



# Persimmon

## Personalized Sustainable Smart Patch Omnificence

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PERSIMMON project is creating **sustainable, eco-friendly wearable technology** for continuous health and sports monitoring. Using advanced sensor materials, biodegradable biopolymers, and innovative manufacturing, PERSIMMON aims to produce smart patches that monitor essential health data with minimal environmental impact. Building on the Horizon 2020 project SINTEC, PERSIMMON advances digital manufacturing and sensor technology for smarter, more **sustainable health solutions**.

## Objectives

- Design and implement a multimodal bodyNET system that incorporates **low-power, reusable electronics with edge-AI capabilities**.
- Enable **real-time monitoring of health metrics** such as heart rate, temperature, and blood pressure, while reducing transmitted data and power consumption.
- 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.



### Technology Advancement

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



### Healthcare Innovation

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



### Circular Economy

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

## Partners



## Project details

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

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