### automated border control



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of specification

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of specification of expectation

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of specification of expectation of accessibility / usability

#### automated border control

# of specification of expectation

of accessibility / usability

- accuracy and speed of biometric capture and processing, data capture from eMRTDs
- performance and safety of sensor mechanisms eg infra red, mmw
- mechanical and electrical performance and safety of barrier mechanisms
- Interoperability with other systems eg automated access and boarding

### automated border control

of specification of expectation of accessibility / usability

- transaction time versus accuracy
- mean time between failure, sensor reliability, software and mechanical components
- safety of devices for customers

#### automated border control

of specification of expectation of accessibility / usability

- standardised, consistent experience
- usability and signage, human-computer interface
- safety, privacy, accessibility for those with challenges

#### automated border control

Standards and recommended procedures (SaRPs)

#### automated border control

technical / engineering

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- technical / engineering
- biometrics

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- technical / engineering
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- travel documents

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- technical / engineering
- biometrics
- travel documents
- software

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- technical / engineering
- biometrics
- travel documents
- software
- interface

#### automated border control

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- technical / engineering
- ISO/IEC, CEN, NIST etc
- SITA, ARINC
- Integrators

#### automated border control

- biometrics
- ISO/IEC, CEN, NIST, FBI, DoD etc
- Academics, suppliers, governments, trade associations

#### automated border control

- travel documents
- ISO, ICAO, governments, suppliers, security printers
- ICAO-9303 e-Machine Readable Travel Documents first, second and 'n' generation passports and ID cards RFID data, SAC

#### automated border control

#### software

- ISO/IEC, CEN, DIN etc
- Microsoft
- Linux
- Apple
- Android...

### automated border control

#### interface

- ISO/IEC, Frontex, ICAO, IATA, suppliers, governments, port operators
- Signage, instructions to passengers, look-and-feel, common procedures, one or two gates, enrolled or walk-up?

#### automated border control

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#### technical / engineering

- barriers, turnstiles, gates, smart corridors, emergency, electrical/mechanical safety
- height and multiple-body detection, tailgating detection, left-baggage detection
- illumination

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#### biometrics

- biometric accuracy and performance, anti-spoofing capability
- false accept, false reject, failure to capture
- database size, matching performance
- interoperability
- upgrade / migration capability
- biometric vocabulary

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#### travel documents

- readability of MRZ, size and shape of document, security features in laminate etc
- RFID performance and compatibility
- RFID data consistency and structure, photo quality
- encryption and electronic certificates
- data security, SAC

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#### software

- quality, error rate, construction
- security against penetration
- usability / interoperability

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#### interface

- signage and wayfinding, icons
- accessibility for special needs passengers
- usability, human-computer interface
- fall-back and contingency
- rejected passengers
- enrolment facilities and procedures
- eligibility

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#### Plan of work

- establish a lowest level table of existing standards and recommended practices
- gap analysis with a list of desired standardisation
- what's missing
- worth doing?
- whose responsibility?
- who's paying?

### automated border control

#### mandate M487 project objectives

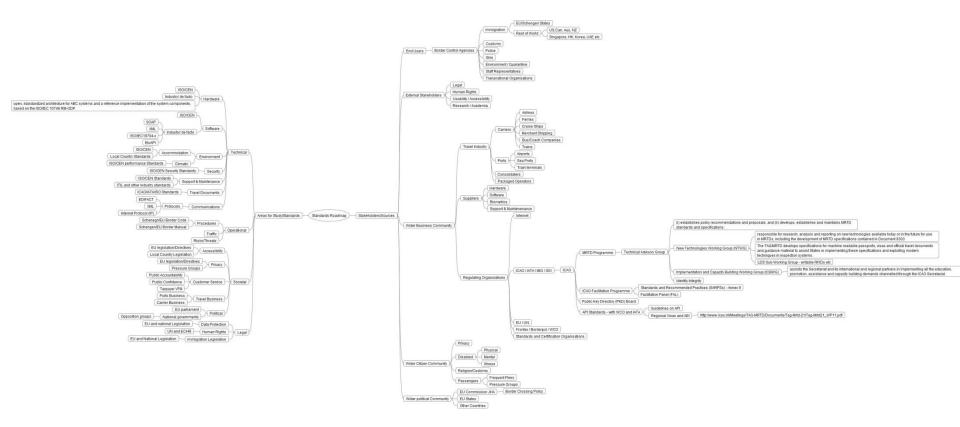
- "Phase 2 based on EC reaction to the output of Phase 1, to provide proposed standardisation work programmes with roadmaps related to the selected sectors."
- "Border security common technical and interoperability standards for automated border control systems, as well as standards for biometric identifiers.."

#### automated border control

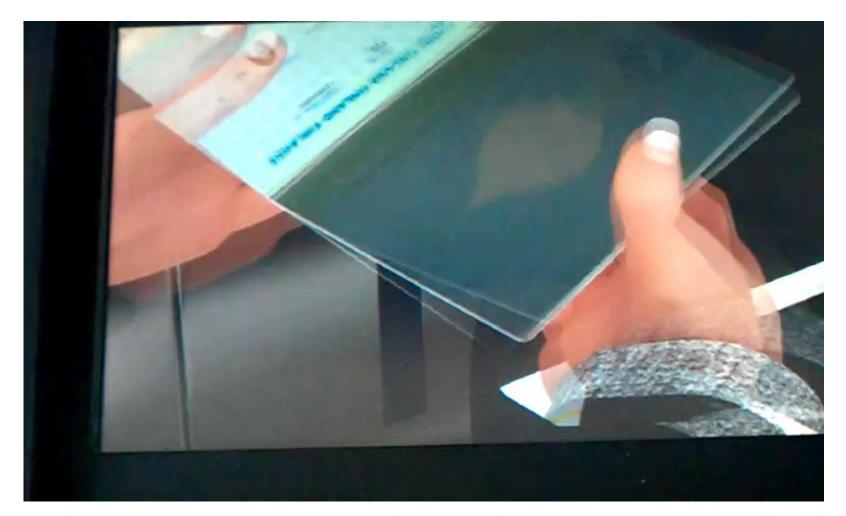
#### mandate M487 project objectives

- 6 month project
- delivers a plan for standards creation / updating for ABC
- managed by Netherlands Standards Agency NEN
- aims to assist EU business & industrial community

#### automated border control



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#### FastPass project objectives

- 4 year project
- coordinated by the Austrian Institute of Technology (AIT)
- prototypes for Vienna Airport, Polish-Ukrainian border, Mykonos
- 27 partners suppliers, academic, users
- urgent need for stakeholders / sources of information & experience

#### automated border control

#### FastPass project objectives

"modular, easy to integrate, optimized, next generation automatic border control solution ... secure, fast and comfortable border crossing ... European and frequent 3rd country travellers.

new technologies and processes ... harmonized concepts ... all types of border crossing points and all official identity e-Documents"

#### automated border control

#### Both projects

- need suggestions, advice, proposals
- from suppliers, border agencies, passenger representatives, carriers, port operators
- can be anonymous, sanitised

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automated border control

just the beginning...

### Discussion

What will prevent ABC working *EVERYWHERE* in the EU?

What

STANDARDS

are missing that
would make agreement between
suppliers and agencies easier?

