



**ICAO Ninth Symposium and Exhibition on MRTDs,
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Frontex – A Regional Perspective: the ongoing work of the Frontex on ABCs in Europe

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Outline

- About Frontex Research & Development
- Why ABC?
- ABC Deployments in Europe
- ABC Presents Opportunities
- ... And Challenges
- The EU Policy Perspective
- What Is Frontex Doing That You Can Benefit From?

About Frontex R&D



EU Institutions

- Elevate user needs to EC

Industry & Academia

- Transmit needs of final users
- Support FP7 (topics def., Adv. Boards)
- Meeting with industry
- In house research
- Cooperation with third countries

Member States

- Help overcome barriers
- Free consultation to MSs
- Networking
- Dissemination of knowledge & solutions

All

- Develop best practices
- Assess future needs
- Liaise with third countries and int. organizations

How to check at the border increased passenger flow in a cost effective way, while meeting security needs and providing a successful travel experience?

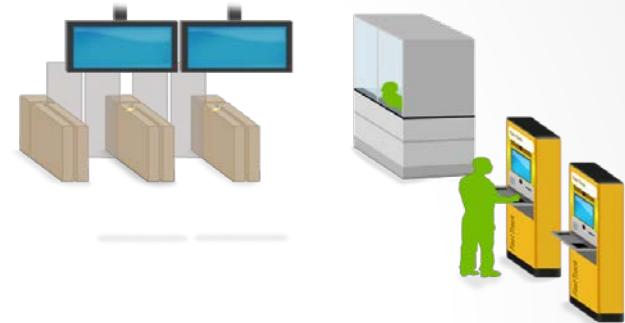


From manual border checks ...

Who

EU nationals carrying biometric ICAO 9303 compliant ePassports (no enrollment needed).

Also non-EU citizens when in combination with RTP.



... to supervised self service

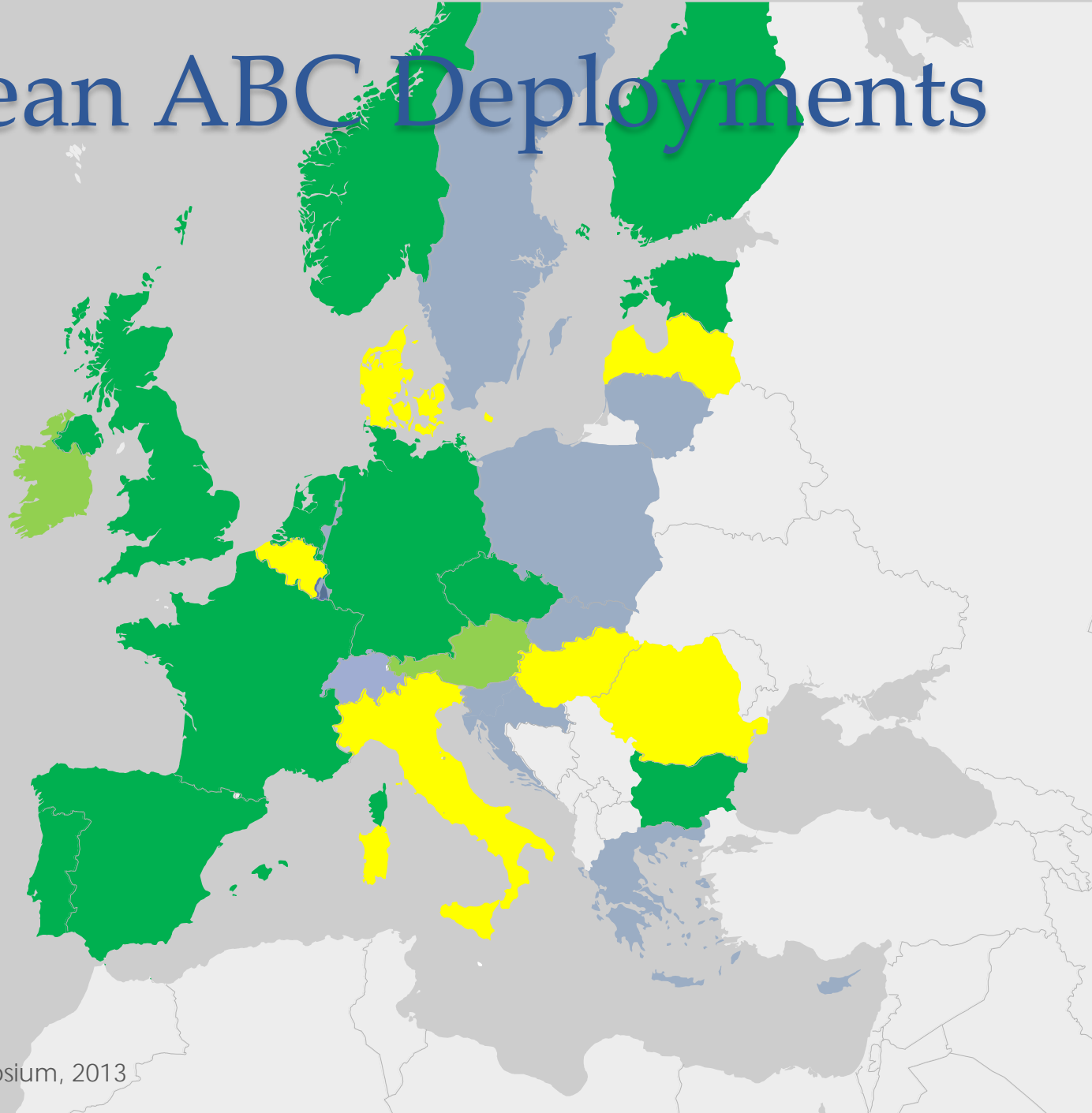
How

Identity verification based on facial biometric marker.

Maybe also fingerprints in the future.

European ABC Deployments

- ▲ Operational
- ▲ Pilot
- ▲ Planned



ABC Presents Opportunities

Facilitation while maintaining security

- Greater traveler satisfaction due to shorter queuing times
- More time available for identifying and handling persons of interest
- Automated facial recognition may be better than human, and is consistent where the human may be not.
- Always checks the chip and validates it with certificates (stronger security)
- The chip control makes ABC less dependent on optical security features than manual border control.

Cost effectiveness

- Throughput through the filter augmented without increasing headcount
- Smaller footprint at the airport
- A minimum number of users is required to reach the break even case

... And Challenges

Agency (internal)

- Change management (roles, training, career path)
- Overcoming reluctance

Operational

- Willingness to use ABC gates (signage, instructions, education)
- Harmonization (topologies, look & feel, user experience)

Technical

- Speed vs Reliability (FAR, FRR)
- Secure TD authentication (up-to-date certificates)
- Vulnerabilities (spoofing, impersonation)
- ABC for sea and land borders

Regulatory

- ABC for non-EU citizens
- Non discrimination (age limits, reduced mobility)

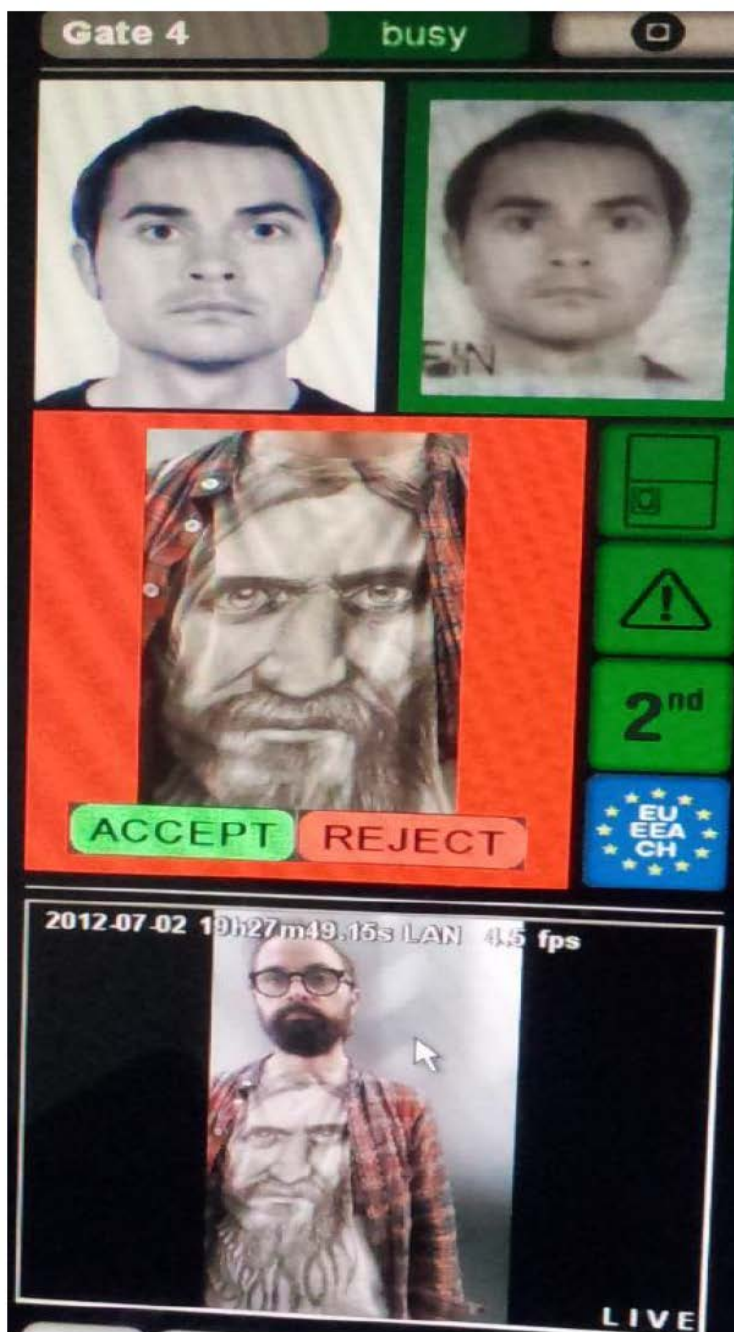
Maturity of ABC Systems



ABC systems, just like ATMs, must provide a better harmonized user experience
ABC systems are currently in an early maturity stage but evolving fast



Picture stored in chip



Picture printed on biographical page

Picture from facial recognition camera

Picture from surveillance camera

The EU Policy Perspective

Smart Borders Package (EC Communication
28 February 2013):

- **Entry Exit System (EES)**

- It is a centralized system that electronically registers entries and exits of non-EU citizens in order to calculate the authorized stay of each traveler and reduce overstaying

- **Registered Traveller Programme (RTP)**

- It is a program to provide fast and simple border crossing for frequent traveling and pre-vetted non-EU citizens who enroll voluntarily. It is similar to most existing national RTPs but with an EU-wide reach

What Is Frontex Doing That You Can Benefit From?

- Leading the **EU ABC WG** to share experience and elaborate best practice guidelines.
- Developing **ABC best practice (technical and operational) guidelines** for more effective, efficient and harmonized use of ABC
- Supporting international and European standardization bodies
- Managing an **Operational Research simulation tool**, to support the configuration and dimensioning of an ABC system
- Managing a **Cost Benefit Analysis** tool to support decision making process
- Organising **ABC Workshops** accompanied by a demonstration
- Organising **Global ABC Conference and Exhibition**
- Providing **on-demand support to MSs (and other stakeholders)** on all ABC related matters

THANK YOU

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