

39. CENIT Rehabilita – Disruptive Technologies for the Rehabilitation of the Future

MUNICIPALITY

Badalona

HEADLINE

CENIT Rehabilita proposes a change of paradigm in medical rehabilitation. Through research into disruptive technology, the aim is to generate a new model of ubiquitous rehabilitation, personalised and evidence-based, that will improve the lives of people with disability.

ECONOMIC AND TECHNICAL DATA

- Total budget: €15 M
- Financing: by the CDTI, the Ministry of Science and Innovation, and a consortium of leading health technology companies
- Start: 2009
- Term: 4 years

PROJECT DESCRIPTION

The main objective of the project is to develop rehabilitation to guarantee that people with a disability can receive personalised rehabilitation treatment, of sufficient intensity, during whatever period of time necessary, at a sustainable cost; in addition to developing platforms for providing rehabilitation services that enable the development of evidence-based rehabilitation practice. And from a more operational perspective, the project aims to offer new responses and solutions oriented towards improving the efficacy and sustainability of the rehabilitation process.

Rehabilita is a project of state-wide scope, financed by the Centre for Technological and Industrial Development and by a consortium of leading companies in the sphere of technologies and reference hospitals. The project is now at the end of the second period. Since 2009 and during 2010 it has advanced in the knowledge of new technologies applicable to rehabilitation, with the collaboration of around a hundred professionals from the biomedical sphere who have worked to create a new personalised, monitored and ubiquitous rehabilitation paradigm, with a continual evaluation of the efficacy of procedures, which at the same time generates new scientific knowledge applicable to research.

For 2011 it is planned to obtain the first prototypes based on intelligent “senso-active” textiles, interactive virtual environments, inter-operable secure virtual networks for clinical information, robotic devices with advanced perception and action capabilities and smart adaptation technologies for therapies. This cutting-edge technology will continue to be developed throughout the project to make the change in the rehabilitation paradigm a reality.

WEBSITE

www.guttmann.com and <http://rehabilita.gmv.com/web/guest>

PERSON IN CHARGE OF PROJECT

Josep M. Tormos Muñoz, research coordinator for the Guttman Neurorehabilitation Institute Private Foundation.