

SmartEEs Success Stories



Ab.Acus is a high-tech SME with the underlying mission of translating digital innovation into tools that can work on mainstream technologies to improve the quality of healthcare while reducing the costs. Our product portfolio comprises different solutions in the field of digital biomarkers, telerehabilitation, data analysis, home care monitoring, digital therapeutics and ubiquitous computing.

www.ab-acus.eu



Problem to be solved

One of the major challenges in the healthcare field is the shifting of quantitative assessment and therapy delivery from clinical settings to home. This concept is particularly important for upper limbs physical rehabilitation, a condition with a high impact both on patients' quality of life and on healthcare costs. Indeed, physical and occupational rehabilitation require constant practice to regain the functionalities needed to perform the activities of daily living and could benefit from home-based care. New easy-to-use and evidence-based solutions are needed to promote self management of care and boost the introduction of home-based physical rehabilitation in clinical practice.

Solution provided by SmartEEs

RehabMe is a platform based on RF technology for the provision of physical and occupational rehabilitation at home. SmartEEs helped in improving the wearability of the device to be worn on the patient's forearm and hand, to track the interactions with everyday objects, to measure performance and to guide the execution of the exercises. The solution is characterized by a light setup and easiness of use. Moreover, the use of everyday objects promotes the performance of functional tasks according to occupational therapy rehabilitation paradigm, for the patients to regain upper limbs functionalities.

Business model & SmartEEs' impact

RehabMe addresses the market of occupational therapy for the rehabilitation of post-stroke patients. The number of patients has been constantly growing in the last decade, together with the associated care costs, especially in the northern EU countries, as well as the number of professional occupational therapists. SmartEEs helped in the targeting and sizing of the reference market and in the identification of possible distributors of the RehabMe solution that are already present on the market with complementary solutions.

