

# MAIN CAMPUS SUSTAINABLE HEALTH CARE

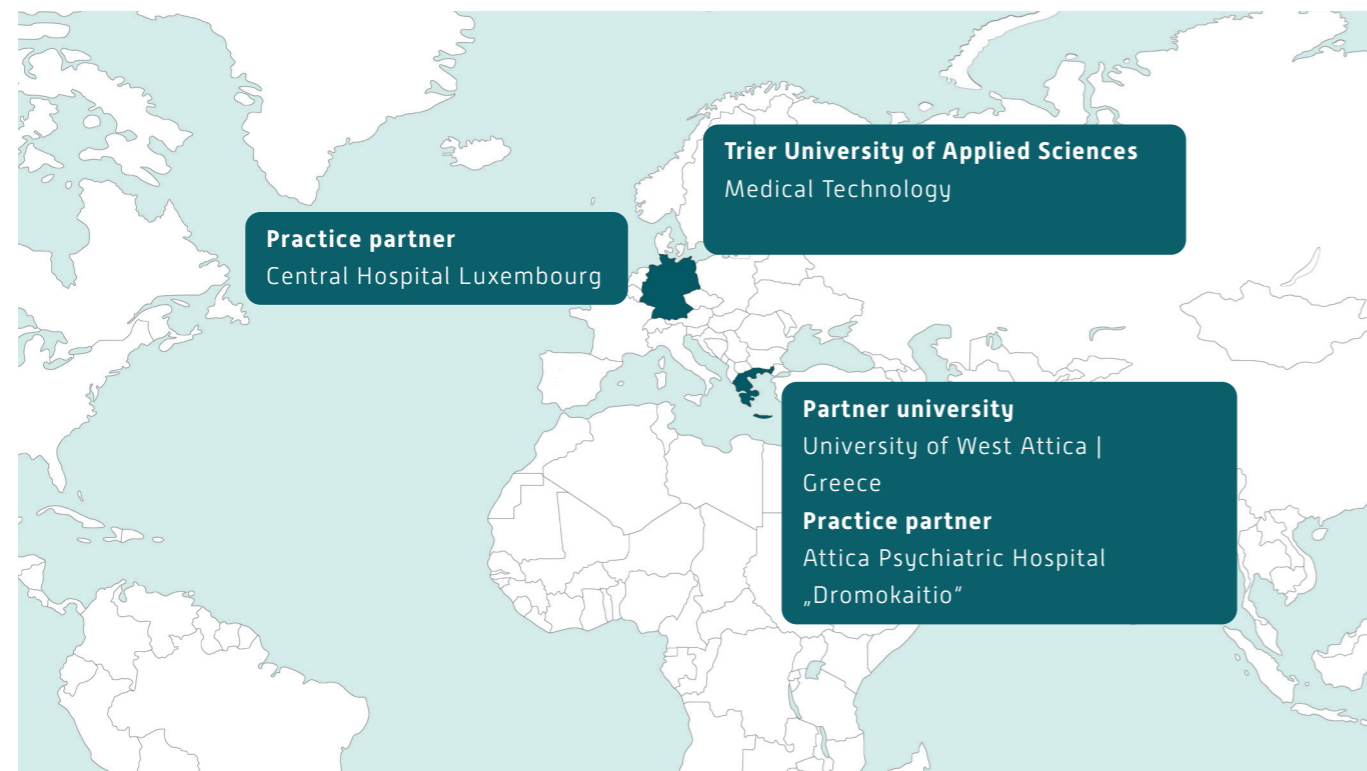


## PROJECT TIMEFRAME

Winter semester 2023/2024



## PROJECT PARTNER



## BRIEF DESCRIPTION & PROJECT OBJECTIVES

The “Sustainable Health Care” project combines scientific work from the fields of machine learning, signal processing and sensor technology with medical issues. The goal is to improve and simplify diagnostics and thus reduce costs

in the healthcare system. The Central Hospital Luxembourg and the Attica Psychiatric Hospital “Dromokaitio” in Greece are involved as clinical research partners and challenge donors.



## PROJECT DESIGN

The project is divided into three phases: 1) A transnational online lecture series on machine learning and diagnostics with the integration of medical expert lectures forms the theoretical basis. 2) In international and interdisciplinary mixed teams, students develop solutions for medical partners to use widely available sensors, some of which are built into smartwatches, with new signal processing in diagnostics.

Faculty act as mentors in regular online sessions and evaluate progress. 3) During a one-week final conference in Greece, the student teams present their solutions to the practice partners. These are then discussed in workshops and initial outlines of ideas for further joint research projects with the clinical partners and for international theses are developed.



## SUSTAINABLE DEVELOPMENT GOALS



## CONTACT DETAILS OF THE PROJECT MANAGER

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