

# THALES

## ***Current and Future Challenge for Border Control***

PSCE (Athens, Greece) – November 24th 2016

[www.thalesgroup.com](http://www.thalesgroup.com)

OPEN



# Current Context

## Increasing flow of travelers

- Travelers on the rise globally
- Portion in Europe



## Migrant Crisis

- Unforeseen flow
- Impact on Border control policies
- Screening of population needed



## Security: Critical momentum

- Terrorist attacks
- New type of threats



## Biometrics on Smartphones

- Fingerprint / iris
- Apple / Samsung / MasterCard / ...



| Efficient flow @ entry/Exit points | Increase level of security |  
| Understand new type of citizen usage of technology |

OPEN

THALES

# Innovations to address current and future market challenges

## More security through use of biometrics

- Secure identification
- Fusion of the biometric data
  - Respect Privacy

## Data Digitalization

- Accompany technologic transition
  - Connected citizen
  - Physical Vs Digital

## Efficiency at Border Control

- Intelligence & Cooperation
- Automated Border Control
  - Biometrics



# THALES

## Before Traveling

DOCUMENT ISSUANCE AND PRE-RISK ANALYSIS

[www.thalesgroup.com](http://www.thalesgroup.com)

OPEN



# BioNET: Schengen VISA applications for France

## Customer Challenge

- **Acquisition & transmission** of **Schengen Visa** applicants data from 30 countries
- Provide a **"trusted"** solution (quality/security) to be operate by third parts

## THALES Answer

- More than 350 Biometric enrolment stations (Hardware & Software)
- Secured data transfer to Ministry central site through internet
- Thales IDentity Management System for central server workflow & AFIS
- Users management system with certificates and PKI
- BioNET central server administration and supervision

## Customer Benefits

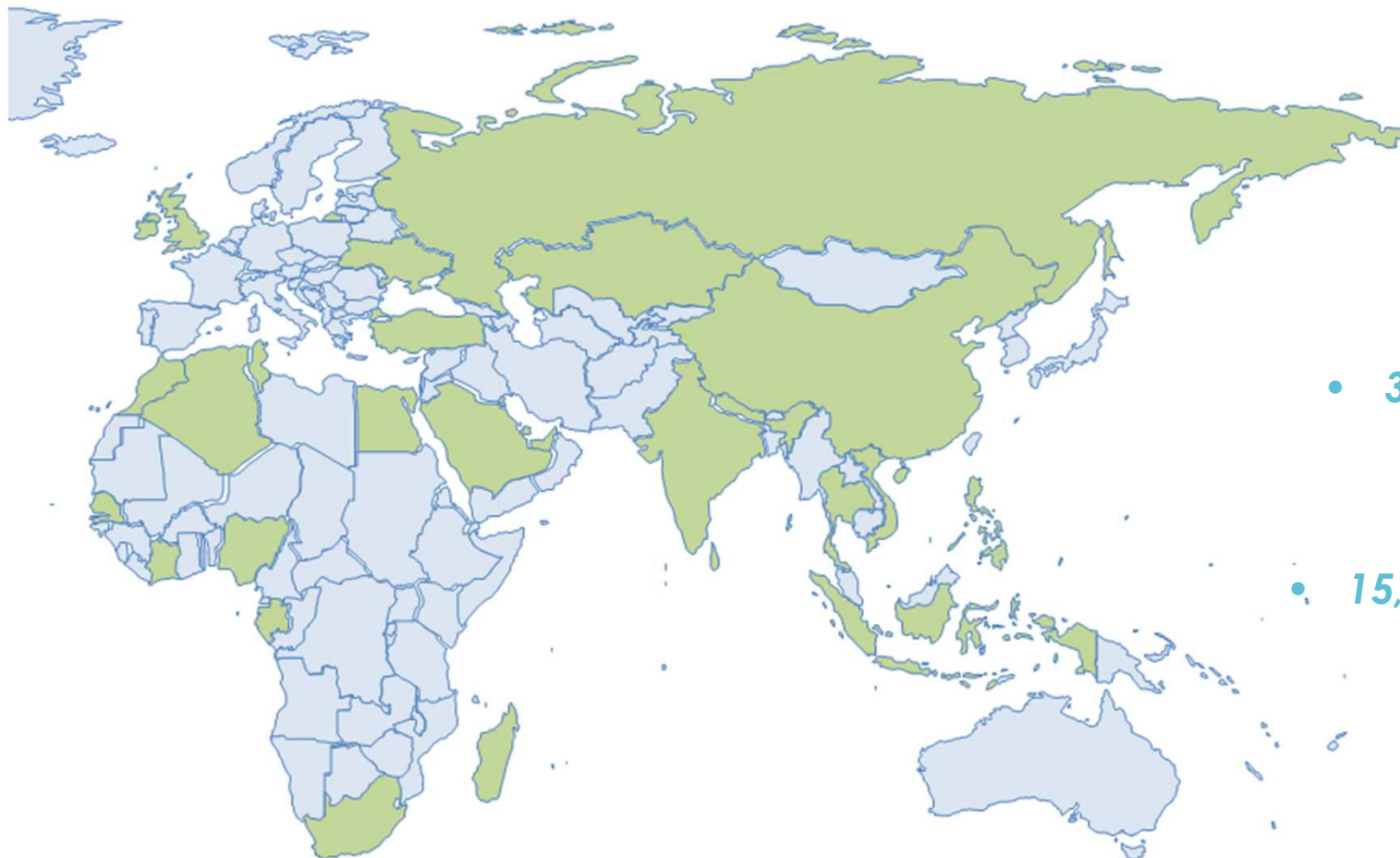
- Highly efficient front-end solution (handling 15,000 request per day)
- Focus on best fingerprint captures with low rejection rate
- Biometric Matching System of the EU VIS
- Safeguarding the privacy by the use of "weak link" technology preventing unauthorized access to biometric data

OPEN



## BioNet: Deployed systems

Ce document ne peut être reproduit, modifié, adapté, publié, traduit, d'une quelconque façon, en tout ou partie, ni divulgué à un tiers sans l'accord préalable et écrit de Thales - ©Thales 2015 Tous Droits réservés.



- 3 Service partners
- 365 stations deployed
  - 25 countries
- 15,000 requests per day

OPEN

**THALES**



# Document Security: BioQR

## Objectives:

- Increase the **level of security** of the documents by integrating **biometrics** information
- **Cost effective** solution for large deployment

## QR code: main advantages

- Generated in **high density** and allowing the information **encoding** (including Biometrics)
- **Rapid decoding** of the stored content using a **standard camera** (i.e.: smartphone camera)
- Advanced **cryptography** mechanism: the stored **data are highly secured**
- **Biographic** and **biometrics** data of the citizen **are controllable** (picture and fingerprint for instance)



OPEN

# Data analytics: Support challenges faced by BC

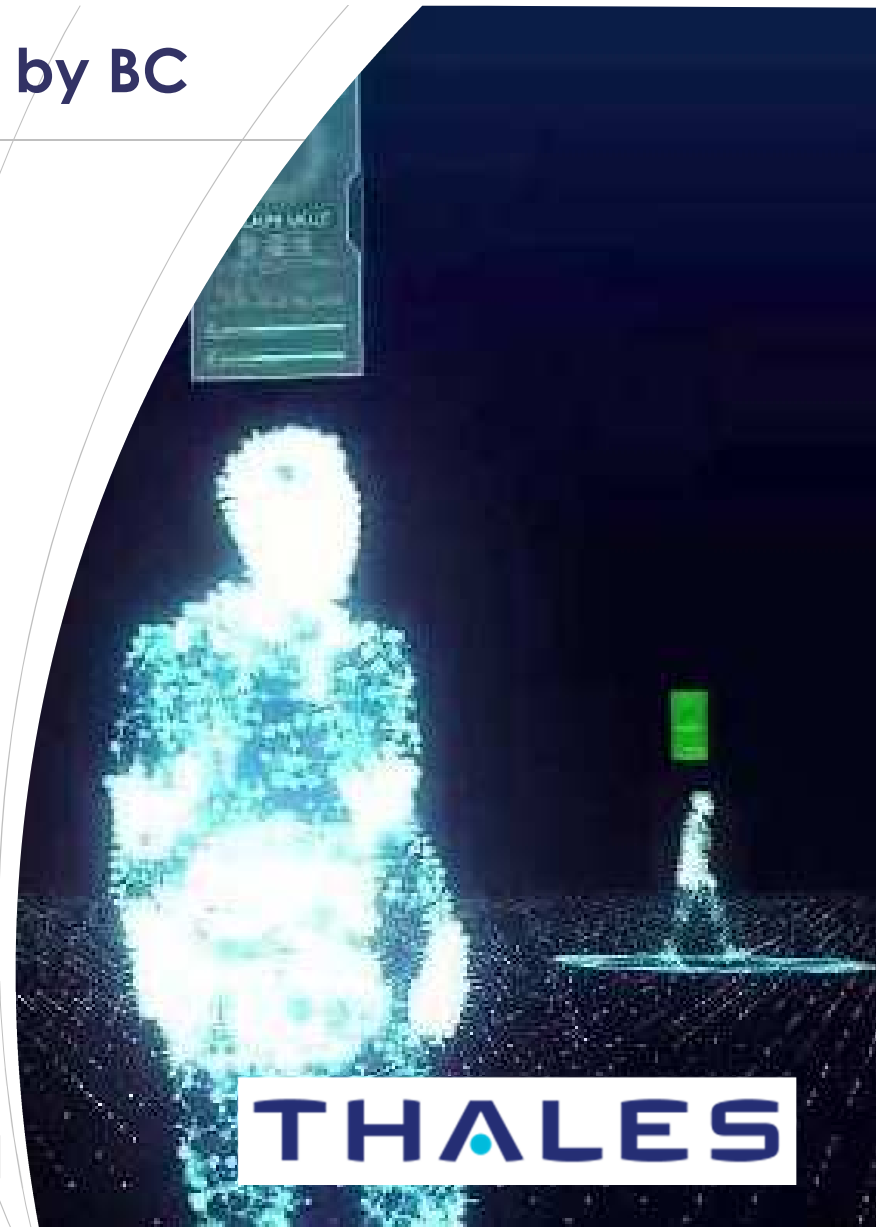
## Agencies are facing a complex environment

- High increase of the number of travelers worldwide
- Governmental budget under pressure
- New level of threats that are difficult to detect

## Create value from the rich data available

- Passenger Name Record
  - Name, gender, passport details, date and place of birth, payment/billing information
- Immigration and VISAS systems
- International Watch-Lists
- National ID systems
- Criminal Databases
- And many other
  - Advanced Passenger Information System
  - Social Networks

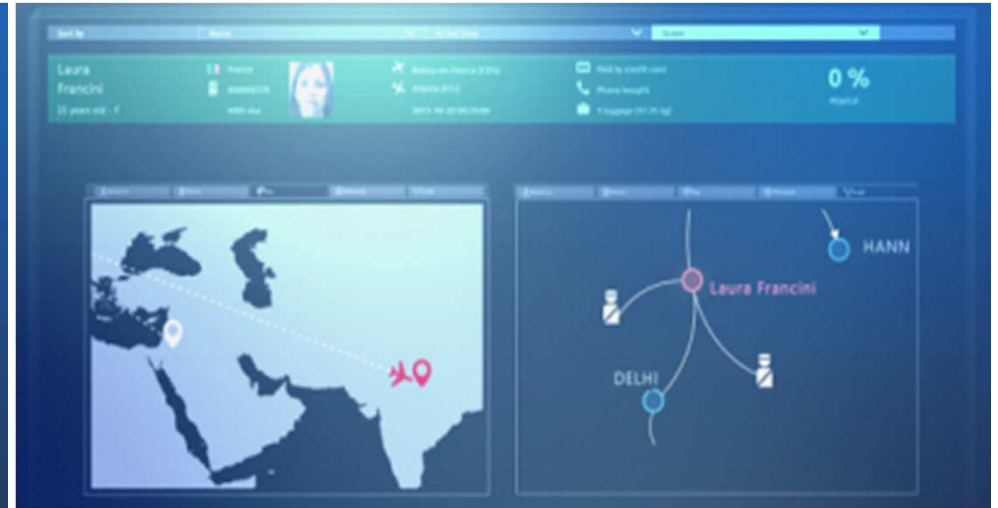
OPEN



**THALES**



# Big Data Analytics - Overview



- A innovative display of complex and large data sets
- Configuration of rules
- Patented algorithm for automatic detection of atypical profiles

Identify atypical profiles that are difficult to find using traditional methods

OPEN

THALES

# THALES

## At the Border

FRONT LINE EQUIPMENTS FOR ENROLMENT AND CONTROL USING BIOMETRICS

[www.thalesgroup.com](http://www.thalesgroup.com)

OPEN



# Equipments for Citizen/traveler control

## Comprehensive suite of control equipment



Fixed



Mobile



eGates



Kiosk



Smartphone

### Provide a mobile control capability for Border control or other Governmental agencies

- Control of the document and of the holder using biometrics

### User friendly solution

- Ergonomic HMI for the operator and process oriented
- Screen for the candidate
- Fast in processing

### Secured communications and data transfer

### Connection to national and/or International databases and watchlists



# Automatic Border Crossing: eGates

## Main Feature

- Modular design
- multi-biometry verification
- Solution compliant with ICAO standards
  - Capture and verification
- Tail-gating detection
- NFC integration

## Optimized passenger experience

- Fast process
- Autonomous solution
- Feedback screen for the passenger for indication



OPEN

THALES

# Lyon International Airport (France)

## Customer Challenge

- Comply with the new policy conducted by French authorities
- Face constant increasing number of passengers
- Reduce the time of controls on travelers

## Thales solution

- 5 eGates for Automatic Border crossing
  - “Two steps” process with e-passport check and fingerprint verification
  - Accurate biometric checks with single fingerprint scanner (including anti-spoofing technology and full compatibility with BioApi 2.0 standard)
  - Optimized design (footprint, ergonomony, safety and security of traveler)

## Benefits

- Improved Passenger Experience
- High performing biometric matching accuracy
- System is PARAFE compliant (French eGate norm)



OPEN

# Automatic Border Crossing: Kiosk

## STEP 1 Passenger & Document Authentication

### Self Biometric Clearance Kiosk

#### Touch Screen

- User guidance

#### Full page passport reader

- Biographic data
- Passport & ePassport reading, authentication and control



#### Face and Iris Sensor

- Facial comparison with photo included in the passport to authenticate holder
- Iris capture of the traveler to be used later at the immigration

#### Boarding Pass issuance

- Biometric boarding pass issuance including a high definition QR code integrating captured biometrics and biographic information

#### Fingerprint Sensor

- Capturing and controlling up to 10 fingerprints

## BENEFITS

- Perform all security controls and authentication at step 1 and before step 2
- Control more passenger with limited human resources
- Improve passenger journey
- Increase population eligible for such eGates programs
- Secure storage and exchange of biometric data



# Uzbekistan: Passport Upgrade and Border Control

## Customer Challenge

- Upgrade Passport to ICAO compliant ePassport
- Register full population biometrics
- Improve Ministries exchange of citizen information
- Improve Border control for national & foreigners

## THALES Answer

- Biometric enrolment stations (Hardware & Software) to register 18 millions citizens
- Identity Management system (Thales' AFIS and Workflow management) to manage 18 millions records between 3 states organizations
- Check 20.000 biometrics per day
- Equip 70 border entry points and interface with border agency

## Customer Benefits

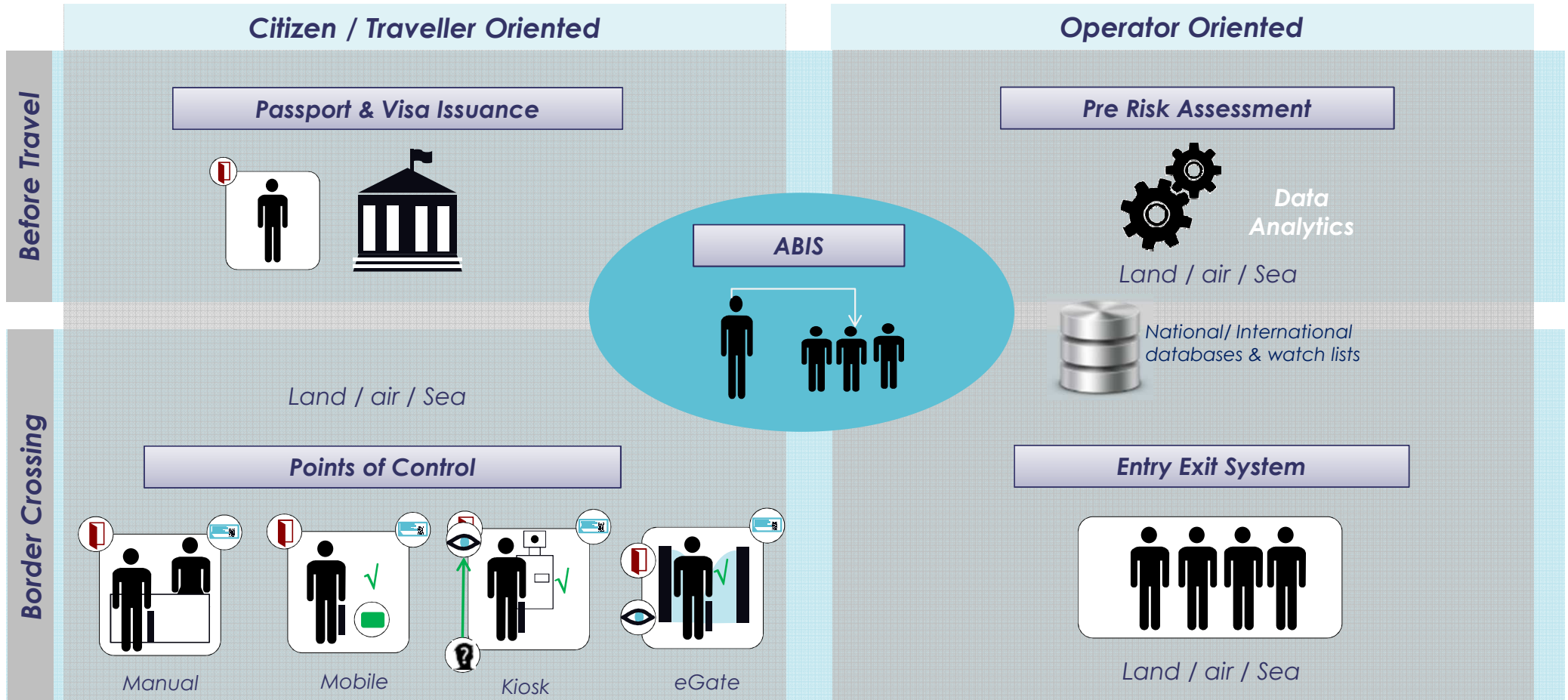
- Capacity to register and build a reliable and performing biometric base of the population
- Complete Entry/Exit System enabling the Government to have a comprehensive view on its Border control

OPEN



# Border Control Solutions Mapping: All stakeholders

Ce document ne peut être reproduit, modifié, adapté, publié, traduit, d'une quelconque façon, en tout ou partie, ni divulgué à un tiers sans l'accord préalable et écrit de Thales - @Thales 2015 Tous Droits réservés.



OPEN

# THALES



## End Of Presentation

THANK YOU | QUESTIONS?

[www.thalesgroup.com](http://www.thalesgroup.com)

OPEN

