



KEY FEATURES



TECHNOLOGY

Smart Edge AI-powered wearable sensors for real-time biomechanics and cardiovascular data monitoring



SPORTS

Multisport - free to air and aquatic sports - training and athlete-monitoring application



HEALTHCARE

Remote diagnostics in medical applications to avoid re-hospitalisation of patients who need rehabilitation



CONSORTIUM PARTNERS

SAL - silicon-austria-labs.com

LBG - lbg.ac.at

SIRR - www.qus.tech

DSHS - dshs-koeln.de

ST-I - st.com

CUBIT - cubitlab.com

UNIPI - unipi.it

XTT - xtremion.com

ST-ALPS - st.com

VAL - valotec.com

IMEC-NL - imec-int.com

KUB - kubios.com

DAC - dac.digital

ISKPI - kpi.ua

IMIF - imif.lukasiewicz.gov.pl

TUM - tum.de

TU/e - tue.nl

MDT - medtronic.es



**Towards an
Ecosystem of User-
centric devices and
services for
multisport Training
and Remote
healthcare enabled
by an Artificial
Intelligence-based
Network of Sensors**



Funded by
the European Union

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EU-TRAINS

aims to reinforce
the supply chain

**on sensors for
biomechanics and
cardiovascular system
real-time monitoring**
targeting applications in the
fields of
fitness and healthcare.

It leverages from the
strength of EU digital
microsystem
and design to support a

**100% made-in-Europe
supply chain**

of solutions encompassing
**smart-textile integration
as well as advanced AI-
based edge-cloud data
processing.**

EXPECTED RESULTS



Textile integrated electronic systems for
**real-time monitoring of heart,
respiratory and movement parameters** on-
the-air and in-water



Semiconductor technologies which allow
the **re-use of micro-nano systems**
both in the sports and in the healthcare
sectors



Miniaturized devices allowing the
capturing of bio-chemical parameters
able to withstand harsh ambient
conditions

18

PARTNERS

9

COUNTRIES

- 4 from **Austria**
- 3 from **Italy**
- 2 from **Germany**
- 2 from **France**
- 2 from **Netherlands**
- 1 from **Finland**
- 2 from **Poland**
- 1 from **Ukraine**
- 1 from **Spain**

