"Development of a running shoe with embedded electronics providing real time biomechanical feedback to reduce injury risk and enhance motivation, and a web portal allowing real training management."

Fact Sheet

Project Information

RUNSAFER

Grant agreement ID: 285800

Project website

Project closed

Start date
1 September 2012

End date
31 October 2014

Funded under
Specific Programme "Capacities": Research for the benefit of SMEs

Total cost
€ 1 425 084,60

EU contribution
€ 1 060 600,00

Coordinated by
INSTITUTO DE BIOMECANICA DE VALENCIA
Spain

This project is featured in...

Objective

"The aim of the project is to to develop a new system consisting on a new running shoe, a mobile phone application and a web portal, in order to prevent injuries, providing control training to runners.
The running system will consist in a microelectronic measurement system embedded on both shoes, able to gather and transmit the main biomechanical parameters during running. The information will be wireless transmitted to a Micro SD card in the mobile phone of the runner while running, where a freeware mobile phone application will inform in real time the runner about the planned activity and performance achieved, suggesting modifications on the activity to change the running pattern in order to avoid running injuries. The mobile phone applications will have the possibility to integrate additional worthy information as heart rate or GPS positioning provided by other commercial devices. After the running activity, the runner will be able to download all the generated running information in a web portal, where services to manage such training info will be available. This web portal will allow the generation of training plans, recommendations and the follow up of the training improvements. Moreover, this web will include web 2.0. functionalities, allowing the user to be in contact with other runners worldwide and built and share contents as running routes, footwear info, etc.
The general functionalities of the instrumented running shoe to be developed will be biomechanically optimum, high autonomy, low weight, long life and resistance against the normal use of the shoe. The final price of the shoe in the market will be according to the rest of current running shoes of its category."

Fields of science (EuroSciVoc)

engineering and technology > electrical engineering, electronic engineering, information engineering > information engineering > telecommunications > **mobile phones**

Programme(s)

FP7-SME - Specific Programme "Capacities": Research for the benefit of SMEs

Topic(s)

SME-2011-1 - Research for SMEs

Call for proposal

FP7-SME-2011
See other projects for this call

Funding Scheme

BSG-SME - Research for SMEs

Coordinator

INSTITUTO DE BIOMECANICA DE VALENCIA

EU contribution

€ 18 200,00

Total cost

No data

Address

CAMINO DE VERA EDIFICIO 9C UNIVERSIDAD POLITECNICA DE VALENCIA
46022 Valencia
Spain

Region

Este > Comunitat Valenciana > Valencia/València

Activity type

Research Organisations

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Participants (6)

BKOOL SL

Spain

EU contribution

No data

Address

PASEO DEL MIRADOR 19
46500 SAGUNTO

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Total cost

No data

DUKOSI LIMITED

United Kingdom

EU contribution

€ 330 012,00

Address

EDINBURGH TECHNOPOLE BUSH HOUSE
EH26 0BB EDINBURGH

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Total cost

No data

NUROMEDIA GMBH

Germany

EU contribution

€ 306 266,00

Address

SCHAAFENSTRASSE 25
50676 Koln

Region

Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Total cost

No data

NEW MILLENIUM SPORTS SL

Spain

EU contribution

€ 383 544,00

Address

CALLE MIGUEL SERVER 10 PARQUE INDUSTRIAL TORRELLANO
03203 ELCHE ALICANTE

Region

Este > Comunitat Valenciana > Alicante/Alacant

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Total cost

No data

OSAUHING EESTI INNOVATSIOONI INSTITUUT

Estonia

EU contribution

€ 9 978,00

Address

SEPAPAJA 6
11415 TALLINN

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Total cost

No data

FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV

Germany

EU contribution

€ 12 600,00

Address

HANSASTRASSE 27C
80686 Munchen

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Total cost

No data

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Permalink: https://cordis.europa.eu/project/id/285800