

CELTIC-NEXT flagship project on Network Edge Automation

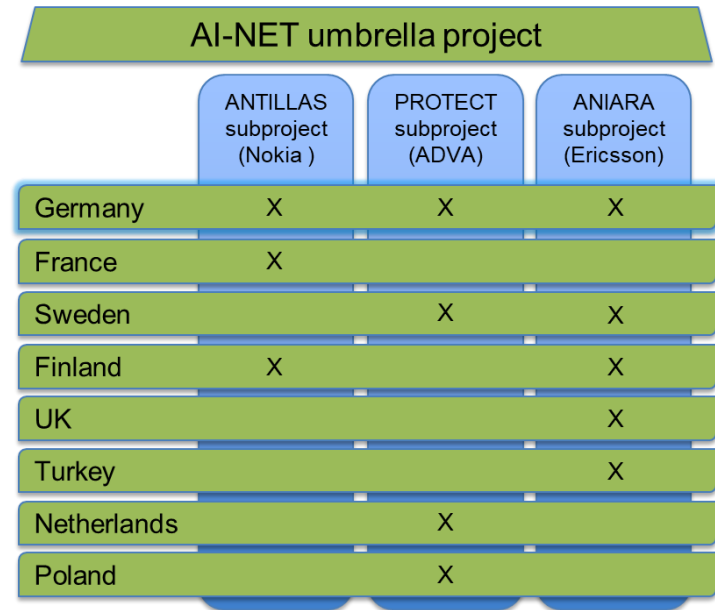
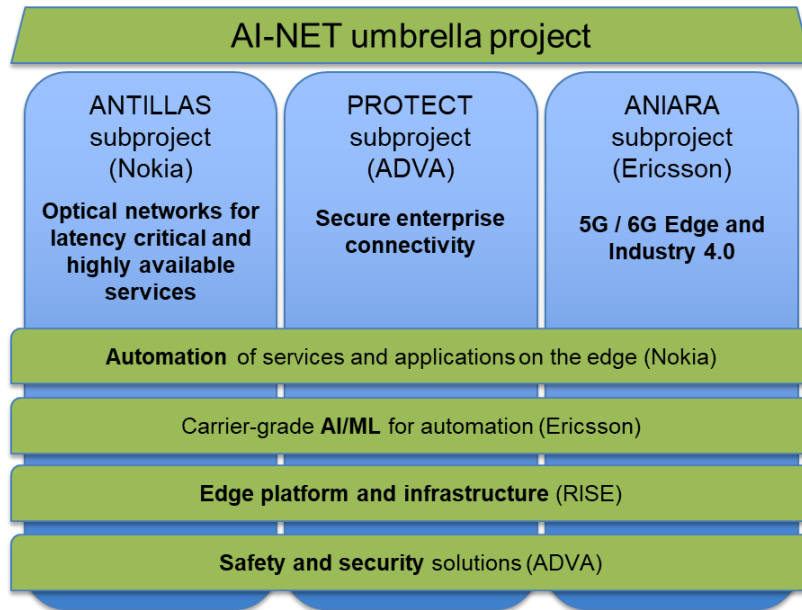
High-level plans for Ericsson-led
subproject: AINET-ANIARA

- AI-NET: Accelerating digital transformation in Europe by Intelligent **NET**work automation
- ANIARA: Automation of **Network edge Infrastructure & Applications** with **aRtificialI** intelligence

AI-NET project objectives

- Innovative solutions for network automation based on AI and ML
- Intelligent software-based network monitoring and control
 - End-to-end automation at network and service level
 - Operation of networks with optimized resources and in a cost-saving manner
 - New and better services through fully autonomous network operation
- Development of future communication technologies for 5G and 6G
- European Solution
 - Ensuring the interoperability of European telecommunications solutions
 - Development and enforcement of open standards at European level
- Security and safety aspects of the European solution
 - Interoperability of the IT infrastructure of companies with global telecommunications networks
 - Guarantee for secure European solutions and European data sovereignty

AI-NET: Accelerating digital transformation in Europe by Intelligent NETWORK automation



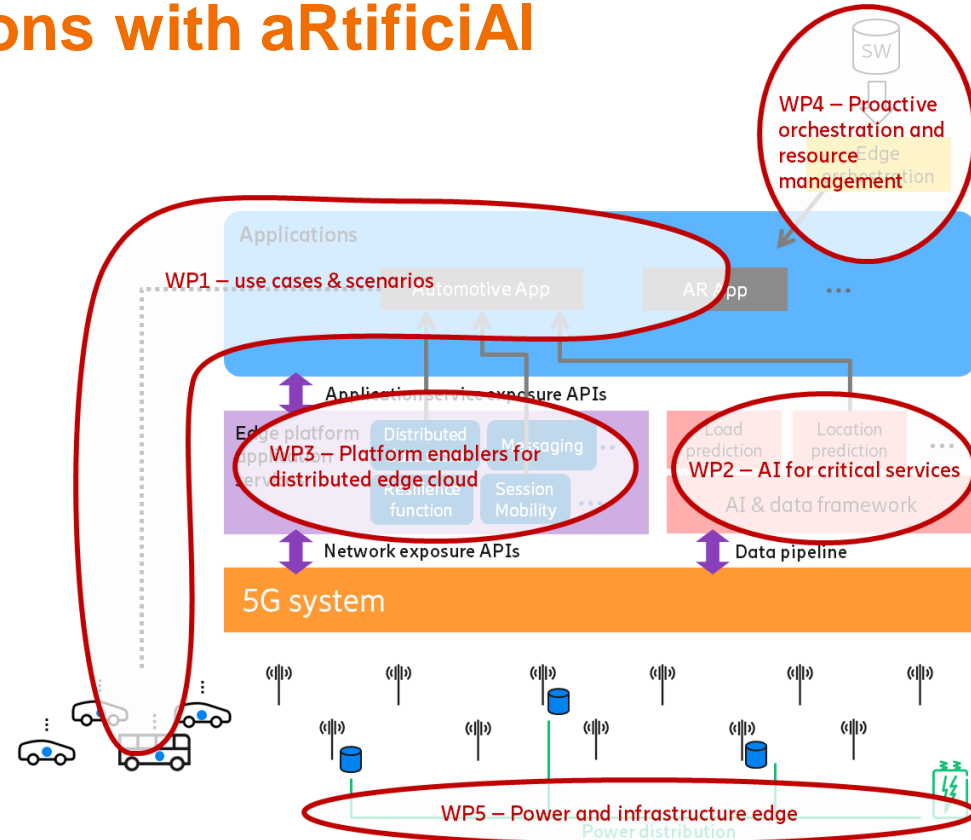
Horizontal working groups for cooperation across sub-projects, standardization and open platforms, and joint field tests and demos.

> 70 (100) European Partners (*)

(*) Incl. project extensions to address covid19-related challenges

ANIARA: Automation of Network edge Infrastructure & Applications with aRtificial intelligence

- Automated application deployment & management across distributed edge sites
- Generic edge services to simplify application & service development
- AI & data framework to accelerate development, deployment & management of algorithms
- Optimized power distribution working in synergy with network management
- Different use cases will be evaluated, e.g.
 - Public safety
 - Industry
 - Smart cities



Consortium and schedule

- Project type: Celtic-Next flagship
 - Funding agency in Finland: Business Finland
- Partners and countries:
 - **Sweden:** Ericsson AB (coordinator), Arctos Labs, Chalmers, Eltek, Enoc, KTH, Logical Clocks, Qamcom, RISE, Systemair, Univrses
 - **UK:** KCL (cc), Konica-Minolta, HAL Robotics
 - **Turkey:** Ericsson Turkey (cc), Turkcell, Lapis
 - **Finland:** VTT (cc), Ericsson Finland, Nordcloud, Lempea, Sanmina
 - **Germany:** Opel-Vauxhall (cc), nVent, TUBS, Fraunhofer IPT
- Kick-off was organized on 16.6.2020 (a 3-year project)
- In Finland, we are in the process of strengthening the consortium before submitting the funding applications

Funding
granted in
UK and
Sweden

In Finland,
We're looking for
new SMEs/midcaps
to strengthen the
consortium in
ANIARA

CC = country coordinator,
In Finland, contact: Tiia Ojanperä,
tiia.ojanpera@vtt.fi

bey⁰nd

the obvious

Tiia Ojanperä
tiia.ojanpera@vtt.fi
+358 20 722 2077

@VTTFinland

www.vtt.fi