



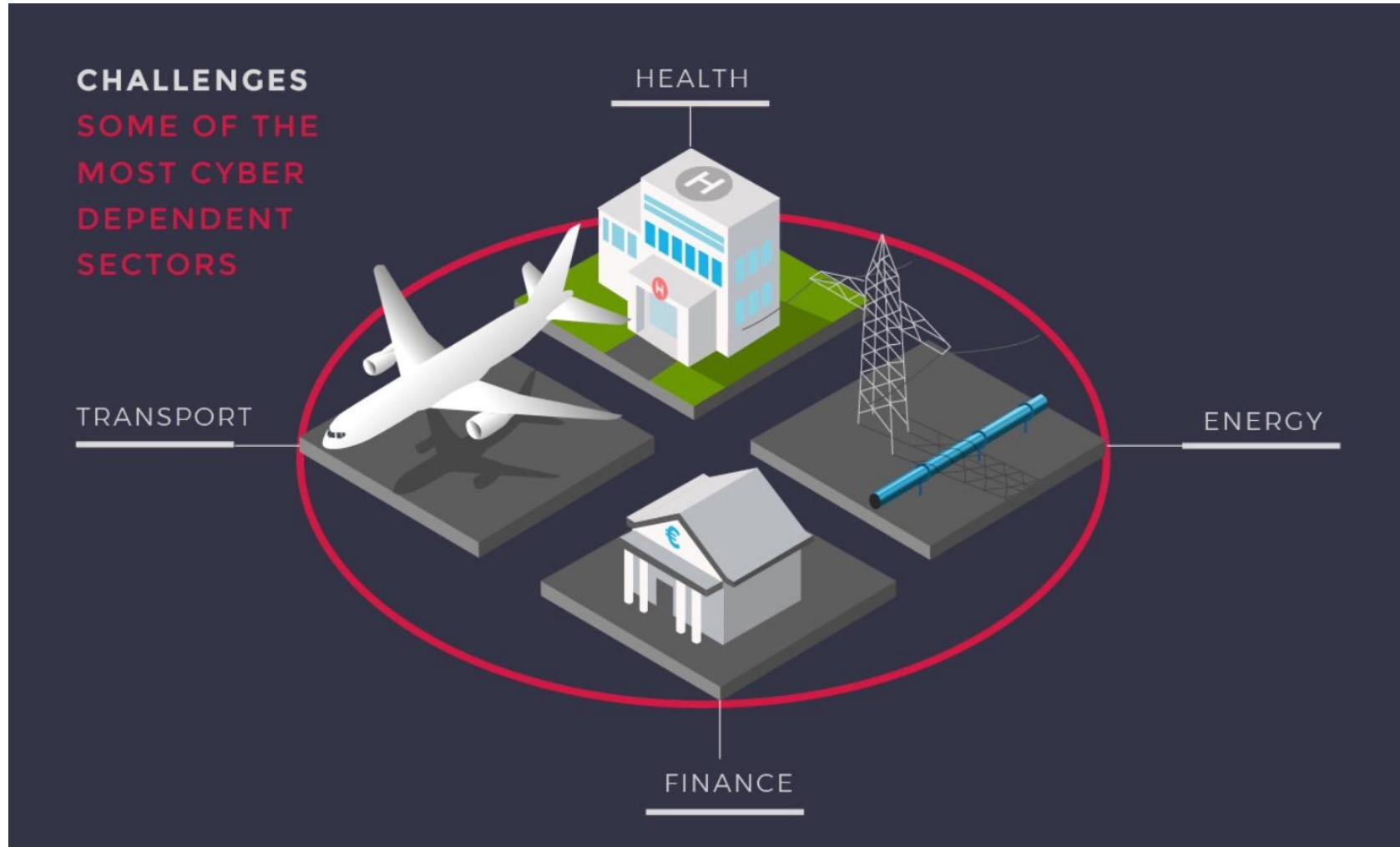
# EU:n rooli kyberturvallisuudessa

29.1.2019



# Kyberturvallisuus haastaa eri sektoreita

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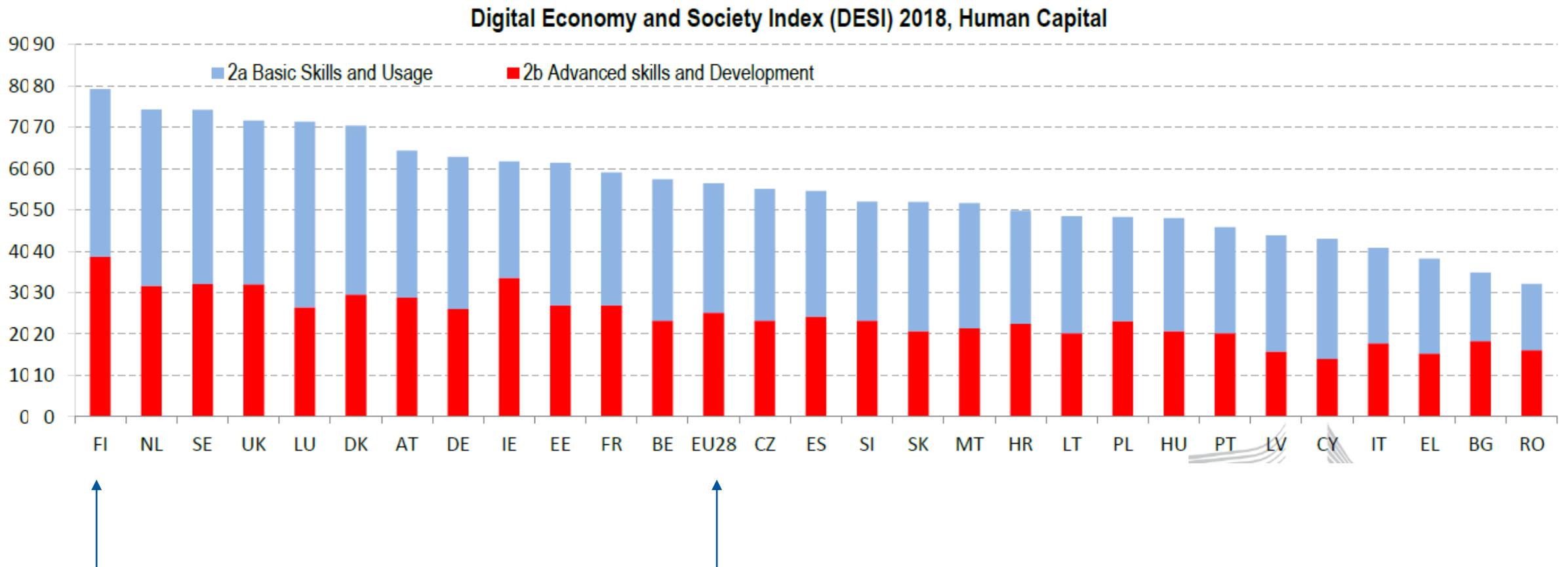
# Kyberturvallisuuden suunnat

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- Osaaminen
- Kansallinen resilienssi
- Ajantasainen lainsäädäntö
- Trendit



# Eurooppalaisten digitaidot 2018

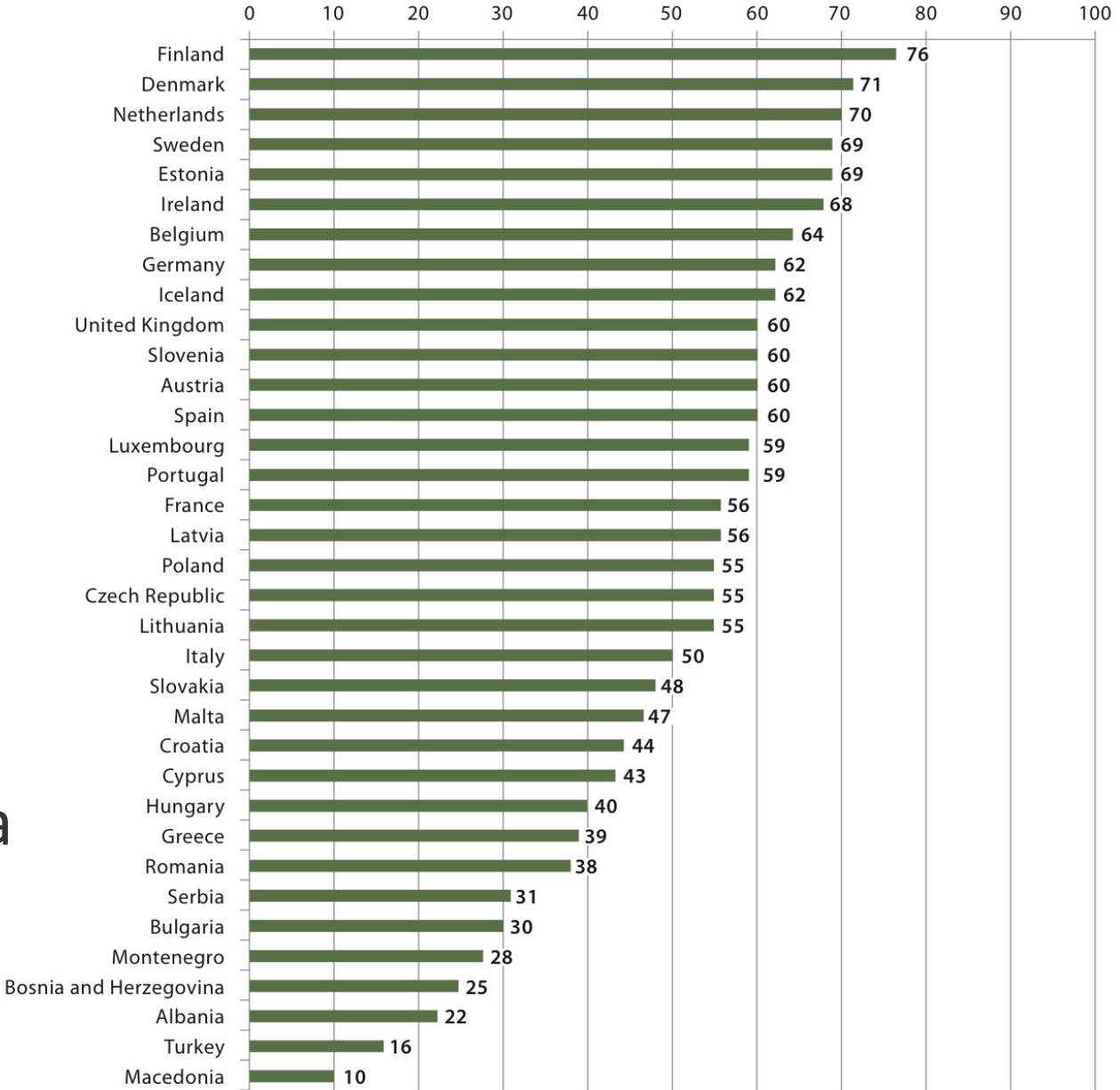


**Media Literacy Index 2018**

# Kansallinen resilienssi

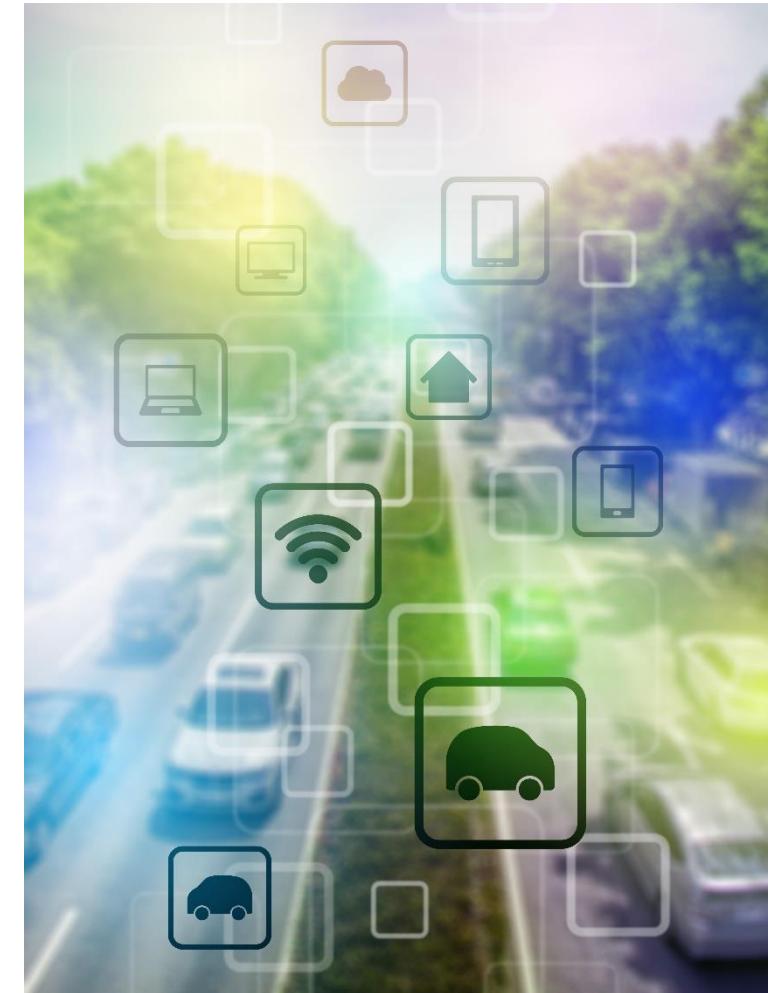
Open Society Institute 2018:  
Pyritään päättellemään  
kansalaisten medialukutaidon  
tasoa mittaamalla:

- lehdistönvapautta,
- koulutuksen laatua,
- ihmisten välistä luottamusta ja
- digitaalista osallisuutta.



# Eurooppalainen lainsääädäntö päivittyy

- The Cybersecurity Act:
  - 1) Kyberturvallisuusvirasto
  - 2) Kyberturvallisuussertifikaatti
- Tietoturvadirektiivi (NIS)  
voimaan Suomessa 9.5.2018



# Kyberuhkien suuret trendit 2018

## ENISA Threat Landscape Report

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- Mail and phishing messages have become the primary malware infection vector.
- Exploit Kits have lost their importance in the cyberthreat landscape.
- Cryptominers have become an important monetization vector for cyber-criminals.
- State-sponsored agents increasingly target banks by using attack-vectors utilised in cyber-crime.
- Skill and capability building are the main focus of defenders. Public organisations struggle with staff retention due to strong competition with industry in attracting cybersecurity talents.
- The technical orientation of most cyberthreat intelligence produced is considered an obstacle towards awareness raising at the level of security and executive management.
- Cyberthreat intelligence needs to respond to increasingly automated attacks through novel approaches to utilization of automated tools and skills.
- The emergence of IoT environments will remain a concern due to missing protection mechanisms in low-end IoT devices and services. The need for generic IoT protection architectures/good practices will remain pressing.



# What

## - ENISA Threat Landscape Report 2018

Top Threats 2017	Assessed Trends 2017	Top Threats 2018	Assessed Trends 2018	Change in ranking
1. Malware	➡	1. Malware	➡	→
2. Web Based Attacks	↑	2. Web Based Attacks	↑	→
3. Web Application Attacks	↑	3. Web Application Attacks	➡	→
4. Phishing	↑	4. Phishing	↑	→
5. Spam	↑	5. Denial of Service	↑	↑
6. Denial of Service	↑	6. Spam	➡	↓
7. Ransomware	↑	7. Botnets	↑	↑
8. Botnets	↑	8. Data Breaches	↑	↑
9. Insider threat	➡	9. Insider Threat	↓	→
10. Physical manipulation/ damage/ theft/loss	➡	10. Physical manipulation/ damage/ theft/loss	➡	→
11. Data Breaches	↑	11. Information Leakage	↑	↑
12. Identity Theft	↑	12. Identity Theft	↑	→
13. Information Leakage	↑	13. Cryptojacking	↑	NEW
14. Exploit Kits	↓	14. Ransomware	↓	↓
15. Cyber Espionage	↑	15. Cyber Espionage	↓	→

Legend: Trends: Declining, Stable, Increasing  
Ranking: Going up, Same, Going down



**HENNA VIRKKUNEN**  
europarlamentaarikko

**Kiitos!**



[hennavirkkunen.fi](http://hennavirkkunen.fi)

