



## Bluegiga Case Study

### EPILEPSIAE



### Using *Bluetooth* wireless technology to fight against epilepsy

EPILEPSIAE stands for "Evolving Platform for Improving Living Expectation of Patients Suffering from IctAI Events". It is an EU financed project (FP7-G.A. No 211713) that involves four partners: MICROMED (Italy), the FCTUC University of Coimbra-Portugal, the Centre National de la Recherche Scientifique (CNRS) of Paris and the FDM University of Freiburg, Germany. Also the university clinics of Coimbra, Paris-Salpetriere and Freiburg will participate in the project.

The ambitious aims of the project are: to build a very large database on epilepsy, identify a class of algorithms capable of forecasting an incoming seizure and eventually to build a hardware device to alert patients before the seizure allowing him/her to take appropriate safety actions.

An important aspect of this project is the wireless capability of the alarming system. During the clinical characterization of the seizure it is important that the patient doesn't need to be attached to a device for hours while being monitored. *Bluetooth* wireless technology was chosen over AA batteries, because it is cost-efficient and easy to use.

Bluegiga's roaming solution with *Bluetooth* Access Servers was chosen to provide the *Bluetooth* connection. A number of Bluegiga's 2293 Access Servers will be installed inside the clinic environments to allow the patients to move freely within the *Bluetooth* coverage area.

For more information, please visit: [www.epilepsiae.eu](http://www.epilepsiae.eu)