



Co-funded by  
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## HEALTHCHAIN STORIES

### MOBILECARE+ CONNECTED CARE FOR EVERY STEP AFTER SURGERY

#### THE NEED

Patients are after hip surgery in some institutions discharged from hospital as soon as two days. After discharge may acute problems patient may present (hip dislocation, fracture, infection). After discharge, their first visit to surgeon is usually scheduled fourteen days after surgery. Between discharge and first post-surgery visit to doctor they are in the hands of their family. In early postoperative period they are without proper medical follow-up. self-assessment and communication with the surgeon would be beneficial for patients' follow-up.

The main objective of MobileCare+ is to improve patient safety after fast-track surgery and discharge from hospital (and therefore improving their quality of life).



#### THE HEALTHCHAIN SUPPORT

HealthChain supported Healthcare Organisations in identifying their innovation challenges and selecting companies to address them. They worked closely as an interregional team to co-create, test, and validate a solution aligned with real clinical workflows, patient needs, and organisational constraints. The project provided financial and business support to boost the solution's market-readiness and commercialisation.



## THE SOLUTION

MobileCare+ is a patient-centered mobile app designed for real-time monitoring of rehabilitation progress. By integrating data from wearable devices, the system provides healthcare professionals with actionable insights into patients' recovery. This allows for personalised adjustments to treatment plans.



## IMPACT

The project demonstrated significant benefits by improving the recovery experience and streamlining professionals workflows through actionable data:

- Elderly participants reported a heightened sense of security due to home monitoring.
- A B2B SaaS model has been established for hospitals and rehab centres. The modular design allows the solution to be transferable beyond orthopaedics to other clinical areas.
- Reduced the overall burden on hospital emergency services by moving toward a proactive, remote care model.
- Zenlab & Biromatik strengthened their expertise in EHR integration and high-level data security.

# OUTCOMES

The pilot successfully validated the technical architecture and met the primary performance targets for patient care and system stability:

- Successfully targeted a 20% reduction in emergency room visits and a 10% reduction in non-emergency follow-up visits.
- Measured an improvement in patient-reported quality of life using the VR-12 scale.
- Satisfactorily validated the prototype through a study with 20 patients, receiving positive feedback on usability and security.
- Elderly patients reported feeling “more secure” knowing they were being monitored at home.
- Verified reliable system performance and data flow between the mobile app, clinician platform, and cloud backend using HL7 FHIR standards.

# SUSTAINABILITY

The project has moved beyond the experimental phase into a long-term commercialisation roadmap:

- Due to the discovery that the alert system triggers MDR Class IIa medical device requirements, the partners are pursuing a two-phase approach:
  - Phase 1 (2025–2026): Market entry as a wellness-oriented digital support tool (focusing on PRO collection and reminders) while simultaneously pursuing formal certification.
  - Phase 2 (2027+): Transition to a certified clinical-grade tool with full diagnostic alert capabilities and potential for insurance reimbursement.
- KSRD has committed to integrating MobileCare+ into the standard post-operative care for all orthopaedic patients.
- Targeting 26 commercial customers by 2030, with expansion into Slovenia, Croatia, Austria, and Germany.
- Future efforts will focus on deep integration with EHR vendors and navigating national health insurance reimbursement pathways to ensure financial viability.

# TESTIMONIALS

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*“This project marked our first experience validating a digital health solution through direct collaboration with clinicians and patients in a real clinical setting. Engaging with healthcare professionals throughout the co-creation and pilot phase, supported by the HealthChain framework, provided crucial insight into real-world clinical workflow, constraints and decision-making processes. This experience significantly strengthened the relevance, usability and maturity of the developed solution and provided valuable practical knowledge for future healthcare projects.”*

