

FastPass - A HARMONIZED, MODULAR REFERENCE SYSTEM FOR ALL EUROPEAN AUTOMATED BORDER CROSSING POINTS



FastPass in facts

27 partners
4 years duration
Started on 1.01.2013
Coordinated by **AIT** Austrian
Institute of Technology
15,5 million € budget

Objectives

- Improve **security, throughput and efficiency** of ABC processes in EU
- Develop and demonstrate a **user friendly solution**, both for **border guards** and **passengers**
- **Harmonisation and innovation**: develop one reference architecture serving many processes at the different types of borders and propose:
 - the first European solution for cars at land border with ABC;
 - the first solution for cruise ships;
 - a deep comparison of different approaches on air border crossing point.

Demo sites

Sea Border
Port of Piraeus,
Greece

Air Border
Vienna Airport,
Austria

Land Border
Moravita,
Romania

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RELEVANT TECHNOLOGIES

Travel Document Observation

- Improved optical and electronic **verification**
- **Doc teacher** functionality
- Additional security checks and **device security**

Biometric Identification

- **Fingerprint**: Development of two-finger fingerprint reader prototype, Innovative finger placement mechanism
- **Face**: Refined on-the-move face verification, Innovative Adomo® mirror technology, Indoor and outdoor acquisition
- **Iris**: Novel face-and-iris prototype, Multispectral iris capture sensor
Counter-spoofing: 3D based counter-spoofing for gate and kiosk
- **Novel biometrics**: Sclera segmentation, 3D periocular recognition

Gate Usability Design

- Border guard **usability module**
- Video management system
- eGate design (more glass, open appearance, modular build, flexible layout)

Security Assessment and Risk Mitigation

- Threat Modelling
- Risk Analysis
- Privacy Impact Assessment



An innovative and intuitive border guard interface



Possible new design of egates, by partners Magnetic and Gunnebo

