

Remote home based rehabilitation

How does it work?



MEDICAL FLOW

Data from workouts provide medical status of the patient



MOTIVATIONAL FLOW

Family & friends are involved by reminding and encouraging



TECHNICAL FLOW

What's happening behind the scene (feedback loop)



1



Workout

Patient and specialist select workout

2



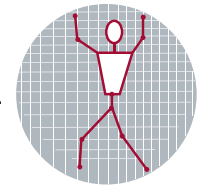
Patient plays serious gaming

1 Serious gaming?
It's not just having fun, but a guide to therapeutically correct movements



VIDEO SENSOR

Device detects patient's movements



MOVEMENTS

Being translated into biomechanics model:
- muscles
- bones
- joints



When the patient makes a wrong move the game flow interacts real-time

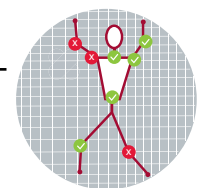
1 CGI's Internet of Things server
makes the connection of sensors and detectors possible

Personal health record

Internet of Things

Virtual reality server

4



MOVEMENT ANALYSES

Suboptimal functioning of muscles or joints are detected

Emotion detection sensors

Sensors in the house detect patient's movements and emotions



1 In the mood

Light color or music style will be adjusted according to patient's profile, to create the right atmosphere to stimulate and motivate



5

Medical specialist tracks patient's data



Data sent directly to their personal health record

