



MINISTRY OF
ECONOMIC AFFAIRS AND
COMMUNICATIONS

Cyber Security in Estonia: A National Response in the New Risk Environment

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New risk paradigm

What we have seen already?

- Large scale cyber attacks were organised with an attempt to destabilise a country highly dependent on ICT sector
- Cyber attacks were used as a part of a military conflict to disrupt communications of an adversary

THE NEW NORMAL!!

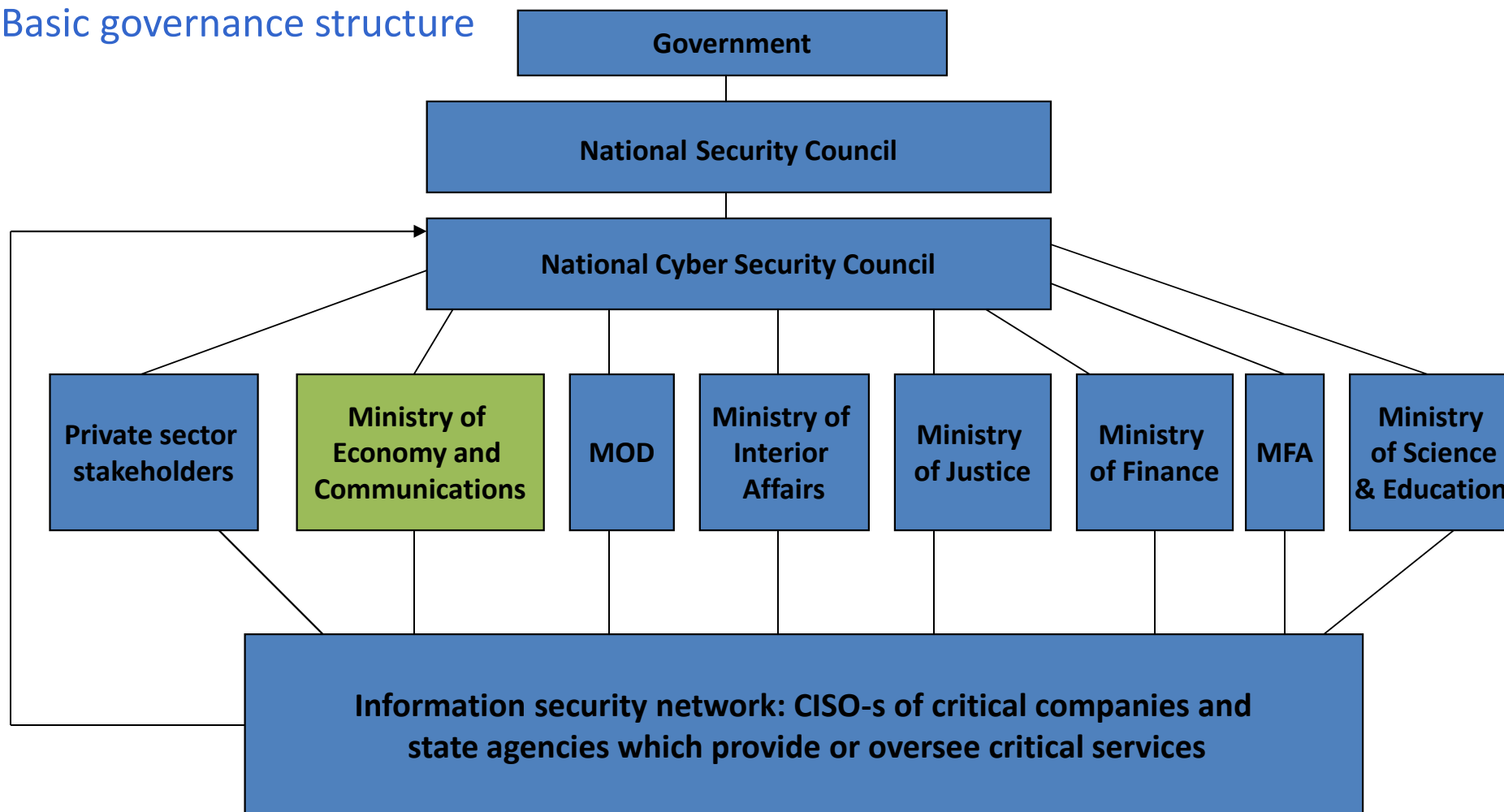
Future?

- The likelihood is growing that there will be severe cyber catastrophes in future
- Malicious state-sponsored actors and terrorists exploit the most vulnerable part of cyberspace – civilian infrastructure
- Cyberbattles will be inevitable part of future military conflicts





Basic governance structure





National policy development

A keyword : policy coordination

- Setting clear national strategic goals
- Inclusion and cooperation: security analysts, technical experts, lawyers, diplomats, regulators
- Overcoming a gap between expert level and decision-makers
- Establishing and maintaining dialogue with private sector
- Escalation mechanism to the highest decision-making level
- Educating and briefing top decision-makers
- Institutional changes if needed



Protection of critical information infrastructure

- New methods of vulnerability assessments of CII, determining interdependence of CII,
- Implementation of additional security measures for critical information infrastructure
- Legal framework supporting this system – Art 13a?!?
- Improvement of interdepartmental coordination, new structures for warning, advising and oversight of CII



PPP v Smart Engagement

Identification of critical services/critical information infrastructure

Building and maintaining a dialogue with critical service providers

Regular assessment of IT vulnerabilities and interdependencies
between critical functions

Maintaining a nation-wide early warning system with most critical
companies



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