## Cyber reality now - and what next?

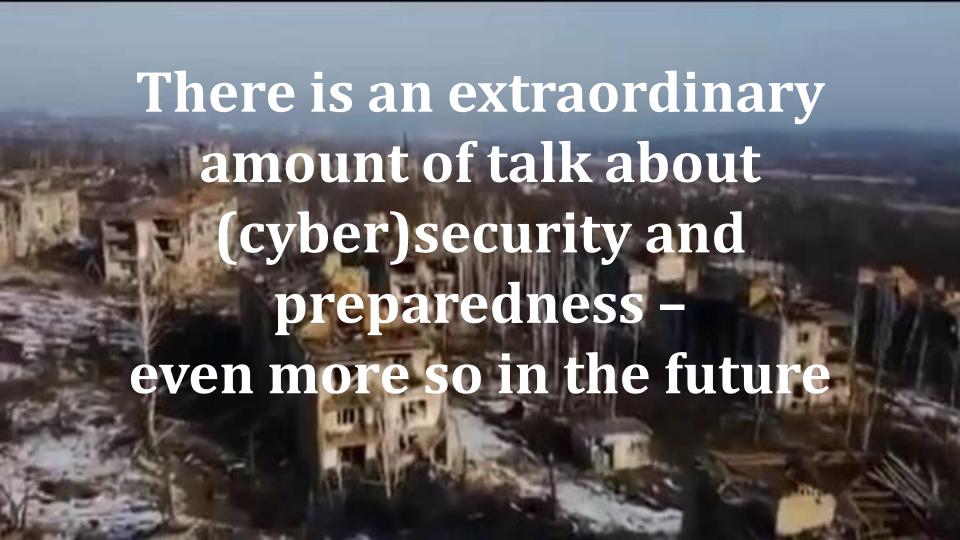
**Bank of Finland, 30.10.2024** 

Jarno Limne I

Member of Parliament

Adjunct professor, National Defence University, University of Jyväskylä, University of Tampere Member of Expert network in World Economic Forum Doctor of Military Science









### Pagers Explode Across Lebanon In Attack On Hezbollah



Production lines, insider

**Cyber-physical operation** 

**Psychological affect** 

# Fast development in cyberworld and technology

Blurring state-actors and non state-actors

Understanding of digital vulnerabilities







-

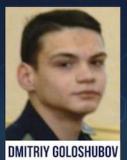
Russia plotting sabotage across Europe, intelligence agencies warn

# REWARD UP TO \$10 MILLION FOR INFORMATION ON RUSSIAN MILITARY INTELLIGENCE OFFICERS











These individuals are members of Unit 29155 of the Russian General Staff Main Intelligence Directorate (GRU), which has conducted malicious cyber activity against U.S. critical infrastructure, particularly in the energy, government, and aerospace sectors.

These Unit 29155 GRU officers are responsible for targeting critical infrastructure in the Ukraine and dozens of allied Western countries.

Anyone with information on Vladislav Borovkov, Denis Igorevich Denisenko, Yuriy Denisov, Dmitry Yuryevich Goloshubov, and Nikolay Aleksandrovich Korchagin, GRU's malicious cyber activity, or associated individuals and entities should contact Rewards for Justice via the Tor-based tips-reporting channel below.





# Hybrid influence in the coming months?

- Information Influence, affects political decision -making and social atmosphere
- Land, marine and airspace, violation of state borders in their various forms
- Cyber attacks: telecommunications, finance, critical infrastructure, cyber espionage, health care information cystems
- Energy
- Human flows to the eastern border
- Disturbing of foreign trade (sea)
- ??



## Layers of Cyberspace



Social layer

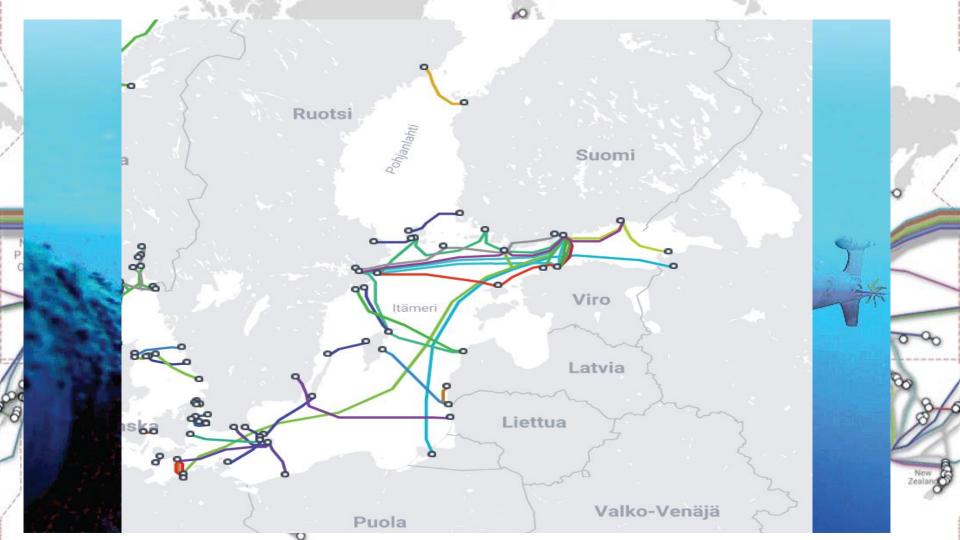
(Cognitive Cyber)

Logical layer

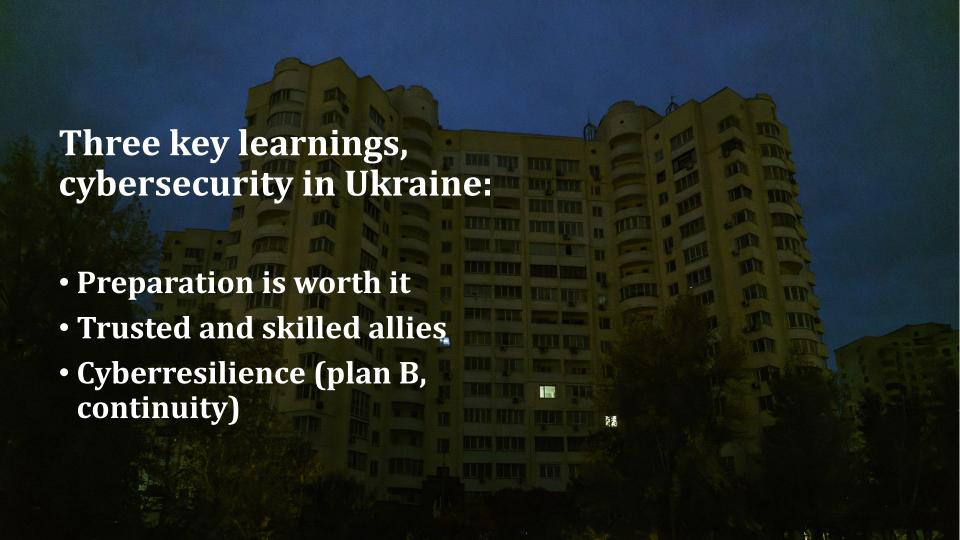
(Software Cyber)

**Physical Layer** 

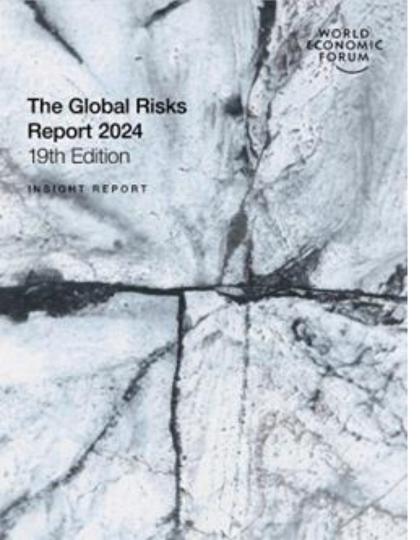
(Physical Cyber)









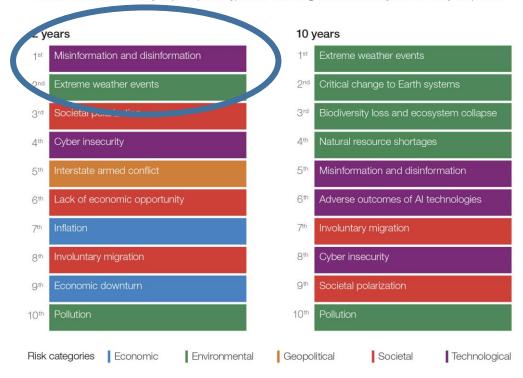


Global Risks Report 2024

#### Top 10 risks



"Please estimate the likely impact (severity) of the following risks over a 2-year and 10-year period."



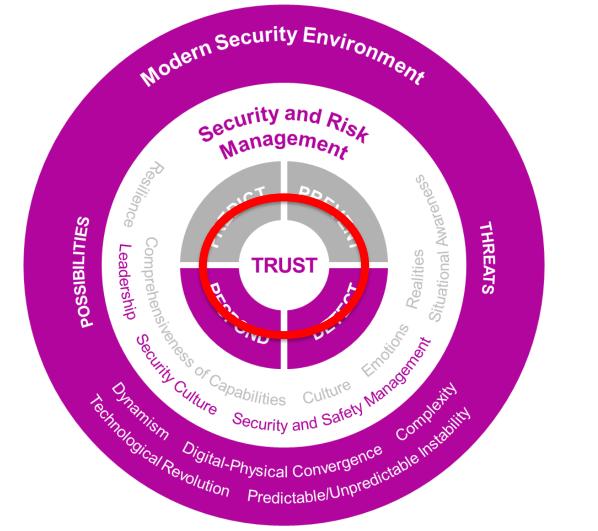
Source: World Economic Forum Global Risks Perception Survey 2023-2024.

### "CELIBITA"

### To remember:

- 1. One security, including communications
- 2. Situational awareness, security is a process
  - 3. Importance of resilience
- 4. Practice know your vulnerabilities and manage risk level
- 5. The importance of staff motivation and vigilance







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

Thank you