EDGE A-IQ READY
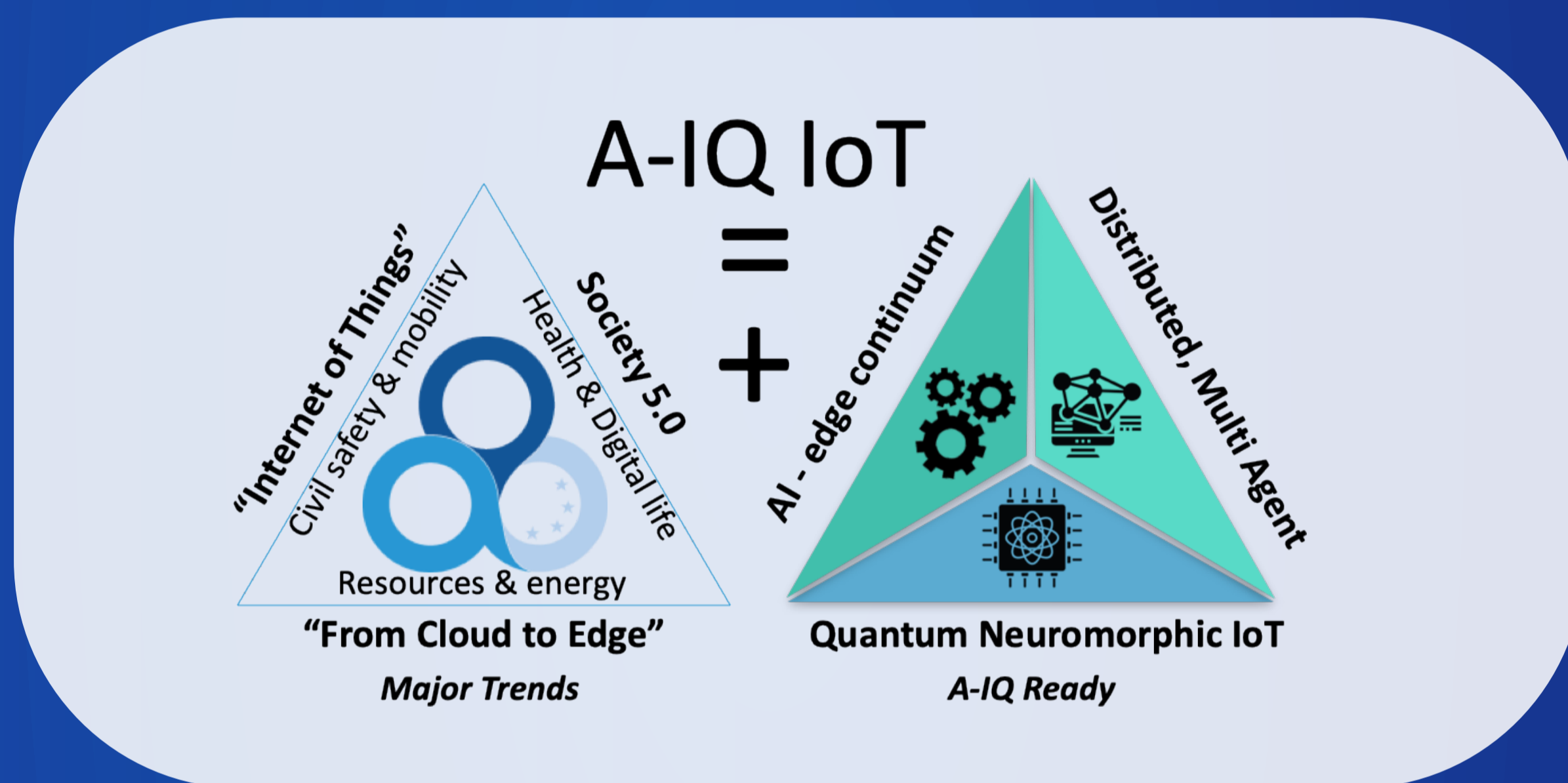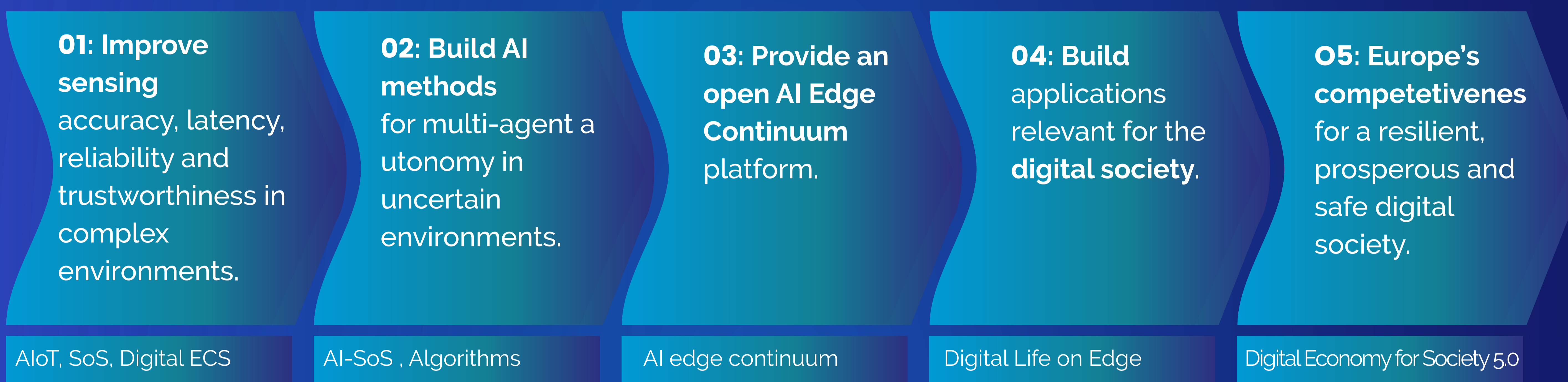
Artificial Intelligence Using Quantum Measured Information for Realtime Distributed Systems at the Edge

A-IQ Ready Objectives

01: Improve sensing accuracy, latency, reliability and trustworthiness in complex environments.

02: Build AI methods for multi-agent autonomy in uncertain environments.

03: Provide an open AI Edge Continuum platform.

04: Build applications relevant for the **digital society**.

O5: Europe's competetivenes for a resilient, prosperous and safe digital society.

| AIoT, SoS, Digital ECS | AI-SoS , Algorithms | AI edge continuum | Digital Life on Edge | Digital Economy for Society 5.0 |

A-IQ IoT

"Internet of Things" Civil safety & mobility
Society 5.0 Health & Digital life
Resources & energy
"From Cloud to Edge"
Major Trends

+

AI - edge continuum
Distributed Multi Agent
Quantum Neuromorphic IoT
A-IQ Ready

A-IQ Ready Supply Chains

OUTPUT ENABLERS

SC1. Safe co-existence
of automated and manual transport at industrial sites

SC2. Search & Rescue (SAR)
and emergency response for civil safety

SC3. Digital Health
and Emergency recognition for Driver and Operator

SC4. Propulsion health
and availability in safety critical situations

TECHNOLOGY PROVIDERS

SC5. Quantum sensor
Multi-modal, multi-physics sensing at highest precision

SC6. Hybrid Computing
Quantum Computing & High-Performance Computing

SC7. Cooperative Multi-Agent Systems
Decentralized AI for Emergent Industrial Solutions

CONCEPT

SC8. AI, Architectures, Tools and Methodologies
for open source and cross domain fertilization

General Information

Project Coordinator: AVL List GmbH
Number of partners: 50
Number of countries: 15

Project start: 2023 01 01
Duration: 36 months
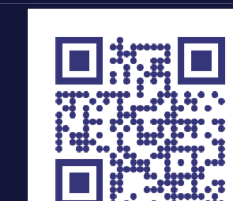**Total budget:** € ~33,7 M
EU contribution: € ~10,6M

PARTNERS

AVL · MANTSINEN · TU Graz · TTTechAuto · ScaliRo · nvision · Mercedes · Huawei · UNSER HEER

VAISTO · i&m Ideas&Motion · Universidad de Alcalá · Technische Hochschule Rosenheim · PUMACY TECHNOLOGIES · Ambiq Motion · innatera · Synopsys · Inria · laabmayr · Kouvola Innovation

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