

NEWSLETTER Issue 1/2018



Project acronym:
BRAIN4TRAIN

Project full title:
Development of innovative Training contents based on the applicability of Virtual Reality in the field of Stroke Rehabilitation

Project Reference:
2017-1-PL01-KA202-038370

Duration:
01.10. 2017- 30.09. 2019

Consortium:
**Silesian University of Technology
Instituto de Biomecánica de Valencia
Fondazione Politecnico di Milano
Stichting European Society of Physical and Rehabilitation Medicine**

Project budget:
245 660 EURO

www.brain4train.eu



This project is Funded by European Commission
ERASMUS+

Call: 2017 KA2 Cooperation for Innovation and the
Exchange of Good Practices

KA202 - Strategic Partnerships for vocational
education and training

EDITORIAL

Welcome to the first BRAIN4TRAIN newsletter, which will provide you with an overview of the initial project phases and the current activities.

THE OBJECTIVE AND SCOPE OF THE PROJECT. The Brain4Train project is a response to the needs of patients with neurological problems, especially after a stroke, for whom intensive rehabilitation, including home-based rehabilitation, is an important factor supporting the recovery process and return to cognitive and motor skills.

The main goal of the project is development and implementation of an online free access course to assure at the maximum number of European medical specialists a worthy education and training regarding the applicability of biomechanical technology systems (BTS) and Virtual Reality (VR) in the context of treatment of neurological patients especially those who have suffered a Stroke.

Content generation will be focused on the main interest areas of the health professionals, especially those related with neurological rehabilitation. The completed course will be available in four languages: Polish, English, Italian and Spanish. The project aims to extend the technological knowledge to professionals in the clinical setting so they can improve the educational methodologies currently used. Brain4Train project will promote the training in the practical use of new technological devices.

The arrival of this knowledge to clinicians will also encourage their organizations to promote the use of new technological systems and in to update the facilities, labs and in the end the technology the use in their daily practice.

PROJECT CONSORTIUM. The consortium of the project, along with the coordinator, which is the Silesian University of Technology (Poland), are: Instituto de Biomecánica de Valencia (Spain), Fondazione Politecnico di Milano (Italy), Stichting European Society of Physical and Rehabilitation Medicine (Netherlands).



**Politechnika
Śląska**



IBV

INSTITUTO DE
BIOMECAÁNICA
DE VALENCIA



ESPRM

European Society of
Physical & Rehabilitation Medicine

MEETINGS

Gliwice, 23rd November 2017

Silesian University of Technology hosted the Brain4Train project meeting, Brain4Train initiative funded by European Commission ERASMUS+ Call 2017 KA2 – Cooperation and Innovation for Good Practices.



A consortium members met in the Project Center of the Silesian University of Technology to discuss the main issues regarding the project.

Work packages and tasks as well as main management and financial issues were presented and discussed.

The meeting gave also participants opportunity to get acquainted with each other.



NEWS

First Work Package titled *Definition and standardization of training content* is finished and the results published.

The main objective of this WP was to establish the standards and requirements for the vocational

education and training (VET) curriculum, in order to suit the specific needs of potential users or trainees. Two international research survey were included in order to gather information for creating VET Curriculum: (1) Focus group sessions and (2) Questionnaire.

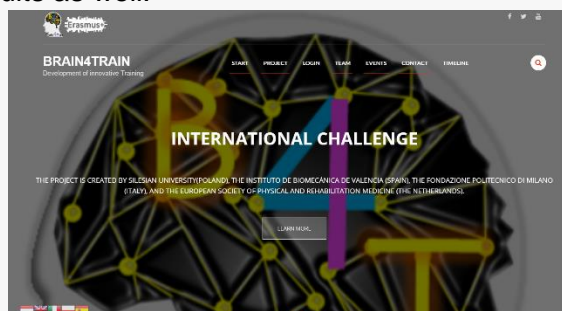
Three focus groups had their national sessions in Spain; Poland and Italy and a **total of 227 responses of questionnaire** were gathered from 34 different countries.

According to the research results VET curriculum was developed that contains 4 Modules and 13 sessions in total. VET curriculum documentation was prepare according to **European Qualifications Framework (EQF)**.

Brain4Train in MEDIA

Since the start of the project, the consortium of the Brain4Train has undertaken a number of activities to disseminate project idea and results.

You can find a main project website on brain4train.eu where the facts or news are presented and public reports including project results as well.



In addition: the objectives and description of Brain4Train project were published by PAP (Polish Press Agency) and dozens of other international, nationwide and local e-newspapers.



Different information and communication channels have been launched for promoting Brain4Train, like:

- websites of consortium members:



- social media (Facebook, Twitter)



- bulletins and magazines available to the public



- e-newsletters disseminated via Internet.

CONFERENCES / SCIENTIFIC PAPERS

Zabrze, 3rd March 2018

The results of the first stage of project works were presented by Joanna Bartnicka (SUT) at International Conference titled "Impact of modern technologies developed in international and urban projects to vocational training. MULTIPLIER EVENT - LEARNING BY CONSTRUCTION".



Two scientific articles have been accepted to 9th International Conference on Applied Human Factors and Ergonomics – AHFE 2018.



93	Education in Medicine and Rehabilitation	TELS	Calicos 2
Co-Chairs: Joanna Bartnicka and Salman Nazir, Poland/Norway			
OVOMAX online course as a way to improve competencies and qualifications for designing and manufacturing of custom-made orthopedic implants Jarosław Tokarczyk, Marek Dudek, Olga Jorda, Elkin Martinez, Andres Penulas and Victor-Javier Primo-Capella, Poland			
Specialized training in 3D printing and practical use of acquired knowledge – 3DSPEC online course Dariusz Michalak, Magdalena Rozmus, Juan Gomez, Miran Papež, Viljem Osojnik, Diana R. Bueno, Grzegorz Świerczek and Ewelina Limanowska, Poland			
Educational needs in neurological rehabilitation – a "Brain4Train" survey findings from European countries Joanna Bartnicka, C. Herrera, Raquel Portilla, Agnieszka Zietkiewicz, Katarzyna Mieczko, Esteban Pavan, Enrique Varela-Donoso and David Garrido, Poland			
The role of virtual reality and biomechanical technologies in stroke rehabilitation Joanna Bartnicka, Cristina Herrera, Robert Michnik, Esteban Pavan, Paolo Vercosi, Enrique Varela-Donoso and David Garrido, Poland			
Investigating the learning experiences of students for investing into learning quality in higher education, service design based project in Hungary Tibor Barath, Hungary			

This year's conference, AHFE 2018 will be held in Orlando, Florida, USA. The papers were prepared under the special session titled: Education in Medicine and Rehabilitation.

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