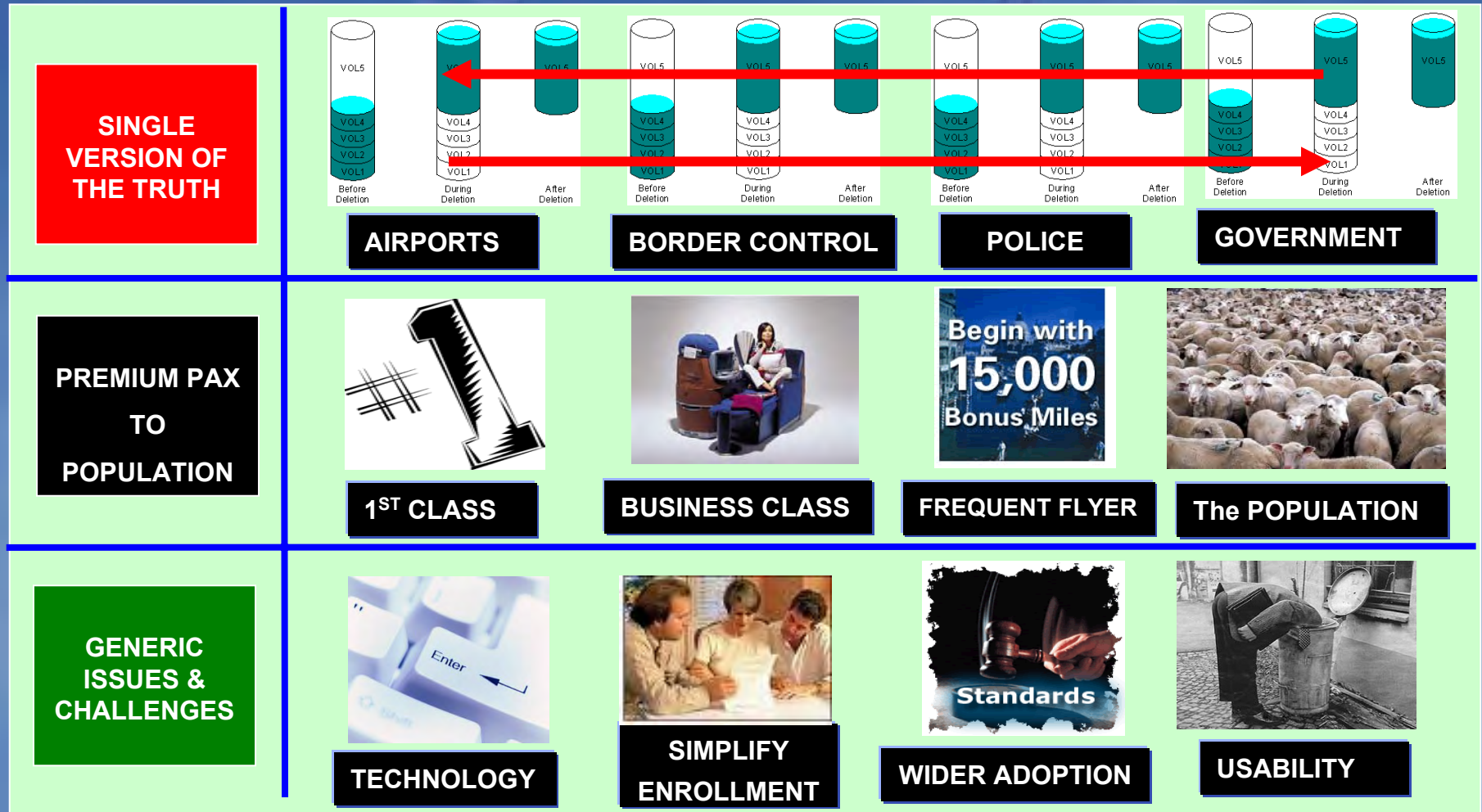
Airport Biometrics 101

AIRPORT ARRIVAL: NEW BUSINESS MODEL



Biometrics: Critical Challenges

Obstacles & Challenges Facing Biometrics



Biometrics & Personal Privacy

One View of Privacy



“If you want to travel on the airline system, you give up your privacy. If you want your privacy, don't fly. Flying is voluntary”

*Robert Crandall, former CEO
American Airlines, April 2002.*

Biometrics & Personal Privacy

Another Equally Valid View of Privacy

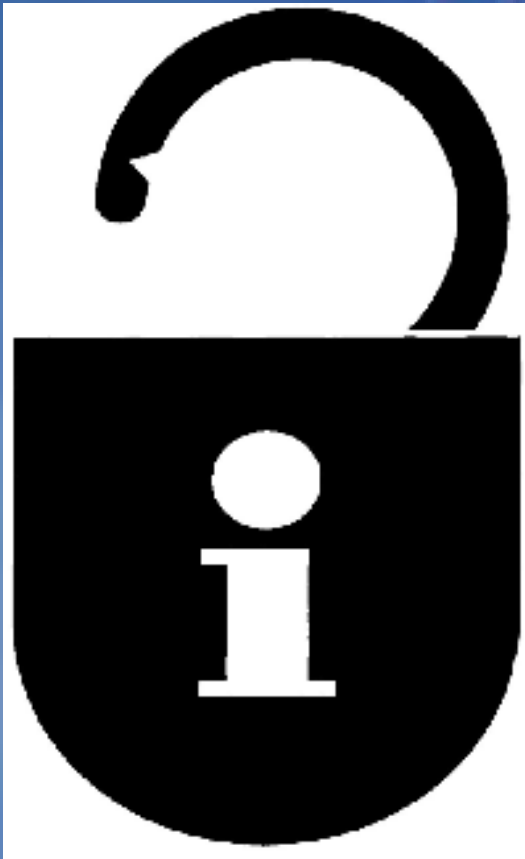


✱ “I don't want to be on the [Watch] list. I want to fly and see my grandma...”

Edward Allen, a 4 year-old boy & US citizen somehow placed on the TSA no-fly list four years after 9/11! Reported in 'USA Today' 10 January 2006.

Biometrics & Personal Privacy

We are Custodians With a “Duty of Care”

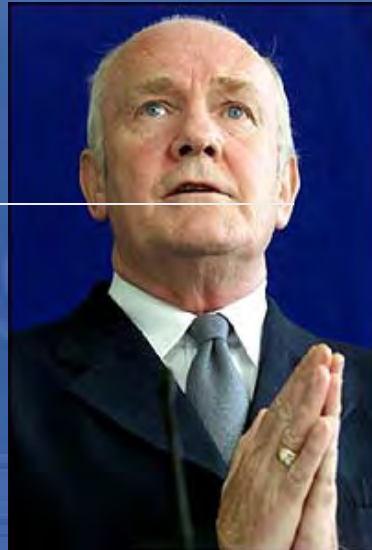


- ✱ Public Education
- ✱ Professional Diligence
- ✱ Respect for Personal Liberty
- ✱ Data Protection
- ✱ Public Safety Imperative

Conclusions – 1/4

Special report
The terrorism threat to Britain

The Guardian 10 Aug. 2006



“.. we are probably in the most sustained period of severe threat since the end of World War II”

John Reid, MP. UK Home Secretary, 9 August 2006



London Heathrow 10 August 2006

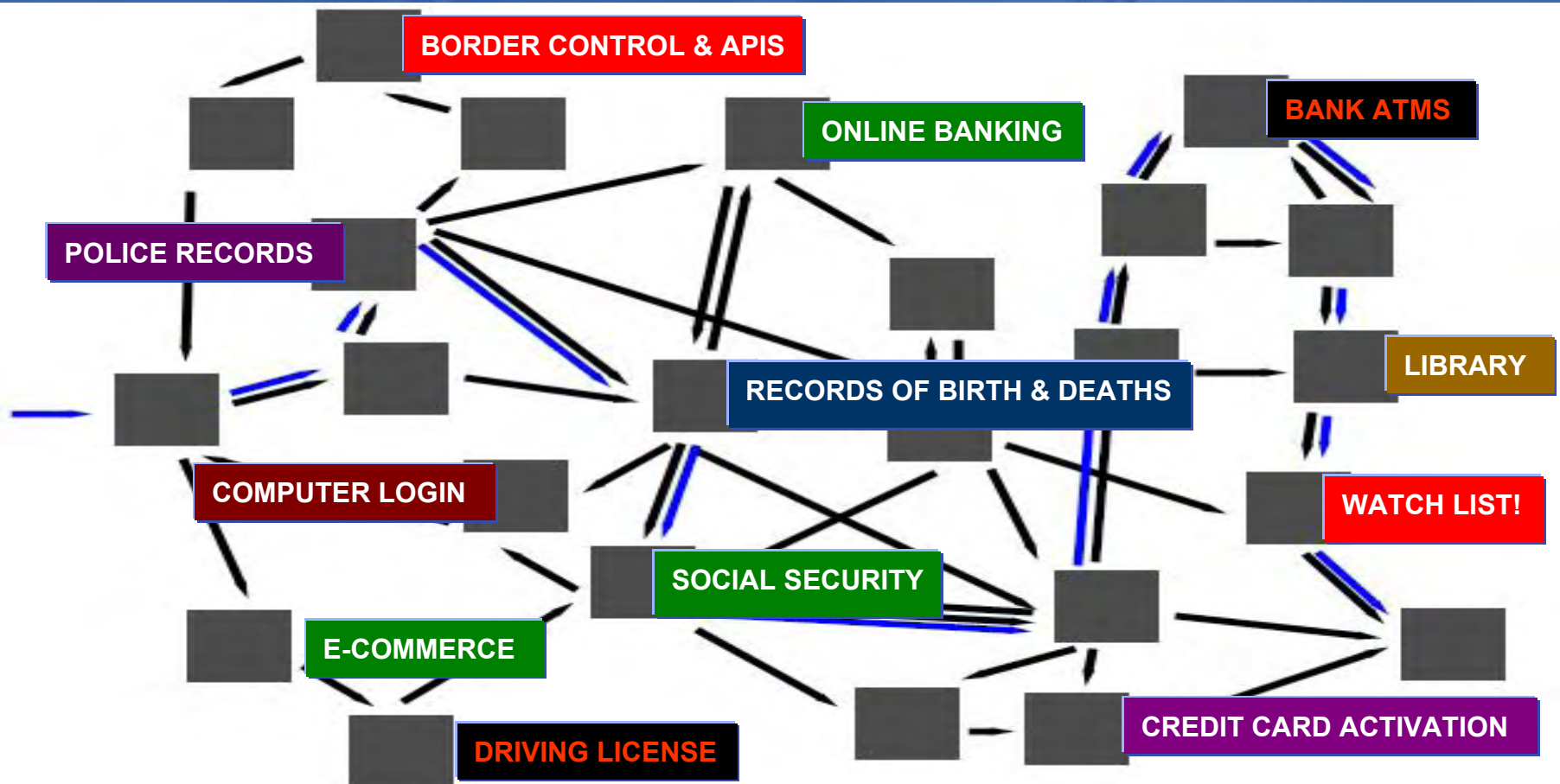
10 August 2006, Just Another Average Thursday at Airports!

Terror ‘Plot to blow up UK planes flying to the United States’ foiled. BBC 10 Aug. 2006

BBC

Conclusions 2/4

- ✿ Beyond Aviation, Several opportunities exist for Cohesive, Joined Up Thinking on National & International Strategies for Biometrics



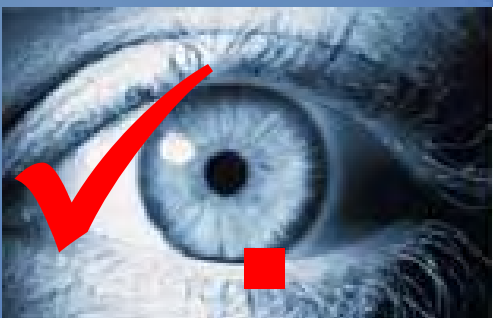
Conclusions 3/4

Trends At Many Airports Worldwide for Staff is... “WHO Are You?”



☀ What you KNOW: PIN, PASSWORD...

☀ What you HAVE: ICAO ID Card, Smart Card, Passport...



☀ WHO you are!: BIOMETRIC (Iris, Face, Hand, Finger...

Conclusions – 4/4

☀ My Final Thoughts... Seeing is NOT always believing!



Спасибо!

Gracias!

Spas!

Danke!

Shukriya!

Tak!

Esè!

Thank You!

Asante!

Gros Gott!

Todah!

Xièxie

yemmi.agbebi@manairport.co.uk

Dank u wel!

Go raibh maith agat !

Obrigado!

Grazie!

Ngiyabonga

Dhanyavad!

Terima Kasih!

Merci!