enter e-Estonia
the coolest digital society
our highest ratings

1. #1
   BERTELSMANN FOUNDATION 2019
digital health index

2. #1
   WORLD ECONOMIC FORUM 2017
entrepreneurial activity

3. #1
   CEPS 2019
Index of readiness for
digital lifelong learning

4. #2
   FREEDOM HOUSE 2019
internet freedom

5. #8
   EUROPEAN COMMISSION 2019
EU digital economy
and society index (DESI)

6. #5
   WORLD ECONOMIC FORUM 2019
mobile broadband
subscriptions

7. #5
   ITU 2018
global cybersecurity
index

8. #10
   HERITAGE FOUNDATION 2019
index of economic
freedom
a modest country

extending beyond its borders

+ population: 1.3 million
+ area: 45,339 km²
+ currency: Euro
+ member of: EU, NATO, OECD, Digital Nations
+ ICT sector employees: 5.9% of workforce
essential

clear and honest principles

+ citizen-centric
+ public-private partnership
+ internet access for everybody
+ all individuals own their personal data
digital government

fastest decision making

+ digital-minded leadership
+ once-only principle
+ e-state - digital by default
+ 99% of services are online
empowering
easiest life: only getting married or divorced cannot be done online.
for now.
electronic ID
the strongest identity since 2002

+ electronic ID is compulsory
+ 70% use ID-card regularly
+ 17% use people use mobile-ID
+ 35% use smart-ID
+ 70,000+ e-Residents
x-road

the busiest highway since 2001

+ **X-Road** — the free and open-source data exchange layer software
  + modular, easy-to-use, secure data exchange solution
  + decentralised and distributed network
  + expert community of almost a thousand people from over 60 countries
  + operational in Azerbaïdjan, Argentina, Cambodia, Colombia, El Salvador, Estonia, Faroe Islands, Finland, Germany, Iceland, Japan, Kyrgyzstan, Palestine, Vietnam

+ **X-tee** — the Estonian X-Road ecosystem since 2001
  + saving 3 million working hours annually
  + over 3,000 different services
  + over 1.3 billion transactions per year
three pillars

the safest combination to information security

Confidentiality
- e-Identification:
  - ID-card, mobile-ID
  - Smart-ID, e-residency card

Availability
- X-Road®

Integrity
- KSI blockchain
e-Estonia timeline

- **2000**
  - e-cabinet
  - e-tax board
  - m-parking

- **2001**
  - X-Road®

- **2002**
  - e-school
  - digital signature
  - id-card

- **2003**
  - eesti.ee

- **2004**
  - id bus ticket
e-Estonia timeline

- e-police system
- e-notary
- mobile-id
- keyless signature infrastructure
- i-voting
- e-justice
- company registration portal
- e-health system
- e-prescriptions

2005  2006  2007  2008  2010
e-Estonia timeline

- Visualised business register (2011)
- Smart grid (2011)
- EV quick charging network (2012)
- Public services green paper (2013)
- E-service of the Estonian Road Administration (2014)
- E-residency (2014)
- E-receipt (2015)
e-Estonia timeline

- **2017**: NIIS X-Road® consortium
- **2018**: Kick-off proactive government
- **2019**: AI strategy
- **2020**: 50 public sector AI use cases, 7 invisible services, E-pension 3.0
ease of doing business

simplest and fastest business environment

+ under 3 hours to start a company
+ paperless and hassle-free e-taxation
+ automatisation in tax reporting by the end of 2020
+ Estonia #1 in International Tax Competitiveness Index (2019)
+ e-residency — Estonian e-services for every world citizen
e-residency

e-resident.gov.ee

+ first in the world
+ 160+ countries
+ 70,000+ e-residents to date
+ 13,000+ e-resident companies
+ 31m+ € taxes paid to Estonia
cyber security

the strongest competence

+ first and so far largest cyber attacks against a nation state in 2007
+ home of NATO CCDCOE and EU IT agency
+ cyber defence league and cyber command
+ non-permanent member of UNSC 2020-2021
+ data embassy
blockchain pioneers

guarding integrity since 2012

Estonia uses blockchain technology for integrity verification of government registries and data. No data is saved to the blockchain.

+ first ever state to use blockchain technology
+ 100% data privacy
+ history cannot be rewritten by anybody

Blockchain ≠ Bitcoin
data embassy

digital continuity of Estonia as a state

+ first data embassy in Luxembourg
+ strategically important datasets
+ highest level of security
+ future: additional locations
i-voting
internet voting in Estonia since 2005

+ first and still the only one in the world
+ time and location independent
+ strictly optional
+ possibility to change your vote
+ 46.7% i-voted in the 2019 EP elections
+ up to 3 times cheaper
e-tax
the first public online service since 1999

+ taxes filed in 3 minutes with digital ID
+ pre-filled forms with automated data
+ applies to all types of taxes
+ 96% of income taxes are declared electronically
e-health

the healthiest system

+ digital health data
+ e-prescription
+ e-ambulance
+ biobank with 200 000 donors
education

europe’s smartest children

+ 1st in OECD PISA tests in Europe
+ ICT education from an early age
+ digital by default
+ saves 45 minutes of teachers’ time daily
+ reduced skipping classes by 30%
smart city

smartest living environment

+ shared platforms
+ cross-border projects — Finest Twins
+ unique semi-autonomous solutions
+ urban data collection and sharing
+ Estonia as a testbed
digitalise everything
the journey never ends

+ cut your own christmas tree
+ fishing and hunting licences
+ reporting a crime
+ vehicle history check
+ smart-road map
estonishing future

seamless e-services available 24/7

+ proactive government
+ AI in government services
+ cross border digital governance
+ personalised medicine
proactive government

seamless public services implementation in process

- starting a business
- childbirth
- buying a car
- driving licence
- start of school
- unemployment & job search
- marriage
- divorce
- disability
- military service
- change of residence
- retirement
- death (succession)
- building houses
- falling victim to an accident
- falling victim to a crime
kratt

national AI strategy

+ public-private partnership
+ government initiative
+ 50 use cases live by the end of 2020
lessons learned

be boldest

+ digital-minded leadership
+ keep it short and simple
+ transparency works
+ shared platforms are quicker
+ service design matters
+ public-private partnership
stronger together

let’s keep in touch!

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