

Project designation | SHEEPIT- Pasture control system based on IT technologies

Project code | POCI-01-0247-FEDER-017640

Main goal | Strengthening research, technological development and innovation

Intervention region | Center

Beneficiary | GLOBALTRONIC – Electrónica e Telecomunicações S.A.

Approval date | 23-08-2016

Start date | 01-10-2016

Completion date | 31-12-2018

Total eligible cost | 606.950,73 Euros

EU financial support | FEDER: 391.306,51 Euros

DESCRIPTION

On the Sheep IT project, the purpose is to develop a system, based on the concepts of the Internet of things, capable of conditioning the animal behaviour and their access to the grapes as well as limiting the farming areas.

In order to achieve this, the company is developing a portable electronic device, that will be positioned in the animal neck in order to condition their behaviour. The devices will be controlled by a remote information system, capable of remotely configure and control the devices. of this outlined the following investments:

Concretamente, o projeto Sheep IT tem os seguintes objetivos:

1. Development of the postural detection mechanism (high to the ground, neck inclination), capable of monitoring the high of the animal neck and a virtual fence mechanism, through GPS coordinates or RF signals, to maintain the animals on a farming area
2. Development of an electronic mechanism capable of producing audible and electrostatic stimulus in order to condition the animal behaviour, every time they don't assume the required position or disrespect the virtual fence.
3. Development of an electronic module based on a microcontroller with sensors and actuators refer before with portable power.
4. Development of a firmware for controlling, able to implement the control and monitoring behaviours of the animals and an information system capable of gathering the information and centralize the operation and system configuration.
5. Test pilots on farms and vineyards, under control environment, studding animal wellbeing and welfare, mould creation, brand creation, patent and result dissemination.

