

An aerial photograph of a serene natural landscape. A calm, blue lake is nestled within a dense forest of tall, thin trees. A wooden boardwalk or path winds through the forest, crossing a small bridge over a stream. A person with a backpack is walking along the path. The scene is shrouded in a light mist, creating a dreamy atmosphere. The text "e-Estonia: beyond digital" is overlaid in a large, white, sans-serif font. Below it, the text "the coolest digital society" is written in a smaller, white, sans-serif font.

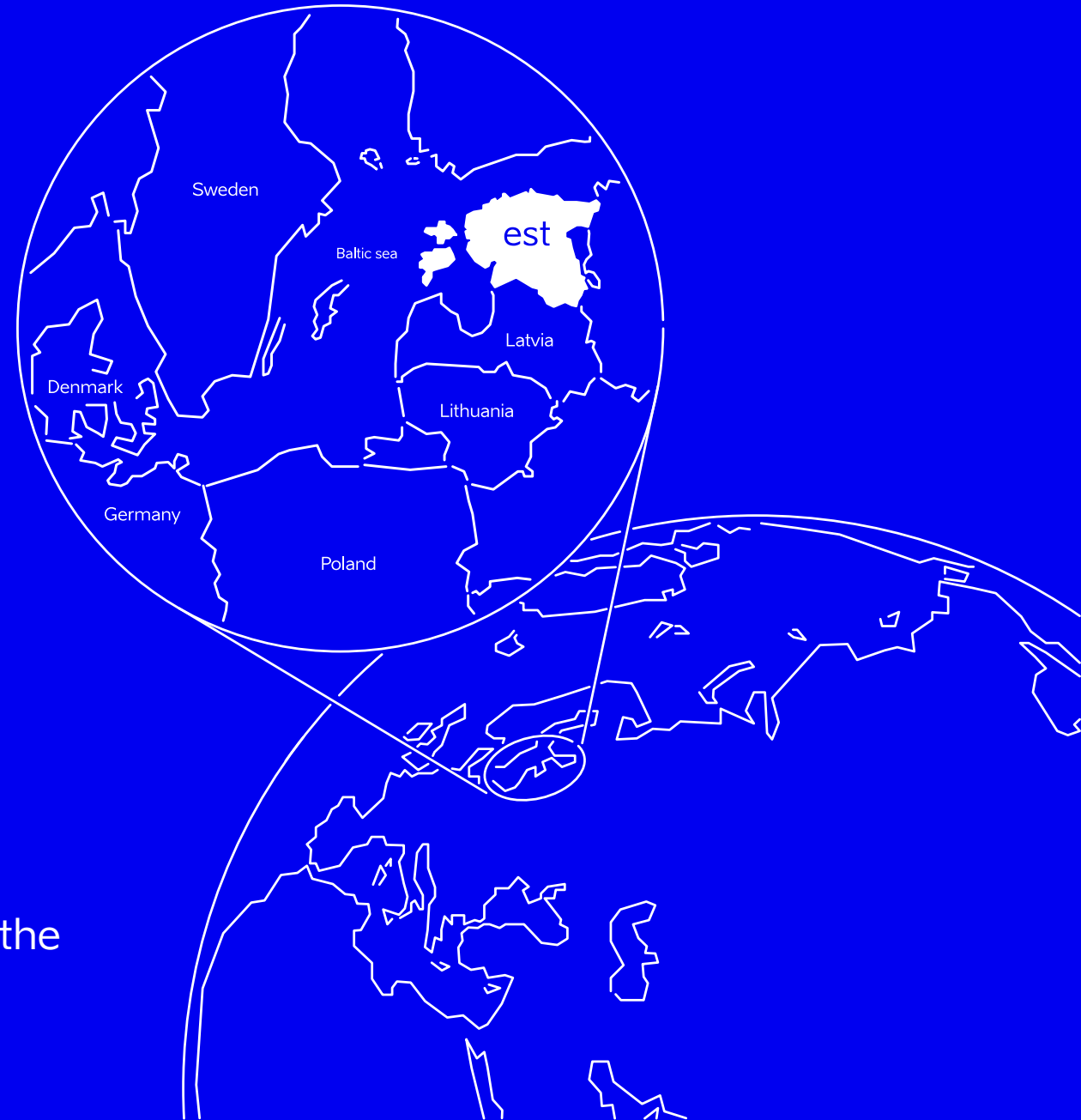
e-Estonia: beyond digital

the coolest digital society

a modest country

extending beyond its borders

- + population: 1.3 million
- + area: 45,339 km²
- + currency: Euro
- + member of: UN, EU, NATO, OECD, CERN
- + employees in the ICT sector contribute to 10% of the GDP



essential

clear and honest principles

- + digital-minded leadership
- + citizen-centric
- + government institutions and roles
- + e-democracy
- + public-private partnership
- + education
- + cyber security
- + interoperability
- + legal framework



government institutions



CIO 1

digital government



CIO 2

technology, cyber security, connectivity

Ministry of Justice and Digital Affairs

SMIT

Ministry of
Interior

KeMIT

Ministry of
Climate

RMIT

Ministry of
Finance

TEHIK

Ministry of Social
Affairs

RIK & RIA

Ministry of Justice
and Digital Affairs

other ministries'
IT institutions

RIT / State IT

digital governance

fastest decision making

- + digital-minded leadership
- + centralised coordination
- + decentralized implementation
- + transparent and effective
- + no vendor-locking
- + data protection
- + no digital divide





digital-minded leadership



political readiness

citizen-centric
fostering cross-sectoral
collaboration



civil servants

taking initiative
no traditional career
model for life



citizens

showing the benefits
raising awareness
enabling opt-in



legislation principles

- + risk of over-regulating
- + existing or new law
- + data ownership and protection
- + electronic identification as prerequisite
- + connectivity
- + technology as a tool

identification laws

information society

supportive regulation



IT financing

Ministry of Justice and Digital Affairs

€1.2 B

Digital Agenda 2030

222 M (SF 2021-27)

72 M (RRF 2021-25)

EU Funds

ministry coordinates division
of budget across the state

Ministry of Finance

€30 M (2022)

additional state budget
expert evaluation for
additional resources

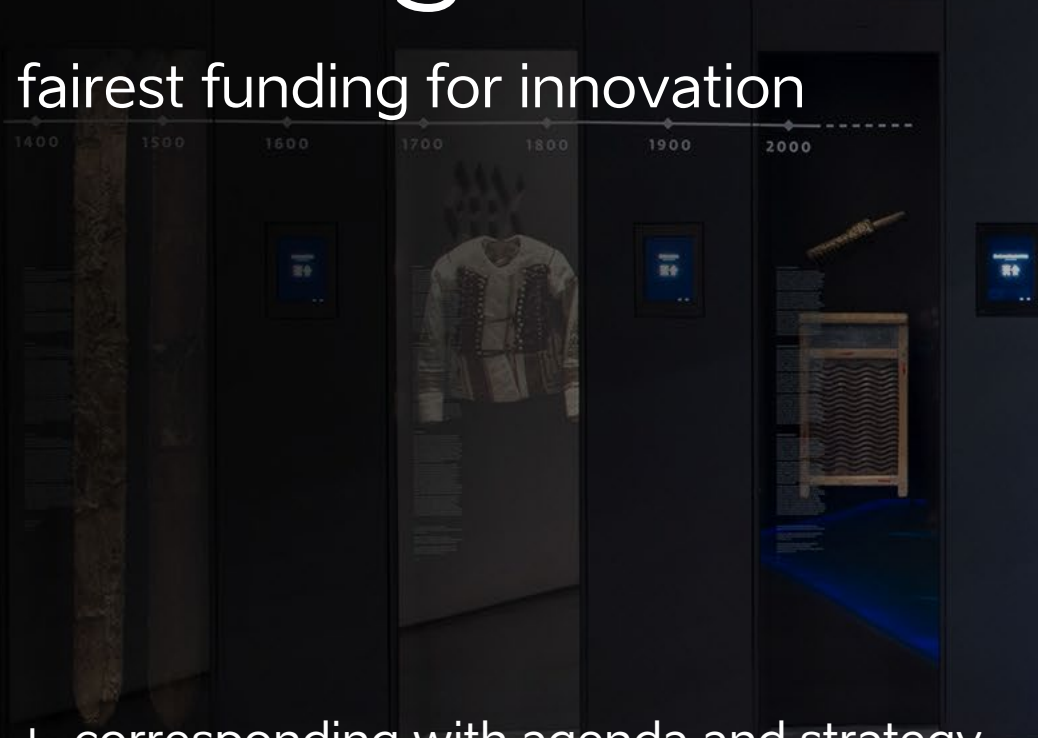
all ministries



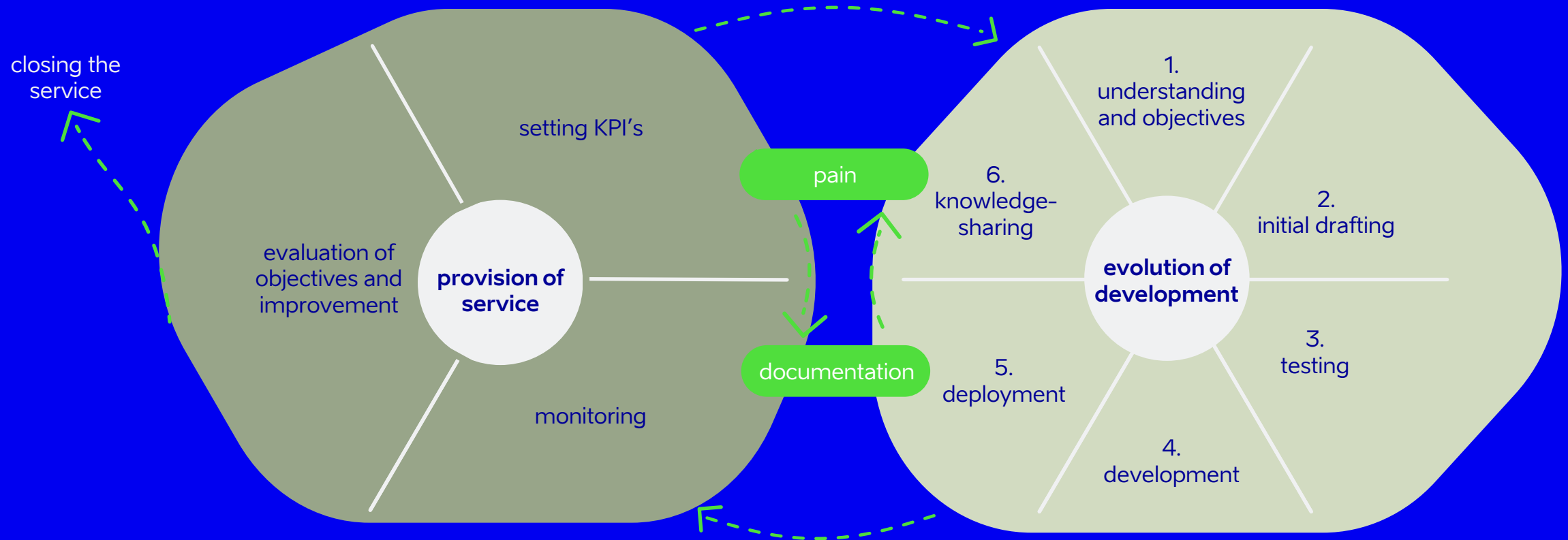
strategic funds

fairest funding for innovation

- + corresponding with agenda and strategy
- + measurable
- + sustainable
- + capability to carry out
- + compliance with pre-conditions



evolution of digital public services



electronic ID

the strongest identity since 2002

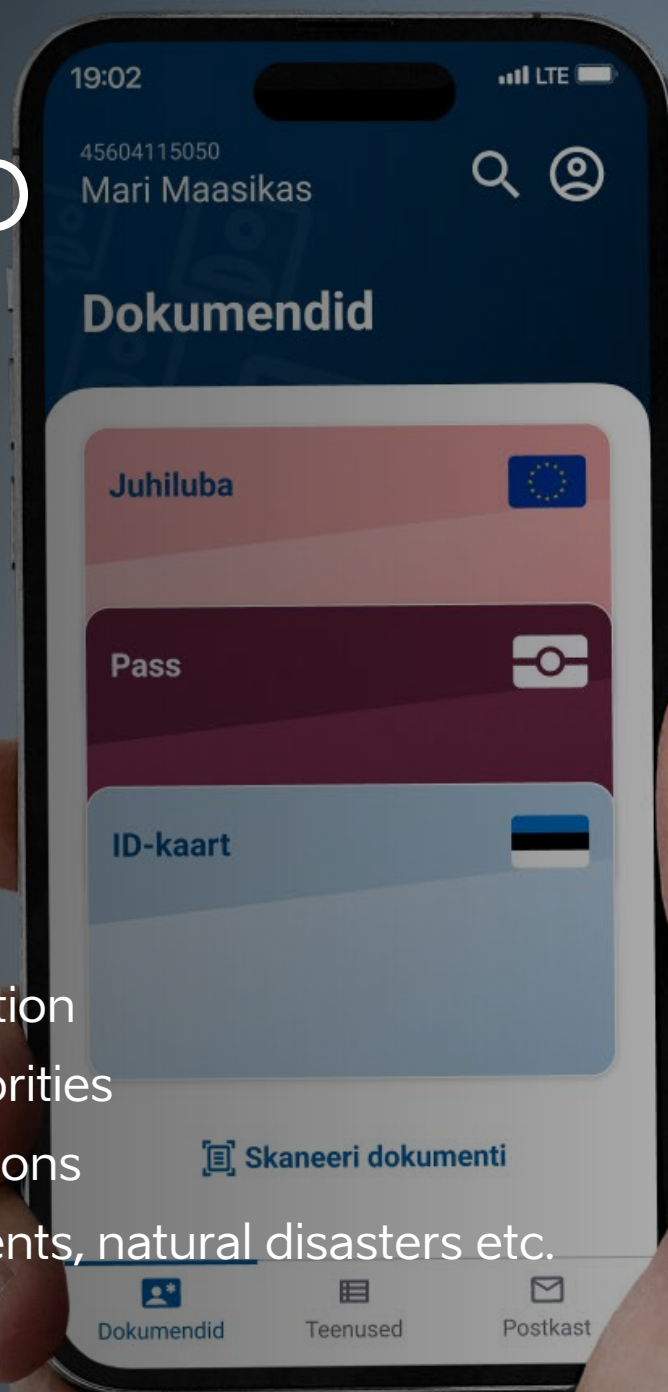
- + electronic ID is compulsory
- + 64% use ID-card regularly
- + 19% people use mobile-ID
- + 53% use smart-ID
- + 142 000+ e-residents



eesti.ee app

digital state in your pocket

- + access your personal information
- + communicate with local authorities
- + view and manage e-prescriptions
- + receive notifications on accidents, natural disasters etc.
- + use the data tracker



potential substitute
to physical
documents



access to virtual
assistant bürokratt
in the future

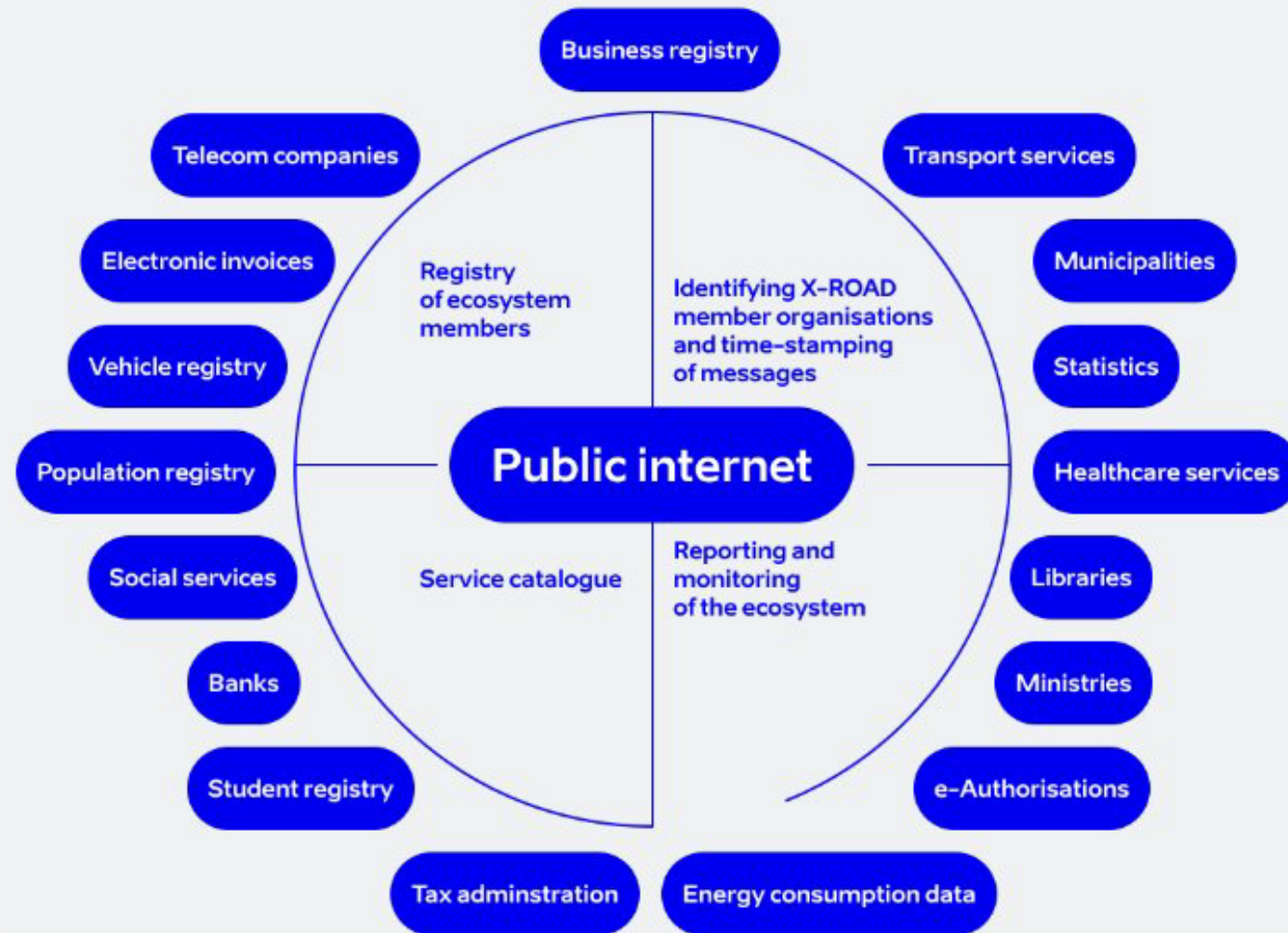
x-road

probably the world's most widely used digital public infrastructure for data exchange

X-Road® – an open-source platform for secure data exchange between organisations, used by the world's leading digital nations with >500M end-users.

X-tee – the Estonian X-Road ecosystem since 2001

- + saving 3 million working hours annually
- + over 3,000 different services
- + over 3 billion transactions per year





three pillars

the safest combination to information security

Confidentiality

e-identity:
ID-card
mobile-ID
Smart-ID
e-residency card

Integrity

Public Key Infrastructure
Data Embassy
Data Tracker

Availability

X-Road®

cyber security

the strongest competence

- + first cyber attack 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
- + KSI Blockchain

Estonian CyberTech
cluster





cyber security essentials



- + extensive cooperation
- + trust through transparency
- + adequate resources & supportive regulatory environment
- + central coordination
- + focus of cyber hygiene

main coordination formats

securing the digital ecosystem

- + Cyber Security Council
- + National Cyber Security Advisory Council
- + Cyber Attack Attribution Commission



management of national cyber security

Government of Estonia

Ministry of Justice and Digital Affairs

Government's
Security
Committee

Ministry of
Finance

Ministry of
Interior

Information System Authority NCSC-EE (National
CyberSecurity Center)

Consumer Protection and Technical Regulatory
Authority State Infocommunication Foundation
Estonian Internet Foundation
Estonian Business and Innovation Agency,
StartUp Estonia

Cyber Security
Council

Ministry of
Education and
Research

Ministry of
Foreign Affairs

Ministry of
Defense

data embassy

digital continuity of Estonia as a state

- + first data embassy in Luxembourg
- + strategically important datasets
- + highest level of security
- + future: additional locations
- + Estonia as a host country





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
- + 51% i-voted in the 2023 government elections



digital agenda 2035

Estonia, full of digital might

- + human-centred, trustworthy, efficient and resilient digital society.
- + secure, personalised and proactive public services powered by AI agents.
- + transparent and human-controlled use of data and artificial intelligence.
- + secure cyberspace and reliable ultra-fast connectivity across Estonia.





Accelerate Estonia

making illegal things legal

- + data-driven legislative change to create new markets
- + testing solutions in real-world conditions
- + 25 locally proven projects, scalable globally
- + €70 M in direct economic impact



estonishing future

seamless e-services available 24/7

- + proactive government
- + AI in government services
- + cross-border digital governance
- + personalised medicine
- + reduce footprint of ICT



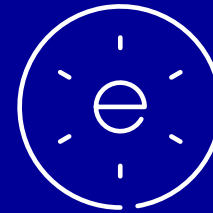
success extending across borders



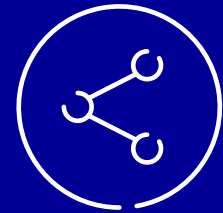
international
collaboration of
digital countries



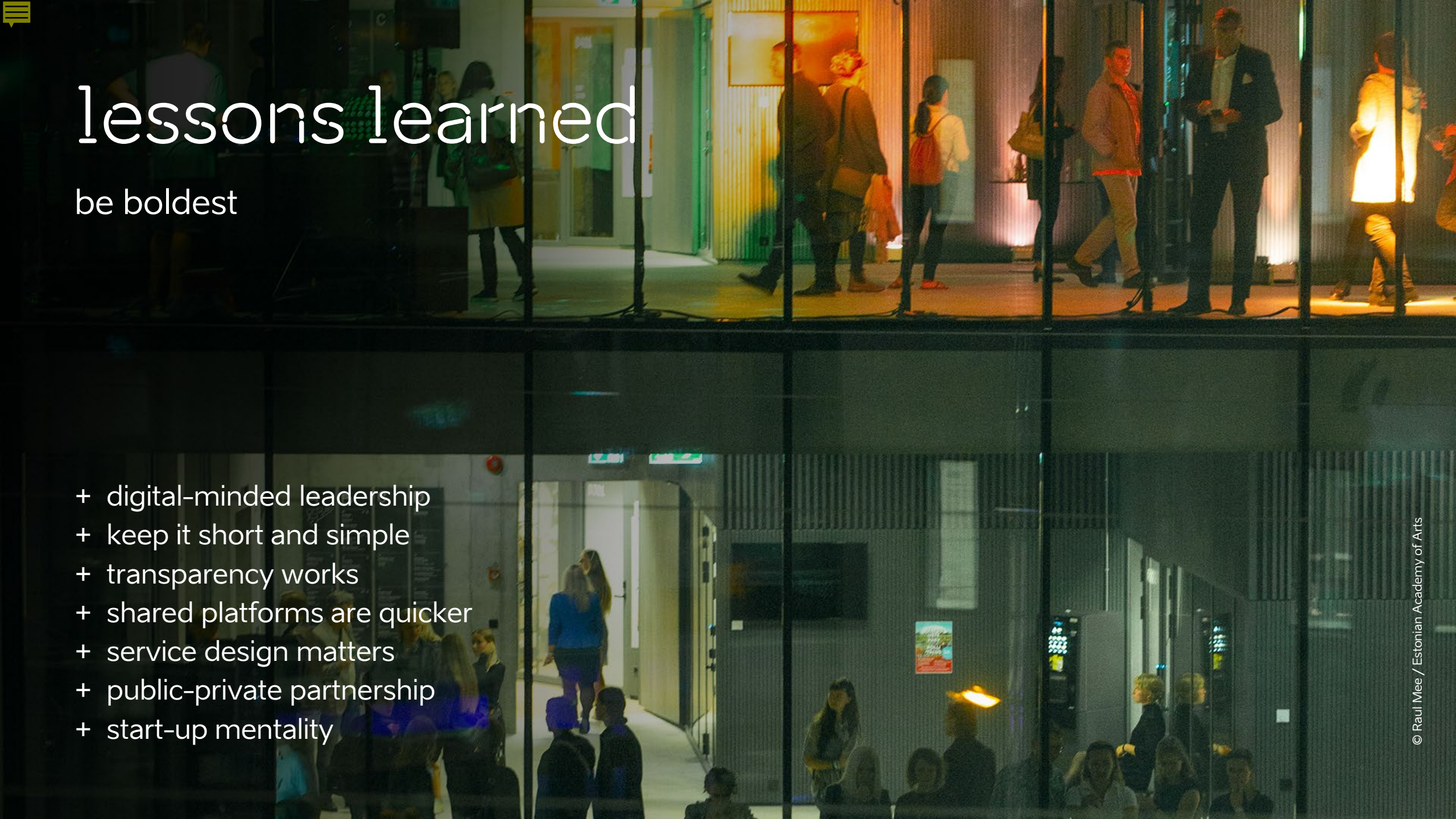
use cases in
Estonian tech & IT
solutions tool



e-solutions from
Estonia's ICT
cluster



cross-border
digital government
solutions



lessons learned

be boldest

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



smarter together

let's keep in touch!

sign up to our newsletter and follow us:

f in e-Estonia

e-estonia@eis.ee