



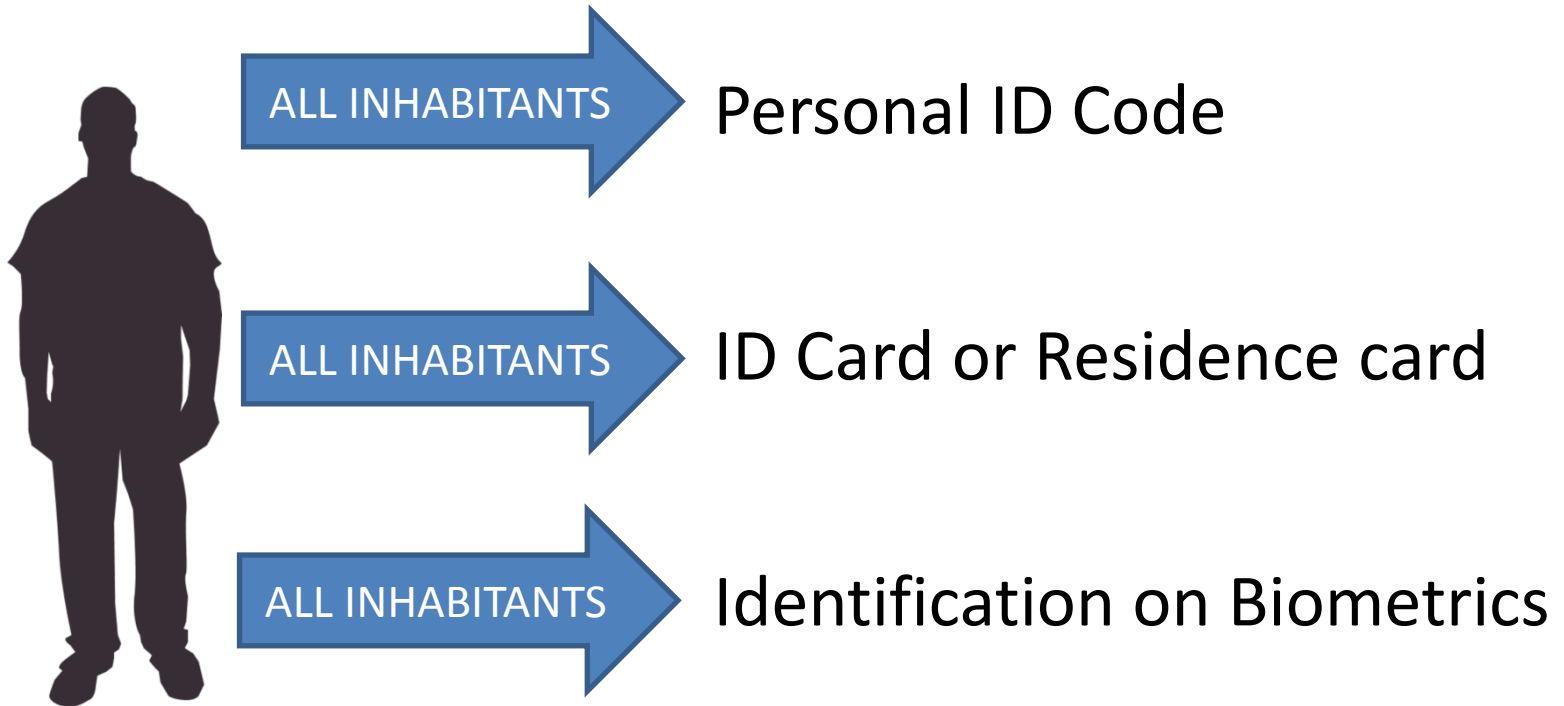
REPUBLIC OF ESTONIA
MINISTRY OF THE INTERIOR

10 Years of Secure Digital ID from e-ID to Mobile-ID

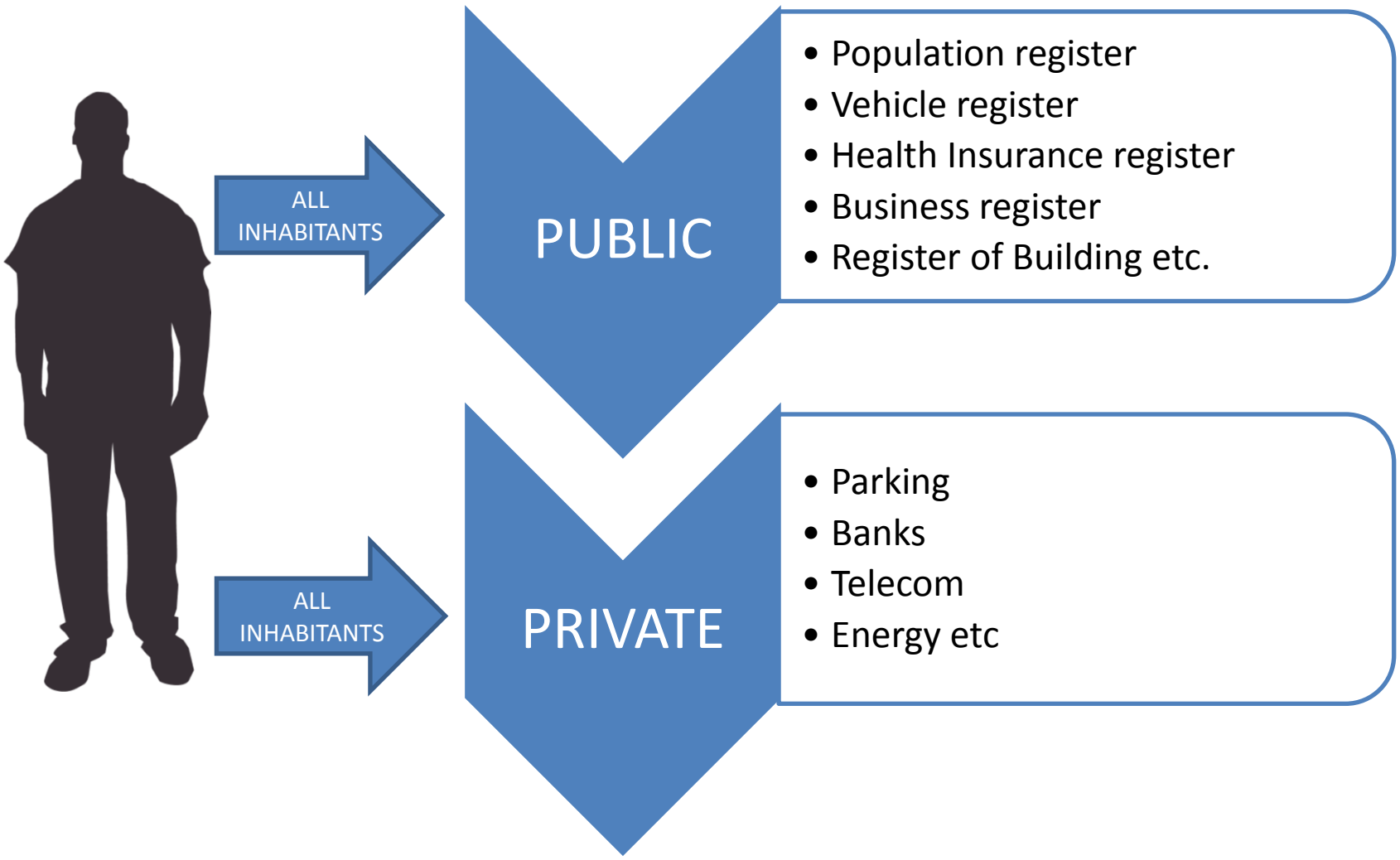
Janek Mägi

- The Secure Identification Management
- E-services and a need for Digital- ID
- From the Digital-ID to the Mobile ID

Identity Management



E-Services



ALL
INHABITANTS

PUBLIC

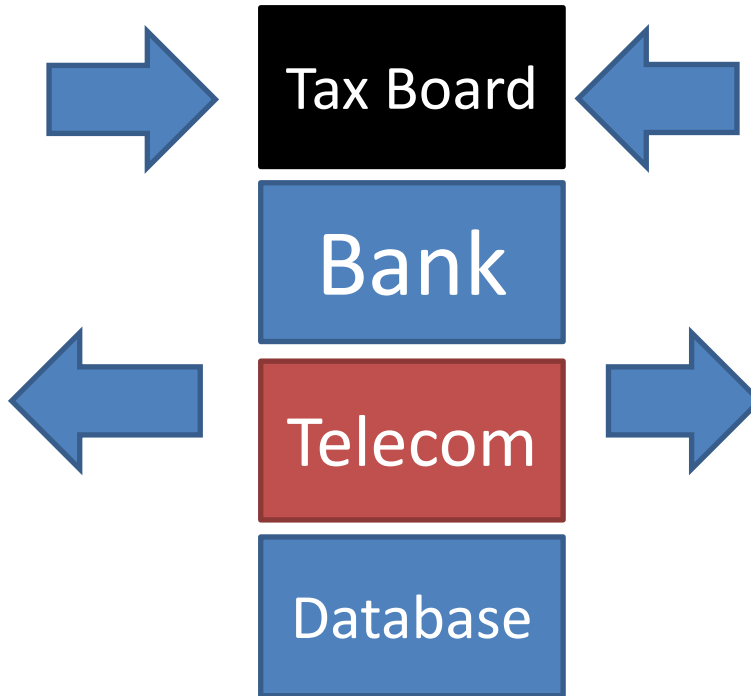
- Population register
- Vehicle register
- Health Insurance register
- Business register
- Register of Building etc.

ALL
INHABITANTS

PRIVATE

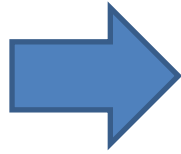
- Parking
- Banks
- Telecom
- Energy etc

WHO IS THIS?

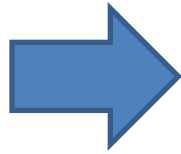


IDENTIFIED USER

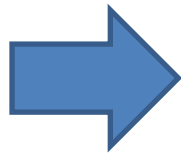
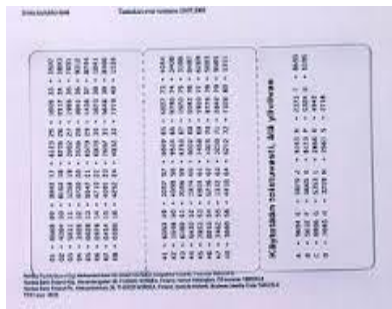




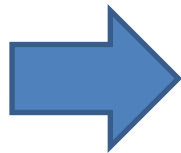
TAX BOARD



BANK



TELECOM



OFFICE COMPUTER

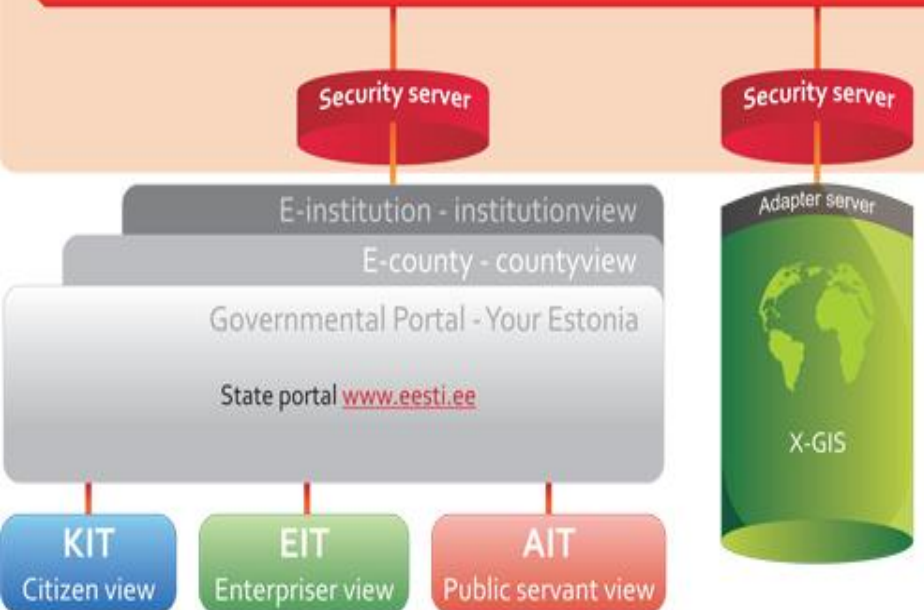
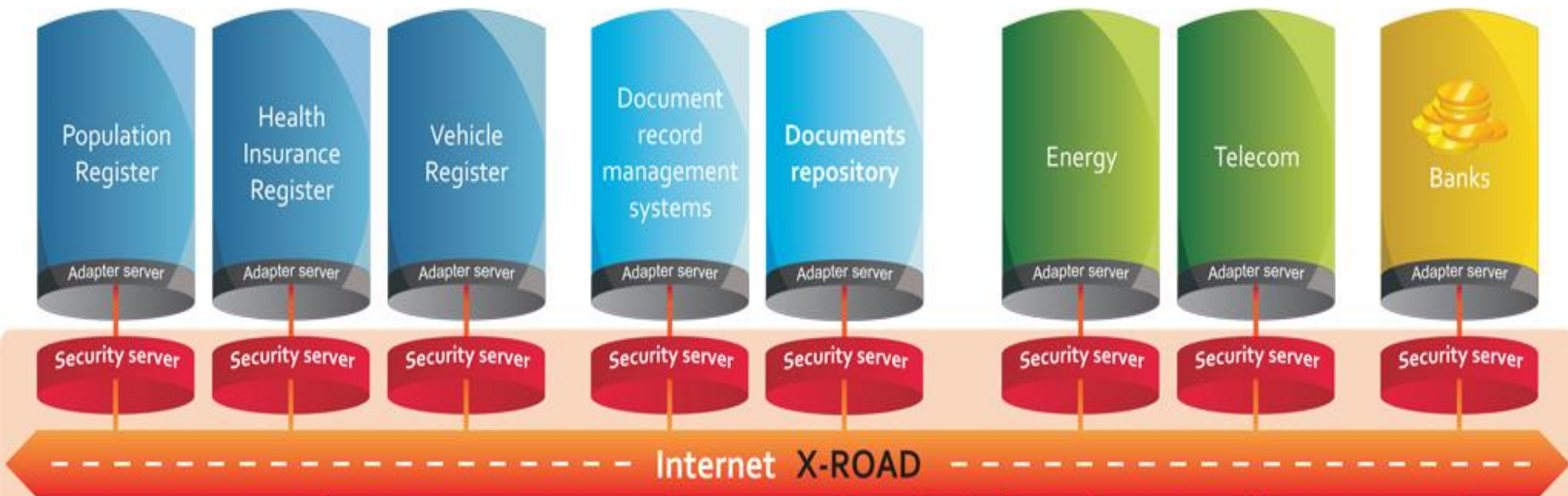
TRUST IN GOVERNMENT ID MANAGEMENT



THE ID- CARD

Public sector

Private sector



User interfaces



**CERTIFICATES AND
PRIVAT KEY**

X-Road Center

Certification Center

PC-s are history?

- We have abundance of new devices and the amount is growing
- Most of them lack the interface for traditional PKI based on smart cards or USB token



Rare picture



Solution is Secure Mobile-ID



Hoiatus! Pärast mikroSIM-i ümbrises eemaldamist võib mikroSIM-i edasine kasutamine suuremas ümbrises (tavaformaadis SIM-ina) telefoni kahjustada.

Mobiil-ID

Palun ära kraabi kraapevälju, kui Sa ei ole sõlminud Mobiil-ID kasutamise lepingut!

Mobiil-ID PIN1: 

Mobiil-ID PIN2:

Mobiil-ID PUK:

PIN: 0000

PIN2: 1111

PUK: 17 135723

PUK2: 51272405



8937201013040926177

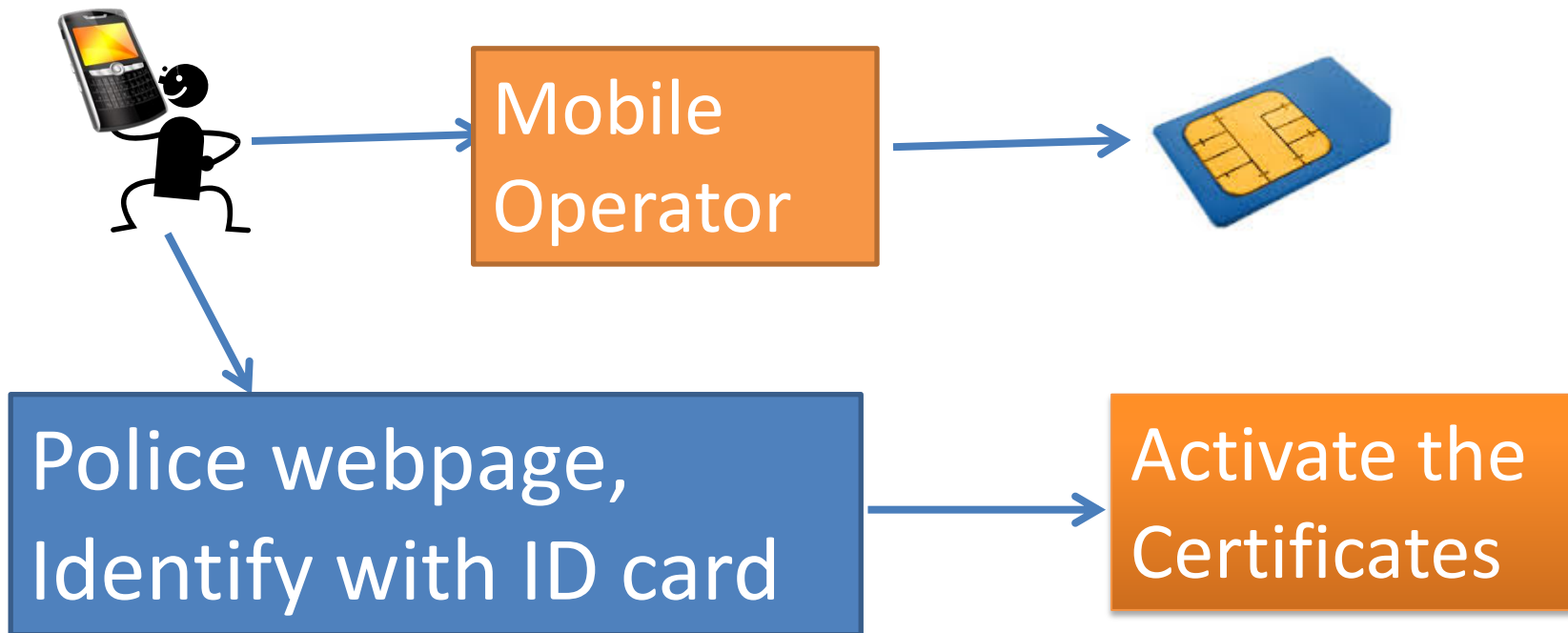


3,5G Mobil-ID
89372
01013
04092
6177F

emt

Mobiil-ID

Can I trust it?



Private and Public identification

Process of signing



1. Create document
2. Request signature
3. Calculate/show control code

4. Send ID and document hash



5. Calculate control code
6. Confirm
7. Enter signing PIN
8. Calculate signature bits

9. Send back signature bits

10. Compile document



e- Residency

non-resident with Estonian digital identity
(smart card) for access to digital services

www.e-resident.gov.ee

www.e-estonia.com

Estonian development fund competition winner



Launch page: 4000+ subscribers on day 1



Estonian parliament approves legislation



First e-Residency card issued



Estonian prime minister visits US



1. September

1. October

1. November

1. December

mid December 2014

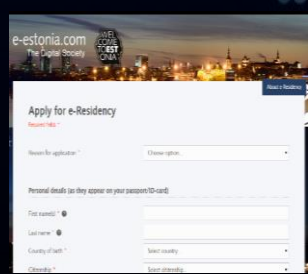
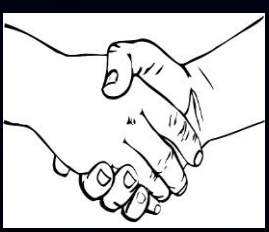
Government mandate to create e-Residency team

First day of seven-member team

Launch in 38 Estonian embassies abroad

Online application launch

Public beta launch



1. January

1. April

13. May

13. May

13. May 2015

Jorma Tuomainen
Finland

“Investments in Estonia”



Businessmen from neighbouring countries administer existing Estonian businesses and real estate online



Stanislav Yurin
Ukraine



“Virtual business environment”



Freelancers, entrepreneurs



Run location-independent international business online

Unannounced partner,
Silicon Valley, US



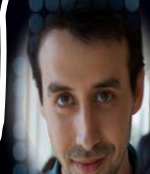
“Open digital identity platform”



Developers



Use e-Residency as a platform to scale own services



Carlos
Miceli

“Community of e-Residents”



Global citizens



Join us to create a country without

“Tourism in Estonia”



Academia, tourists



Enjoy the same online benefits as locals

Clare
Sullivan
Australia





REPUBLIC OF ESTONIA
MINISTRY OF THE INTERIOR

Thank you!

Janek Mägi