

**BUSINESS  
FINLAND**

# **DIGITAL RESILIENCE AND CYBERSECURITY ECOSYSTEMS**

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# BUSINESS FINLAND



**Digitalization based  
boost for productivity**

**Mission Digital  
Native**



**Comprehensive health  
& wellbeing**

**Mission Healthcare  
reimagined 2035**



**Engaging and  
immersive experiences**

**Mission Immersive  
digital life**



**Carbon neutral &  
resilient energy system**

**Mission Zero  
Carbon Future**



**Zero waste & circular  
economy**

**Mission Circular  
Transition to Zero  
Waste**

# MISSIONS



# WHY DIGITAL RESILIENCE

Digital resilience is the ability of an organization and a society to prevent, respond and quickly recover from disruptive events by using digital technologies and solutions.

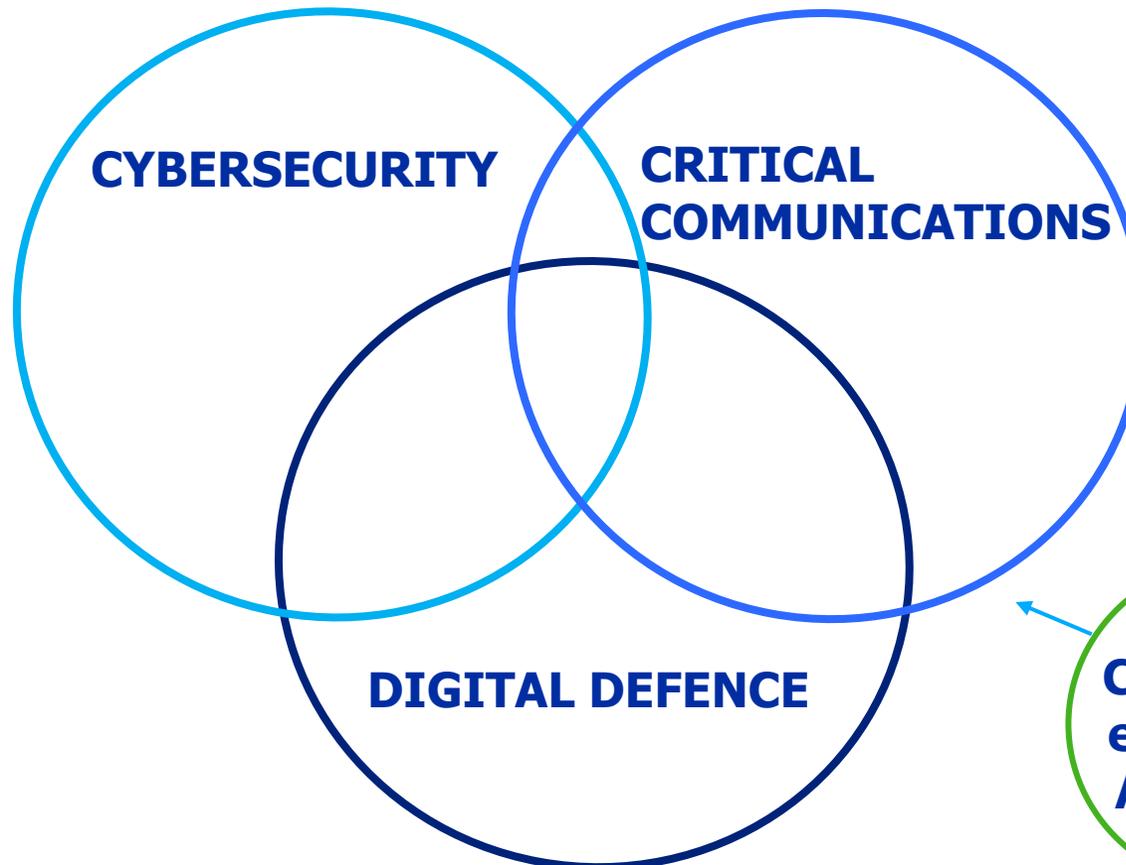
Intelligent and synergetic digital solutions in cybersecurity, selected dual-use technologies and critical communication provide safety, security and business continuity to societies and critical infrastructures.

- Global mega trends in digitalization (e.g. genAI, quantum computing, IoT, cloudification) require new capabilities to protect societies.
- Polarized geopolitics, need for stronger European sovereignty and Finland as a NATO country open new opportunities. Time to act is now.
- National goals for security and resilience in the government program and digi compass (EU's digital decade) require action from Business Finland.

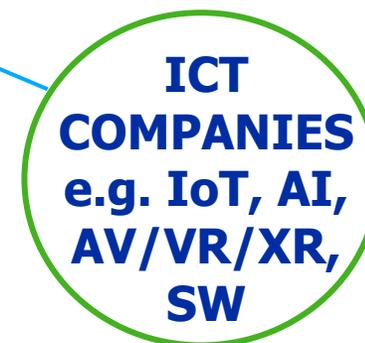


# WHAT – COMPREHENSIVE AND DISRUPTIVE DIGITAL RESILIENCE SOLUTIONS

Solutions for Critical Infrastructure providers.  
E.g. Quantum-proof identity and access management.



Solutions for end customers in Public Safety and Critical Communications.  
E.g. Situational awareness solutions.



Digital solutions for defence sector

# DIGITAL RESILIENCE GOALS

**Competitiveness through excellence of customer-focused RDI in cybersecurity, dual-use technologies and critical communications**

**Enhanced access to and value of innovation and business collaboration in international frameworks such as EU and NATO**

**Globally pioneering digital solutions for comprehensive security in societies and businesses**

**Significant revenue growth through export promotion of digital resilience offerings and business ecosystems**



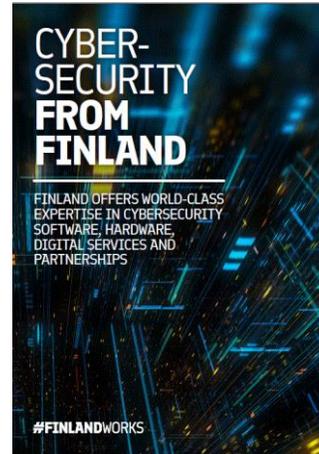
# END CUSTOMERS AND MARKETS

- **Providers of critical infrastructure solutions and services**  
E.g. Energy, communication networks, health, industrial manufacturing, maritime, finance. Both public and private companies.
- **Defence sector organizations** in need of intelligent digital solutions.
- **Organizations of public safety and security.**  
Authorities and governmental organizations, e.g. operators, police, border control, fire & rescue, marine. Some private industries e.g. mining, ports.
- **System Integrators, or partner companies**
- **Proactive target markets** - like-minded countries and NATO member countries.



# PROGRAM SERVICES - VALUE ADD

- Theme specific, often tailor-made market intelligence studies
- Networking events – info sharings from possibilities in EU and NATO frameworks
- Support for creation of joint-offerings with supporting export activities such as trade missions, fairs, delegations
- Introductions to e.g. invest in or export customers, opening doors when needed via Team Finland network
- Advising to right services that support ecosystems to grow and succeed
- Pathway to all 'normal' BF services



**European Funding Seminar 11/2023 with Traficom and FISC**



**PQC Co-innovation Final Seminar 05/2022**

**BUSINESS  
FINLAND**

**ECOSYSTEMIC  
COLLABORATION-  
LEADING COMPANIES**

# LEADING COMPANY (VETURI) ECOSYSTEMS

## LEADING COMPANY

- Takes up the challenge by significantly increasing its R&D activities or investments in Finland
- Uses R&D as a tool to tackle a bold and inspirational mission
- Tackles the mission together with its ecosystem partners

## BUSINESS FINLAND

- Grant for a leading company max 20M€ / company, 40(-50)%, 3-5 years
- Payments and continuation of the project according to the goals achieved



## ECOSYSTEM

- Research organizations, companies and other partners developing partial solutions for the mission
- Broad impact on R&D investments, new knowledge and growth of the ecosystem partners

## BUSINESS FINLAND

- Funding for projects of the ecosystem partners, BF normal funding criteria.
- Max 50 M€/5 years

# LEADING COMPANIES AND CHALLENGERS

## NESTE

Sustainable and globally scalable solutions to reduce the use of crude oil

## ABB

Platforms for the optimal generation and consumption of electricity in a carbon-neutral society

## FORTUM & METSÄ GROUP

New fiber-based products for consumer markets to reduce the carbon footprint.

## KONE

Mobility solutions for urban environments in line with the principles of sustainable development

## NOKIA 5G

Making Finland a pioneer in 5G networks

## NOKIA EDGE

Energy efficient edge-computing

## WÄRTSILÄ

Zero emission marine

## WÄRTSILÄ

Wide & Intelligent Sustainable Energy

## SANDVIK

Globally competitive electric and digital solutions for heavy machinery

## TIETOEVRY

Trust based digital services

## BOREALIS POLYMERS

Sustainable plastic industry

## MEYER TURKU

Climate neutral cruise ship and shipyard

## VALMET

Circular economy technology

## BITTIUM

Seamless and Secure Connectivity

## DANFOSS

Fossil free future

## KONECRANES

Zero4 material flow

## MIRKA

Shaping the Green Transition

## PATRIA

Disruptive digital capabilities

## ORION

A Digital Boost for the Finnish Pharmaceutical R&D

## PICOSUN

Chip zero

## PONSSE

Unlocking sustainability in off-road and commercial vehicles

## KEMPOWER

Heavy Electric Traffic Ecosystem

## VALIO

Food 2.0

# IMPACTS

## Challenge competition 2020

- Neste, Nokia, Fortum and Metsä, ABB, KONE, Sandvik
- RDI increase commitments cumulatively 525 M€

## Challenge competition 2021

- Wärtsilä, Nokia, Tietoevry, Borealis Polymers, Valmet, Meyer. 5/6 funded with EU Recovery funding (RRF), supporting green transition
- RDI increase commitments cumulatively 568 M€



## Challenge competition 2022

- Konecranes + challenger companies **Bittium**, Danfoss, Orion, Mirka, Picosun, Ponsse+Epec
- RDI increase commitments cumulatively 375 M€

## Challenge competition 2023

- Selected in February 2024: Patria (eAlliance for defense industry), Kempower (Heavy Electric Traffic Ecosystem program), Wärtsilä (WISE, Wide & Intelligent Sustainable Energy) and Valio (Food 2.0, food system renewal and energy production).

## When successful, the projects will lead to

- big investments
- increases in turn over, export and tax income
- new jobs and positive environmental impacts

# More Information

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