PRESS RELEASE

CONNECT-WEAR: RESI, CAMPUS BIO-MEDICO AND SAPIENZA JOIN FORCES TO ADVANCE CARDIAC MONITORING

Funded under the STEP Lazio programme, the project integrates wearable devices, 4G/5G connectivity and artificial intelligence for remote and predictive cardiac monitoring.

RESI Informatica S.p.A. announces the approval of the CONNECT-WEAR project, developed in collaboration with Università Campus Bio-Medico di Roma and Sapienza University of Rome, under the public call "STEP Lazio – Support for the Development and Manufacturing of Critical Technologies", promoted by the Lazio Region and funded through the 2021–2027 ERDF Regional Programme.

The project aims to develop an intelligent system for continuous remote cardiac monitoring, integrating biomedical technologies, advanced mobile connectivity and artificial intelligence.

CONNECT-WEAR will use wearable sensors to measure heart rate and capture electrocardiogram (ECG) signals. The sensors will be connected to a portable gateway that will transmit the data to a centralised platform via a redundant 4G/5G mobile connection.

The project's innovative approach lies in the integration of cardiac monitoring, data transmission reliability assessment and AI-driven predictive analytics.
The objective is to improve the quality of remote monitoring, reduce unreliable alerts and support the early identification of potentially critical conditions.

An industry–academia collaboration:

- RESI Informatica S.p.A., as project coordinator, will develop the portable gateway, mobile connectivity solution, monitoring platform and mobile application, while also contributing to the artificial intelligence functionalities.
- Università Campus Bio-Medico di Roma will be responsible for developing the wearable sensor and will collaborate on system integration and AI-based analysis.
- Sapienza University of Rome will carry out electromagnetic compatibility (EMC) testing of the system.

The solution is primarily intended for the healthcare sector, with potential applications in sports, defence and critical emergency management.

For RESI, CONNECT-WEAR represents a significant opportunity to leverage its established expertise in telecommunications network monitoring and extend it to new healthcare applications, contributing to the development of innovative technologies for people's safety and well-being.

About RESI
RESI is an Italian technology company with over 39 years of experience in the design and development of ICT solutions for telecommunications operators. Specialising in Network Monitoring, Service Assurance and Deep Packet Inspection, the company combines engineering expertise with research and development to deliver advanced platforms for data analytics, automation and digital service management. CONNECT-WEAR demonstrates how this technological expertise can be applied to new, high-value innovation domains.