

Digital transformation of long-term care facilities for older people

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DigiCare4CE



Project objective

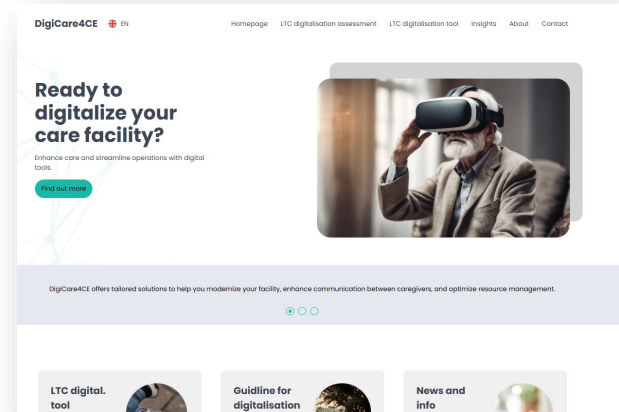
To support **digital transformation** of **residential care facilities** for older people to improve the quality of care.

- ✓ Providing tools that simplify caregivers' daily tasks
- ✓ Improving services for older people in long-term facilities



Key project outputs

- ✓ **DigiCare4CE Model** - a reference framework for the digital equipment level of long-term care facilities
- ✓ **DigiCare4CE Online check** - a tool that helps facilities assess their current level of digitalization and uncover paths for improvements - <https://digicare4ce.eu/>



Pilot Actions: Testing digital innovations in practice

Pilot Action 1: The digital transformation of care management and delivery

To test digital management and information systems



Geriatric Health Care Centres, Austria

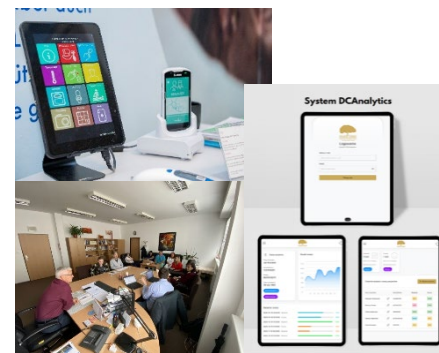


TECHNICAL UNIVERSITY
OF KOŠICE

Technical University, Slovakia



Public institution, Poland



Pictures from pilots,
tested solutions

Pilot Actions: Testing digital innovations in practice

GGZ: Austria (Graz)

In the pilot, they expanded **ilvi**, the digital documentation solution, with two new features:

- ✓ Digital wound documentation
- ✓ Document scanning using the device's camera



ilvi solution

Pilot Actions: Testing digital innovations in practice

TUKE: Slovakia

They **digitalised** the **internal data flow** and bring the clear evidence and data transparency info facility.

- ✓ Nursing staff records the data into shared documents, forms and calendars
- ✓ Management can see all the relevant information in real-time, at one place, with advanced searching the data hub



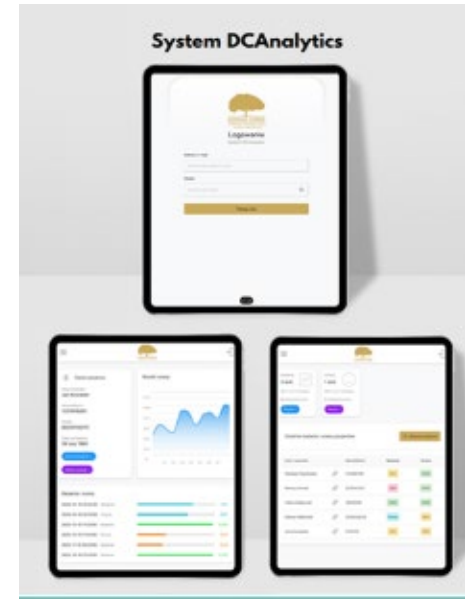
Meeting at the pilot site

Pilot Actions: Testing digital innovations in practice

RRDA: Poland

They created and implemented the **DC Analytics system** to streamline management processes and the flow of information within the **rehabilitation sector**.

- ✓ It facilitates continuous assessment of patient rehabilitation progress
- ✓ It supports feedback sharing
- ✓ It generates advanced reports for managers to aid decision-making



DC Analytics system

Pilot Actions: Testing digital innovations in practice

Pilot Action 2: The datafication of elderly care delivery based on environmental, wearable and IoT solutions

To test various smart devices in the context of care operations



Deggendorf Institute of Technology, university, Germany



Czech Technical University, Prague, Czech Republic



European Grouping of Territorial Cooperation Via Carpatia, Slovakia



Institute for older care and sheltered homes, Italy



Health Agency of Lower Austria, Austria



Pictures from pilots,
tested solutions

Pilot Actions: Testing digital innovations in practice

DIT: Germany

Interactive touchscreen that offers digital content to help older people stay **mentally** and **physically** fit.

- ✓ For both group and individual sessions
- ✓ Exercises for strength training, fall prevention, reality orientation, memory development, and music therapy.



Hello Mirror

Pilot Actions: Testing digital innovations in practice

CVUT: Czech Republic

They designed an **experimental study** involving **wearable electronics** and **environmental sensors** to assess the potential integration of the technology into the processes of a care facility.

- ✓ Environmental sensors
- ✓ Cognitive games



Meeting to present the solution

Pilot Actions: Testing digital innovations in practice

EGTC Via Carpatia: Slovakia

They tested two solutions:

- ✓ **Monitoring technologies** aimed at increasing safety and reducing the burden on staff during night shifts
- ✓ **Virtual and augmented reality (VR/AR)** to support cognitive and mental health of seniors through innovative therapeutic approaches.



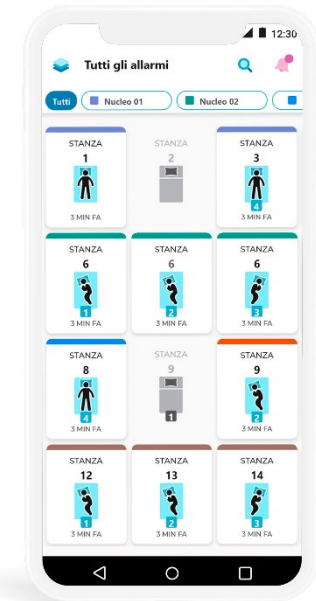
VR testing in cooperation with the Arcus and Via Lux care facilities

Pilot Actions: Testing digital innovations in practice

ISRAA: Italy

They tested Ancelia, an **AI-driven technology** which comprises:

- ✓ **Optical sensor** with AI to collect data
- ✓ **Carer App** for real-time notifications
- ✓ **Manager App** to generate reports on residents' conditions and care interventions



Dashboard of the Carer App
for the staff

Pilot Actions: Testing digital innovations in practice

NOELGA: Lower Austria

They tested CogvisAI, a sensor technology, **3D smart sensor** installed at the top of the room connected to nurse call system.

- ✓ Fall prevention
- ✓ Fall detection
- ✓ Absence detection



CogvisAI solution tested



Project Partners



**Thank you
for your attention!**

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DigiCare4CE
I.S.R.A.A. Treviso, Italy



<https://www.interreg-central.eu/projects/digicare4ce>