



# KTS Project Newsletter

## Co-creation Workshops Development

The co-creation workshops help us to determine the needs of medical students and novel surgeons related to the serious games.

Since participants had no experience, the co-creation workshops were useful to determine characteristics of the serious game. Workshops were organized by clinical partners to have an opportunity for an interactive discussion related to the local questionnaire results.

In order to have an objective method for surveying, evaluating and validating the requirements of the serious game, a unified questionnaire was prepared.



The detected user needs were aligned to 5 main groups:



- User friendly interface
- Serious games as video games
- Improving professional skills
- Accessibility and availability
- Evaluation

### Main points to be considered during development process:

Target group	Levels and tasks	Skills	Evaluation/feedback	Mistakes	
Availability	Prices	Language	Realism	Competition	Extras

## Workshop Conclusions

According to the previous research, the results of questionnaire and the workshops organized by the clinical partners, it could be concluded that there is a need to develop e-learning based serious games in the field of training psychomotor skills.

The serious game could be an effective method for medical students and novel surgeons to train and practice different skills in a motivating environment.



KTS-SMIT Poster

## Dissemination Activities

The 26th International Conference of the Society for Medical Innovation and Technology (SMIT) took place in September 18th-20th 2014, in Shanghai, China.

Addressing topics such as Surgical Robotics, Modelling and Simulation, Education and Training, Emerging Technologies for future etc., SMIT 2014 was a good opportunity to disseminate the KTS project.

Thus, Prof. Sánchez-Margallo presented a poster about KTS, containing general information about the project, describing the co-creation workshops along with the results.

The project was also presented in the "European Workshop on Advanced Technologies for Training in Minimally Invasive Surgery", held in Cáceres on September 12th 2014 ([link](#)).



Photos from the First Progress Meeting in Leipzig

## First Progress Meeting in Leipzig

The first progress meeting was held on 18th-19th September 2014 in the ISTT's facilities in Leipzig (Germany).

Topics discussed:

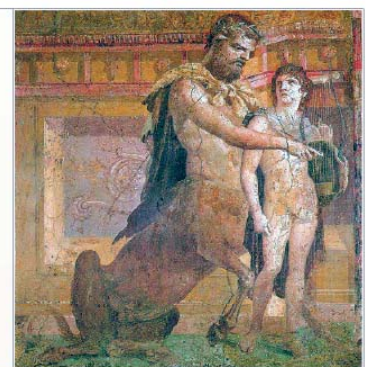
- Results of co-creation workshop:
  - detect user needs
  - set technical requirements (hardware and software)
  - set points to be considered during development
- Definition of learning objectives
- Relevant scenarios/tasks/skills/competencies to be integrated into the serious game
- Specification of the inner structure of the serious game (architecture)
- Administrative issues

Next progress meeting will take place in Budapest, Hungary, in 2015 (exact date to be set). The meeting will take place at Semmelweis University.

## Did you know?

In Greek mythology, Kheiron (also Cheiron or Chiron) was held to be the superlative centaur amongst his brethren. Kheiron was notable throughout Greek mythology for his youth-nurturing nature. His name was derived from the Greek word for hand (kheir), which also meant "skilled with the hands."

His personal skills tend to match those of Apollo, his foster father: medicine, music, archery, hunting, prophecy.



# Consortium



**Centro de Cirugía de Mínima Invasión Jesús Usón**

Francisco M. Sánchez Margallo - msanchez@ccmijesususon.com



**ISTT Hochschule für Technik, Wirtschaft und Kultur Leipzig**

Werner Korb - korb@istt.htwk-leipzig.de



**AVACA Technologies**

Nikos Skarmneas - nskarmneas@avaca.gr



**Semmelweis University**

György Wéber - gyorgyweber@yahoo.com



**Bioengineering and Telemedicine Centre**

**Universidad Politécnica de Madrid**

Enrique J. Gómez - egomez@gbt.tfo.upm.es



**MEDIS Foundation**

Calin Tiu - tiucalin@yahoo.com

Contact

**Address:** *Centro de Cirugía de Mínima Invasión  
Jesús Usón*

Carretera N-521, km 41,8, 10071  
Cáceres, Cáceres  
Spain

**Telephone:** (+34) 927 18 10 32  
(+34) 927 18 10 33

**Email:** cpo.kts@ccmijesususon.com