ITEA project results enhancing people's lives

Extensive health monitoring platform

The eWatch platform is an extensive health monitoring solution in which both patients and clinicians can benefit from a holistic approach.

The solution starts with vital sign tracking devices like wearables (health bands, special wrist watches, etc.), sensors, wound monitoring devices and eye tracking systems. The metrics collected from patients by these different endpoints are sent to dedicated clouds and processed using Artificial Intelligence and Machine Learning (AI/ML) algorithms. Once the results are formed, the central cloud gathers the results from the sub-clouds, which support different types of integration protocols. The multi-sensor dashboard then shows the overall health results and trends for the patients, which can be used by clinicians in their diagnosis, treatment and follow-up.

The solution offers precise indoor localisation coordinates, which are valuable for big hospitals and care centres. The security and privacy of the solution regarding the GDPR is also taken into account in such a way that patients, hospitals and clinicians can safely use the system.

The eWatch platform is a very valuable solution that improves telemedicine services by collectively showing very different types of health metrics, such as cardiac monitoring results (like atrial fibrillation detection), heartbeat, oxygen saturation, physical activity, blood pressure, stress/workload, sleep patterns and wound images. The system is also ready to be extensively integrated with new sensors/endpoints if desired in the future.

**ITEA 3 project
eWatch**