

# Partners



Follow us!



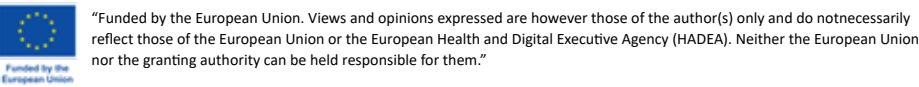
**[persimmon-project.eu](https://persimmon-project.eu)**

# Project details

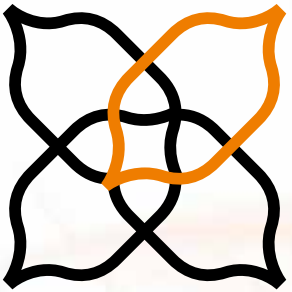
**Project number:** 101129713  
**Project name:** PERSONALIZED SUSTAINABLE SMART PATCH OMNIFICENCE  
**Project acronym:** PERSIMMON  
**Call:** HORIZON-CL4-2023-RESILIENCE-01-TWO-STAGE  
**Topic:** HORIZON-CL4-2023-RESILIENCE-01-33  
**Type of action:** HORIZON-RIA  
**Service:** HADEA/B/03  
**Project starting date:** 1 September 2024  
**Project duration:** 48 months  
**EU Contribution:** 7.768.776,26 €

# Contacts

<b>PROJECT COORDINATOR</b> Klas Hjort Uppsala University <a href="mailto:klas.hjort@angstrom.uu.se">klas.hjort@angstrom.uu.se</a>	<b>DISSEMINATION MANAGER</b> Isella Vicini Warrant Hub (Tinexta Group) <a href="mailto:isella.vicini@warranthub.it">isella.vicini@warranthub.it</a>
--	--

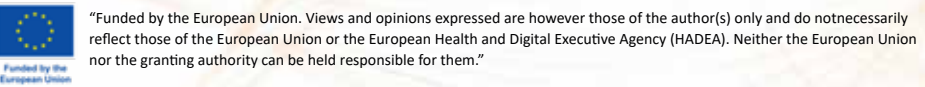


Powered by Warrant Hub (Tinexta Group)



Persimmon

**Personalized Sustainable  
Smart Patch Omnificence**



## Project Overview

The PERSIMMON project focuses on the development of innovative and sustainable wearable technologies designed for continuous health and sports monitoring.

By integrating advanced sensor materials, biodegradable biopolymers and cutting-edge manufacturing methods, the project aims to create eco-friendly smart patches that offer both high functionality and low environmental impact. These patches will be able to capture essential physiological data while being environmentally safe and biodegradable, promoting a circular economy. PERSIMMON is the natural evolution of the Horizon 2020 project SINTEC coordinated by Uppsala University and ended in June 2023.

SINTEC provided a digitally printed soft and stretchable disposable patch with a soft and slim multiuse module protected under it. PERSIMMON will exploit and bring at higher technological readiness level SINTEC main results on digital manufacturing technology, miniaturized sensor boards, Fat-IBC communication, gateway and data apps, and blood pressure monitoring.

## Objectives

The main objective of PERSIMMON is to design and implement a multimodal bodyNET system that incorporates low-power, reusable electronics with edge-AI capabilities.

This system will enable real-time monitoring of health metrics such as heart rate, temperature, and blood pressure, while reducing transmitted data and power consumption. The project places a strong emphasis on ensuring the wearability, comfort, and long-term usability of its devices, making them suitable for various applications, from home care to outdoor sports.

## Expected Impacts

### Sustainability

Eco-friendly smart patches reduce environmental impact through recyclable materials and low power consumption.

### Healthcare Innovation

Continuous, non-invasive health monitoring offers improved patient care and proactive management of conditions like cardiovascular disease.

### Technology Advancement

PERSIMMON's innovations will set new standards in wearable tech by combining advanced AI, biodegradable materials, and cutting-edge sensors.

### Circular Economy

By focusing on recyclability and reducing electronic waste, the project aligns with global sustainability goals for a greener future.