

The Active Hands Project

Home Care & Care Home

Project Type: Innovation by Ideas
Societal challenges: Improve healthcare

The project in a nutshell

The Active Hands platform provides an innovative technology that supports patients with cognitive disorders at home enabling them to successfully complete activities of daily living such as preparing tea. The platform monitors the user's ability to follow a pre-defined succession of actions using wireless sensors and a Kinect camera. When users make a mistake or requests help, audio-visual cues help to guide them to a successful outcome while fostering their independence at home.



Who benefits?

The platform directly supports individuals with cognitive disorders such as dementia and stroke patients. The existing healthcare system will also benefit by reducing the demands placed on existing home support services and by linking health care professionals to the platform for remote monitoring.

Where are you today and what is next?

A prototype of the Active Hands platform has been developed, which includes improved action recognition algorithms, newly developed "ACTISENS" sensors and integration with an existing service provider (Technosens "e-Lio" box). The feasibility of this approach with dementia patients is currently being tested in Germany.



A small usability study assessing the prototype platform with dementia patients will be completed in Germany in December 2016. Following improvements to the platform further piloting will begin in 2017 in Germany and in several Red Cross senior residences in France.

Project Leader



Other Partners



We are looking for new Partners / Expertise

We are seeking additional partners who may be interested in utilising the Active Hands platform for wider applications where instrumentation of a person or object is required (such as rehabilitation and smart games)



If you wish to collaborate with this project, scan the QR code and connect with it