

Magic Trainer

21 March 2017

“Meet the supplier” meeting

Leader. Inspiro

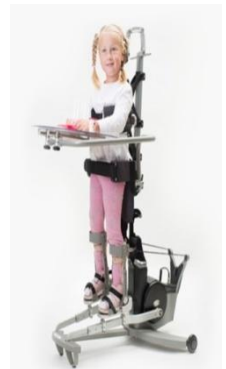
INSPIRO

- Small Norwegian company founded in 2004 by Ånund Olsen.
- Consultancy dedicated to innovation based on inspirations to improve the life of people.
- Our mission is: give advice and inspiration to entrepreneurs, specially in the sector of **technical aids for disabled people**, about product development, customer contact, marketing and advertising.
- Success story: invention of *Innowalk* for which Olsen was awarded as “The Creator” by TV2 in 2007.



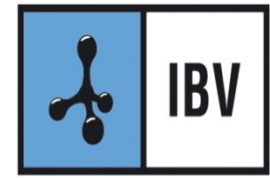
Consortium. Made For Movement

- Manufacturer and distributor of aftercare service of innovative products to disabled people since 1995.
- Our mission is: create and provide products that give the opportunity of dynamic standing, walking and movement, to individuals that have limited ability to stand or walk of their own.
- Products:
 - NF-Walker : 3,500 active users in 18 countries
 - Innowalk (standard + Pro): 350 active users in Norway, Germany, Denmark and Sweden
- Present in 21 countries in Europe, Asia and America



Collaborator.

Instituto de Biomecánica Valenciana



INSTITUTO DE
BIOMECÁNICA
DE VALENCIA

- Spanish Research Institute founded in 1976, for the study of the behaviour of human body and its interaction with products, environments and services.
- Our mission: Improve competitiveness among the business sector, promoting people's well-being through the combination of knowledge in areas such as biomechanics, ergonomics and emotional engineering.
- Collaborates with INSPIRO and MADE FOR MOVEMENT giving support in the analysis of the market of stroke patients and defining the specifications for that user profile.



IBV collaborated with
Made for Movement
in the European project W

Background and innovation

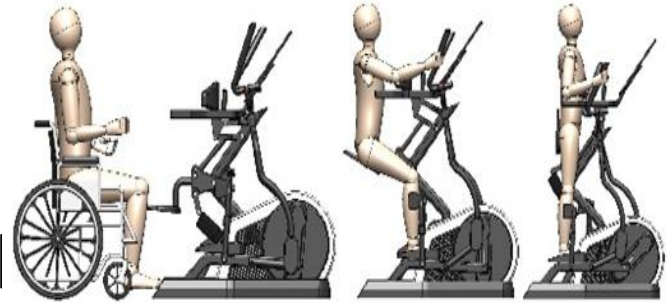
- With NF-Walker and Innowalk today we are bringing movement and health to children and adults with Cerebral Palsy.
- We are going to use this knowledge and experience to improve the lives of stroke patients after hospital discharge.
- **The MAGIC TRAINER will be a robotic system for home rehabilitation of stroke survivors based on daily exercise in upright posture, which can be used autonomously by the patients, and fun to use.**



Neurorehabilitation, strengthening b
and bringing well-being through daily
home-based exercise. (Photo: Innow

<http://blog.madeformovement.com/how-active-standing-improves-physical-and-mental-well-being>

Product id



- The MAGIC TRAINER will come with:
 1. An automated transfer mechanism that helps users people **get up from the seat or wheelchair without external assistance.**
 2. Training machine with foot support to help users **move their legs in upright positions according to their capabilities.**
- Users will be able to do this comfortably at their home, by their own, at their preferred time everyday

Benefits for the users

- For Body Structure and Function
 - Train “brain circuits” to make them remember how to walk.
 - Strengthen muscles, limbs to recover full health.
 - Coordinated movement of the full body that will activate inner organs, and improve well-being after exercise.
- Activity Participation
 - Possibility to engage into exercise everyday, in sessions of 30-60 minutes.
 - Autonomy to perform rehabilitation.
 - No pain, the machine will help to stand up, move and sit down.
 - Feeling of progression.
 - Satisfaction and enjoyment during exercise.
- Environmental Context:
 - Possibility to exercise at home.
 - Cost-effective

Project update

- Mechanical design of the solution optimised, on the basis of:
 - Maximise ease of use
 - Minimise production costs
- Creating a 3D model of the machine.
- Production of a video to show the machine and its capabilities.
- Market analysis started to define how to commercialise it:
 - Target of the market for the first years
 - Buyers in the target countries
 - Target price
- Contacts with game company to introduce video games.

Expected achievements at the end of Ph1

- Complete design of the solution with all components defined and supplier identified, ready to build the first prototypes.
- Media elements to attract new clients.
- Business plan for the production and commercialisation of the Trainer in the first 5 years.
- Study for a patent of the product.

Conclusion

The Magic Trainer is the product that people who suffered stroke need to **continue the benefits of rehabilitation in hospital when they come back to their homes.**

The **happiness of returning to home** will not be mixed with the burden of a hard and painful experience of recovering the ability to walk anymore.

They will **feel the experience of movement from the first day.** Exercise will be done at home, while enjoying and feeling the satisfaction of **improving body and mind without pain.** The patient will have the company of family and friends to enjoy their time together, and not to help them do the exercise.

Next year we will be able to start producing the first prototypes, to conduct the clinical trial in Italy and Ireland.