



Assisting humans with special needs:
Curriculum for HUMAN-TOOL interaction Network

Lana Popović Maneski: **Development of the Laboratory facilities that support the new curriculum**

EQUIPMENT plan (from the proposal):

- The instrumentation that is planned for HUTON will be the basis for the laboratory education within the course, but the real value will be in the realization of the final projects. The staff training planned in HUTON will ensure the required high skills profile assistance for the final projects. The equipment that will be the foundation of the laboratories will be shared between the university and clinical partners.
- WP3: Development of the Laboratory facilities that support the new curriculum
- ASSUMPTIONS: laboratory space available, staff in labs available, integration capabilities for integration through the new network. RISKS: difficulties in purchasing the desired curriculum required instrumentation, difficulties in integrating the new instrumentation in the daily activities of clinical partners, timely approval for the use of new instrumentation in medical institutions.



Work Package 3 (from the proposal):

The inventory will be first done of the existing lab equipment. Based on that, instrumental parts will be purchased, aiming to minimize the costs and optimize the use of the existing instrumentation. The inventory of the tools used by clinical partners will be done, also. The integration, aiming at optimal usage, will be developed by web services and networking made possible by the network center.

Deliverable 3.1: Report and request for the purchasing of instrumentation

Work Package 3 (from the proposal):

For that purpose, there will be meetings of representatives of the partner countries in Serbia; meetings of representatives of the partner countries with the representatives of EU in an EU country; meetings and discussion for final solution of representatives of the partner countries in Serbia.

In accordance with reviewed, planned data for the tender will be prepared. Equipment will be purchased and installed at the university and clinical partners laboratories. The plans are to acquire: 1) 9 computers, 3 scanners, 3 cameras, 9 printers; 2) Movement analysis hardware, electrical stimulation hardware, haptic robots; and 3) application software (signal processing, image processing, etc.).

Deliverable 3.2: **Tender released and the new equipment purchased**

CLINICAL PARTNERS	
Reyojce, WalkAssist, Walky, Smarting	CR BEG
WalkAssist, Walky, Smarting	CYHCI NS
Reyojce, WalkAssist, Smarting, Stimulator	SH NP

UNIVERSITY PARTNERS	
None planned	UB
DAQ	UNS
DAQ, General Lab equipment Reyojce, WalkAssist	SUNP

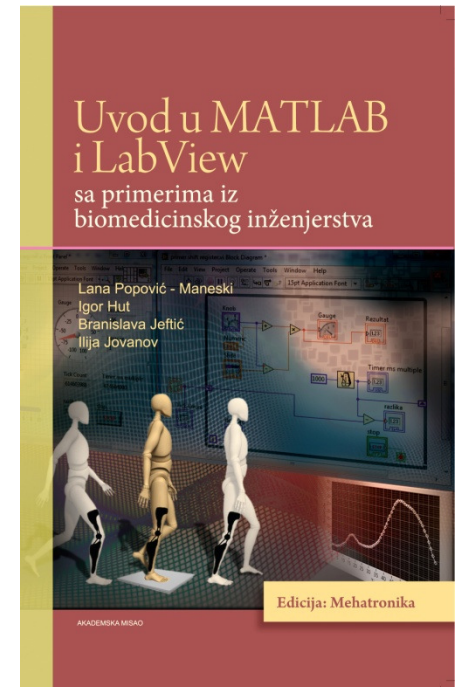
Work Package 3 (from the proposal):

Besides the theoretical background of the teaching materials there is an imminent need for the practical aspect in knowledge implementation. Therefore **the manual for Laboratory work** is an important supplement to each teaching material. It will be composed of detailed instructions on procedures, as well on appropriate equipment and instrumentation. **Laboratory staff** and teaching assistants **are to be trained** in a good manner intending to provide a high level of education quality.

Deliverable 3.3: **Number of trained laboratory staff**

+

Manuals for work with Rejoyce, WalkeAssist, Walky, Smarting, Stimulators and DACs



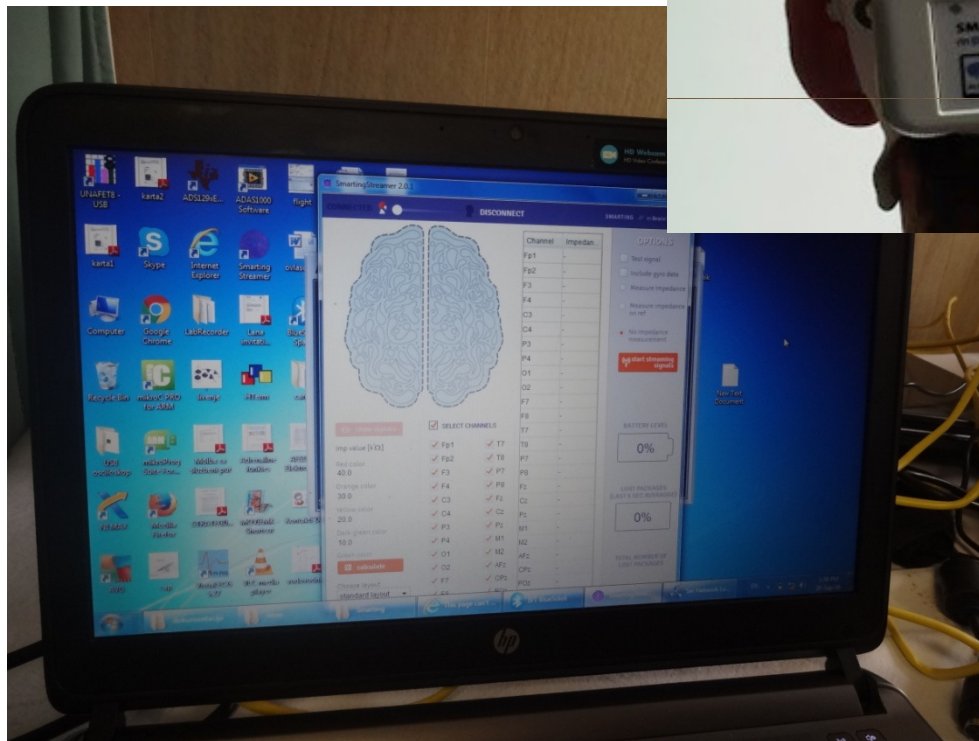
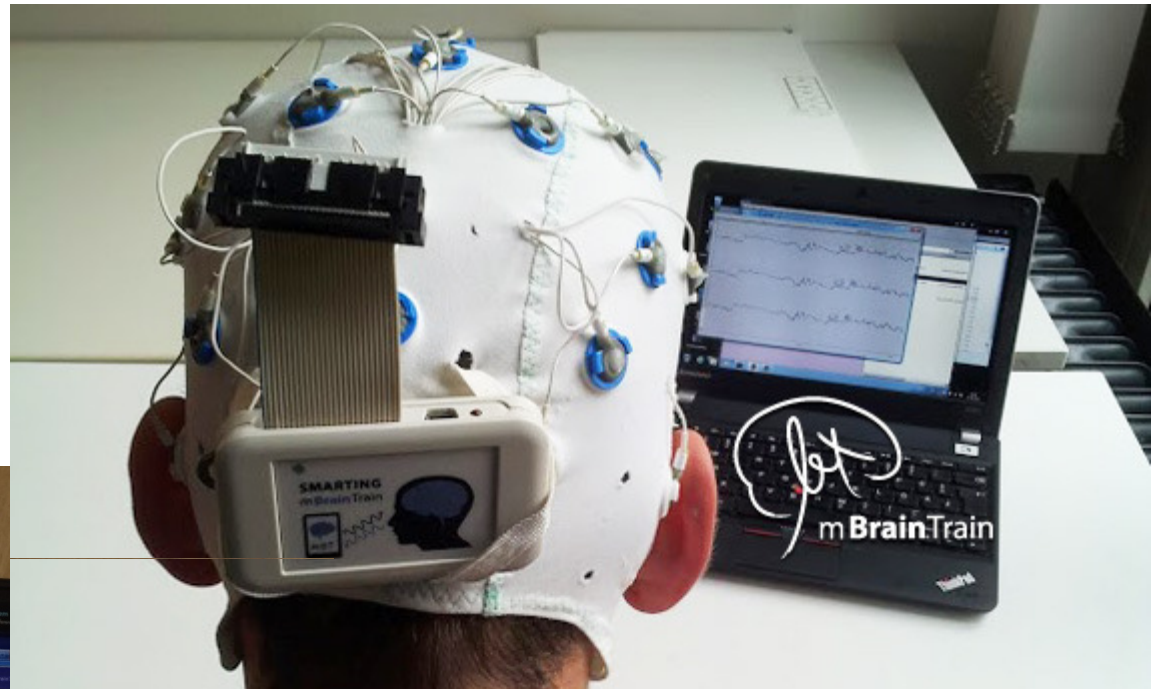


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TEMPUS

SMARTING in action

EQUIPMENT already in action



EQUIPMENT already in action



electronic stimulator



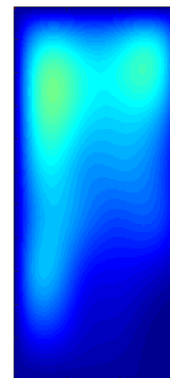
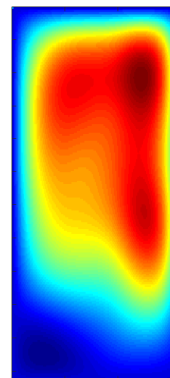
mi sensor

SMARTING & stimulators in action

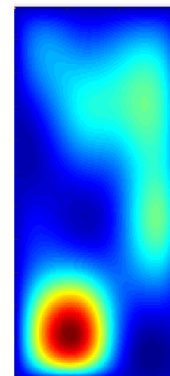
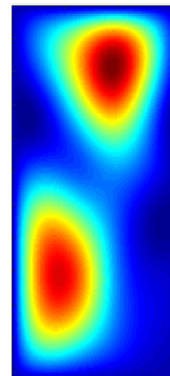
GRASPING

NONPARETIC

PARETIC



DORSAL SIDE

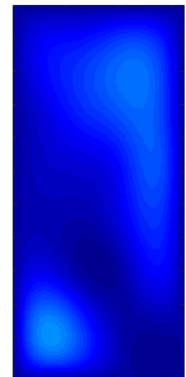
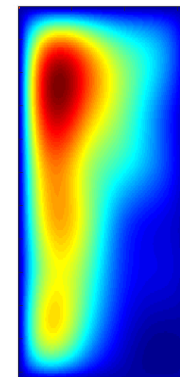
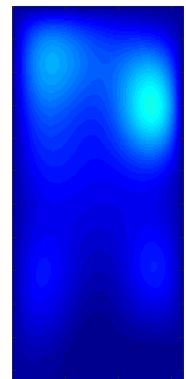
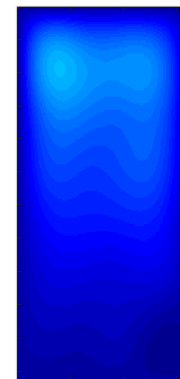


VOLAR SIDE

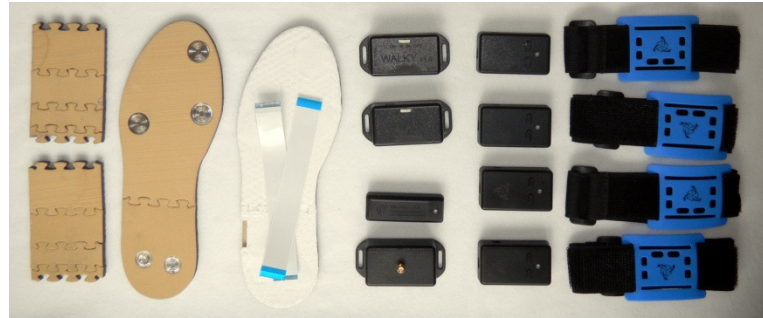
PREHENSION

NONPARETIC

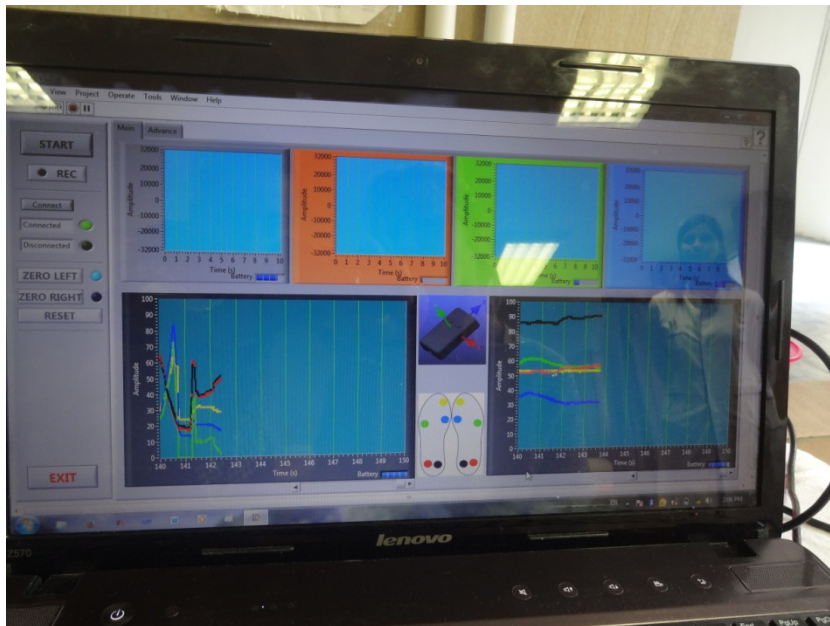
PARETIC



EQUIPMENT already in action



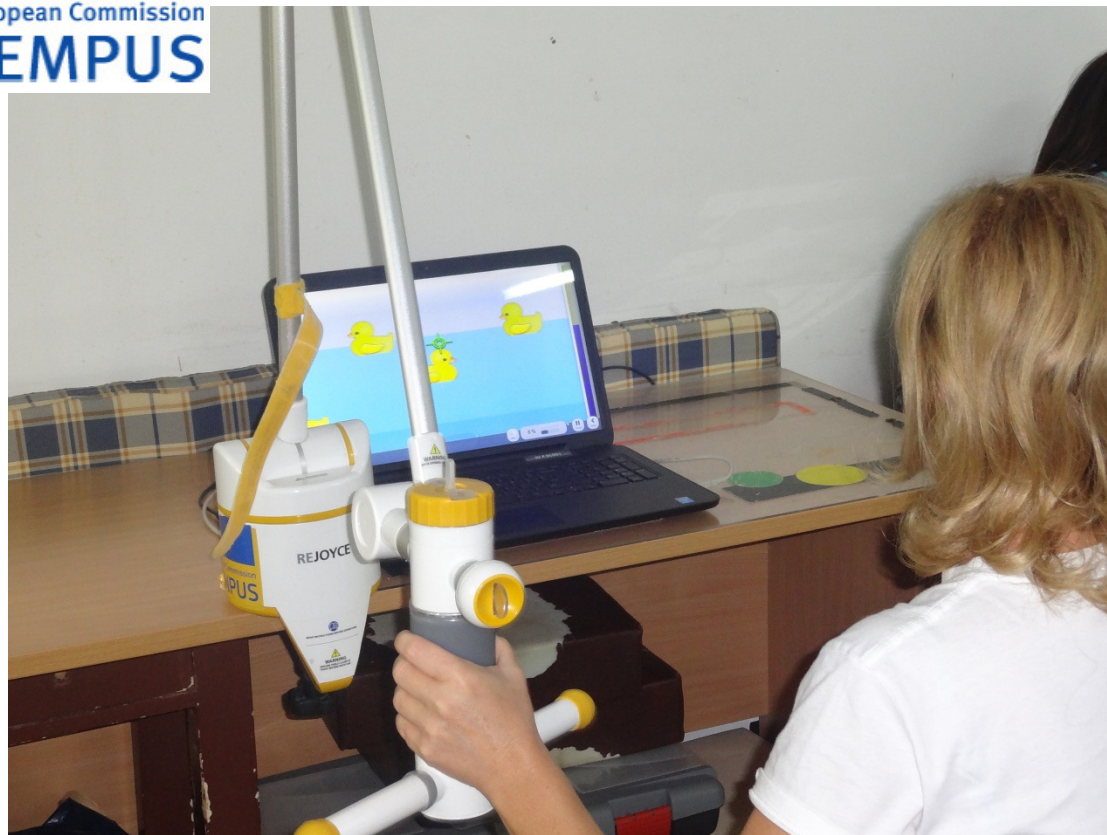
SMARTING and Walky in action



SMARTING and Walky in action



EQUIPMENT already in action



Rejoyce in action



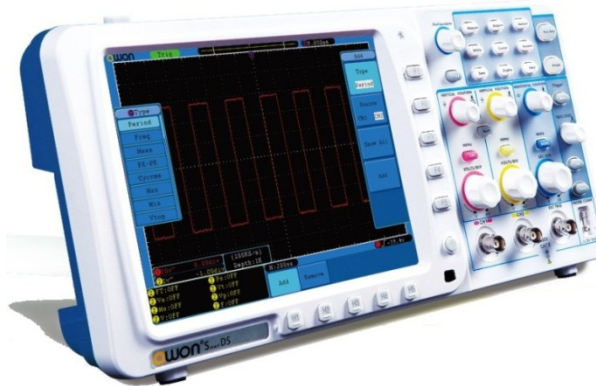
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TEMPUS PROJECT HUman-TOol interaction Network

General lab equipment



A/D converter



Oscilloscopes



Power source



Function generator

Practice rooms in Clinic “Miroslav Zotovic”, in Belgrade



Practice room in Novi Pazar



Main classroom in Belgrade and server equipment for online web lecture transmissions





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TEMPUS PROJECT
HUman-TOol interaction Network

Thank You

HUman-TOol interaction Network - HUTON