

Building National Strategies for Digitalization



Jarno Linnéll
Professor of Practice, Cybersecurity, Aalto University
Adjunct Professor, Tampere University of Technology
VP, Insta Group
@JarnoLim

FINNISH NIGHTMARES



WHEN A STRANGER LOOKS
YOU IN THE EYES

AND SMILES

KOKONAISTURVALLISUUS



The importance of Digital Security

The image features a blue-toned digital environment. The ground is covered in a grid of binary code (0s and 1s) that recedes into the distance. Several white silhouettes of people in business attire are scattered throughout the scene, some standing and talking, others walking. In the background, there are glowing rectangular frames and a large, bright, glowing archway. The overall aesthetic is clean, modern, and high-tech.



Cultural

Culture of responsibility

Security

**No trust without security,
No security without trust**



How to strengthen trust?

Finland's Cyber security Strategy

**“Finland will be a
global forerunner in
cyber threat
preparedness and in
managing the
disturbances caused
by these threats”**

Government Resolution 24.1.2013

**Information Security Strategy for Finland
The World's Most Trusted Digital Business
Environment**



MINISTRY OF TRANSPORT
AND COMMUNICATIONS

**Technology creates many opportunities
but also new threats.**

mandollisuudet

Valtiovarainministeriön julkaisu – 10/2017



**Digital security as
a necessity and an enabler**

Martti Lehto, Jarno Limnell, Eeva Innola,
Jouni Pöyhönen, Tarja Rusi, Mirva Salminen

**Suomen kyberturvallisuuden nykytila,
tavoitetila ja tarvittavat toimenpiteet
tavoitetilan saavuttamiseksi**





Study Predicts 1.5M Global Workforce Shortfall in Information Security

The 2015 (ISC)² Global
Information Security Workforce Study

FROST & SULLIVAN

Under Embargo Until 12:01 a.m. Eastern Time, April 16, 2015

A Frost & Sullivan White Paper

Michael Suby, VP of Research
Frank Dickson, Research Director
Information & Network Security

A Frost & Sullivan Market Study in Partnership with:

(ISC)² Booz | Allen | Hamilton
strategy and technology consultants

NRI SECURE
TECHNOLOGIES

CYBER 360
A WOMAN-OWNED BUSINESS



CYBER SECURITY

**“Cyber arms race” for talented
individuals**

COURTESY OF NOODLETAIL



A couple of Finnish farmers went and attached a chainsaw to a drone.





**“It is not the strongest species that survive, nor the most intelligent, but the ones responsive to change.”
- Charles Darwin**

jarno.limnell@aalto.fi