HEALTH**CHAIN**

BOOSTING DIGITAL TRANSFORMATION OF HEALTHCARE ACROSS REGIONS

Centro, Portugal

I3 **Interregional Innovation Investments Instrument**

I3 Instrument Strengthen Innovation in Europe's Regions

HEALTH CHAIN

HEALTHCHAIN offers a model for co-created, demand-driven technological solutions in health care by creating optimal value-chains. It provides a framework in which innovations do not arise from technological vacuum and therefore have a short lifespan.

10 European regions from 8 countries

33 SMEs cocreating solutions with healthcare organisations

24 Digital solutions to be implemented in 10 hospitals focused on:

Self-management

Care coordination

Data Integration & Management

Education & Information

Remote patient monitoring

Data Analytics & AI

Symptoms tracking

Diagnostics

HEALTH CHAIN

CENTRO REGION

Healthcare Organisation

Unidade Local de Saúde de Coimbra

The largest health institution in Portugal, consisting of the Coimbra University Hospital, the General Hospital, the Pediatric Hospital, two Maternity Hospitals and a Psychiatric Hospital, offering various areas of health, from prenatal care to the elderly, corresponding to the entire life cycle of the person and the family.

Ecosystem supporter

INSTITUTO PEDRO NUNES (IPN)

Instituto Pedro Nunes (IPN) is a private non-profit organisation which promotes innovation and the transfer of technology, establishing the connection between the scientific and technological environment and the production sector.

OPHTHALMOLOGY NLP

It enables the transformation of free-text clinical notes into structured data, facilitating comprehensive analysis and decision-making. This structured approach not only streamlines data management but also enhances the quality of patient care.

PROMPTLY

CARDIOLOGY AI PREDICTIVE MODEL

Solution uses an AI predictive model to address the complexities associated with severe Aortic Stenosis, particularly in the context of TAVI procedures. Predictive analytics offer insights that enable healthcare professionals to make informed decisions.

PROMPTLY

OPHTALMOLOGY COLLECT

Ophthalmology Collect is a platform designed to efficiently gather Patient-Reported Outcome Measures (PROMs) for neovascular diseases, contributing to the continuous remote monitoring of patients with Ocular Neovascularisation.

PROMPTLY

COGNITIVE VITALITY TRAINING 2.0

CogniViTra2.0 is a digital platform that combines cognitive and physical rehabilitation for elderly patients. The system will provide tailored rehabilitation exercises based on individual patient's needs and preferences, focusing on both cognitive tasks and simple motoric functions.

Neuroinova
Everythink

MEDIRECON

MediRecon is a digital solution designed to streamline the process of medication reconciliation. By integrating with the hospital's record system, It will automatically gather and verify patients' medication lists and identify discrepancies between current and prescribed medications.

VirtualCare
Complear

HEALTH CHAIN

OPHTHALMOLOGY NLP

Ophthalmology Natural Language Processing (NLP) enables the transformation of free-text clinical notes into structured data, facilitating comprehensive analysis and decision-making. This structured approach not only streamlines data management but also enhances the quality of patient care.

+ Converts unstructured clinical notes into actionable insights for personalized, patient-centric care delivery.

+ Supports proactive interventions with accurate alerts for remotely monitored patients.

+ Harmonizes raw clinical data for research, decision-making, and value-based healthcare.

+ Reduces unplanned admissions through risk factor analysis and optimized care protocols.

+ Empowers healthcare professionals with explainable AI-assisted tools for better patient journey management.

Regional Partners

Unidade Local de Saúde de Coimbra

Instituto Pedro Nunes

PROMPTLY

HEALTH CHAIN

CARDIOLOGY AI PREDICTIVE MODEL

CENTRO REGION
Portugal

Solution uses an AI predictive model to address the complexities associated with severe Aortic Stenosis, particularly in the context of TAVI procedures. Predictive analytics offer insights that enable healthcare professionals to make informed decisions.

+ Improves patient monitoring and enhances care with predictive analytics for cardiology.

+ Helps healthcare providers optimize waiting lists with data-informed prioritization.

+ AI-driven insights simplify managing severe Aortic Stenosis complexities during TAVI procedures.

+ Aligns with modern healthcare practices for efficient and high-quality cardiology care delivery.

+ Strengthens research capabilities with robust data availability and actionable clinical indicators.

Regional Partners

Unidade Local de Saúde de Coimbra

Instituto Pedro Nunes

PROMPTLY

HEALTH CHAIN

OPHTALMOLOGY COLLECT

CENTRO REGION
Portugal

Ophthalmology Collect is a platform designed to efficiently gather Patient-Reported Outcome Measures (PROMs) for neovascular diseases, contributing to the continuous remote monitoring of patients with Ocular Neovascularisation

+ Enhances remote monitoring for Ocular Neovascularization with individualized patient pathways.

+ Encourages patient engagement through timely reminders and clear explanations of PROMs benefits.

+ Provides immediate access to PROMs results for patients and healthcare professionals.

+ Collects PROMs by using different channels.

+ Supports personalized care with score tracking, evolution analysis, and shared decision-making tools.

Regional Partners

Unidade Local de Saúde de Coimbra

Instituto Pedro Nunes

PROMPTLY

HEALTH CHAIN

COGNITIVE VITALITY TRAINING 2.0

CogniViTra2.0 is a digital platform that combines cognitive and physical rehabilitation for elderly patients. The system will provide tailored rehabilitation exercises based on Individual patient's needs and preferences, focusing on both cognitive tasks and simple motoric functions.

+ Reduces cognitive decline during and posthospitalization through targeted cognitive stimulation exercises.

+ Facilitates continuous monitoring with patient performance graphs and records.

+ Adaptable for diverse populations, including those with low digital literacy.

+ Increases professional productivity by enabling simultaneous care for more patients.

+ Boosts healthcare efficiency and reduces delivery costs

Regional Partners

Unidade Local de Saúde de Coimbra

Instituto Pedro Nunes

Neuroinova + Everythink

HEALTH CHAIN

MediRecon is a digital solution designed to streamline the process of medication reconciliation. By integrating with the hospital's record system, MediRecon will automatically gather and verify patients' medication lists and identify discrepancies between current and prescribed medications.

+ Improves patient safety by identifying and resolving medication discrepancies promptly.

+ Centralizes adverse drug reaction data for informed decision-making and faster interventions.

+ Enhances professional efficiency with an intuitive, user-friendly interface and alert systems.

+ Supports interoperability with hospital systems for real-time data synchronization.

+ Optimizes medication spending by reducing inappropriate prescriptions.

Regional Partners

Unidade Local de Saúde de Coimbra

Instituto Pedro Nunes

VirtualCare + Complear

HEALTH CHAIN

HEALTHCHAIN

www.healthchain-i3.eu