# AISA Key figures and facts

**Main Objectives:**

**1. Strengthening Finnish industry and academia in becoming global leader in applying AI in chosen 5G domains**

**2. Demonstrating efficiency and business potential in applying modern machine learning techniques, edge computing and 5G in industry.**

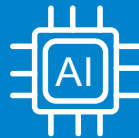| Name | AI for Situational Awareness (AISA) |
| --- | --- |
| Project type | Business Finland Veturi – NOKIA |
| Coordinator | DIMECC |
| Partners | Nokia, Ficolo, Insta, Mirka, Top Data Science, Valmet, and TAU |
| Duration | 6/2021 – 5/2024 (36 months) |
| Budget | 12,6 M€ |
| Core technologies | • Multimodal audio-video streaming for environment sensing<br>• AI for situational awareness and adaptation<br>• Edge computing for high-speed and scalable processing<br>• 5G for ultra-low latency between distributed computing nodes<br>• Digital twins for visualization |

# AISA Focus and partner roles

**Industrial 5G**
**Private 5G**

**Artificial Intelligence**
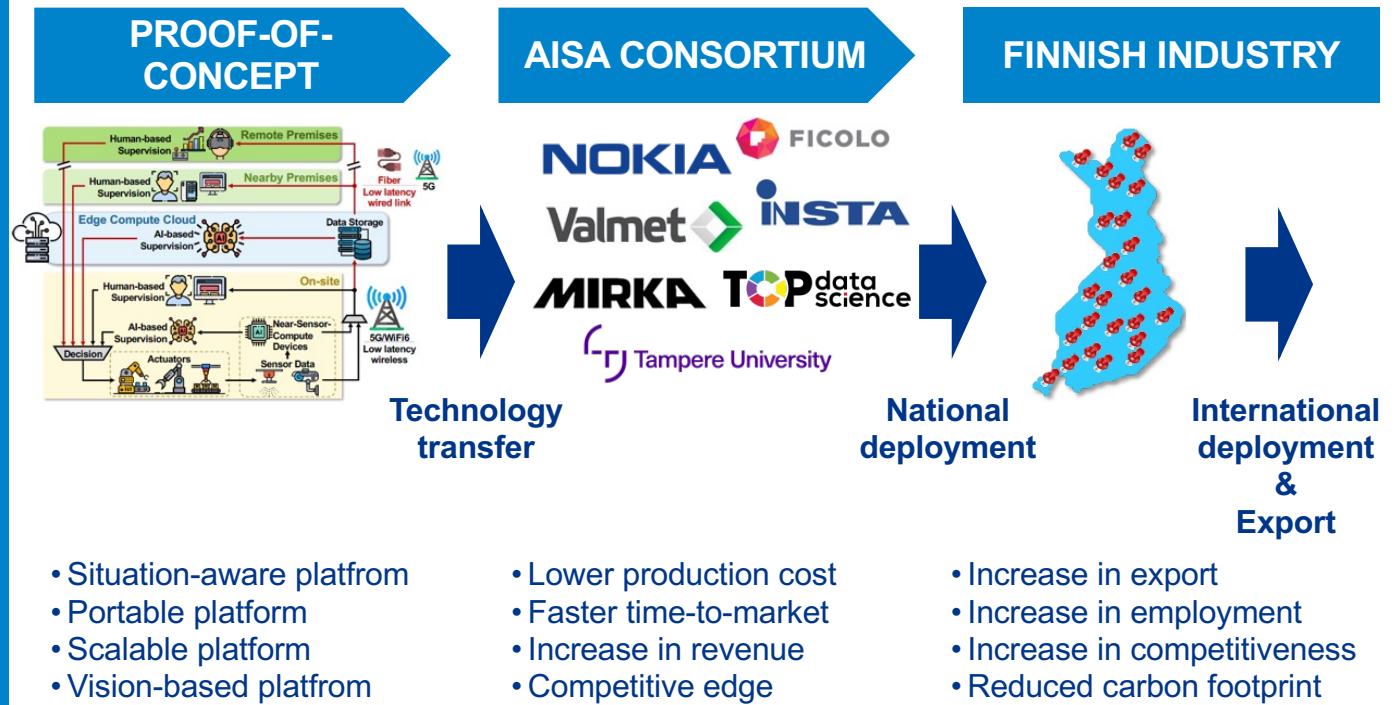**EDGE computing**
**Visual analytics**

**Industry applications**

NOKIA

FICOLO

Tampere University

Valmet

INSTA

TOP data science

MIRKA

# AISA Impact



**PROOF-OF-CONCEPT** → **AISA CONSORTIUM** → **FINNISH INDUSTRY**

**Technology transfer**

**National deployment**

**International deployment & Export**

- Situation-aware platfrom
- Portable platform
- Scalable platform
- Vision-based platfrom

- Lower production cost
- Faster time-to-market
- Increase in revenue
- Competitive edge

- Increase in export
- Increase in employment
- Increase in competitiveness
- Reduced carbon footprint

# AISA ecosystem co-operation

Silo AI, Quva, AP Vision, Gambit, Roima Intelligence, Cybercom, Forciot, Huld, Designence, CPS consulting, Spectral Engines, Sintrol, BSB, Xedi, Dispelix
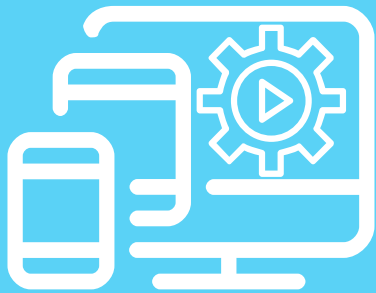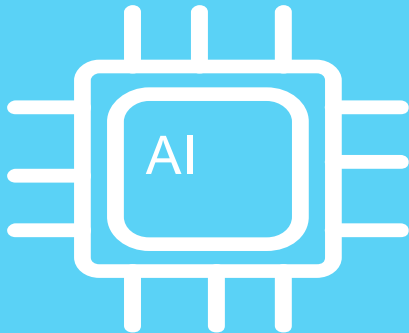
Åbo Akademi, University of Vaasa, University of Helsinki, Tampere University

**SME subcontractors**

**National university collaboration**

**AISA CORE PARTNERS**

**National ecosystem collaboration:**
Finnish AI ecosystems, Finnish 5G ecosystems, FIIF, Suomen Automaatioseura, OneSea, Finnish Advanced Manufacturing Network…

# Contacts

DIMECC, Arto Peltomaa, arto.peltomaa@dimecc.com

+358405511434

NOKIA, Jukka Saarinen, jukka.saarinen@nokia.com

VALMET, Mika Karaila, mika.karaila@valmet.com

MIRKA, Veli-Pekka Västi, veli-pekka.vasti@mirka.com

INSTA, Tapio Ingström, tapio.ingstrom@insta.fi

FICOLO, Vesa Lahti, vesa.lahti@ficolo.com

TOP DATA SCIENCE, Kai Lehtinen, kai.lehtinen@topdatascience.com

TAMPERE UNIVERSITY,

Prof. Pekka Jääskeläinen, pekka.jaaskelainen@tuni.fi

Prof. Jarno Vanne, jarno.vanne@tuni.fi