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 9
+ ICT sector: 7% of GDP
our highest ratings

1. BERTELSMANN FOUNDATION 2019 digital health index
2. EUROPEAN COMMISSION 2018 EU digital economy and society index, public services
3. WORLD ECONOMIC FORUM 2017 entrepreneurial activity
4. GLOBAL IT REPORT 2016 mobile network coverage
5. INDEX VENTURE 2018 start-up friendliness
6. FREEDOM HOUSE 2018 internet freedom
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
+ full automatization in tax reporting by 2020
+ e-Residency — Estonian e-services to every world citizen
estonian startup ecosystem

The cutest unicorns

+ 550 startups
+ 4 unicorns - global top per capita
+ raised around €1B in funding (92% from abroad)
+ Estonian Startup Visa
+ supportive ecosystem
e-residency

e-resident.gov.ee

+ first in the world
+ 167 countries
+ 53 000+ e-residents to date
+ 6 600+ e-resident companies
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”
+ 16% of mobile-ID
+ 29% of smart-ID
+ e-Residency
exchange


+ saving 1407 years annually
+ 651 institutions and enterprises
+ 504 public sector institutions
+ 2691 different services
+ over 900 million transactions per year
+ exported to Finland, Iceland, Ukraine, Kyrgyzstan, Namibia, Faroe Island and other countries
e-Estonia timeline

- e-cabinet: 2000
- e-tax board: 2001
- m-parking: 2002
- e-school: 2003
- digital signature: 2003
- id-card: 2004
- eesti.ee: 2004
- id bus ticket: 2004
e-Estonia timeline

- 2005: e-police system, i-voting
- 2006: e-notary, e-justice
- 2007: mobile-id, company registration portal
- 2008: keyless signature infrastructure, e-health system
- 2010: e-prescriptions
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-reciept (2015)
e-Estonia timeline

- 2017: NIIS x-road consortium
- 2018: Kick-off proactive government, data embassy, crossborder e-prescription
- 2019: Legalising AI, reporting 3.0
- 2020: 50 public sector AI use cases, 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
estonishing future

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

Action plan for life-event service design

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

TARGET: 7 live by Year 2020
AI in the public sector

+ Kratt task force
+ 10+ use cases live in 2018
+ 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!