National eID in Estonia: the key to the Digital Ecosystem

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Information System Authority (RIA)

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Responsible for:

- Central **e-government systems** & **architecture**

- Coordination of national **cyber security**

- **EU Structural Funds** for IT development

Estonia: basic e-facts

- Nationwide eID since 2002
- 95% of tax declarations submitted digitally
- I-voting since 2005 (8 nation-wide elections)
- eHealth, eSchool, ePolice..
  - 98% of medicines prescribed electronically
  - 90% of teachers, students, parents use eSchool
- **Population 1,3M = 1,2M active e-ID cards**
- **80 M digital signatures/ year**

Saving time: more than 1 week per capita

Kaart :http://en.wikipedia.org/wiki/File:EU-Estonia.svg

Estonian digital enablers

- Unfavorable geographic location
- Demographic challenges - high per capita cost of providing public services

- Trust & cooperation between stakeholders
- Systematic capacity building: Tiger Leap & Look@World projects
- Relatively high level of awareness
- Critical competences

TIIGRIHÜPE

National ID card

- Personal data file
- Certificate for authentication
- Certificate for digital signature

Compulsory for all residents
PIC: 'One person = one identity'

Use cases:
- Authentication
- Legally binding signature
- File encryption/decryption for secure delivery

Additional eID tokens

- Mobile-ID: SIM card based token (since 2007)
- Digi-ID: additional card for digital use only (since 2010)
- E-Residency card (since 2015)
- Digital stamp: eID for legal entity

Future?

- National eID will be increasingly dependent on developments in regional/ global ecosystem

- Cooperation with global corporations (national eID vs. FB or Google account)

- Maintaining high levels of security for eID and mID

Main conclusions…

- eID is only as useful as the change it drives – saving time and money

- Success of eID relies on the ecosystem surrounding it

- eID and digital ecosystem cannot be limited to a single country

More information on Estonian eID

- ## ID-card overview

https://e-estonia.com/component/electronic-id-card/

- ## ID-card concept

http://www.id.ee/public/The_Estonian_ID_Card_and_Digital_Signature_C oncept.pdf

- ## General information and documentation

http://id.ee/?lang=en

https://sk.ee/en/useful/digitalsigning/

http://eid.eesti.ee/index.php/EID_application_guide

http://open-eid.github.io/

WWW

Thank You!

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