



REPUBLIC OF ESTONIA
INFORMATION SYSTEM AUTHORITY

Information System Authority (RIA)

Piret Urb
Director of International Relations

October 2022

e-Estonia timeline



e-cabinet



e-tax
board



m-parking



X-Road®



e-school



digital
signature



id-card



eesti.ee



id bus
ticket

2000

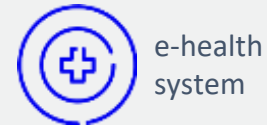
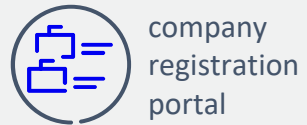
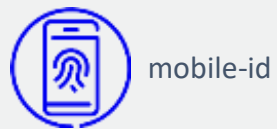
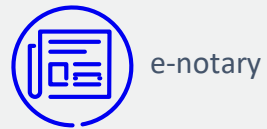
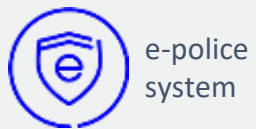
2001

2002

2003

2004

e-Estonia timeline



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-receipt

2011

2012

2013

2014

2015

e-Estonia timeline



NIIS
X-Road®
consortium



data
embassy



kick-off:
proactive
government



crossborder
e-prescription



AI strategy



reporting
3.0



50 public sector
AI
use cases



7 invisible
services

2017

2018

2019

2020

Government's IT powerhouses


Minister of Foreign Trade and Information Technology

Government CIO/Deputy Secretary-General
for IT and Telecom



Information System Authority (RIA)

State network, eID, x-road, state portal, i-voting etc
CERT-EE: 24/7
Incident Response, CIIP, Crises Management & Exercises,
Standard & Supervision
Analyses and Prevention



IT Centre of the Ministry of Interior (SMIT)

Ministry of Interior
Police and Border Guard Board
Rescue Board
Internal Security Service
Emergency Response Centre
Population Register

Center of Registers and Information Systems (RIK)

Ministry of Justice
Prisons
Courts
Prosecutor's Office
Data Protection Inspectorate
Forensic Institute
Patent office
Competition Authority

Cyber Command

Ministry of Defence
Joint Headquarters

ICT Centre of the Ministry of Finance (RMIT)

Ministry of Finance
Ministry of Culture
Tax and Customs Board
Statistics Estonia
Shared Services Centre

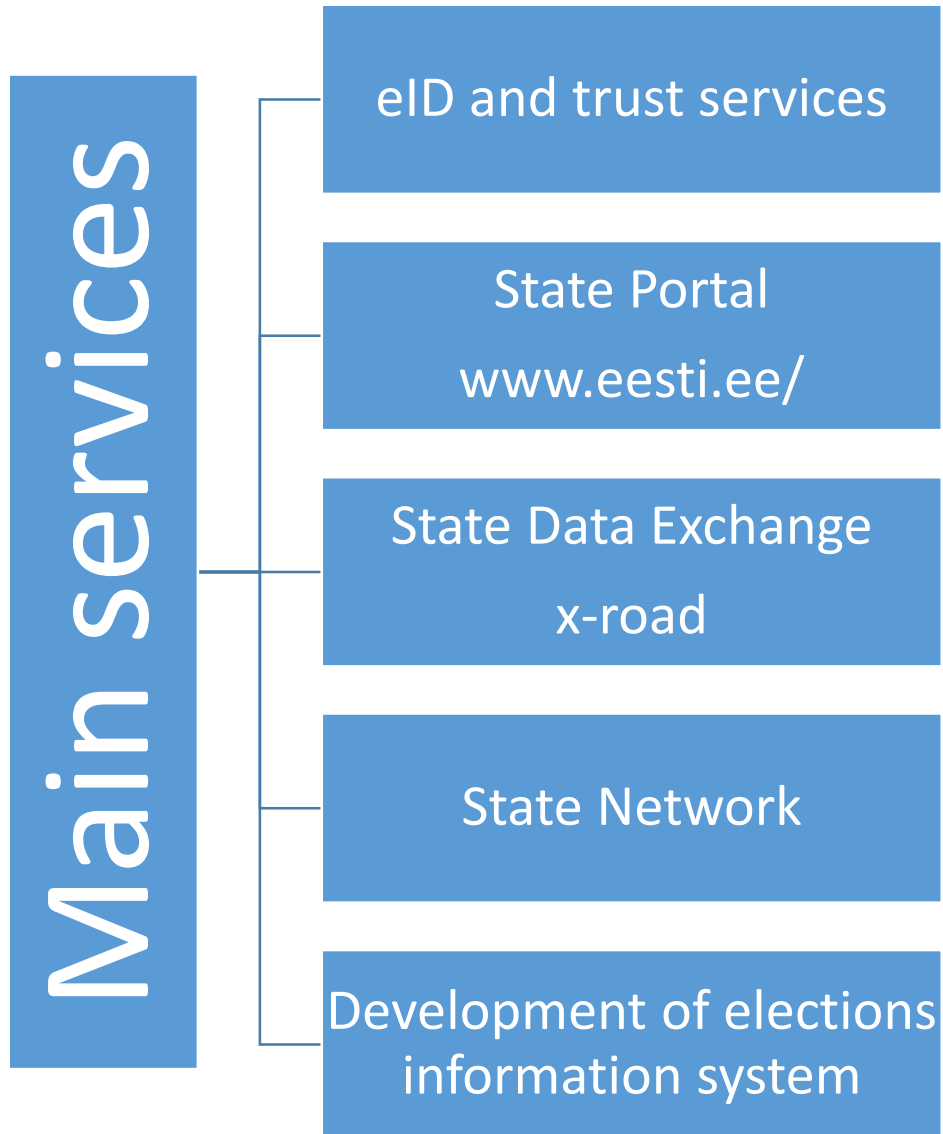
Health and Welfare Information Systems Centre (TEHIK)

Ministry of Social Affairs
Social Insurance Board
Health Board
National Institute for Health Development
Astangu Vocational Rehabilitation Centre

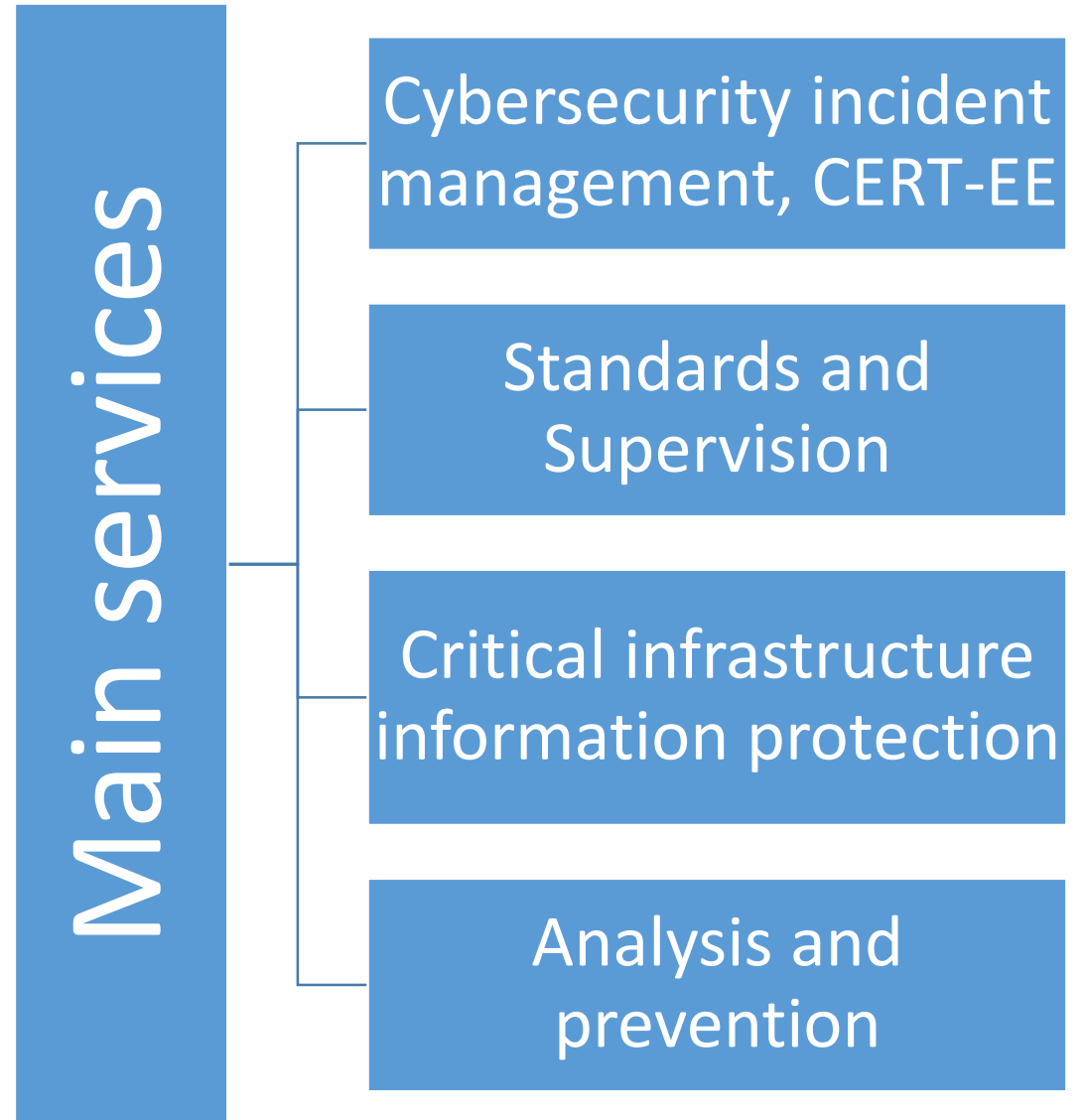
IT Centre of Ministry of Environment (KeMIT)

Ministry of the Environment
Land Board
Environmental Board
etc

E-Government Infrastructure and core elements



Cybersecurity Centre



e-Estonia

State Portal

i-voting

Standards

State Network

Data Exchange

E-Identity

Trainings &
Exercises

Crisis management

International
cooperation

Special projects

Cybersecurity

Supervision

Analysis

CERT-EE

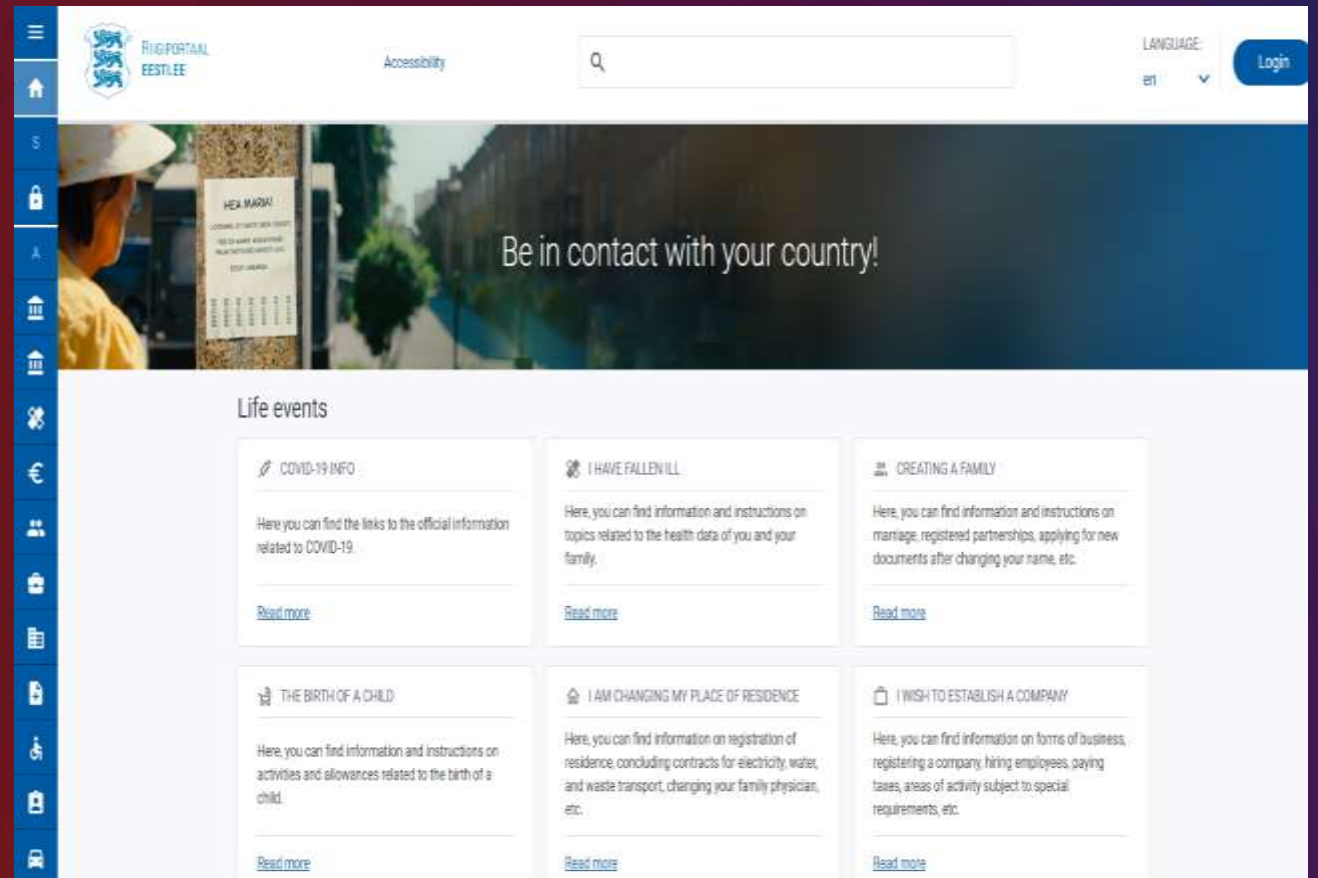
Critical Information
Infrastructure Protection

State Portal www.eesti.ee/

Relevant information on various topics available in one place

The state and local government institutions can send notifications to citizens and companies, e-mail

Life events



The screenshot displays the Estonian State Portal (www.eesti.ee) interface. At the top, there is a navigation bar with the logo 'RIIGIPORTAAL EESTI.EE', an 'Accessibility' link, a search bar, a language selector set to 'en', and a 'Login' button. Below the navigation bar is a large banner image with the text 'Be in contact with your country!'. The main content area is titled 'Life events' and features six cards, each representing a different life event. Each card includes a title, a brief description, and a 'Read more' link.

Life Event	Description
COVID-19 INFO	Here you can find the links to the official information related to COVID-19.
I HAVE FALLEN ILL	Here, you can find information and instructions on topics related to the health data of you and your family.
CREATING A FAMILY	Here, you can find information and instructions on marriage, registered partnerships, applying for new documents after changing your name, etc.
THE BIRTH OF A CHILD	Here, you can find information and instructions on activities and allowances related to the birth of a child.
I AM CHANGING MY PLACE OF RESIDENCE	Here, you can find information on registration of residence, concluding contracts for electricity, water, and waste transport, changing your family physician, etc.
I WISH TO ESTABLISH A COMPANY	Here, you can find information on forms of business, registering a company, hiring employees, paying taxes, areas of activity subject to special requirements, etc.

Data Exchange Layer X-road

Over 1.5 B requests per year
1000 institutions and enterprises
52,000 organisations as indirect users of X-tee services
3000 services
1434 interfaced information systems



Close look at cybersecurity in RIA – responsible for country's cyberspace

CERT-EE (CSIRT) - security incident management, state network monitoring, 24/7 operational

Critical Information Infrastructure Protection/
CIIP



Information Security Standard – tool to decrease the number of incidents:

ISKE – current (old)

E-ITS – new by RIA

Implementation under RIA's supervision

Crisis management

Exercises

Community events

Analysing cyberspace

Prevention and awareness-raising



Challenges

Supply chain security

Secure government cloud

I-voting

Increased IoT

AI, biometrics



RIA's International Projects

EU CyberNet

(Sept 2019 - 2025)

www.eucybernet.eu

Stakeholder community, global partners
Pool of cyber security experts

LAC4 – regional cyber competence center in Santo Domingo

Shares EU cybersecurity expertise



Cyber4Dev

(2018-June 2023)

First global EU cyber security capacity building project

www.cyber4dev.eu

In partnership with the MFAs of the Netherlands and UK

Countries

Sri Lanka, Mauritius, Botswana, Ecuador, Dominican Republic, Costa Rica, etc.





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Thank you!