

DIGI4Care Final Fact Sheet - Pilot 4

Digital cognitive rehabilitation, monitoring and care process support in long-term care

1. Title and overview

Title of the Clinical Pilot

Digital technologies for post-clinical rehabilitation and long-term care for persons with cognitive impairment.

Brief summary of objectives and scope

Pilot 4 evaluated digital health technologies in post-clinical rehabilitation and long-term care settings for persons with Alzheimer's disease, dementia, post-stroke cognitive impairment and mild cognitive impairment. The pilot was implemented in Austria, Bosnia and Herzegovina, and the Czech Republic.

The pilot assessed technology acceptance, usability, organizational feasibility, workflow impact and technical readiness, using TAM/STAM questionnaires and qualitative organizational interviews.

Pilot timeline and current phase

February 2025 - March 2026; country-specific adaptations due to procurement, import and regulatory conditions.

2. Key milestones achieved

- Czech Republic [started to implement the first technologies in March 2025 and](#) deployed all five planned technologies across three long-term inpatient facilities by November 2025 and used them until March 2026.
- Bosnia and Herzegovina completed procurement/import resolution and active testing from late December 2025 to March 2026.
- Austria adapted its design toward feasibility/focus-group assessment due to prototype-level technical and ethical considerations.
- Recruitment targets were met or exceeded in all settings.
- Qualitative management interviews and quantitative TAM/STAM-based data collection were conducted.

3. Participant and site update

Number of participants enrolled vs. target and geographical coverage

Site	Participants / coverage	Target status
Czech Republic	Three long-term inpatient facilities in the Vysocina Region; initial 60 clients, later more than 100 users across technologies.	Target exceeded.
Bosnia and Herzegovina	40 residents in a long-term care institution in Banja Luka, mainly older adults with mild cognitive impairment/post-stroke cognitive decline; staff involved.	Target reached.
Austria	Persons with mild cognitive impairment, dementia experts and facility/quality managers; n=13 professional stakeholders and n=5 people with dementia in focus-group/think-aloud methodology.	Aligned with revised feasibility scope.

4. Technology deployment and usage

Status of digital technologies implemented

Technology	Deployment and usage

ProxyQB cognitive rehabilitation cubes	Core technology across all three countries; sensor-equipped cubes connected to tablet software for adaptive cognitive exercises and automatic performance tracking.
Robin social rehabilitation robot	Used in the Czech Republic for group activation and social engagement.
Telmed vital signs monitoring	Used in Czech facilities for temperature, heart rate/pressure, SpO2, ECG and glycemia monitoring.
Motion monitoring sensors	Implemented in Czech facilities by November 2025 for non-wearable movement/fall-risk monitoring.
Philips speech transcription	Tested in the Czech Republic to support documentation by converting spoken language into written records.

5. Data and findings

Data collection and assessment

The evaluation combined site-specific activity data, technology logs or platform outputs where available, patient and HCP feedback, and structured instruments such as TAM, STAM, SUS, NASA-TLX, TEI, SF-36 or study-specific satisfaction questionnaires as applicable to the pilot.

Site-specific results

Site	Acceptance and findings
Czech Republic	Clients showed best long-term acceptance for cognitive rehabilitation cubes: most months scored around 4 for attitudinal beliefs and 5 for control beliefs. Social robot acceptance fluctuated more. Staff acceptance was most stable for cognitive cubes; vital signs monitoring acceptance declined due to measurement inaccuracies and double-measurement burden.
Bosnia and Herzegovina	Cognitive rehabilitation cubes were very well accepted. Client attitudinal and control beliefs scored 5 before and after use; geronto-technological anxiety decreased from 2 to 1. Staff ratings rose to 6 for perceived usefulness, ease of use and subjective norm after one month.
Austria	Technology acceptance measured once through focus-group methodology: clients rated cognitive cubes 5 for attitudinal beliefs and 4 for control beliefs, with anxiety rated 1. Staff rated perceived usefulness 3, ease of use 5 and subjective norm 4.

6. Challenges and risk management

Identified issues

- Prototype-level instability of ProxyQB in Austria: connection issues, charging problems, incomplete German localization and occasional language switching.
- Insufficient internet connectivity in Czech facilities required network strengthening.
- Bosnia and Herzegovina faced procurement, customs and import barriers for medical devices outside the EU framework.
- Vital signs monitoring in Czech facilities produced measurement inaccuracies, requiring parallel standard measurements and reducing staff acceptance.
- Limited interoperability with electronic client record systems required manual copying of data.

Actions taken or proposed to mitigate risks

D.2.4.2. PILOT 4. FINAL PILOT FACTSHEET

Pilot teams used local workflow adaptation, additional training, technical support, equipment replacement or relocation, improved scheduling/referral arrangements, and supplier engagement to maintain implementation feasibility.

7. Next steps and adjustments

Planned activities / scale-up adjustments

- Set minimum technical readiness criteria before deployment with cognitively vulnerable users.
- Complete language localization and cultural adaptation before rollout.
- Assess facility internet coverage and upgrade infrastructure prior to implementation.
- Develop interoperability pathways with electronic care record providers to reduce duplicate documentation.
- Embed technologies into human-centered care routines rather than positioning them as replacements for staff.
- Plan procurement/import procedures early, especially in non-EU regulatory contexts.

8. Contact information

Key contacts for further information or questions

DIGI4Care Pilot 4 partner teams in Austria, Bosnia and Herzegovina, and the Czech Republic;