



This project is co-financed by the European Union
and the Republic of Türkiye



ICTürkiye2025
10 April, İstanbul

PRESENTER FULL NAME: Büşra ÜNLÜ

ORGANIZATION: Kardinero Medical Systems Inc.

WORKSHOP NAME: Workshop #1-Digital and Smart Health

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Description of the Organisation

Kardinero is a company that **develops and manufactures medical devices**, including. **diagnostic and therapeutic software applications, and AI solutions. (SME)**

Over 30 years of experience in developing and manufacturing PC-based ECG and ECG Stress Test systems hardware and software, and their clinical applications.

Experience in EU project (1 ongoing project)

Roles: Project Partner



Your Teams' Expertise



- Medical electronic equipment design and R&D
- ECG signal analysis programs
- Cybersecurity



- Medical device quality management and certification
- Big data availability

Your Research Fields

Medical Device Design & Development

- Embedded systems design
- Hardware and software integration for medical devices
- Multi-parameter medical monitoring systems



Cybersecurity in Medical Devices

- Flexibility in implementing cybersecurity testing and scenarios for medical devices
- Secure data transmission, encryption, and protection of patient information



Regulatory Compliance & Certification

- International medical device regulations, including CE-MDR and FDA requirements.
- Medical device quality management
- MDR and ISO 13485 certifications



Data

- ECG signal analysis
- Multi Signal Analysis
- Big data with availability in ECG Stress Test systems and ECG records
- Clinical applications with clinics for clinical trials and health services research



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Your On-going Projects

EVTRUST

Ensuring Secure & Safe Connected Medical Devices Design with Zero Trust Principles

Project Idea

Call Topic: HORIZON-HLTH-2025-01-CARE-01: End user-driven application of Generative Artificial Intelligence models in healthcare (GenAI4EU)

Deadline Dates: 18 Sep 2025

☐ **Objectives:**

- Multi-modal physiological data recording
- AI-driven risk estimation, AI-assisted decision support
- Advancement of collaboration and data sharing

☐ **Expected Results:**

- Enhanced Patient Monitoring and Personalized Health Insights
- Clinician Support with AI Recommendations
- High Performance Through Clinical Trials
- Cost Savings and Health System Efficiency

Consortium - profile of known partners (if any)

| No | Partner Name | Type | Country | Role in the Project |
|----|--------------|------|---------|---------------------|
| 01 | | | | |
| 02 | | | | |
| 03 | | | | |
| 04 | | | | |
| 05 | | | | |

Consortium – required partners

| No | Expertise | Type | Country | Role in the project |
|----|-----------|------|---------|----------------------------------|
| 01 | | | | Healthcare Telemedicine Services |
| 02 | | | | Healthcare Providers |
| 03 | | | | |
| 04 | | | | |



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