

REPUBLIC OF ESTONIA INFORMATION SYSTEM AUTHORITY

Estonian Cyber Security Strategy

Uku Särekanno

Director of Cyber Security

March, 2019

Estonia

660 million digital signatures

95% taxes declared online

43% of votes cast online

1 in 50 medical prescriptions on paper



Estonia

Digital public services

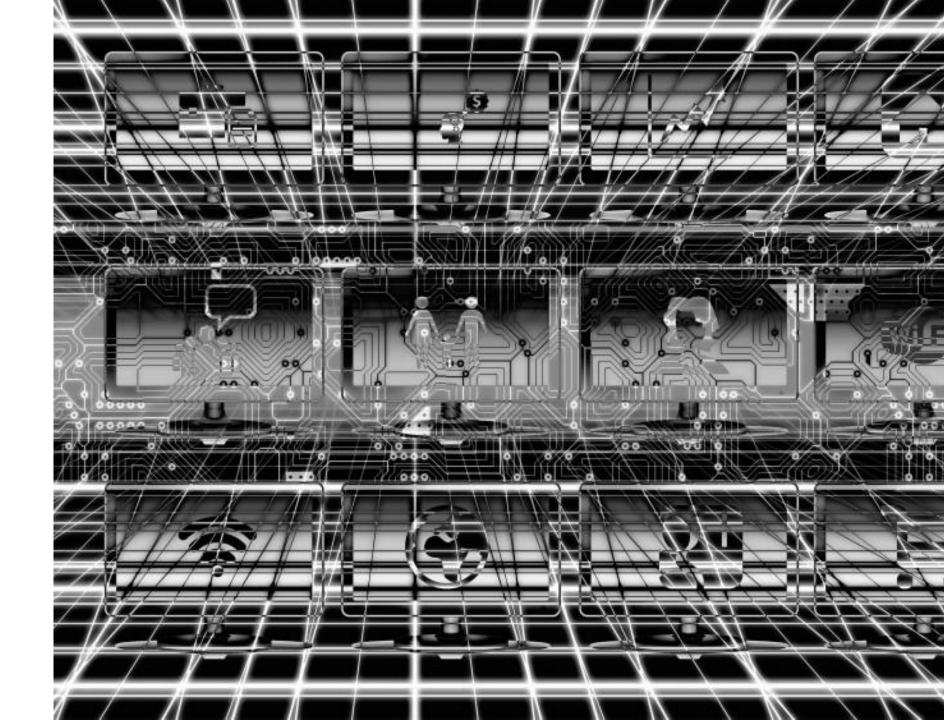
Trust & confidence

Secure architecture

- E-identity
- X-road

Reputation

Community



Changing landscape

1990- 2000 limited impact

2000-2007 growing cyber crime

2007-2013 impact to national security

2013 - ... direct impact and threat to daily life



NCSS

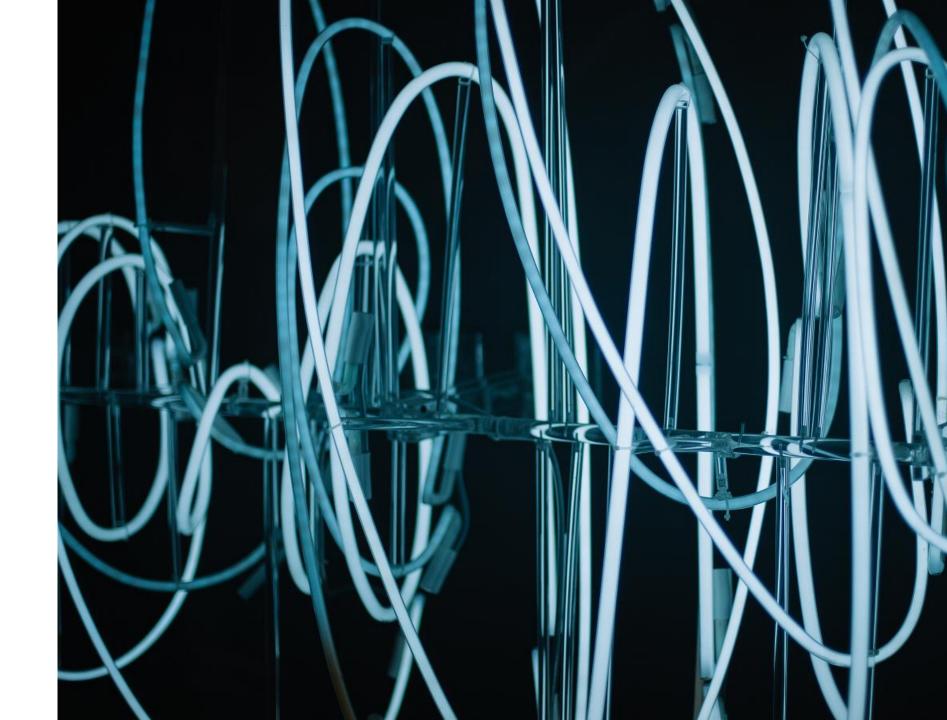
2019-2022 focus on prevention

New standard for network and information security

National Cyber Security Centre

Preventional programs

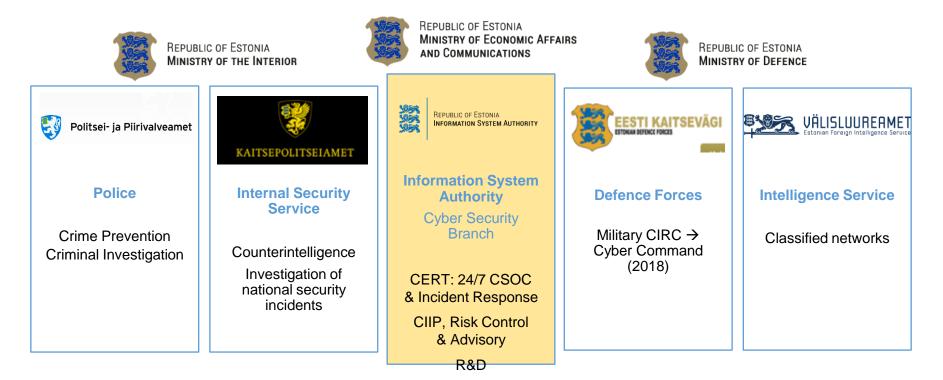
Resilience & continuity





National Security Council

National Cyber Security Council



How do we protect?

Shared responsibility every agency counts

Baseline security standards ISKE, ISO 27001

Awareness CERT 24/7, intel, information sharing



How do we protect?

Community systematic engagement

Collective brain synchronization (exercises, trainings)

Cyber hygiene awareness



RIA

Community

Protection of critical infrastructure baseline standards

Screening of Estonian internet ecosystem

Large scale cyber incidents central coordination authority

Preparedness plans, excercises





REPUBLIC OF ESTONIA INFORMATION SYSTEM AUTHORITY

Uku Särekanno Uku.sarekanno@ria.ee