enter e-Estonia
the coolest digital society
a modest country that extends beyond its borders

+ population: 1.3 million
+ area: 45,228 km²
+ currency: Euro
+ member of: EU, NATO, WTO, OECD, Digital Nations
+ ICT sector employees: 5.9% of workforce
our highest ratings

1. BERTELSMANN FOUNDATION 2019 digital health index
2. WORLD ECONOMIC FORUM 2017 entrepreneurial activity
3. CEPS 2019 Index of readiness for digital lifelong learning
4. FREEDOM HOUSE 2019 internet freedom
5. EUROPEAN COMMISSION 2019 EU digital economy and society index (DESI)
6. GLOBAL IT REPORT 2019 mobile network coverage
7. ITU 2018 global cybersecurity index
8. HERITAGE FOUNDATION 2019 index of economic freedom
essential
Best secret weapons.

+ internet is a social right
+ every Estonian resident has an electronic ID
+ 99% of services are online
+ Estonians trust e-solutions
empowering

Easiest life: only getting married or divorced and selling real estate cannot be done online.

Yet.
ease of doing business

Simplest and fastest business environment.

+ a few hours to start a company
+ hassle-free e-taxation
+ automatization in tax reporting by 2020
+ e-Residency — Estonian e-services to every world citizen
Estonian Startup Ecosystem

The cutest unicorns

+ over 987 startups
+ 4 unicorns - #1 in start-up friendliness
+ raised around €1B in funding (92% from abroad)
+ Estonian Startup Visa
+ supportive ecosystem
e-residency
e-resident.gov.ee

+ first in the world
+ 160+ countries
+ 63 000+ e-residents to date
+ 10 000+ e-resident companies
+ 31m+ € taxes paid to Estonia
health

The healthiest system.

+ digital health data
+ digital prescription
+ e-Ambulance
+ personalised medicine
education

Our schools produce the smartest children.

+ 1st in OECD's PISA tests in Europe
+ ICT education for all students from early ages
+ digital competence for all students
+ digital by default in learning and teaching
electronic ID

The strongest identity.

+ every Estonian has an electronic ID
+ eIDAS assurance level „high”
+ 17% of mobile-ID
+ 34% of smart-ID
+ e-Residency
exchange


+ saving 844 years annually
+ over 450 institutions and enterprises
+ 150 public sector institutions
+ over 3000 different services
+ over 900 million transactions per year
+ technology exported to Finland, Iceland, Faroe Islands, Ukraine and other countries
e-Estonia timeline

- e-cabinet (2000)
- e-tax board (2001)
- x-road (2002)
- id-card (2003)
- eesti.ee (2004)
- id bus ticket (2004)
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
e-Estonia timeline

- NIIIS x-road consortium (2017)
- AI strategy (2019)
- 50 public sector AI use cases (2020)
- Data embassy
- Crossborder e-prescription
- Reporting 3.0
- 7 Invisible services
elaborated
Clear and honest principles.

+ once-only
+ digital by default
+ trust-by-design
+ open internet
cyberspace

The strongest competence.

+ cyber defence league
+ data embassy
+ cyber command
+ home for NATO CCDCOE and EU IT agency
secure

The safest combination.

confidentiality
ID-card, Mobile-ID
Smart ID, e-Residency

availability
X-Road

integrity
KSI Blockchain
blockchain pioneers

Estonia was the first Nation State in the world to deploy blockchain technology in production systems in 2012.

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

KSI blockchain ≠ Bitcoin
blockchain

Guarding the integrity.

+ e-Health
+ Property and Land Registry
+ Business Registry
+ Succession Registry
+ e-Court
+ Surveillance / Tracking Information System
+ State Gazette
+ Official State Announcements
astonishing future

+ zero-bureaucracy
+ invisible services
+ cross border digital governance
+ real time economy
proactive government

Action plan for life-event service design

TARGET: 7 LIVE BY YEAR 2020

2020
- name change (incl marriage)
- change of residence
- retirement
- death (succession)
- building houses
- disability

2019
- driving licence
- buying a car
- childbirth
- start of school
- school change
- unemployment & job search
- crime victim
- military service

2018
- starting a business
AI in the public sector

+ National AI (Kratt) strategy
+ 20+ use cases live in 2019 (e.g. land mowing detection)
+ 50 use cases in public sector by 2020
industry digitalisation

+ e-construction platform
+ industry 4.0
+ smart energy
+ real-time economy
lessons learned

+ KISS - keep it short and simple
+ transparency works
+ shared platforms make you quicker
+ delivery matters, so does design
+ be boldest
digital leadership

The strongest leadership brings enlightenment.

+ Technology or money is not the solution
experiment

Estonia as a testbed.

+ self-driving vehicles
+ door-to-door robot transport
let’s build the future together!

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