



eltic-Plus⁺

Smart Connected World



Celtic-Plus Event
Project Ideas and Networking
20th of June, Helsinki

Health[^]5G

Anna Sachinopoulou
VTT Technical Research Centre of Finland Ltd



Vision

We envision a health monitoring system with heterogeneous networks by having various wireless radio technologies, protocol designs, standards, and semantics. Such a system should satisfy application requirements in terms of connectivity, reliability, timeliness and throughput.

Medical information platforms and messaging



eHealth applications



Data management for health solutions



Medical and eHealth devices

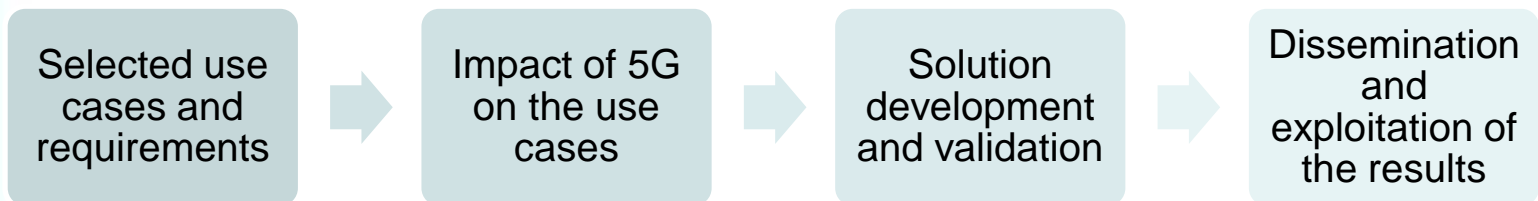


Security and privacy

Network and cloud technologies and devices

Approach

- Identify and refine novel use cases of eHealth that take advantage of 5G capabilities
- Define requirements and system architecture for 5G-enabled eHealth services based on the use cases
 - Study and develop 5G enablers for the use cases
 - Develop novel eHealth applications and solutions
 - Tackle interoperability in terms of hardware and software to enable healthcare within 5G
 - Validate the solutions in real 5G test networks and using eHealth IoT devices equipped with various radios and standard protocols
 - Disseminate, contribute to standardisation and exploit the results





Finland

- Nokia Bell Labs , Mobile Networks and Technologies
- VTT Technical Research Centre of Finland Ltd (CC)
- Åbo Akademi University

• Spain

- Universitat Autònoma de Barcelona
- Experis IT
- Pulso
- Quobis

• Hungary

- BundlesLab Ltd. (CC)

• Korea

- KOOKMIN University(CC)
- HUFS

• Belgium

- IMEC (CC)

• Israel

- LiveU

• Turkey

- ENFORMA BİLİŞİM A.Ş. (CC)
- Memorial Healthcare Group
- Acıbadem University - Medical Engineering
- Turkcell

• France

- STMicro

• Germany

- MCS Data labs
- DAI Labor, Technische Universität Berlin (CC)
- Highstreet technologies GmbH
- Fraunhofer IIS

• Ukraine

- National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute” (CC)

• Sweden

- Mälardalen University (CC)
- CNET
- RISE/SICS, Alten and Tele2



Contact Info

For more information and for interest to participate please contact:



Anna Sachinopoulou
Research Scientist
Digital Transformation, VTT
anna.sachinopoulou@vtt.fi
+358 20 722 2462
Kaitoväylä 1, P.O.Box 1100
FIN-90571 OULU, FINLAND



Milla Immonen
Senior Scientist, Project Manager
Smart Health, VTT
milla.immonen@vtt.fi
+358 20 722 2168
Kaitoväylä 1, P.O.Box 1100
FIN-90571 OULU, FINLAND

