29. REHABILITA - Disruptive technologies for rehabilitation of the future

MUNICIPALITY
Badalona

HEADING
Rehabilita changes the paradigm of medical rehabilitation. The aim is for research into disruptive technology to generate a new model of ubiquitous rehabilitation, personalised and evidence-based, that will improve quality of life for people with disability.

ECONOMIC AND TECHNICAL DATA
- Budget: € 15 M
- State-wide project, financed by the Ministry of Science and Innovation's CDTI (Centre for Technological and Industrial Development)
- Legal form: Rehabilita Consortium, comprising leading companies in the technology and hospital areas

DESCRIPTION OF PROJECT
Rehabilita is a research project whose mission is to bring about change in the model of rehabilitation by integrating state-of-the-art technologies into rehabilitation centres and thereby optimise the rehabilitation process. The project's main aim is to develop rehabilitation so that people with disability can receive a guarantee of personalised rehabilitation of sufficient intensity, for as long required and at sustainable cost. It is also planned to develop rehabilitation service platforms that enable the development of the practice of evidence-based rehabilitation. In other words, to offer new responses and solutions that will improve the effectiveness and sustainability of the rehabilitation process.

The project has completed its third phase. In 2011 four scenarios of rehabilitation were defined to demonstrate the new model of ubiquitous, personalised and evidence-based rehabilitation. Progress continued on the design and development of the disruptive technology involved in each of these scenarios as regards monitoring, care, retroaction, interoperability and knowledge generation systems. The first prototypes have already been obtained.

The project is due to end in December 2012. During this final year the definitive prototypes will be obtained based on intelligent, senso-active textiles, interactive virtual environments, interoperable secure virtual networks of clinical information, robotic devices with advanced perception and action capabilities and smart adaptation technologies for therapies. This cutting-edge technology will be integrated into the four Rehabilita scenarios which will be presented as a result of the project and the first step for change in the rehabilitation paradigm.

PROJECT ADDRESS
www.guttmann.com
rehabilita.gmv.com/web/guest;jsessionid=5C3E78A1BBEAE9CAEB7096199D435256

RESPONSIBLE
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