enter e-Estonia

the coolest digital society

a mod**est** 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 employees: 5,9% of workforce

our high*est* ratings

#1

BERTELSMANN
FOUNDATION 2019
digital health index

#1

WORLD ECONOMIC
FORUM 2017
entrepreneurial activity

#1

INDEX VENTURE 2018
start-up friendliness

#1

FREEDOM HOUSE 2018
internet freedom

#8

EUROPEAN
COMMISSION 2018
EU digital development
and society index (DESI)

#1

GLOBAL IT REPORT 2019
mobile network coverage

#5

ITU 2018
global cybersecurity
index

#15

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

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empowering

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

Yet.

ease of doing business

Simpl*est* and fast*est* 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

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estonian startup ecosystem

The cutest unicorns

+ over 500 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
+ 167 countries
+ 57 000+ e-residents to date
+ 7 300+ e-resident companies

enter e-estonia

© Renee Altrov

health

The healthiest system.

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

© Anete Palmik

education

Our schools produce the smart*est* 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 strong*est* identity.

+ every Estonian has an electronic ID
+ eIDAS assurance level „high"
+ 16% of mobile-ID
+ 34% of smart-ID
+ e-Residency

exchange

The busi**est** highway of e-Estonia —
X-Road from 2001.

+ saving 1407 years annually
+ over 1000 institutions and enterprises
+ 150 public sector institutions
+ 3 195 different services
+ over 900 million transactions per year
+ exported to Finland, Kyrgyzstan, Faroe Islands,
  Iceland, Japan and other countries
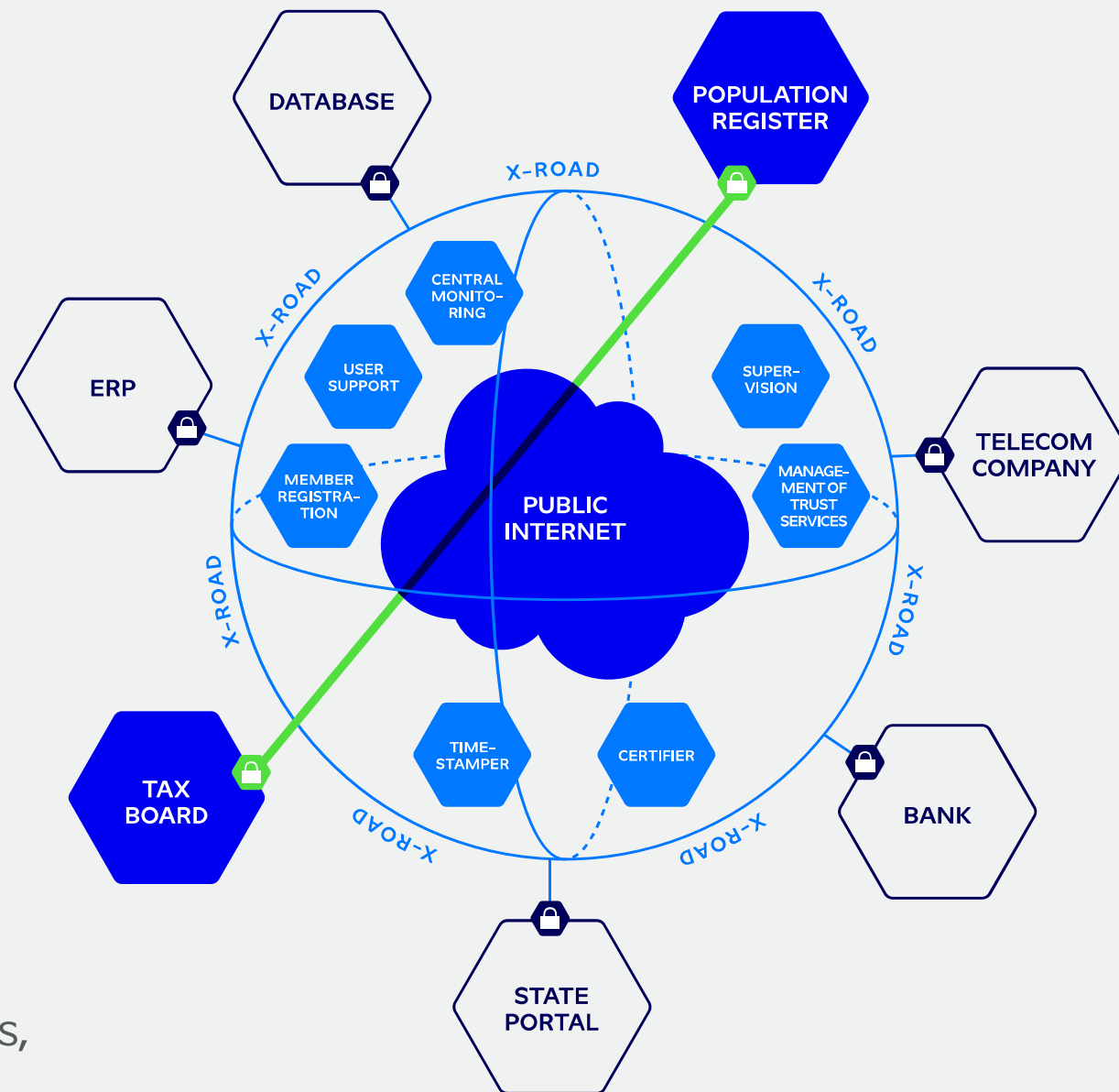
e-Estonia timeline

e-cabinet

e-tax board

m-parking

x-road

e-school

digital signature

id-card

eesti.ee

id bus ticket

2000

2001

2002

2003

2004

e-Estonia timeline

e-police system

i-voting

e-notary

e-justice

mobile-id

company registration portal

keyless signature infrastructure

e-health system

e-prescriptions

2005

2006

2007

2008

2010

e-Estonia timeline

visualised business register

smart grid

ev quick charging network

public services green paper

e-service of the Estonian Road Administration

e-residency

e-reciept

2011

2012

2013

2014

2015

e-Estonia timeline

NIIS x-road consortium

data embassy

kick-off: proactive government

crossborder e-prescription

legalising AI

reporting 3.0

50 public sector AI use cases

7 Invisible services

2017

2018

2019

2020

elaborated

Clear and hon**est** principles.

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

cyberspace

The strong*est* competence.

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

Finland

Sweden

EST

Russia

Latvia

Lithuania

Poland

Europe

secure

The saf**est** combination.

confidentiality	availability	integrity
ID-card, Mobile-ID Smart ID, e-Residency	X-Road	KSI Blockchain

blockchain pioneers

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

KSI blockchain ≠ Bitcoin

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

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
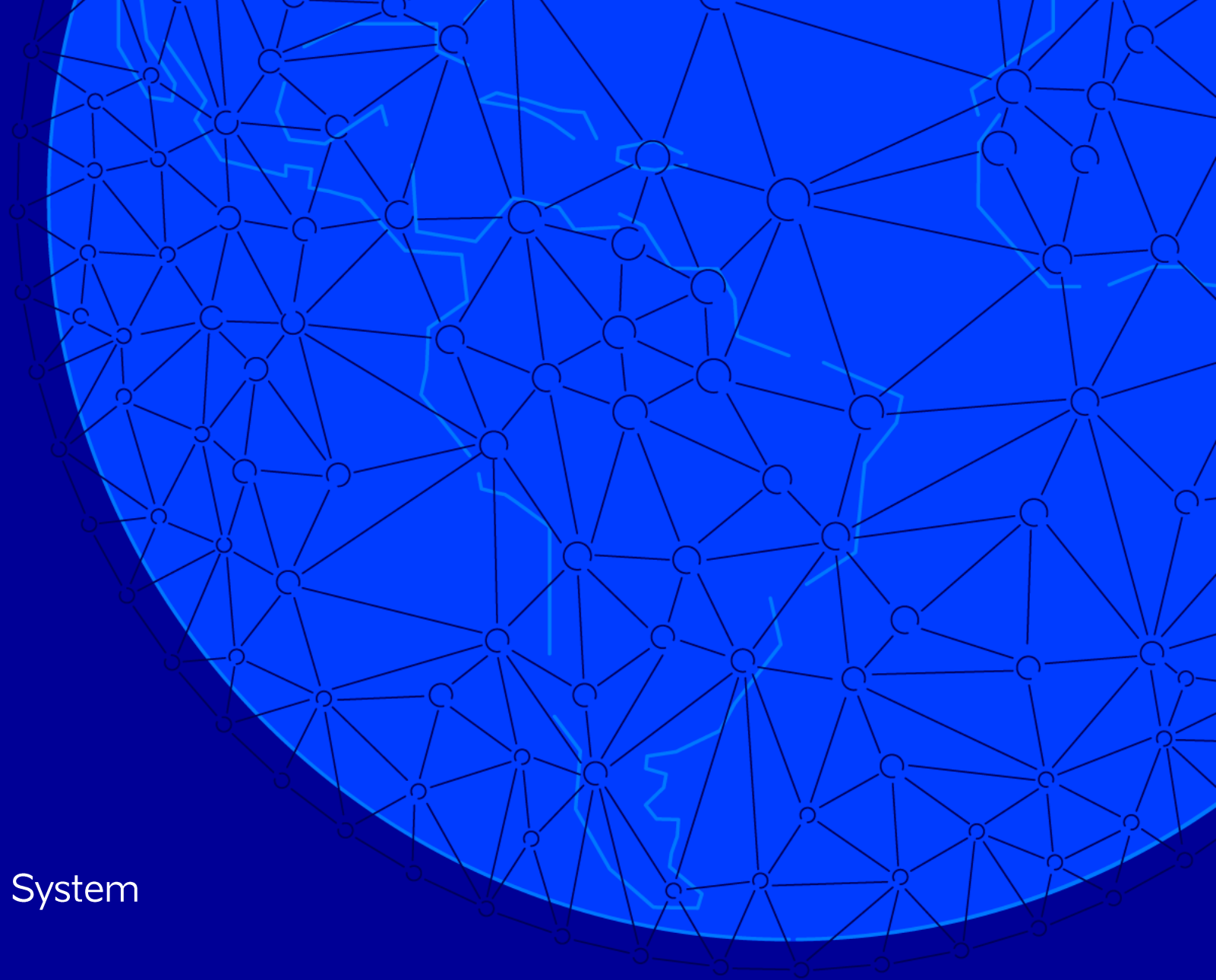
estonishing future

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

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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

AI in the public sector

+ Kratt task force
+ 10+ use cases live in 2018 (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 strong**est** leadership brings enlightenment.

+ Technology or money is not the solution

experiment

Estonia as a **test**bed.

+ self-driving vehicles
+ door-to door robot transport

© Ajujaht

let's build the future together!