

# BENEFITS FROM CENTRAL BIOMETRICAL SYSTEM

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# AGENDA

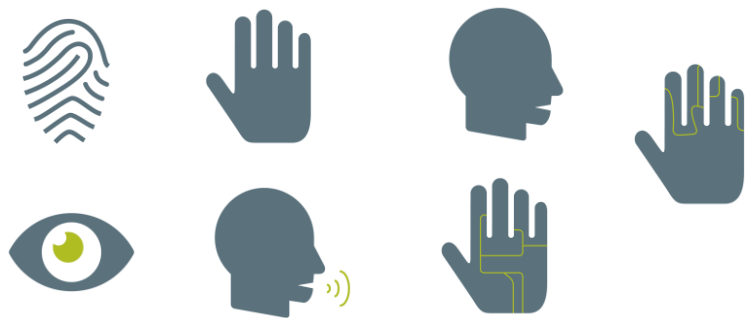
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- ❖ Common standard for data processing between different government organizations
- ❖ Minimize possibility to use false identity
- ❖ Minimize possibility illegally get identity documents with different identities

# WHAT IS BIOMETRICS?

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## Most used biometrics modalities



## Main benefits from using biometrics

- ❖ you can't lose it
- ❖ it is unique
- ❖ spoofing is difficult
- ❖ perfect audit trail

## Major forces driving biometrics

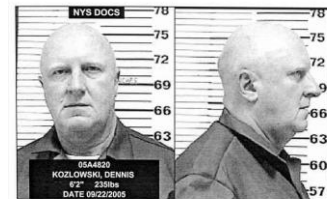
- ❖ impossible to remember increasing amount of passwords
- ❖ requirement for multi-factor authentication
- ❖ availability of biometrics hardware (example mobile devices with built in biometrics readers)

# LATVIA CENTRAL BIOMETRICAL SYSTEM

# BEFORE



COMPLETELY  
SEPERATE  
SYSTEM



Sex - MALE Race - WHITE Hair - BLD/GY Eyes - BLUE DOB - 11/26/1946  
SCAR RS FACE, LT, WRIST

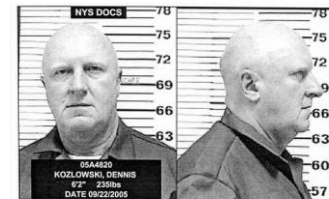
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ID CARD # - 00086723

# AFTER



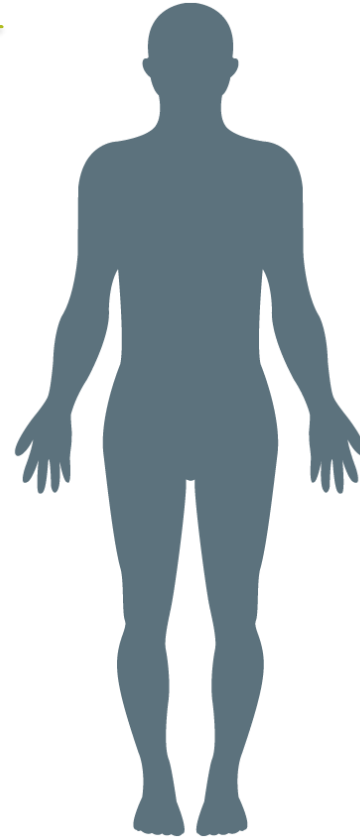
COMPLETELY  
UNIFIED  
SYSTEM



Sex - MALE Race - WHITE Hair - BLD/GY Eyes - BLUE DOB - 11/26/1948  
SCAR RS FACE, LT. WRIST  
NYSID # - 1959351J ID CARD # - 00086723

# BDPS

Biometric  
Data  
Processing  
System



Fingerprints



Latent palmprints



Latent fingerprints



Palmprints



## BENEFITS

- ❖ Common standards for Biometrical data exchange between different organizations
- ❖ Common requirements for Biometrical data quality
- ❖ Prevention from identity theft
- ❖ Quick clarification of person's identity

«The aim of BDPS is to determine the physical identity and prevent the use of another person's identity for malicious intent»

**The Information Centre  
of the Ministry of the Interior**



# BIOMETRY IN LATVIA



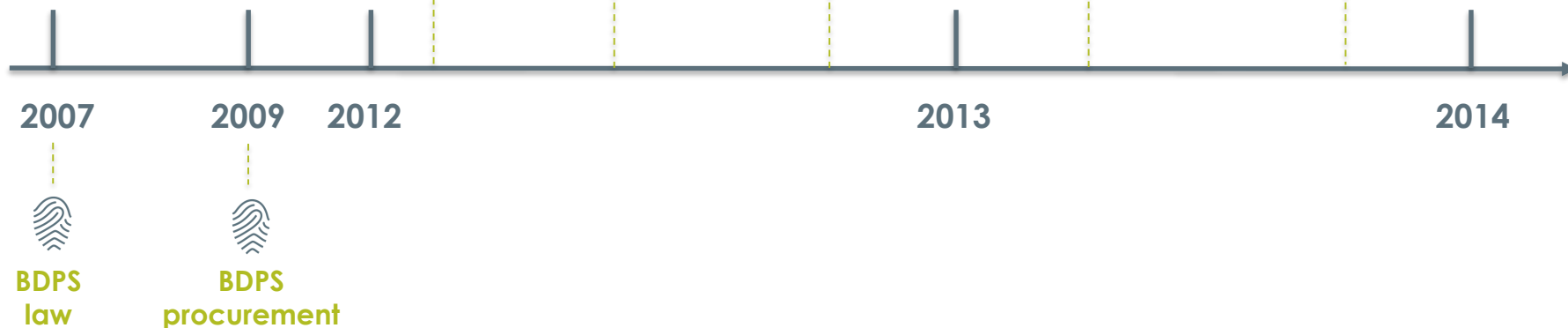
The Information Centre  
of the Ministry  
of the Interior  
**launch  
the system**

The Office of  
Citizenship and  
Migration Affairs  
**verification,  
identification,  
enroll**

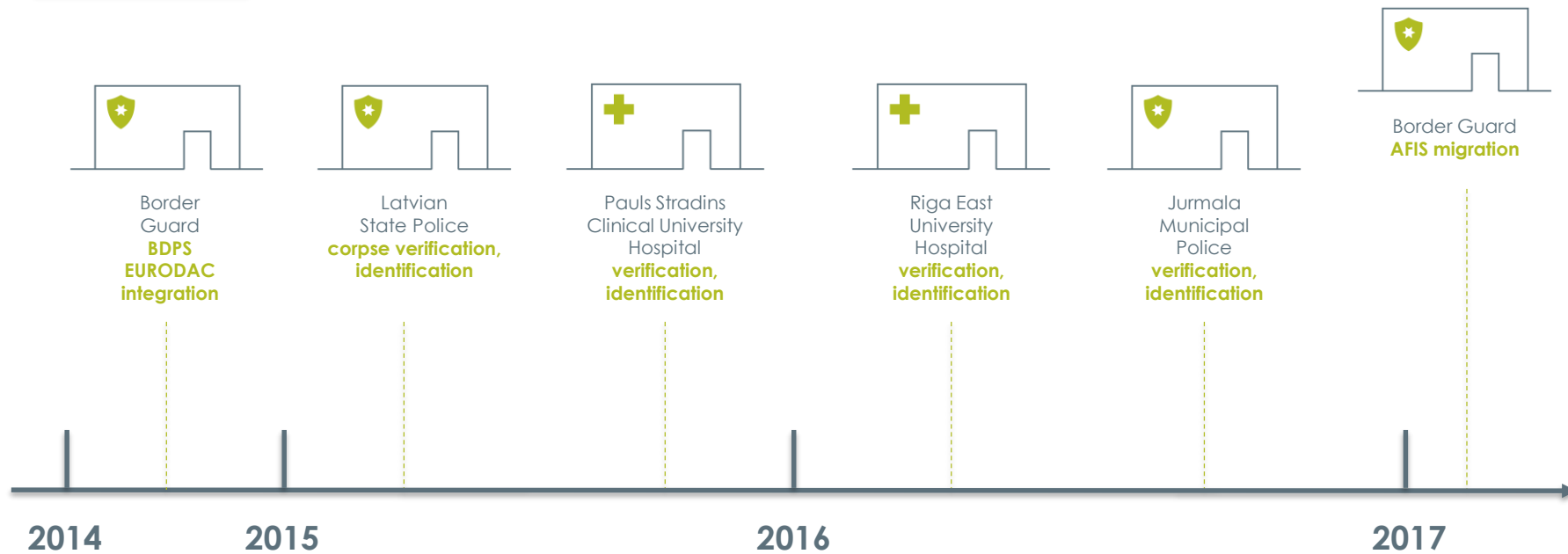
Information Center  
of the Ministry of  
The interior  
**BDPS PRUEM  
integration**

Road  
Traffic Safety  
Directorate  
**Enroll, verification**

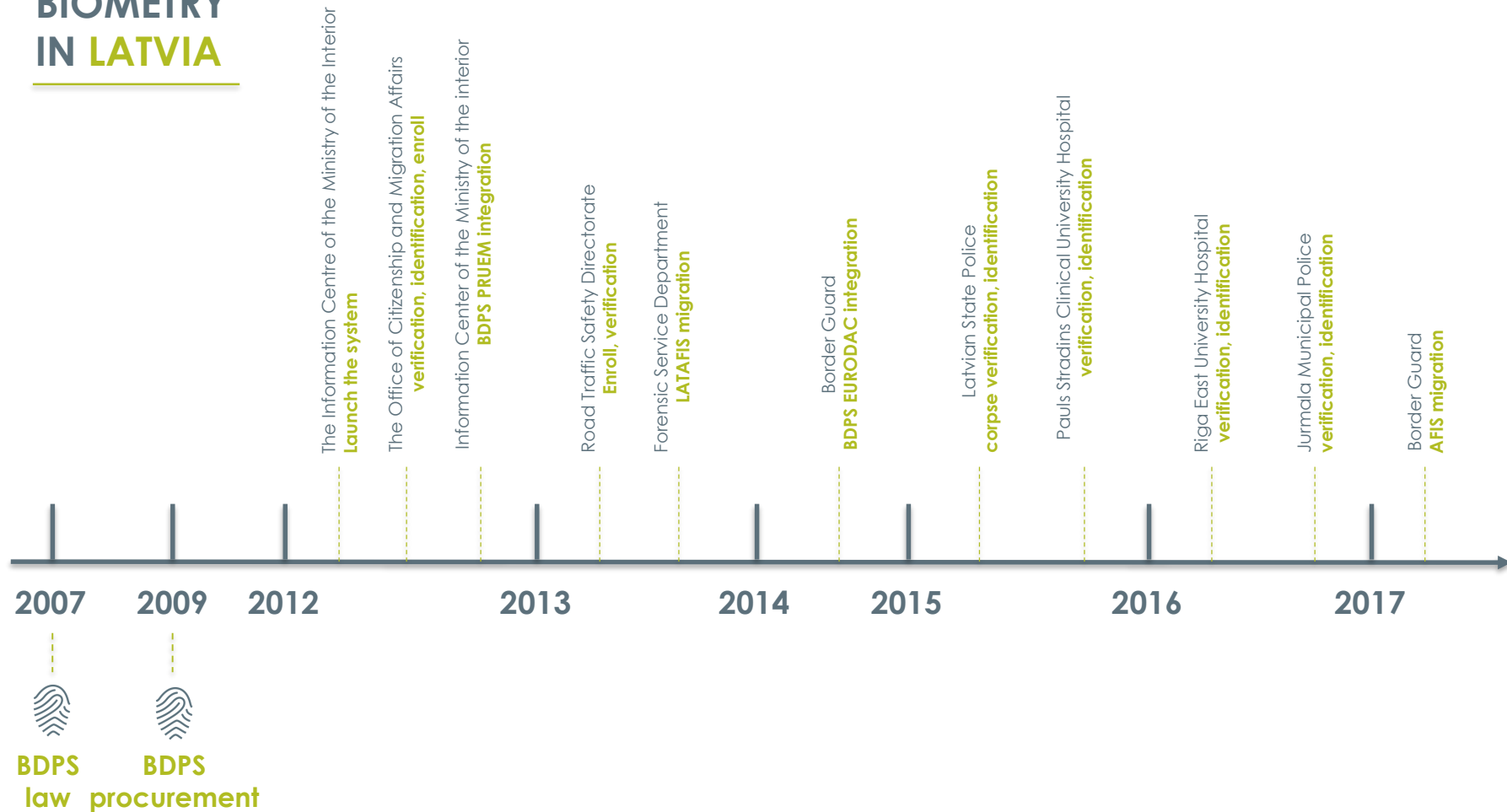
Forensic  
Police  
**LATAFIS  
migration**



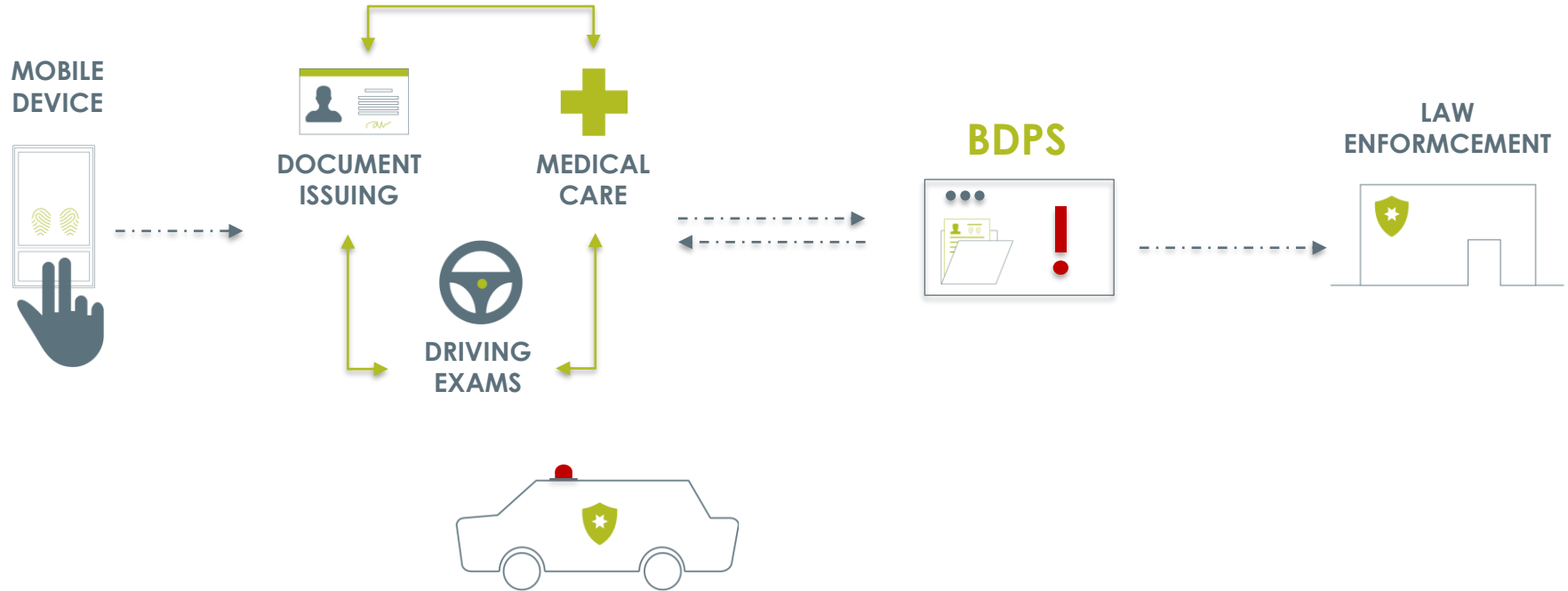
# BIOMETRY IN LATVIA



# BIOMETRY IN LATVIA



# HOW DOES THIS WORK?



# CASE STUDIES



«On 8th of June 2016 a  
young woman **WAS**  
**caught** trying to renew her  
twin sister's driving license»

Road Traffic  
Safety Directorate



«Within a year the  
identification of corpses  
have increased from  
**75% to 95%»**

Latvian State Police



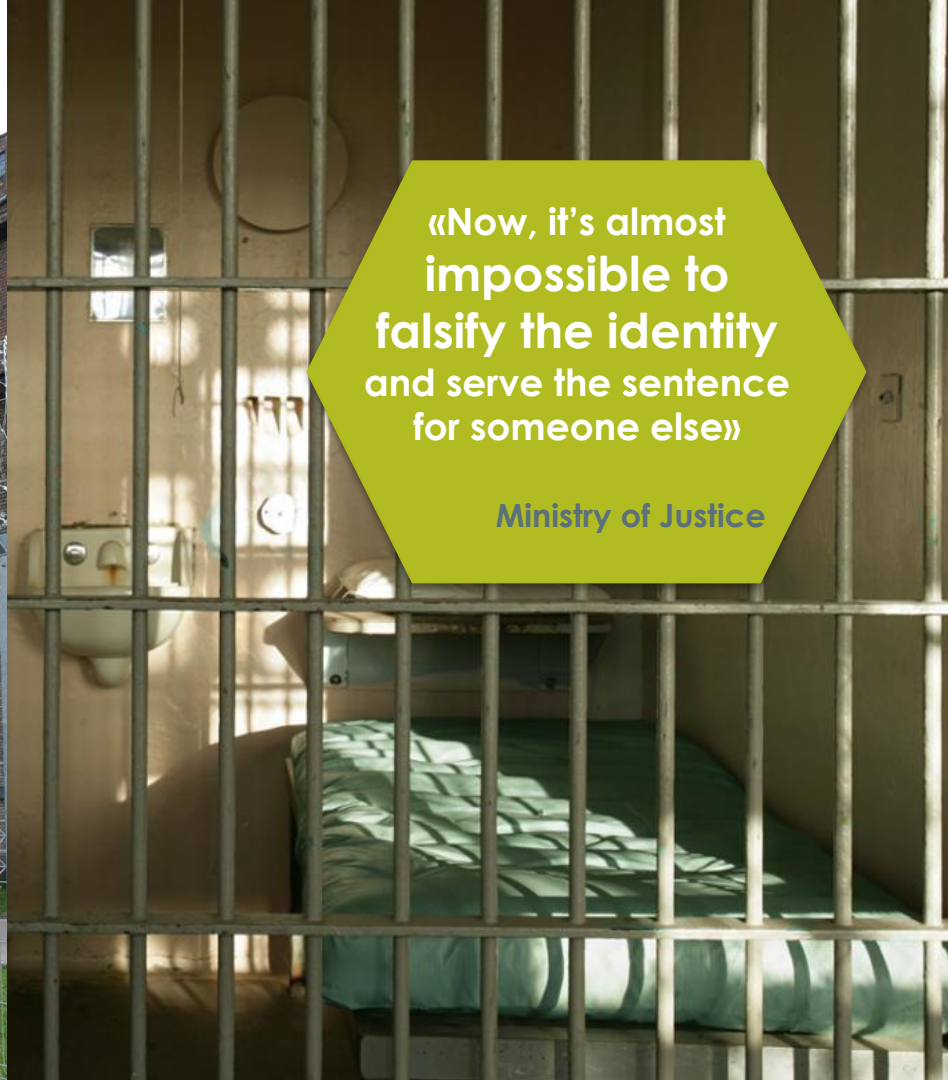


«Now, it's almost impossible to falsify the identity and get multiple passports»

The Office of Citizenship and Migration Affairs







«Now, it's almost  
impossible to  
falsify the identity  
and serve the sentence  
for someone else»

Ministry of Justice





«On 19th of January  
2017 in Airport "Riga"  
from London arriving  
Latvian, who was also  
in police-search,  
was detected by  
border guard»

State Border Guard





«Every day, in hospital is being admitted around 160-170 patients and with that amount a rapid recognition of person's identity is **crucial**»

Pauls Stradins Clinical  
University Hospital



# HOW OUR COMPANY CAN **HELP?**

- ❖ Consultations about biometrics and biometrics systems architecture
- ❖ Biometrics duplicate detective as service
- ❖ Biometrics systems data quality assessment as service
- ❖ Specialized biometrics equipment delivery

«Before **Sept. 11**, the idea that Americans would voluntarily agree to live their lives under the gaze of a network of biometric surveillance cameras, peering at them in government buildings, shopping malls, subways and stadiums, would have seemed unthinkable, a dystopian fantasy of a society that had surrendered privacy and anonymity.»

**Jeffrey Rosen**  
American academic