

Accelerating Commercialisation and Internationalisation of Rehabilitation Technologies

Transnational Pilot Action for MedTech SMEs in Rehabilitation



A Cross-Border Support Model for Rehabilitation Innovation

Pilot Action Insights from the RehAllianCE transnational service portfolio

The RehAllianCE Transnational Pilot supported eight Small and Medium Enterprises (SMEs) from five Central European countries in validating innovative rehabilitation technologies under real-life conditions. Companies tested advanced solutions including robotics, wearables, digital health platforms and tele-rehabilitation services together with specialised validation centres and market experts.

Why a Transnational Pilot Was Needed

Rehabilitation technologies are moving quickly, from robotics and wearable monitoring to tele-rehabilitation platforms and digital health applications. Yet for many SMEs, the path from prototype to market remains fragmented.

Innovators need credible testing environments, feedback from users and clinicians, and a clearer view of regulatory, reimbursement and market entry conditions. These resources are rarely available in one region alone.

This initiative addresses this gap by connecting SMEs with complementary expertise from Hungary, Austria and Italy, turning the RehAllianCE partnership into a practical acceleration pathway for rehabilitation innovation.

Pilot Logic: from SME needs to market readiness

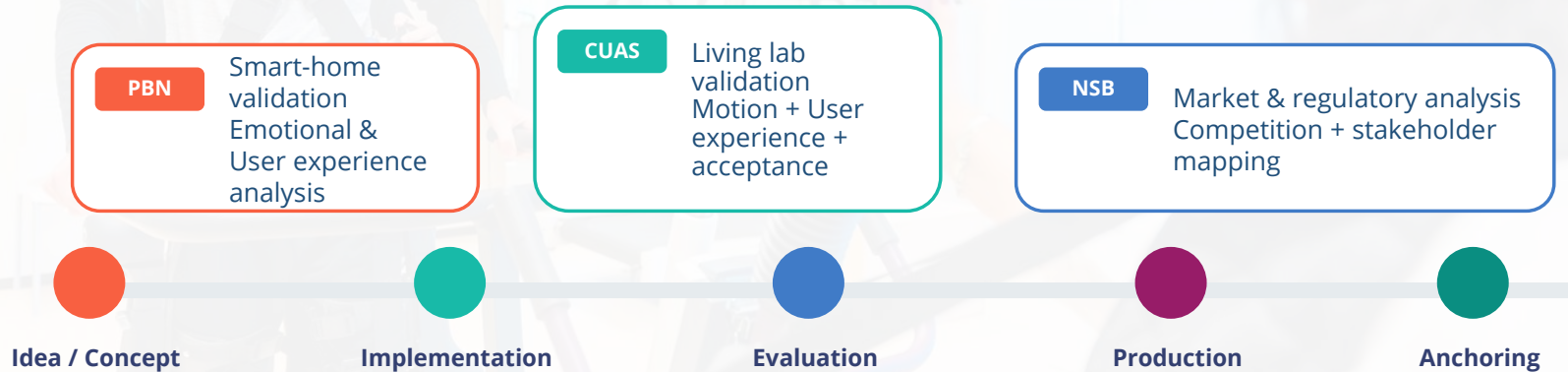
A practical acceleration pathway for rehabilitation technologies was tested.



Core idea: combine technical validation, user-centred testing and market-oriented consulting in one cross-border service model.

Three Services Along the Product Development Pathway

The pilot services covered different stages: validation, user acceptance, regulatory readiness and market access



A Diverse SME Portfolio Across Central Europe

Selected companies represented different countries, maturity levels and rehabilitation technology areas.

RehAllianCE

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GAMETHERAPY s.r.o.

Technology Focus:

AR-based diagnostic tool for neurological conditions

- Modular motor, cognitive & balance tests via AR/VR
- Targets Parkinson's, Alzheimer's & multiple sclerosis
- Improves diagnostics & rehab through gamification

Service Type: Product validation in a smart-home setting



Service provider: **PBN**

2



ilogs healthcare GmbH

Technology Focus:

Remote rehabilitation platform (tele-rehab / monitoring)

- Sensor-shirt & app with serious games
- Virtual coach & personalized sessions
- Web platform for remote therapist monitoring

Service Type: Living Lab and rehabilitation-specific validation



Service provider: **CUAS**

3



DigitalRehab srl

Technology Focus:

Sensor-based rehabilitation system (movement tracking, serious games)

- Smartring tracks sleep, stress, HR, SpO₂, HRV, activity & temperature
- Real-time data for personalized rehabilitation & health management
- Integrated into the JAMES platform

Service Type: Living Lab and rehabilitation-specific validation



Service provider: **CUAS**

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Imaginary srl

Technology Focus:

Game-based rehabilitation (health apps / digital rehabilitation)

- Gamified motor & cognitive therapy via VR
- TV-connected home kit with body tracking
- Remote supervision boosts engagement & outcomes

Service Type: Market, regulatory and competitive positioning



Service provider: NSB



Pro-PLUS S.A.

Technology Focus:

Tele-rehabilitation system for cardiac rehabilitation

- Tele-rehabilitation system for post-stroke patients
- Safe, remote cardiac coaching with medical device-grade technology
- Treats three times more patients remotely

Service Type: Market, regulatory and competitive positioning



Service provider: NSB



Gabel Tech S.r.l.

Technology Focus:

Assistive / rehabilitation product for physical activity support

- Digital walking poles track coordination & movement
- App and web platform provide performance statistics
- Measures more than 30 parameters, including heart rate, speed and calories

Service Type: Market, regulatory and competitive positioning



Service provider: NSB

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Morecognition srl

Technology Focus:

Wearable EMG and IMU rehabilitation monitoring system

- EMG and IMU sensors for real-time motion & muscle tracking
- AI-powered biofeedback for personalized therapy
- Precise data for clinicians to optimize recovery

Service Type: Market, regulatory and competitive positioning



Service provider: **NSB**



ACTIMI GmbH

Technology Focus:

Digital health infrastructure

- API-first platform for wearables, devices & health APIs
- Scalable infrastructure for remote patient monitoring
- MDR IIa, GDPR and HIPAA-compliant infrastructure for fast and secure health app development

Service Type: Market, regulatory and competitive positioning



Service provider: **NSB**

Implementation Insights by Service Provider

Each provider generated a different type of evidence for SMEs and for the future RehAllianCE model.



PBN

Validation in a smart-home environment

Augmented Reality neurological assessment was tested with structured user feedback and emotional/cognitive monitoring. Results confirmed usability potential and highlighted onboarding, instruction and interaction refinements.



CUAS

Living lab and rehabilitation use cases

Motion analysis, acceptance testing and UX evaluation confirmed feasibility of tested solutions while showing that feedback clarity, system transparency and guidance directly affect measured performance.



NSB

Market and regulatory consulting

Market, regulatory, competitor and stakeholder analyses clarified country-specific entry conditions and highlighted the importance of reimbursement pathways, evidence needs and clinical workflow fit.

Common pattern: structured feedback loops helped SMEs translate testing and analysis into clearer development and market priorities.

Lessons for Scaling the RehAllianCE Model

The pilot confirmed that coordinated cross-border support can accelerate rehabilitation innovation when the service model remains practical and SME-centred.



Official Website

interreg-central.eu/projects/rehalliance

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Interreg Central Europe is a transnational cooperation programme supporting innovative solutions to common challenges across Central European regions. RehAllianCE addresses the critical intersection of demographic change, digital transformation, and equitable access to rehabilitation services, a priority area for healthcare policymakers across the programme region.