



**1st HERO International Conference  
On Neurocognitive long-term Effects  
Of Childhood Cancer Treatment**

**November 24 to 26, 2016 in Seville (Spain)**



**Hospitales Universitarios  
Virgen Macarena - Virgen del Rocío**



**VIRGEN MACARENA & VIRGEN DEL ROCÍO  
UNIVERSITY HOSPITALS · SPAIN**

Group of  
**Research and Innovation in Biomedical  
informatics, biomedical engineer and  
health economy.**

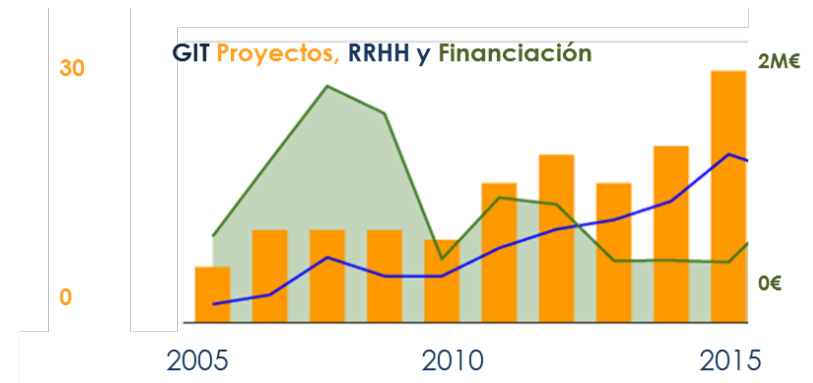
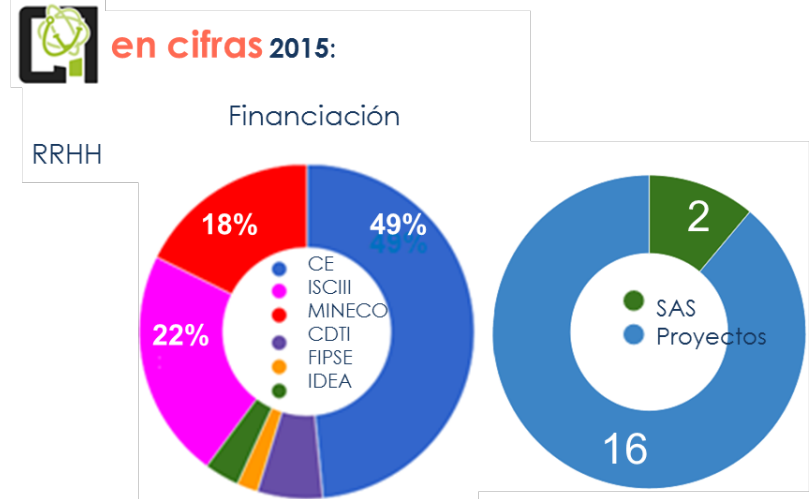
INSTITUTE OF BIOMEDICINE OF SEVILLE, IBIS/VIRGEN DEL ROCÍO  
UNIVERSITY HOSPITAL /CSIC/UNIVERSITY OF SEVILLE. SEVILLE, SPAIN



*Cristina Suárez Mejías*



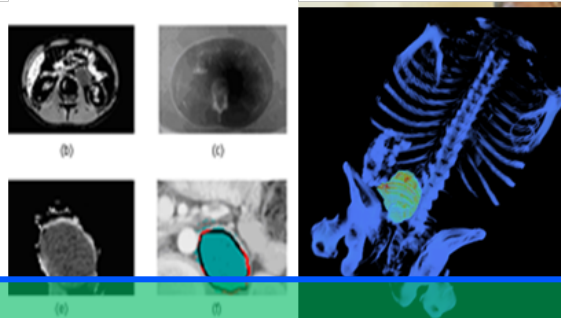
# Group name and members



# Research lines and projects



**Digital Health**



**Medical imaging treatment**



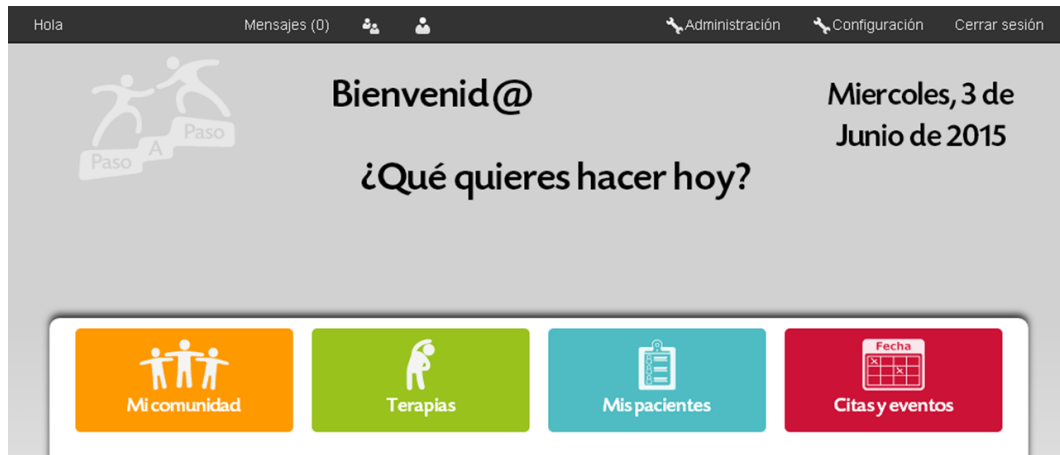
**Digital fabrication**



**Biomedical informatics**



## Cognitive rehabilitation of patients with stroke [2011-2014] MICCIN Social network and games



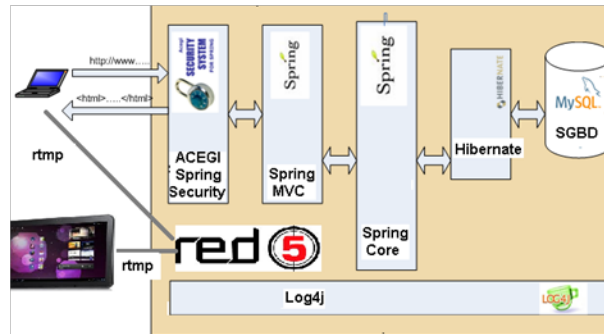


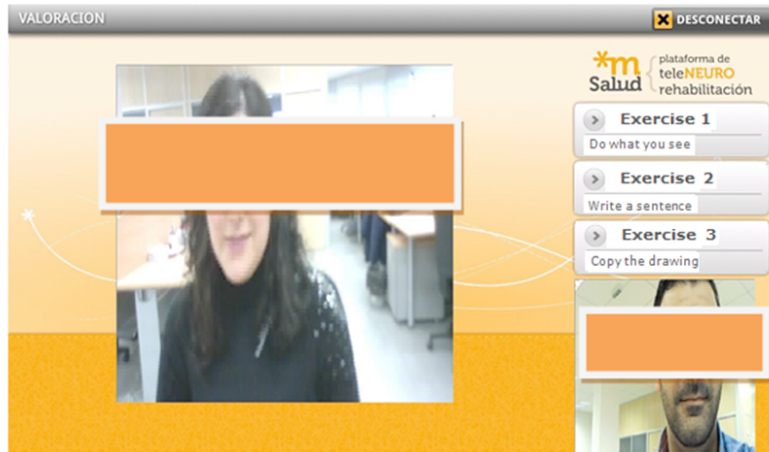
# Cognitive rehabilitation of patients with acquired brain damage [2011-2014] Vodafone

## HEALTH CARE PROFESSIONAL



## PACIENT





**Mini-Mental State Examination** Ayuda

	Points	Score
<b>ORIENTATION</b>		
<input checked="" type="checkbox"/> What is the year? Season? Day? Month?	5	0
<input checked="" type="checkbox"/> Where are you now? State? Country? Town/City? Floor?	5	0
<b>REGISTRATION</b>		
<input checked="" type="checkbox"/> Name these words: COIN-HORSE-APPLE. Then ask the patient all 3 after you have said them. Give 1 point for each correct answer. Then repeat them until 6 times if the patient does not learn them.	12.3	0
<b>ATTENTION AND CALCULATION</b>		
<input checked="" type="checkbox"/> If you have 30 euro and you give me 3. how much money do you have? And if you give me 3 euro?	5	0
<input checked="" type="checkbox"/> Name these numbers: 5-9-2 and ask the patient to repeat them (Repeat until the patient learns them). Repeat them in reverse order.	3*	0
<b>RECALL</b>		
<input checked="" type="checkbox"/> Ask for the 3 words repeated above.	3	0

**Comments**

Send comments to neurologists  
 Send comments to therapists  
 Send comments to a particular professional

**Finalizar** **Cancelar**

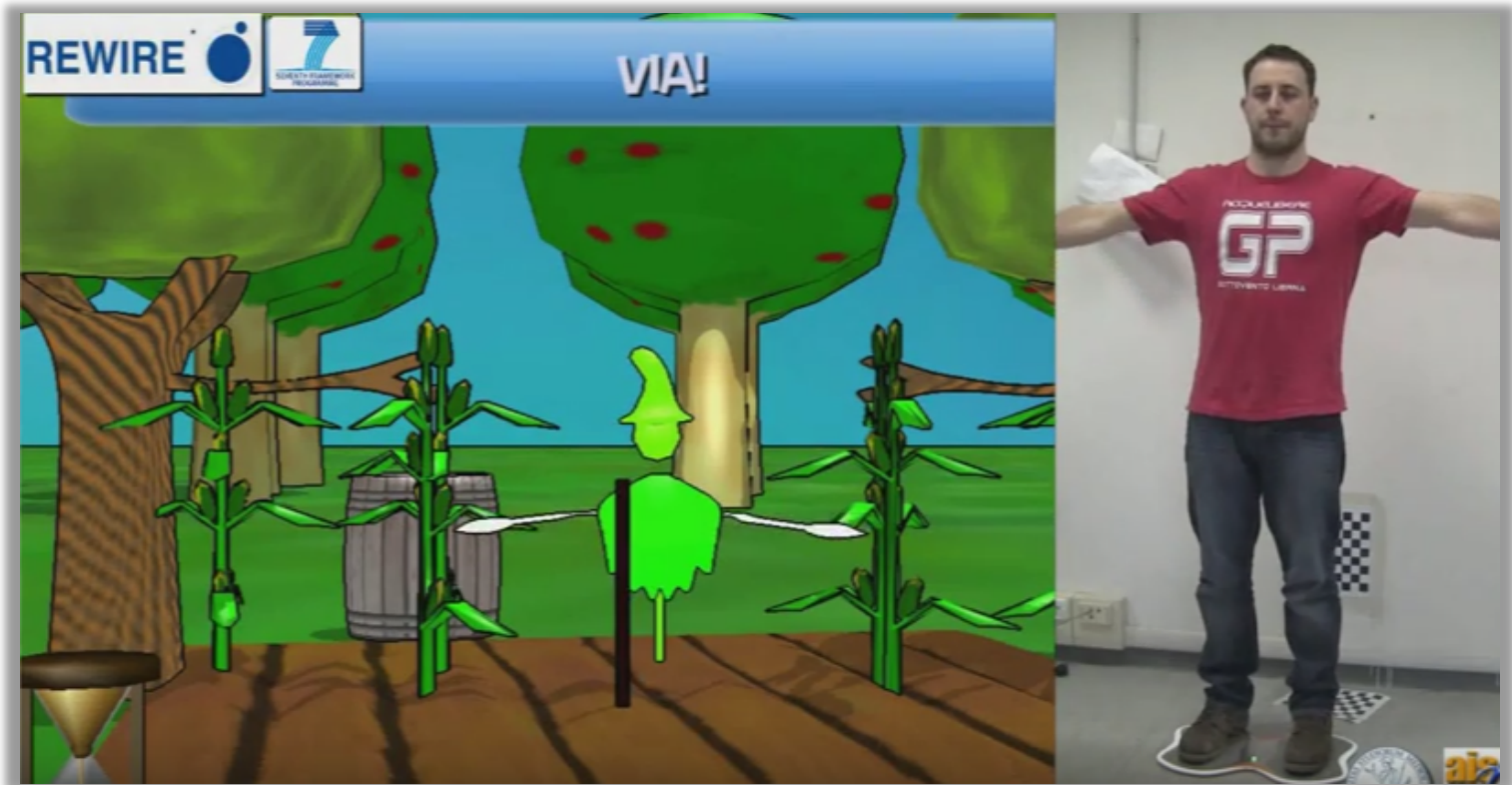
Rehabilitative Wayout In  
Responsive home Environments



*Motor rehabilitation of patients with stroke and neglet using AR [2011-2015]*

*Pilot:*

*16 patients*







<https://youtu.be/75xb39Q8QEg>  
<https://youtu.be/acopdNtddIM>



# Potential contributions

## ❑ Experience:

- ❑ RTD projects for rehabilitation neurocognitive of patients.
- ❑ Open sources platform in Health informatics (OpenCDS, OpenClinica, tranSMART, i2b2, etc.)
- ❑ Development of proposals for competitive funding calls (regional, national and international).

## ❑ Capability to design, develop and validate projects:

- ❑ Clinical information modeling
- ❑ Clinical Decision Support
- ❑ Support to translational and clinical research
- ❑ Semantic Interoperability
- ❑ Integration of information health system
- ❑ Treatment of medical imaging
- ❑ Digital fabrication
- ❑ Health technology assessment

# Thank you for your attention

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