

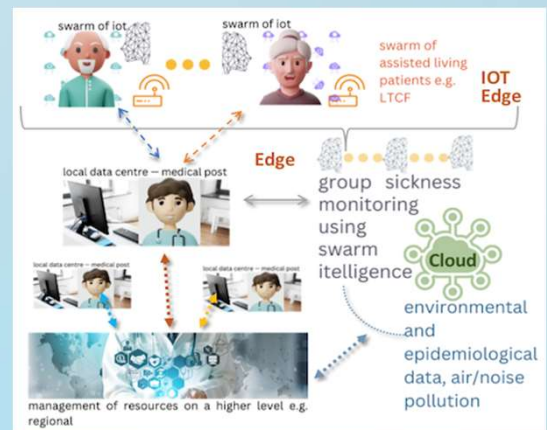
SMARTEDGE is a European project on semantic low-code programming tools for edge intelligence, with **use cases in manufacturing, automotive, and healthcare**. SmartEdge seeks to dynamically integrate decentralized edge intelligence through a semantic-based collaboration among edge devices in a cross-layer toolchain, facilitating seamless and real-time distribution of autonomous intelligence swarms.

HEALTHCARE



REVOLUTIONIZING HEALTH MONITORING WITH IOT SWARMS

Picture a nursing home where each resident possesses their own personal intelligent health assistant, which gathers health data from state-of-the-art wearable devices monitoring health biomarkers, vital signs, and physical activity around the clock. These assistants, connected with each other and the facility system, form a swarm that provides real-time comprehensive health assessments. SmartEdge demonstrates that advanced health monitoring can help identify community-wide trends and issues, such as epidemics.



DIGITAL PHYSIOTHERAPY WITH EDGE SWARM TECHNOLOGY

No more limits to traditional physiotherapy! The innovative approach taken with SmartEdge ensures precise evaluation and timely feedback, transforming the way pain, muscular resistance, and treatment progress are monitored. In the context of SmartEdge, we aiming at showcasing the usage of the SmartEdge solution to enable multi-joint tele-rehabilitation guided by anthropomorphic avatar-based UIs, leveraging wearable and environment nodes that join the swarm; and to allow the dynamic formation and edge participation in the swarm.

