

26-27 MARCH 2025

Prosperity through Diversity



CAPITALISATION WORKSHOP

Boosting Knowledge
and Competitiveness
in the Danube Region

Interreg
Danube Region



Co-funded by
the European Union



DIGI4Care

Transforming patient journeys
through digital innovation in
healthcare

This project is supported by the Interreg Danube Region
Programme and co-funded by the European Union.



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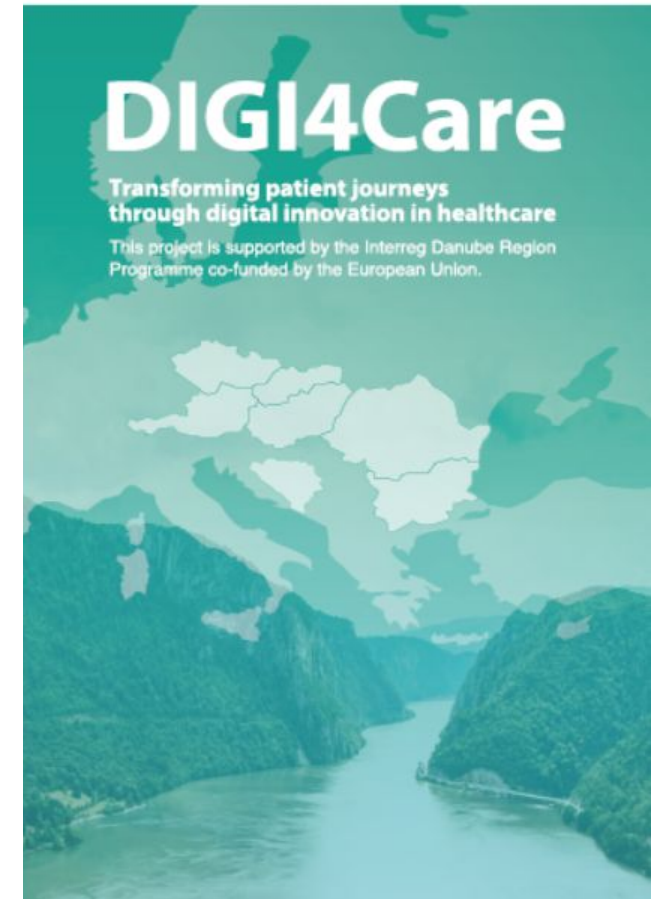
on behalf on the Semmelweis Health Management
Training Centre's
Lead partner team



- **Priority area:** Smart specialisation
- **Duration:** 30 months (currently in M15)
- **Partnership:** 11 partners from 7 countries
 - Semmelweis University (HU)
 - Gottsegen György National Cardiovascular Institute (HU)
 - Austrian National Public Health Institute (AT)
 - Ludwig Boltzmann Institute Digital Health and Patient Safety (AT)
 - Prague University of Economics and Business (CZ)
 - Central & East European Health Policy Network (SK)
 - University of Oradea (RO), Hospital Consulting SRL (RO)
 - Digital Health and Innovation Cluster (BG)
 - Kelvin Health Inc. (BG)
 - Research and Technological Development Association in Health (Bosnia and Herzegovina)



- To **identify** novel solutions for using **digital technologies** in **healthcare**.
- To **develop, test, and validate** collaborative strategies that tackle the key barriers to the adoption and scaling of digital technologies in the health sector.
- To **narrow the innovation gap** between the countries that are more and less advanced in using digital technologies in healthcare.



How will we achieve our goal?

- By leveraging the potential of digital technologies to **enhance the quality of healthcare services and improve patient journey**, including **prevention and screening, primary and outpatient care**, as well as **post-clinical, long-term, and rehabilitation care**.
- Implementation of **4 pilot** actions that are transnationally co-designed, co-implemented, and co-evaluated.
- Introduction of digital technologies in the following disease areas:

Diabetes



Cardiovascular diseases



Alzheimer, Dementia, other cognitive diseases



Piloting the introduction of digital solutions in Prevention and Screening in the field of Diabetes and Cardiovascular diseases, by screening diabetic retinopathy, hypertension, atrial fibrillation, other arrhythmias and ST-deviation.

Technologies transforming the Patient Pathway:

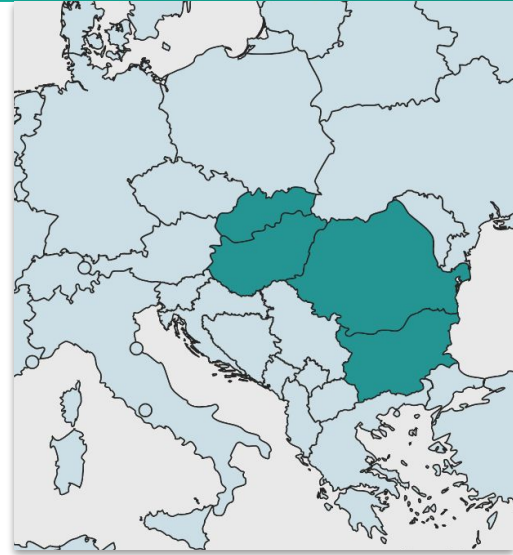
- AI-supported diabetic retinopathy screening
- Digital non-mydriatic fundus camera

Add-ons:

- Telemedical, digital screening station
- Wearable remote patient monitoring device and Virtual Care Centre, with AI decision support system

Relevance:

- Adverse events are high
- Screening participation is low
- CVD: leading cause of death



Feasibility study



Sites:

General practitioners
Diabetologists
Mobile screening units



Patient numbers:

Diabetic retinopathy screening: ~900
Cardiovascular screening: ~200

Piloting the introduction of digital solutions in Prehospital Care in the field of Diabetes and Cardiovascular diseases, by introducing Point of Care Ultrasound devices.

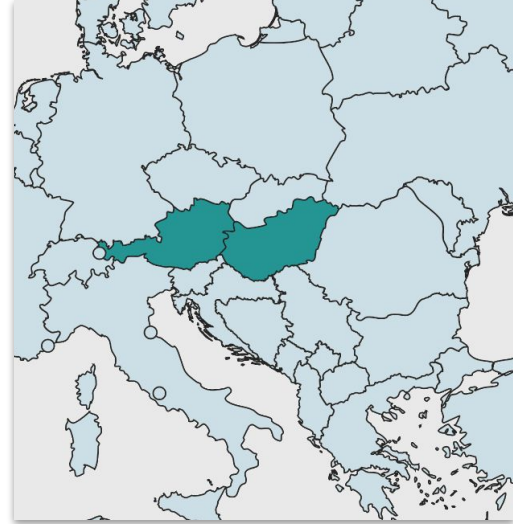
Technology:



- Point of Care Ultrasound Devices
- Remote real-time supervision (Telemedicine)

Relevance:

- Accurate differential diagnosis can save lives
- The number of Ultrasound experts is limited



Sites:

Ambulances
Acute community nurses

Feasibility study & comparing in-person and online training

Testing the uptake of digital technologies in post-clinical and rehabilitation phase for cardiovascular diseases and diabetes.

Technologies:



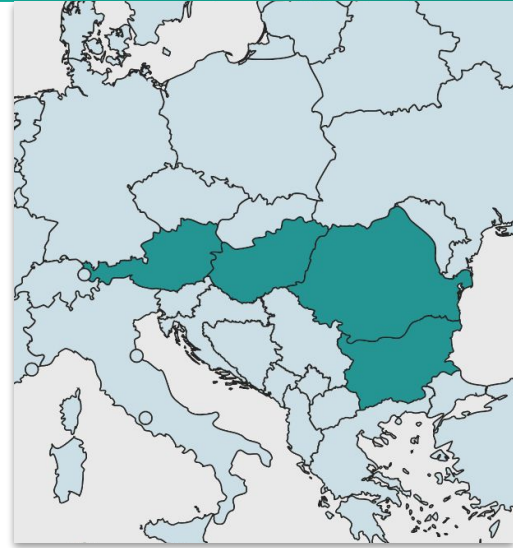
- Digital blood pressure monitor
- Smart watch/bracelet
- Smart scale
- Health app for data summary

Add-on:

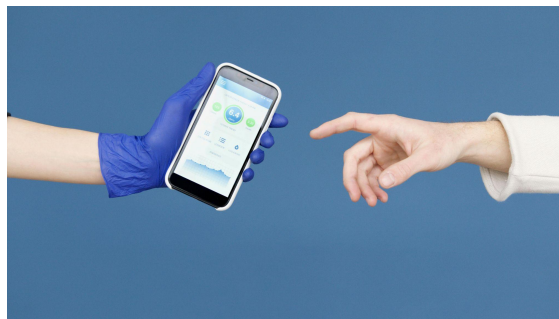
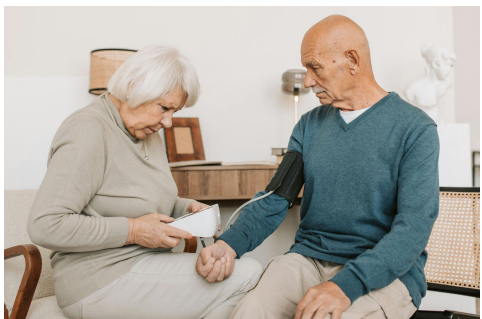
- Peripheral artery disease screening with AI and thermal camera

Relevance:

- Compliance with medical care is often low
- At control visits, doctors only see the current state of the patient



Feasibility study



Sites:

Cardiology
Intensive care unit
ambulance
Diagnostic care centre

Patient numbers:

~240

Digital solutions in outpatient and long-term care in the field of Alzheimer's, dementia and other cognitive impairments.

Technologies:



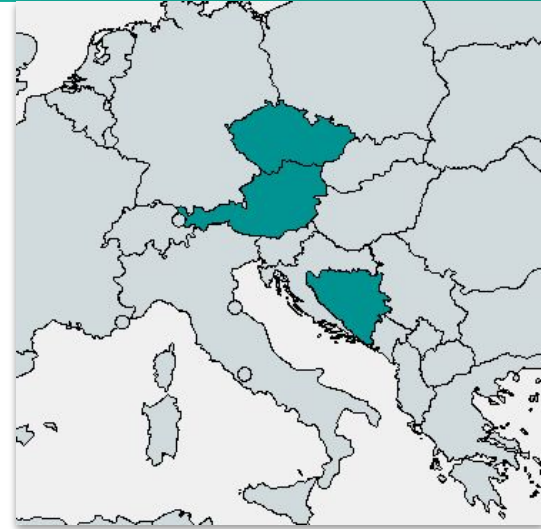
- Cognitive training cube

Add-ons:

- Voice to text transcription
- Social robot (humanoid)
- Vital functions monitor
- Fall monitor

Relevance:

- Aging population
- Healthcare professional shortage
- *Technology acceptance*



Feasibility study

Sites:

Long-term care facilities
Elderly care homes
Alzheimer home

Facility numbers

7



Main outputs and results

Digitally enabled Integrated
Care Model Strategy



Institutional level action
plans



Policy recommendations



Technology lansdcape



Knowledge Platform &
Radar



Podcast



University Curricula



Training and Capacity-
building Toolbox



Dashboard



Financial analysis



Data management
model



Peer review



Analyses and knowledge
base building (SO1)



Acceptance, skills & capacities
for technology uptake (SO3)



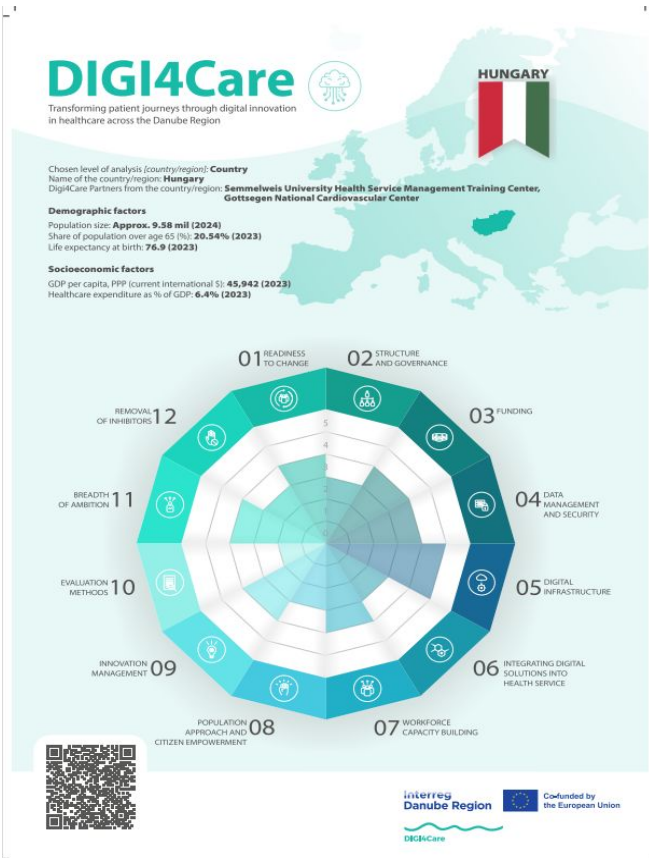
Pilot implementation and
evaluation (SO2)



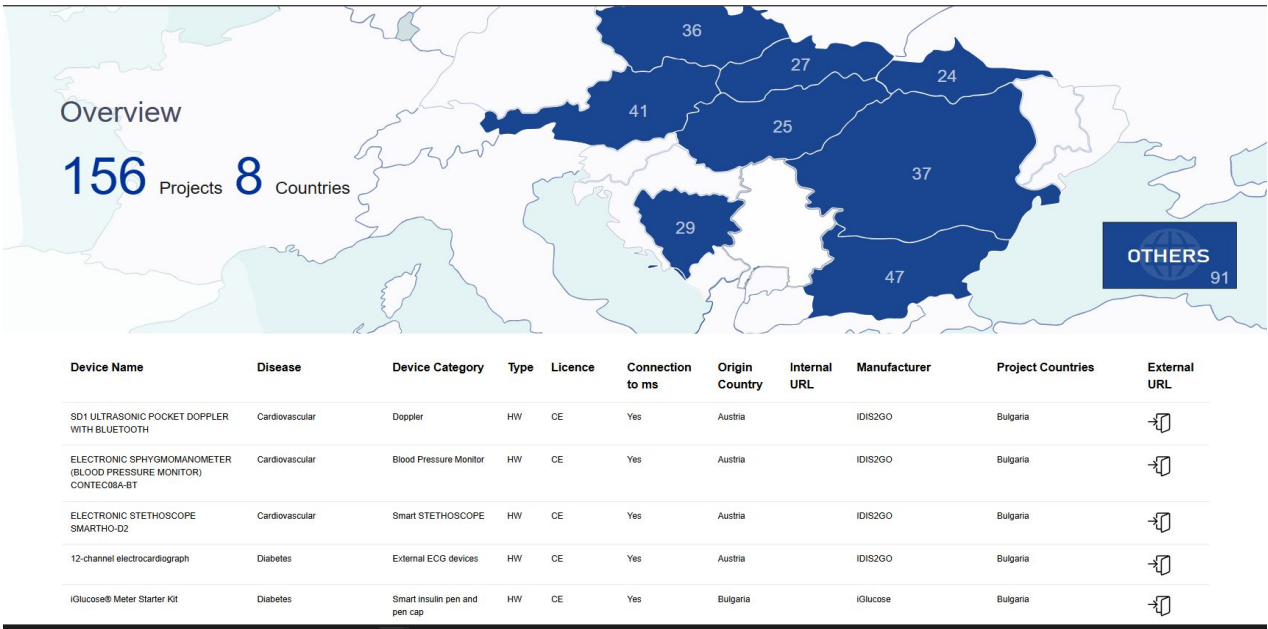
Q-helix
cooperation



Digital maturity methodology

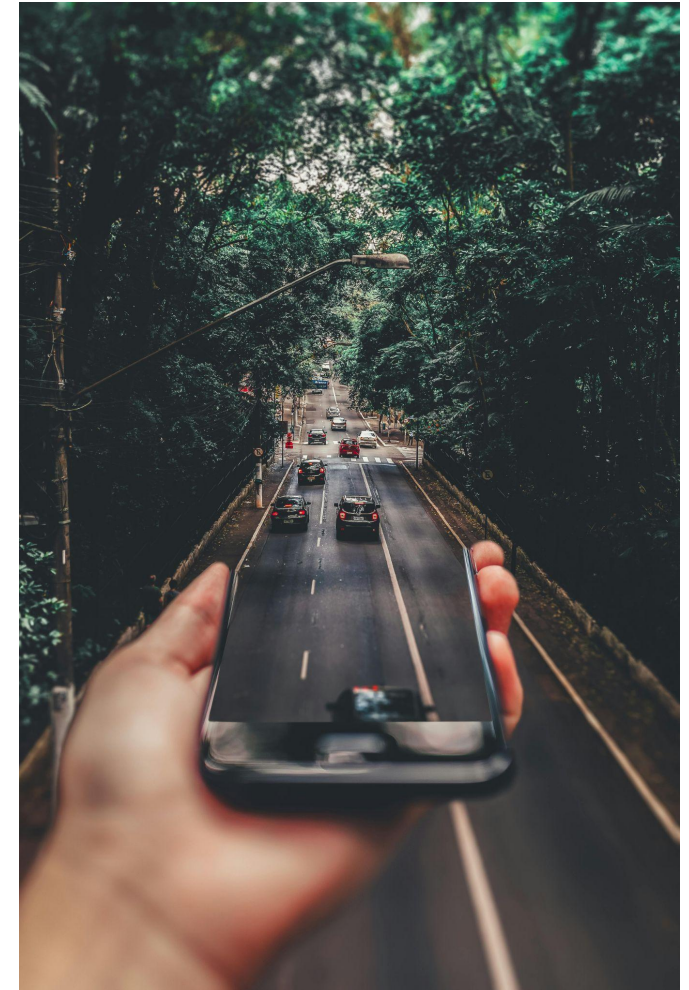


Radar: device collection



Knowledge platform

- Knowledge base
- Pilots:
 - Methodology and financial analysis
 - Results on Dashboard
 - Pilot peer visit methodology
- Technological landscape
- Podcast
- University Curricula
- Training & capacity building toolbox
- Sensitization workshops for Healthcare Professionals
- ICM strategy and Institutional level Action plans



- Open to **joint stakeholder events** (regional, cross-border, local) to support knowledge transfer and long-term impact.
- Propose mutual **strategy presentations** and foster **multi-sectoral dialogue** to integrate practical insights and share solutions across institutions at the **local level**.
- Ensure strategies and **good practices reach decision-makers across borders**.



- We take into account **DigiCare4CE**'s findings and good practices in the field of elderly care.
- We participated in the online roundtable in January aiming to map synergies.
- Identified synergies:
 - HealthLabs4Value
 - DigiB-Well
 - PROCAREFUL
 - VRedumed

It's time to maximize the impact of our Interreg projects!

Online Synergy Roundtable
24.01.2025.



- Demographic changes
 - ageing population
 - shortage of healthcare professionals
- Digital transition
 - pioneer ethical use of patient data
 - accelerate the acceptance of change
 - support informed, evidence-based policy-making
- Healthy, prosperous, sustainable societies
 - provide proper care
 - future implications: shift focus toward creating a health-promoting environment



Contact

Webpage: <https://interreg-danube.eu/projects/digi4care>

Social media:

<https://www.linkedin.com/company/digi4care-project/?viewAsMember=true>

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