Microsoft Health Innovation Awards 2016 Winner

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Degenerative neuromuscular diseases, ischemic or traumatic injuries causes paralysis and communications problems

People with tetraplegia

Severe cases (LIS/CLIS)

20 millions

5 millions
Mental joystick

Braincontrol is a breakthrough technology that gives disabled people the power to control objects with their minds.
Brain-Computer Interface

Artificial Intelligence
ROADMAP

BC SENSORY: Internet of Things Robotics

BC PLUS: Cognitive Assessment System, Wheelchair / Robotics

BC AAC: Advanced Communicator, Home control

BC EASY: Sentence finder

http://www.braincontrol.com/media

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ROADMAP

BC SENSORY
- Internet of Things Robotics
- People with tetraplegia
- Elderly people
- IoT and robotic users

BC PLUS
- Cognitive Assessment Syst.
- Wheelchair / Robotics
- LIS Patients

BC AAC
- Advanced communicator
- Home control
- LIS Patients

BC EASY
- Sentence finder
- CLIS Patients
BRAINCONTROL

Bio-feedback UI
Framework based on
Artificial Intelligence
### Validation

**100+**

Completed trainings

500+ informal trainings

**64**

Healthy users

All trainings completed successfully

**16**

Patients with tetraplegia

All trainings completed successfully

**27**

LIS / CLIS Patients

- 10 LIS successfully
- 15 CLIS successfully
- 2 CLIS failed

**Multicentric clinical study**

Protocol defined
P. Fedele, M. Gioia, “Results of a 3 years study of a BCI-based communicator for advanced ALS patients”. In Proceedings of the International Society for Augmentative and Alternative Communication (ISAAC) 2016


P. Fedele and M. Tavanti, “BrainControl project, poster and demo. Mind Force conference, 7-8 October 2010, Siena, Centre for the Study of Complex Systems, University of Siena
Competitive advantage

**First CE medical device in the market based on BCI technology**

It fills a technological void for LIS patients

Core solution of a future biofeedback framework based on machine learning techniques for human-computer interaction

**PATENT PENDING**
N. 102015000052009

**Class I medical device**

**TM** Braincontrol®
Awards and Recognition

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