

KEY FACTS

Project title:
HEALING DROP

Project Type:
INNPACTO

Start Date:
1st November 2011

Duration:
3 years

Budget:
1,3 M€

Website:
www.healingdrop-project.com

HEALING DROP has been co-funded by the European Commission under the INNPACTO Joint programme

PROJECT PARTNERS

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HEALING DROP



Safety and Healthy lifestyles

Proyecto financiado por:



OVERVIEW

HEALING DROP project starts from the need of design an interactive health training system to improve health, efficiency and work safety. The system trains the subject into healthier lifestyles and it is addressed to all population segments.

In order to address the complexity of healthy lifestyles, a multidimensional approximation based on three levels has been performed: a) use of modern non invasive physiological monitorization techniques of healthy lifestyles markers; b) wireless communication between interactive HMI (Human Machine Interface) and sensors; c) Lifestyle training guidelines provided in order to improve health, efficiency and work safety.

The system validation will include tests with professional fleets which are the population segment with more health disorders related to lifestyle. However the system will be also addressed to all segments of population.

OBJECTIVES

Healing Drop addresses the issue of healthy lifestyle and provides a new ADAS function (Advance Driving Assistance Systems) with the development of a drowsiness detector system to improve safety while performing complex tasks like driving.

The HEALING DROP project will:

- #1** Design a health-training interactive device that helps to achieve a healthy life style by training the user in fields such as health, diet life style management.
- #2** Develop lifestyle markers and evaluation of these markers using a lifestyle training program.
- #3** Develop a friendly user interface.
- #4** Develop of multiparametric analysis of biomedical, physiological and behavioral parameters for the detection of drowsiness while driving or performing complex tasks.
- #5** Provide system installations and validation in both simulator and professional driver's fleet.

EXPECTED RESULTS

The major results expected from HEALING DROP are as follows:

Market release of a new product family for driver status detection, in professional driver fleets, through the analysis of driving behaviour and biological data.

New service to improve the management of driver fleets, using a GPS unit, to improve safety of drivers and promoting healthy habits.

A new monitoring device, the Kronosensor, that registers skin temperature, activity and light exposure in order to evaluate the circadian system status. Information obtained is complex and only can be interpreted thanks to the online platform Kronowizard.

An application for android mobiles, Kronohelper, focussed in improving healthy circadian habits.