



Experiences in Introducing the new German ePassport



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ePassport Interoperability Test Event

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German Passports: Fact Sheet

- **Decentral application** in about 6.000 local passport authorities
 - 5.700 of these authorities scan the photographs and send the application forms electronically to the passport producer
- **Central production** in Berlin
 - Passport is based on highest **security standards**
 - e.g. watermarks, fine line structures (guilloches) and special colour gradations in the print
- About **2 million passports** issued per year
- **10 years** validity (for citizens younger than 26 years: 5 years validity)



The German Electronic Passport (ePass)

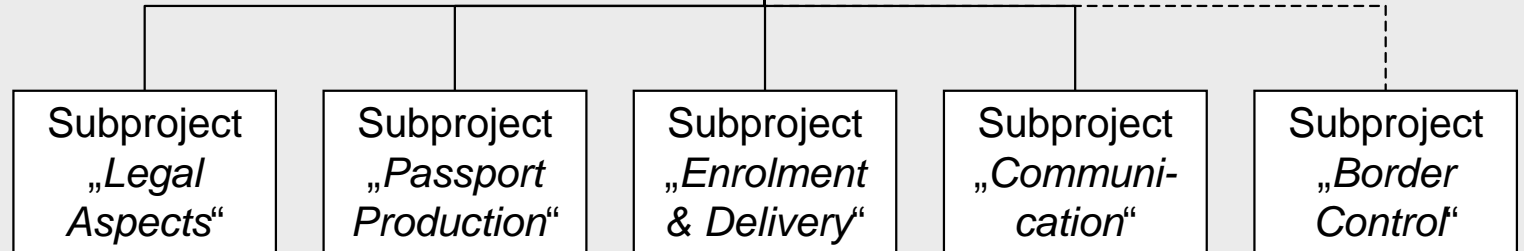
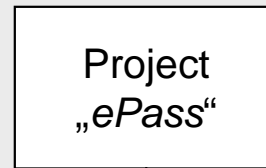


- **Introduction of biometrics in two phases** according to *EC Council Regulation No. 2252/2004 on standards for security features and biometrics*
 - **Phase I:** Include **facial image** in storage medium
 - **Phase II:** Add two **fingerprints** in storage medium
- The facial image was included in **November 2005**
- Fingerprints are going to be included in **2007**



ePass: Project team members

Responsible for central coordination and overall management of the project: Division IT 4



In charge:	Division IT 4	Division IT 4	Division IT 4	Division IT 4	Division B
Participants:	-	BKA BSI	Federal Foreign Office BKA BSI	BSI BKA Bundesdruckerei	Division IT 4 BKA BSI Bundesdruckerei

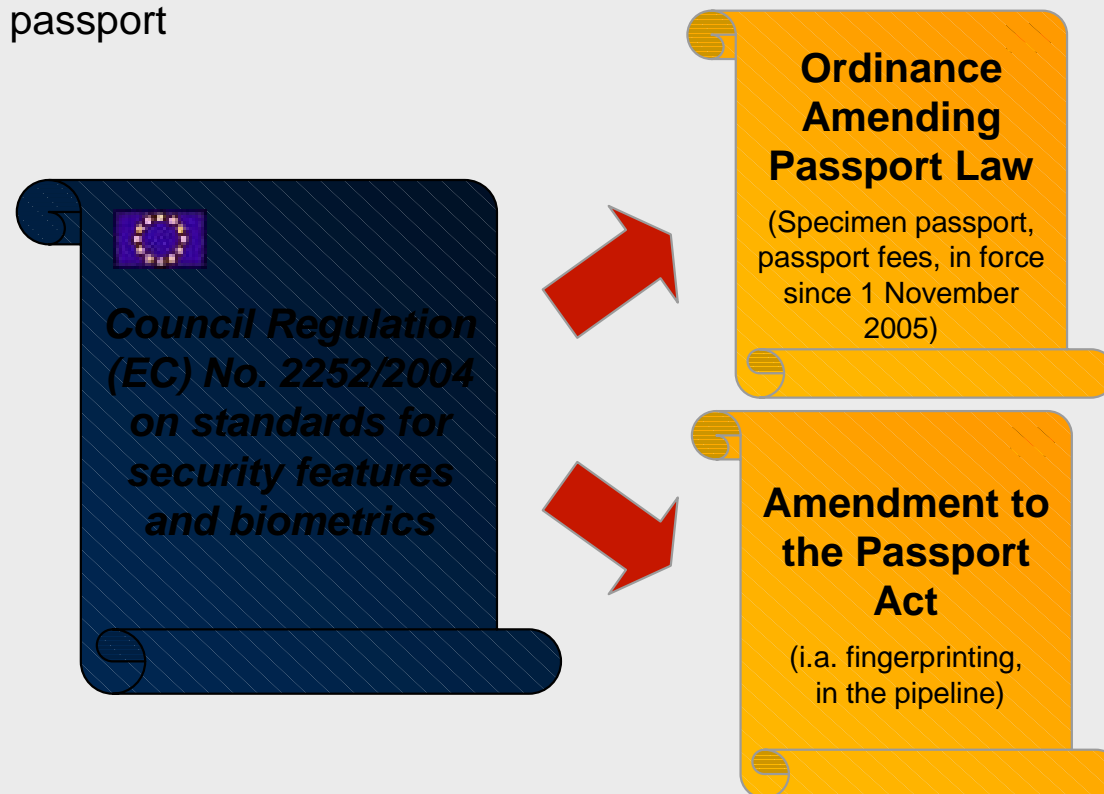
BKA: Federal Criminal Police Office of Germany
BSI: German Information Security Agency
Bundesdruckerei GmbH: National passport producing company



ePass: Project areas (1)

- **Subproject „Legal Aspects“**

Aim: provision of the required legal base to introduce the new electronic passport





ePass: Project areas (2)

- **Subproject „Passport Production“**
Aim: laying the necessary technical foundations for the central production of the ePass
- **Subproject „Passport Enrolment and Delivery“**
Aim: laying the necessary technical and organizational foundations for local enrolment and delivery of the ePass
- **Subproject „Communication“**
Aim: ensuring comprehensive and objective information on the new electronic passport in the parliamentary area as well as for passport offices and citizens
→ www.ePass.de
- **Subproject „Border Control“**
Aim: laying the necessary foundations for controlling electronic passports at the borders



Phase I: Explaining the benefits of using chips and biometrics in passports

Added security:

- 1) Better **protection against counterfeiting and falsification** through chips and electronic signatures as an additional security feature
- 2) Making it more difficult for persons other than the actual holder to use authentic passports fraudulently:

***To date:** visual controls by officers who compare the picture and match additional particulars such as age, colour of eyes, and size of the person presenting the document with the statements made therein*

***New ePass feature:** additional computer-aided checks may be conducted on the spot, matching the biometric features stored in the chips with those of the person presenting the identity document*

→ **Application of common high security standards throughout Europe guarantees a higher security level**



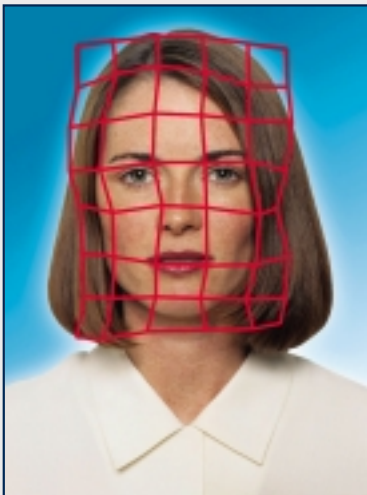
Phase I: Changes for Regional Passport Authorities

New Procedures:

- Quality assurance of photographs according to the new ICAO standard directly in regional passport authorities

New Equipment:

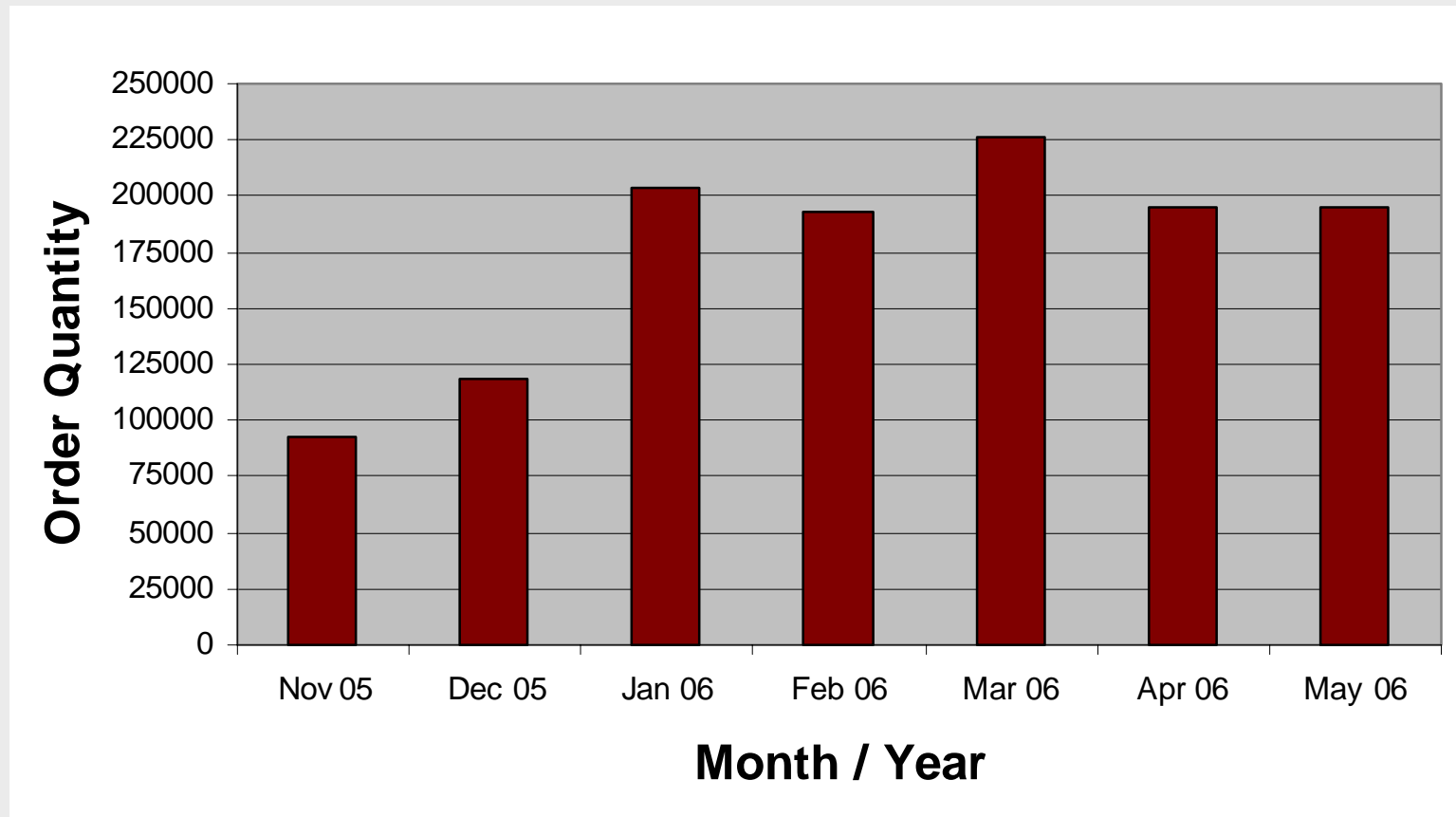
- Photo samples and positioning devices
- Software tool for quality assurance of photographs
- ePass reader to check the data stored in the chip
(presentation tool for citizens)





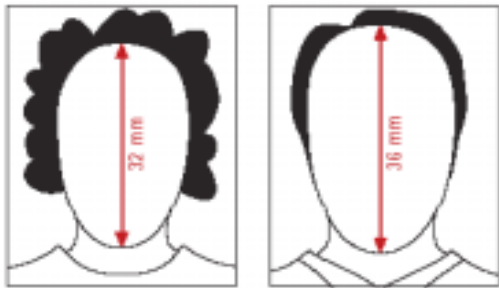
Phase I: ePass Order Quantity since Nov 2005

- About 1,5 Million ePass applications since Nov 05
- Application rates depend on holiday seasons





Phase I: Introducing the new ICAO Photo Guidelines



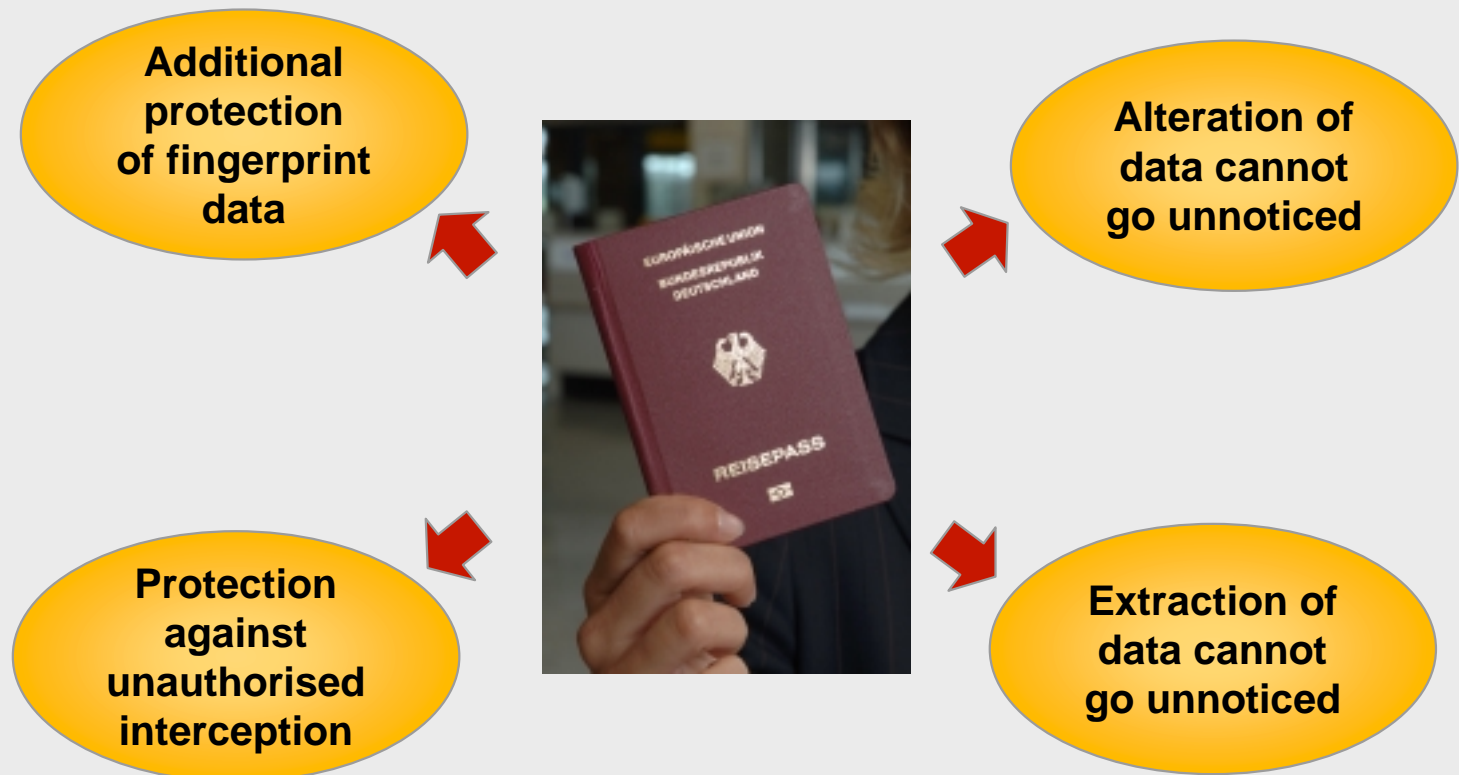
**New: Full frontal
image required**

Experiences gathered sind Nov 2006:

- Share of those submitting traditional profile pictures is low
 - Most pictures taken by professional photographers are fit for biometrics
 - **The following pictures are problematic:**
 - photos taken in photo booths
 - photos taken by non-professionals
 - photos of children
- Attention: For children, lower standards are accepted!*
- The **rejection rate has reached normal level** (estimate of about 5%) within the first three months after the introduction of the electronic passport



Phase I: Explaining Data protection and IT security





Heading Phase II: Changes for Regional Passport Authorities

New Procedures:

- Enrolment of two fingerprints in regional passport authorities
- Quality assurance of the fingerprints directly in regional passport authorities
- Submission of passdata only electronically
(no paper applications any more)

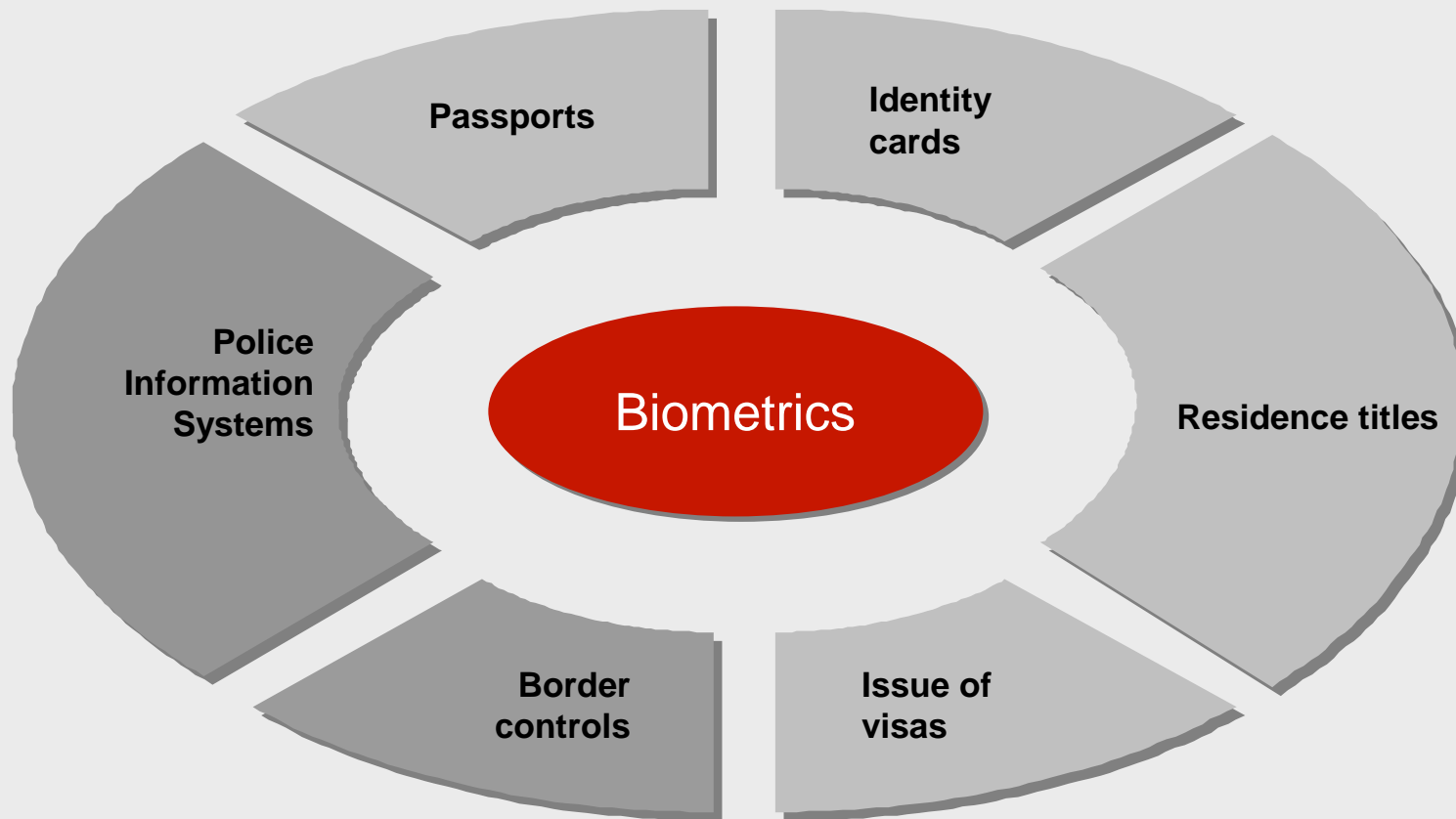
New Equipment:

- Fingerprint scanner
- Software tool for quality assurance of fingerprints
- Update of ePass readers





Heading an Integrated Strategy of Biometrics





**Thank you very much for
your attention!**