enter
e-estonia

running the cool*est* 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, Digital Nations
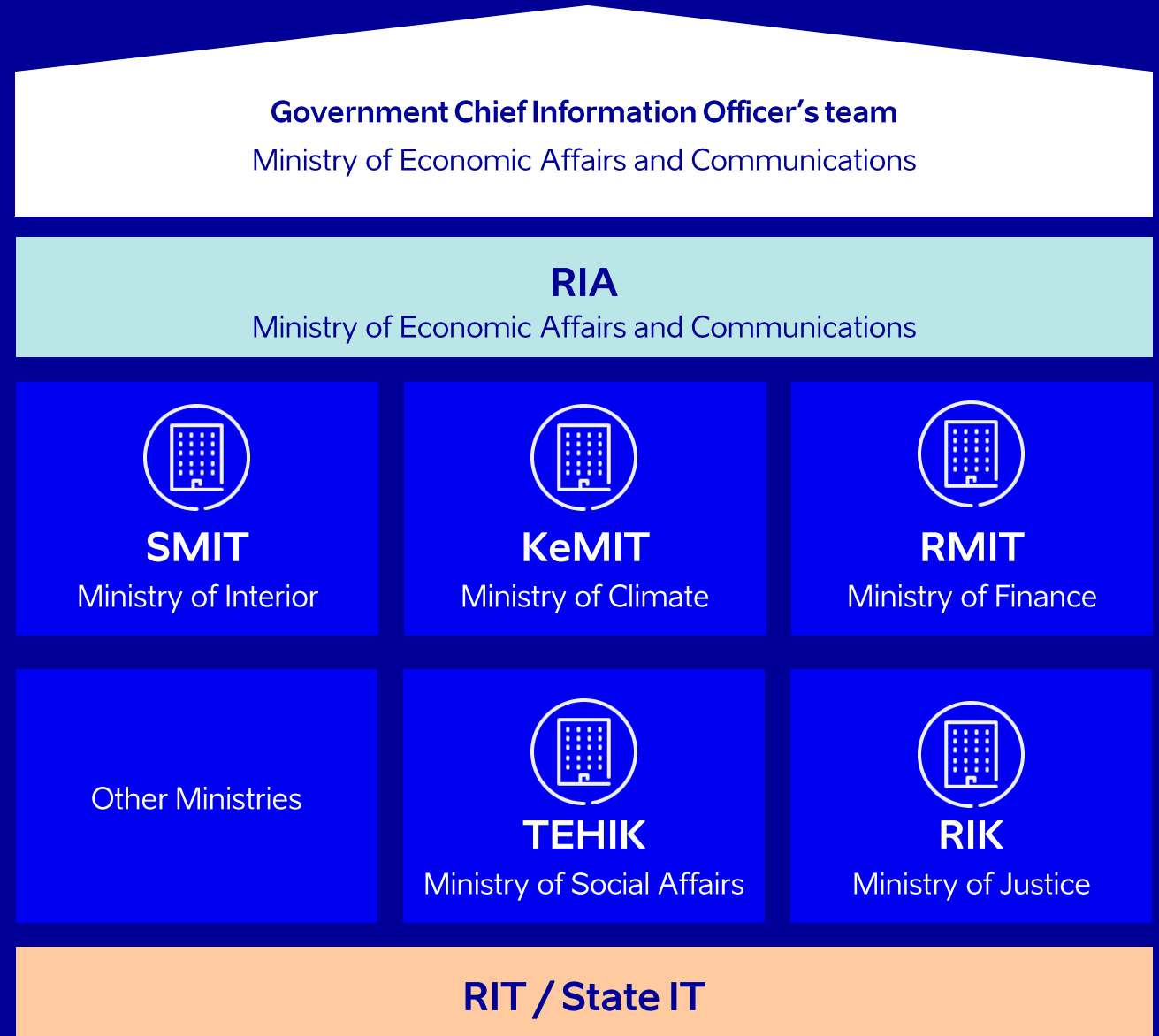+ ICT sector employees: 6,6% of workforce

essential

clear and hon**est** principles

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

government institutions

Government Chief Information Officer's team
Ministry of Economic Affairs and Communications

RIA
Ministry of Economic Affairs and Communications

SMIT
Ministry of Interior

KeMIT
Ministry of Climate

RMIT
Ministry of Finance

Other Ministries

TEHIK
Ministry of Social Affairs

RIK
Ministry of Justice

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

legislation principles

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

identification laws

information society laws

supporting regulations

IT financing

Ministry of Finance

Ministry of Economic Affairs and Communication

Digital Agenda 2030

€1.2 B

EU Funds

SF 222 M (2021-27)

RRF 72 M (2021-25)

Additonal state budget

€30 M (2022)

Ministry coordinates division of budget across the state

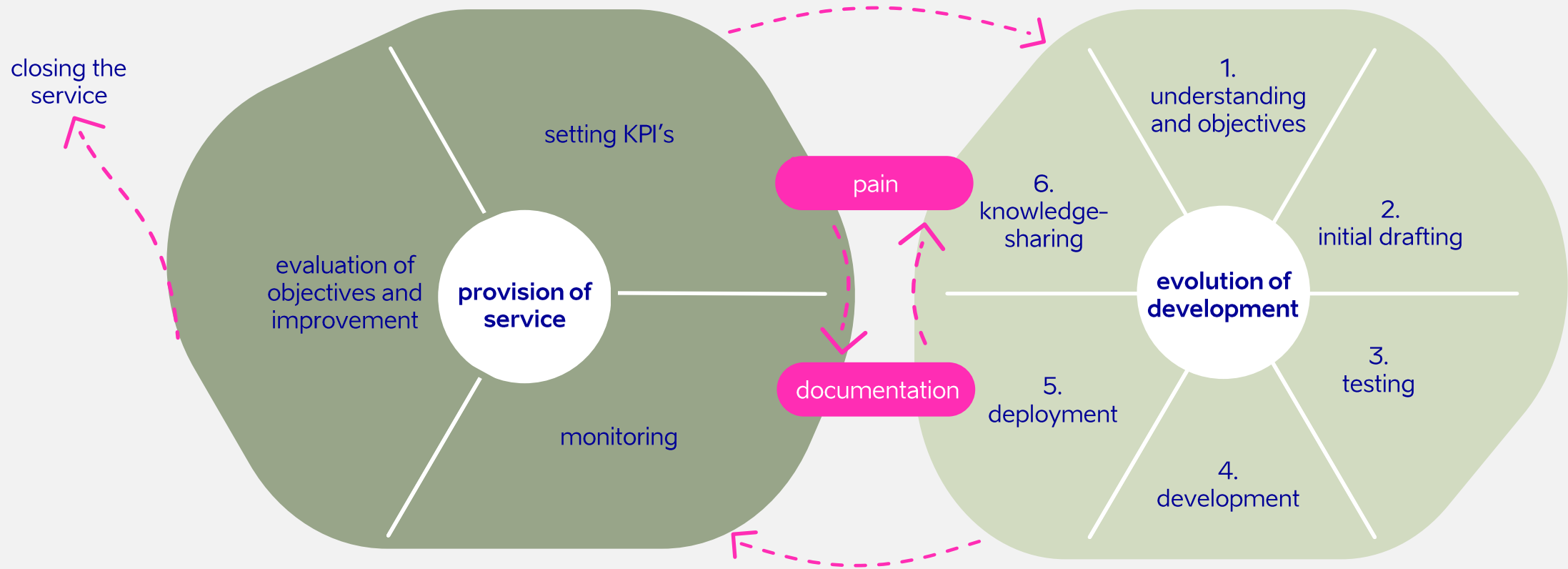expert evaluation for additional resources

ALL MINISTRIES
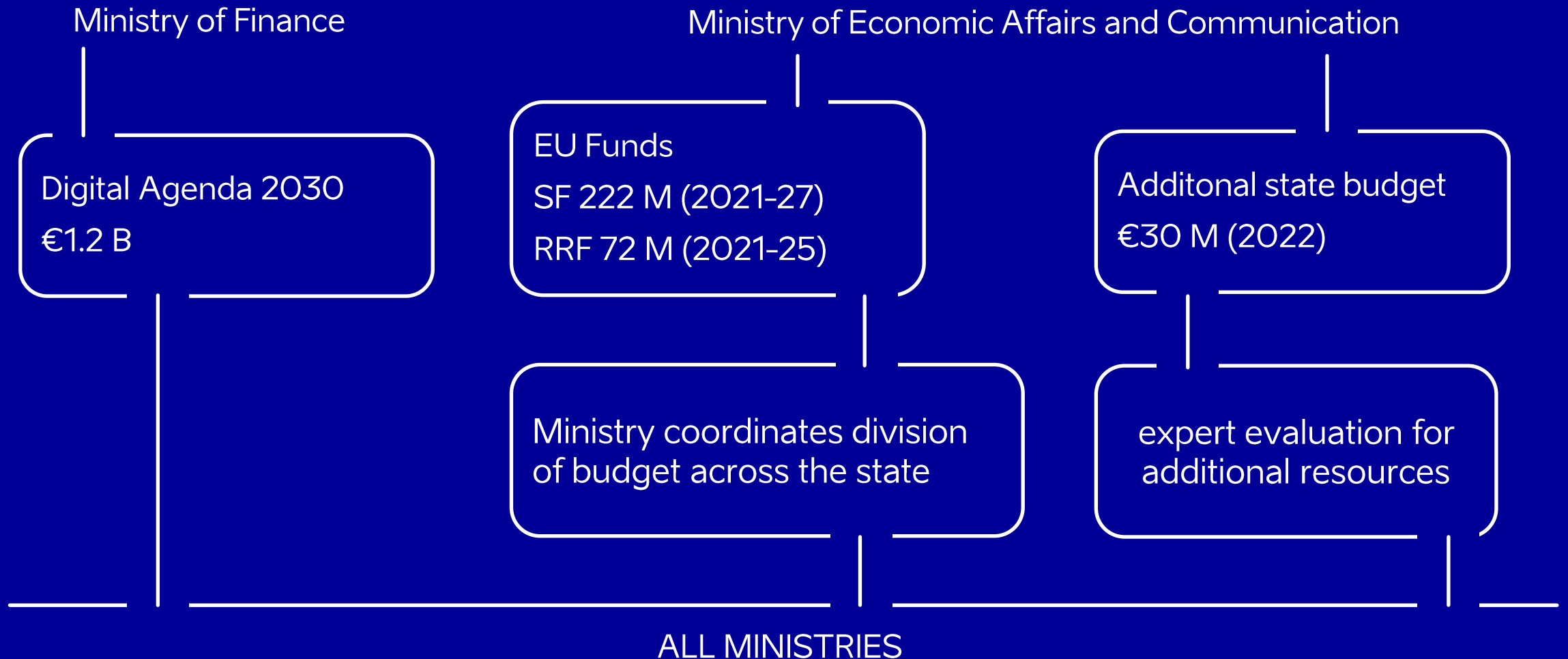
strategic funds

fair**est** funding for innovation

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

electronic ID

the strong*est* identity since 2002

+ electronic ID is compulsory
+ 64% use ID-card regularly
+ 19% people use mobile-ID
+ 51% use smart-ID
+ 100,000+ e-Residents

x-road

the busiest highway since 2001

**X-Road — secure and interoperable open-source data exchange platform**

+ operational in Azerbaijan, Argentina, Cambodia, Colombia, El Salvador, Estonia, Faroe Islands, Finland, Germany, Iceland, Japan, Kyrgyzstan, Vietnam, Brazil

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

+ saving 3 million working hours annually
+ over 3,000 different services
+ over 2,5 billion transactions per year
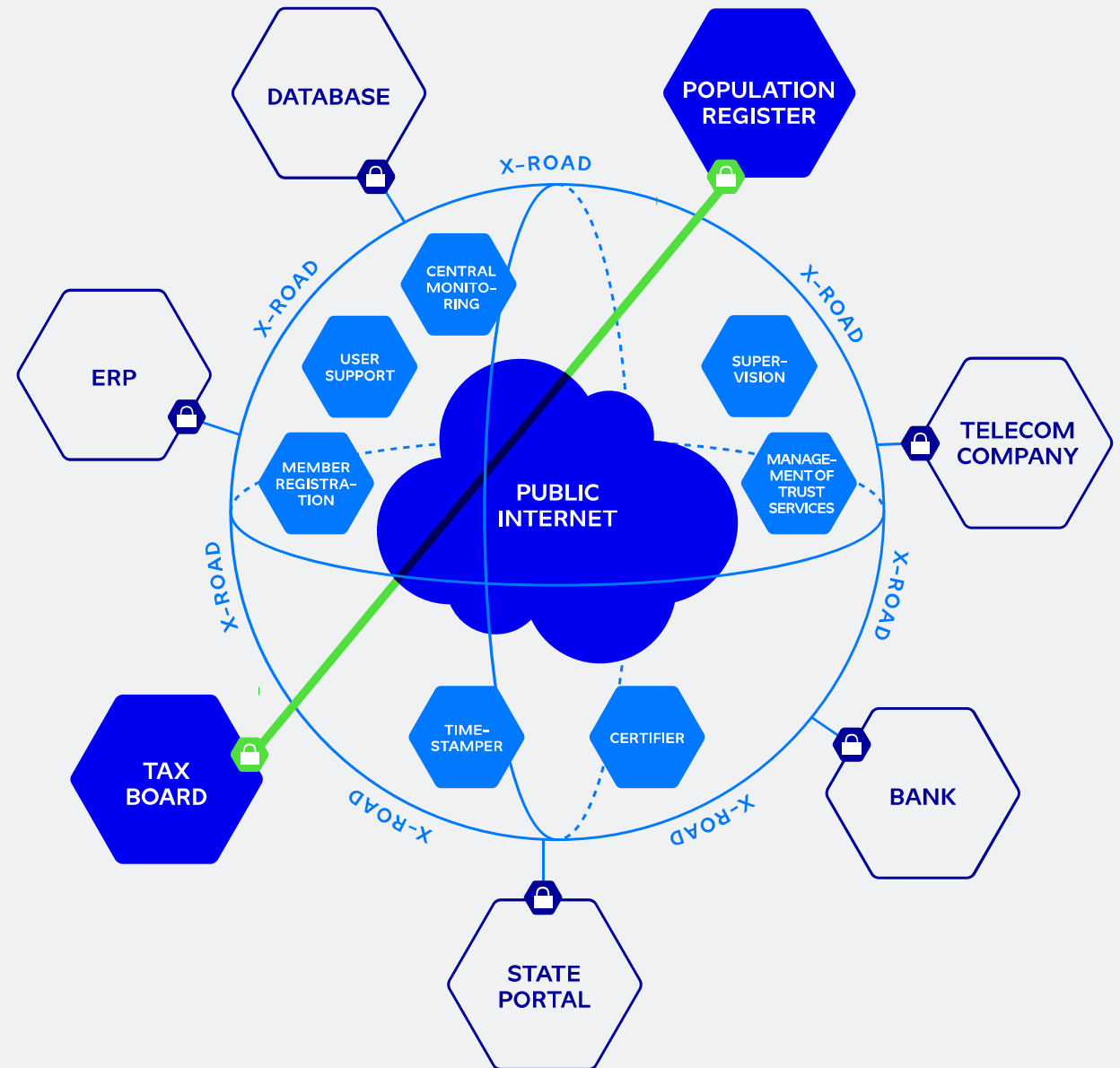
three pillars

the saf*est* combination to information security

confidentiality	availability	integrity
e-Identification: ID-card, mobile-ID Smart-ID, e-residency card	X-Road®	KSI blockchain Data Tracker Data Embassy

cyber security

the strong*est* 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

cyber security essentials

+ extensive cooperation — cyber attacks don't recognise borders
+ transparency leads to more trust
+ adequate resources & supportive regulatory environment
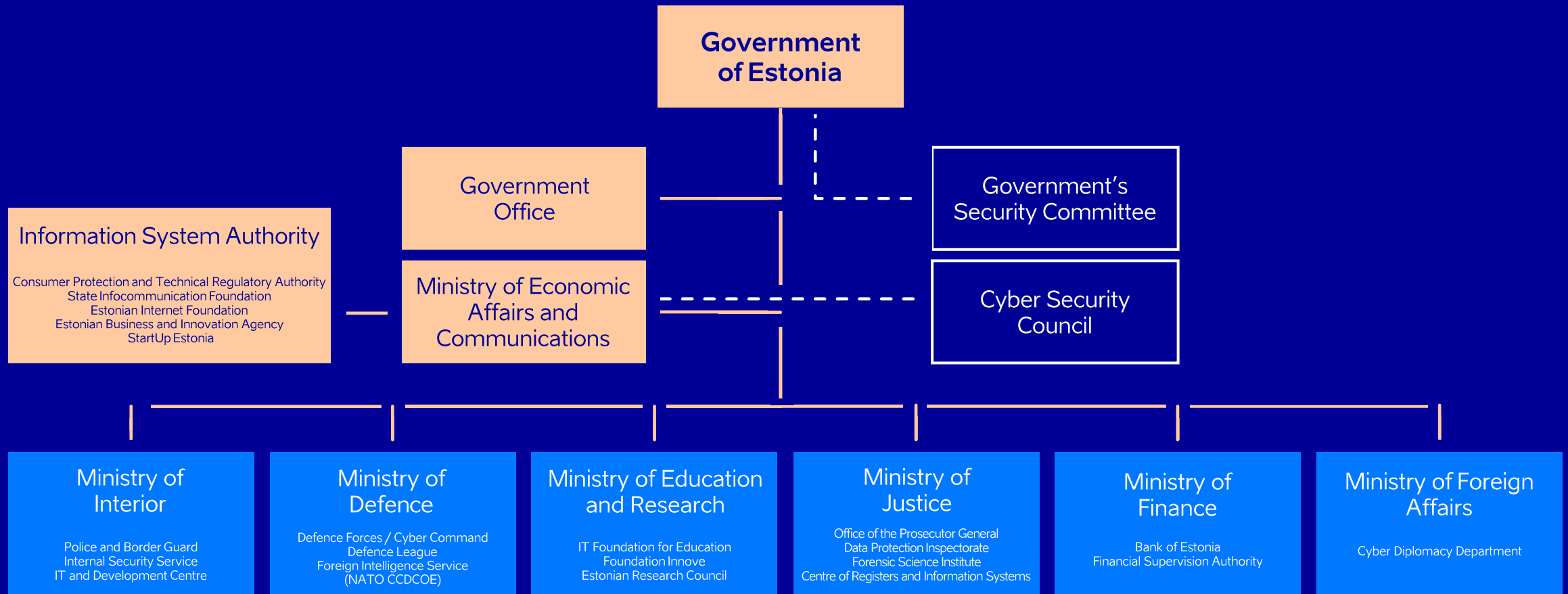+ central coordination
+ focus of cyber hygiene

main coordination formats

securing the digital ecosystem

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

© TalTech

management of National Cyber Security

Government of Estonia

Government Office

Information System Authority

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

Ministry of Economic Affairs and Communications

Government's Security Committee

Cyber Security Council

Ministry of Interior

Police and Border Guard
Internal Security Service
IT and Development Centre

Ministry of Defence

Defence Forces / Cyber Command
Defence League
Foreign Intelligence Service
(NATO CCDCOE)

Ministry of Education and Research

IT Foundation for Education
Foundation Innove
Estonian Research Council

Ministry of Justice

Office of the Prosecutor General
Data Protection Inspectorate
Forensic Science Institute
Centre of Registers and Information Systems

Ministry of Finance

Bank of Estonia
Financial Supervision Authority

Ministry of Foreign Affairs

Cyber Diplomacy Department

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

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digital agenda
2030

estonia full of digital might

+ satisfaction with public digital services
+ super fast, trustworthy and affordable connectivity
+ secure and trustworthy cyber space

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estonishing future

seamless e-services available 24/7

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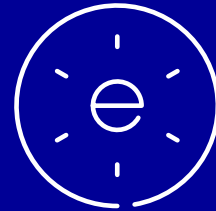+ reduce footprint of ICT

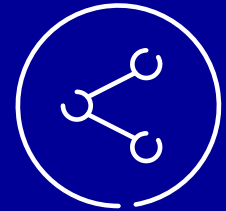© Hans Markus Antson

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 bold*est*

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

smartest together

let's keep in touch!

sign up to our newsletter and follow us:

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