



### WP3

## Development of the Laboratory facilities that support the new curriculum

Person responsible: Lana Popović-Maneski, Assist.Prof.



### Goals

1. Development of the laboratories at three university partner sites

Measurement equipment Mechatronic systems for educational purposes

2. Instrumentation for improved rehabilitation at three clinical partner sites

Training of the medical staff
On site education of the students following the new curriculum



### WP3 Activities

1	Planning for purchasing of new equipment
2	Preparation of the tender documentation
3	Training of the laboratory staff

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Deli vera ble	Activities (as indicated in the	1	2	3	4	5	6 7	7 8	3 9	10	<b>1</b> 1	1 1	2 1	13	14	15	16	17	a p r	19	20	21	22	23	oct	25	26	27	<b>28</b>	3 29	30	31	32	33	34	35	36
	Development of the Laboratory facilities that support the new curriculum																																				
1 3.1	Planning for purchasing of new equipment	x	x	X	X	X	X																														
	Preparation of the tender documentation					X	X	XX	X	X																											
3.3	Training of the laboratory staff										X	X		X	X	X	X	X	X	X	X	X	X	X	X	X											



### **Guidelines:**

Intensive task oriented exercise speeds up the recovery of patients after CNS injuries!

#### Methods of exercise:

- Constraint induced movement therapy (CIMT)
- Robot assisted exercise
- Electrical stimulation
- Neurofeedback

#### Additional requirements:

- Movement assessment
- Data acquisition
- Lab measurement devices

#### **Devices:**

- Reyojce
- WalkAssist
- Stimulator Cefar
- Smarting

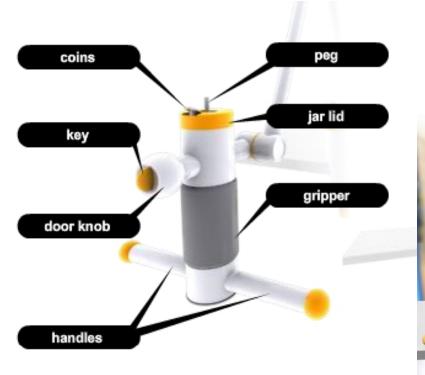
#### **Devices:**

- Walky
- NI
- various

**HUman-TOol** interaction Network - **HUTON** 



### Reyojce









### Reyojce





### WalkAssist







### WalkAround, Tecnalia Spain





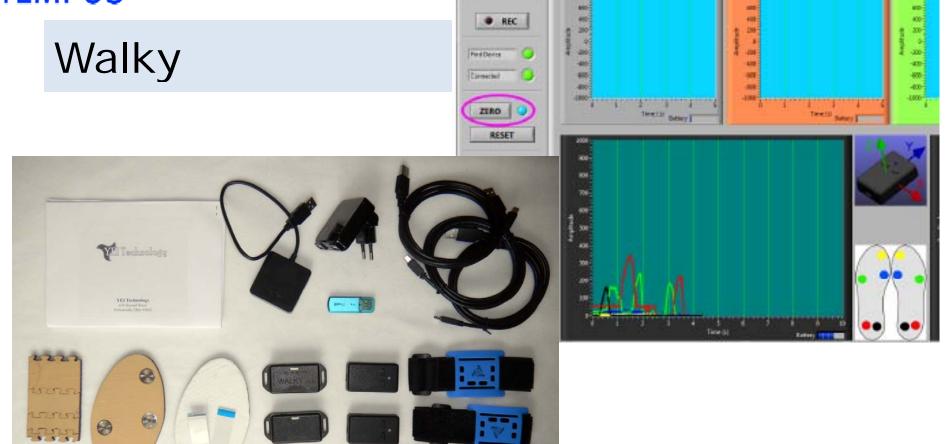
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#### **TEMPUS PROJECT HUman-TOol** interaction Network

• REC

Cornected

### Walky





### Smarting







### Smarting



### Cefar Compex Mi-Theta 600





### Actigrip, Neurodan





### General lab equipment





**Osciloscopes** 







**Function generator** 

**Power source** 



### Current activities

3

Training of the laboratory staff

Deadline changed due to equipment delivery delay

New deadline: November 30th

Current status: partial training done

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

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



# Upcoming training & demonstration meetings

Belgrade - November 7th

Novi Pazar – October 23/24



# Thank You