

## **PRIORITY**

Critical Communications for 5G

Harri Posti 5G Summit, Levi, 25.3.2019





# Global paradigm shift

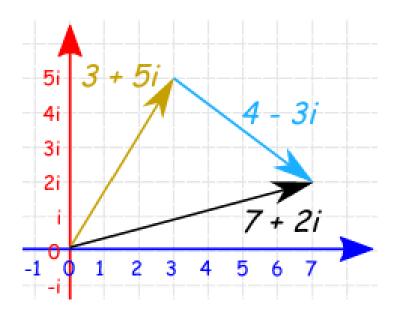






## But...











#### Digital Infrastructure is the New Critical Infrastructure

#### **Drivers for Digital Trust**

- Cyber threats are the main technological threats for global economy
- Always on always available connectivity is shaping the society
- Political instability and threat scenarios mean new hybrid threats
- Quantum technologies will shape the future of secured and trusted solutions

#### **Global Market Opportunity**

- Global market volume in just cyber security area 240 Bn\$ by 2025
- General digitalisation market (798 Bn\$ by 2025) and indirect effects even much more



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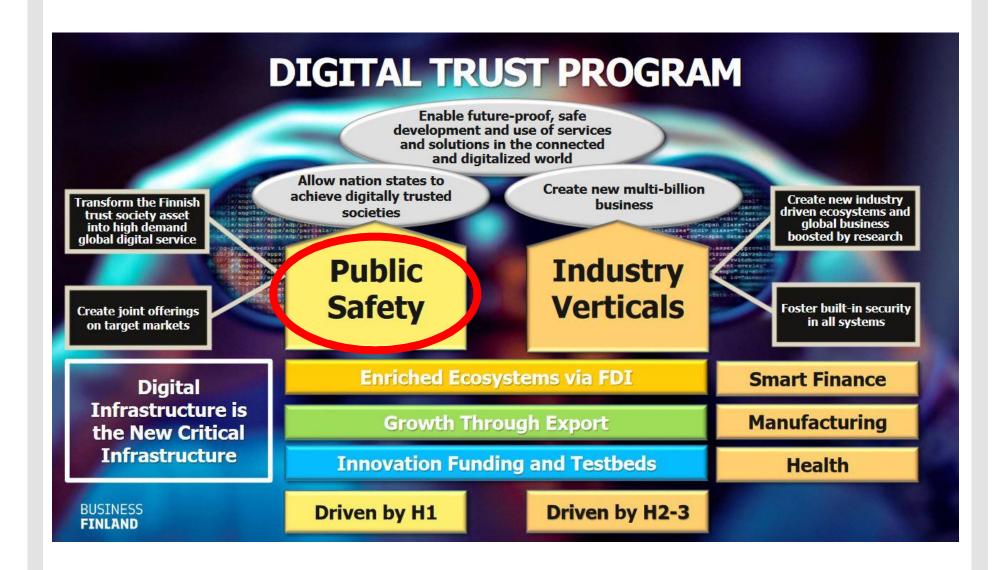
# DIGITAL TRUST FINLAND

200 MEUR public funding

5 years during 2019-2024

BUSINESS FINLAND

OULUN YLIOPISTO







# Hence, PRIORITY











## The consortium









work Net

**Techno** logy

earch







































# **Topics**

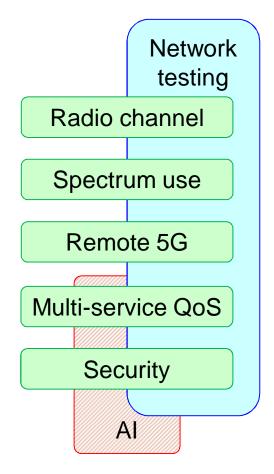
#### 3 scenarios

Scenario 1
Search and capture:
illegal border crossing

Scenario 2
Smart rural business:
business at a remote
location

Scenario 3
Emergency response:
major accident at a remote location

#### 7 research areas







# Methodology

**Scenario definition** 

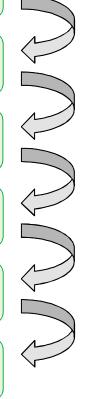
**Use case definition** 

Requirements; quality and capabilities

**Solution research;** measurement, theory, simulation

**Trial capability**; architecture, hardware and software

**Real life trial** 





### **Outcomes**

- Emergence and evolution of Critical Communication business ecosystems.
- Creation of a strong global position in public safety communications and situational awareness for the partner companies.
- Research results as well as validated technologies and solutions for the partner companies in the area of Critical Communication.
- National security and rural economy.
- Emergence and success of 5G technology, as an enabler for new vertical applications.
- Application of other evolving ICT technologies in Critical Communication solutions.
- Background information for the regulation of Critical Communication and wireless technology.
- Academic success of the research partners.



