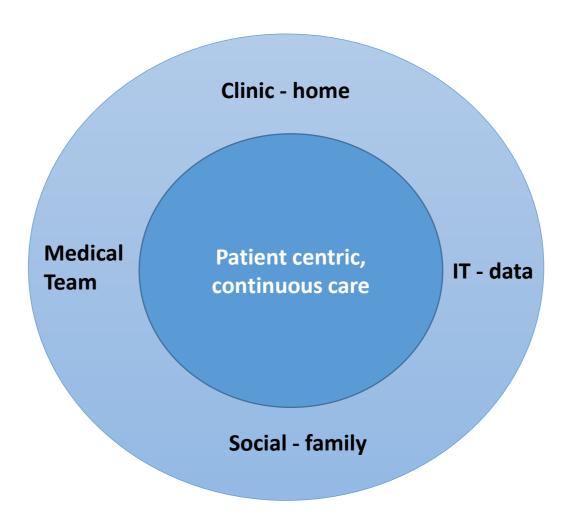
TeleRehab services for E-coaching Lucia Pannese

imaginary is one of the best practices chosen by the European Commission for the sector Silver Economy





Aim



Sustainable through adherence to the therapy: patient motivation!



VIDEO: https://www.youtube.com/watch?v=UeJqaF7BaiA&t=3s





Objectives and background

REHABILITY is the **suite of serious games** for physical and cognitive rehabilitation of neurological patients (studied for stroke, multiple sclerosis, Parkinson's disease, >7 yrs multi-disciplinary research).

REHABILITY was designed with specialists AND PATIENTS!

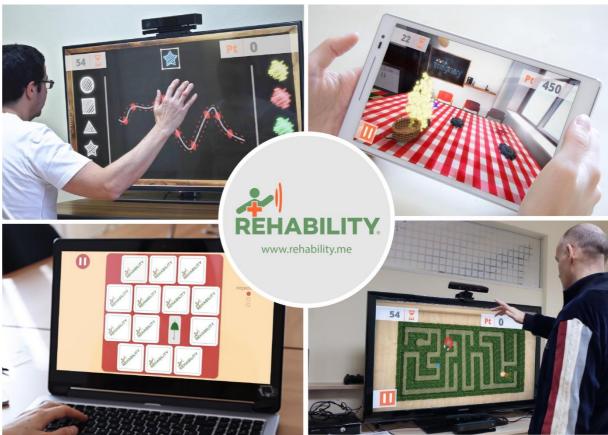
REHABILITY allows patients to follow the **rehabilitation therapy** from home with continuous remote medical support.



The Games

- Upper limb
- Balance
- Cognitive
- [Lower limb]









- Shift of therapy from hospital to home.
- Reducing cost of care.
- Patients are more motivated
 - Complain less of pain and fatigue
 - Adhere better to the therapy
- Supports medical staff keeping patients engaged in therapy.



Hard outcomes

Data shows significant tendencies for

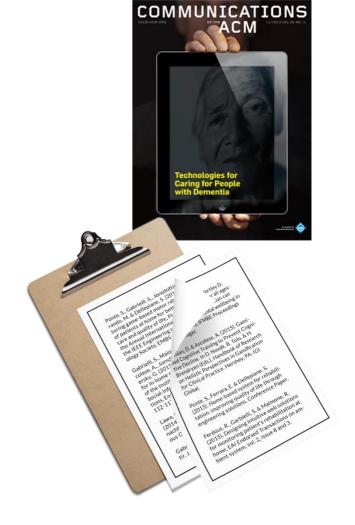
- increasing of motivation
- patient engagement
- rehabilitation progress in patients.

2 randomized clinical trials:

- European one closed
- Italy + SE Asia running

Several **scientific publications** issued:

www.rehability.me





Conclusions

CCP Trials	• MOTOR	• COGNITIVE
Patient	InvolvementAcceptanceWell tolerated	AcceptanceIntuitive
Therapist	• Usability	Look&feelUsability
Technology	Free movement, non invasiveIntuitive	• Reliability



Soft outcomes - specialists and patients comment



Patients have improved. It is important to have a tool like this.

Dr. Stefas Eleftherios, Scientific Director of the EVEXIA Rehabilitation Centre - Greece.



An association in Italy reports the satisfaction of patients who – feeling as "losers" in their lives - are able to "win" again"!





1st prize in AboutPharma Digital Awards
(Oct 2015) for the category
"reorganization of the NHS" and is in the
top 3 nominations in the category of
"Tech for Patients".





Best Presentation
Award at
Healthtech Invest
Europe, Helsinki,
March 2017





Home Monitoring



REHABILITY is integrated with the home monitoring app Santigo by HIS: it allows the adding of REHABILITY's cognitive ability monitoring to the available control functionalities of the environmental, home automation and clinician components.

In **ITALY** by Finmatica Group with the commercial name Smart*HOC





New developments with



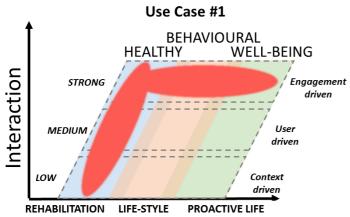
- Assessment of patient for initial configuration
- Improving reasoning system for automatic suggestions (re-adaptation; tutoring)
- Application in cardiology
- Integration with virtual tutor (3D avatar and app):
 bilateral exchange of data

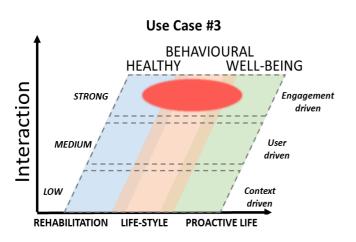


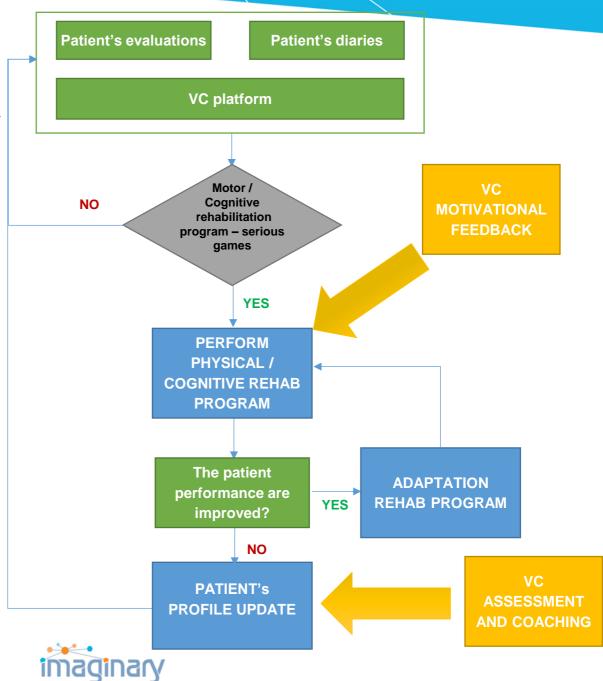
Use cases

Reference sites	Stroke disease	Parkinson's disease	Heart failure disease	Ischemic heart disease
	CCP (Italy)	OSA (Spain)	UMFCD (Romania)	AU (Denmark)
Physical therapy	Must have	Must have	Must have	Must have
Occupational therapy	Good to have	Good to have		
Cognitive training	Must have	Must have		
Emotional and social rehabilitation (e.g. depression and	Nice to have	Good to have	Must have	Must have
anxiety)				

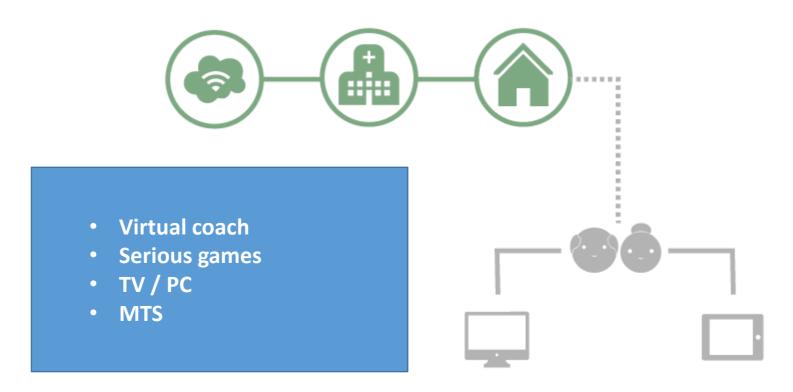








Connecting health with Telerehab for eCoaching!









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