



REPUBLIC OF ESTONIA
INFORMATION SYSTEM AUTHORITY

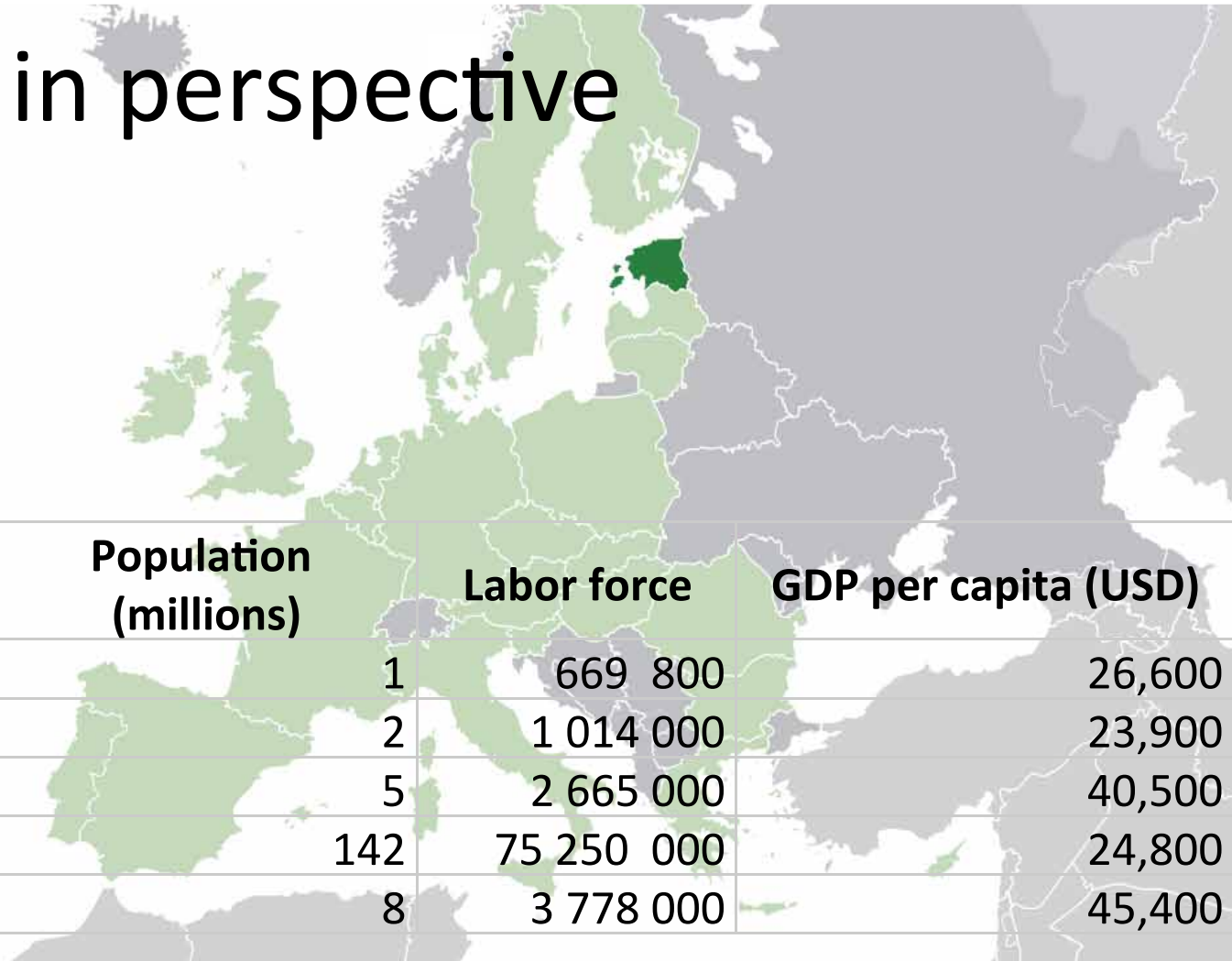
National Cyber Security Strategy 2.0

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Estonia in perspective



	Population (millions)	Labor force	GDP per capita (USD)
Estonia	1	669 800	26,600
Latvia	2	1 014 000	23,900
Finland	5	2 665 000	40,500
Russia	142	75 250 000	24,800
Austria	8	3 778 000	45,400

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

669 8000



Basic e-facts

- Free WiFi
- 99,8% of bank transactions
- 95% of taxes
- Nationwide eID since 2002
- I-voting since 2005

- **1,2M active e-ID cards**
- **53 M digital signatures/ year**

Saving time: 1 week per capita

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

What we protect

- Values
- Trust in ICT
- Digital way of life



Challenges

- Increasing complexity of information systems
– increasing complexity of threats
- Commoditisation of attack tools
- Organisational boundaries between system builders and system defenders



Cyber Security Strategy 2008-2013...

... chaos -> order

- Regulations
- Organizational setup
- Awareness & cooperation



Cyber Security Strategy 2014-2017...

... refinement of Estonian cyber shield

- Enhanced early warning & situational awareness
- Resilience of vital services & ensuring digital continuity
- Comprehensive cyber security



Collective brain

- Very few issues can be solved by an individual organisation
- Government services depend heavily on private service providers
- Rapid, smooth and practiced cooperation is vital in adequately responding to cyber threats
- It is about the ability to have the most skillful people in most critical positions working together in the most efficient way possible