A co-operative mHEALTH environment targeting adherence and management of patients suffering from Heart Failure

Fact Sheet

Project Information

**HEARTEN**

Grant agreement ID: 643694

**Funded under**

SOCIETAL CHALLENGES - Health, demographic change and well-being

**Total cost**

€ 4 589 507,49

**EU contribution**

€ 4 589 507,00

**Coordinated by**

UNIVERSITE LYON 1 CLAUDE BERNARD

France

**EC signature date**

5 December 2014

**Start date**

1 January 2015

**End date**

31 March 2018

Objective

HEARTEN will design, develop and validate an ICT co-operative environment that will enable the HF patients to achieve sustainable behavior change regarding their adherence and compliance, and the ecosystem actors to be engaged and improve the patients’ HF management. HEARTEN targets all actors related to the
management of patients suffering from HF, including healthcare professionals, caregivers (formal/informal), healthcare providers nutritionists, fitness experts and health insurance experts, towards developing a multi-stakeholder patient centered mHealth ecosystem. The target population of HEARTEN are patients with chronic and acute HF, either post-ischemic or with dilated cardiomyopathy, requiring occasionally re-admittance into hospitals. The idea is to develop biosensors that detect and quantify novel breath and saliva HF biomarkers, being identified through analytical techniques. These biomarkers reflect the health status of the patient and identify whether the patient adheres to the administered drugs. The breath biosensor will be integrated into the smartphone while the saliva biosensor will be integrated into the patient’s cup. Additional sensors for monitoring the ECG, the blood pressure and the physical activity constitute the sensor kit of the patient. The input data are complemented with nutrition information from the patient’s smartphone, weight monitoring through wireless weight scales as well as the patient’s profile and information directly added by the caregivers and the healthcare professionals. The multiparametric data are transmitted to the HEARTEN cloud architecture, where a knowledge management system analyses them and delivers critical information at hand. HF patients are empowered in self-management, by using their smartphones and tracking their medical vital signs, while the healthcare professionals and the caregivers can issue warnings, coordinate therapies, improve adherence and intervene before frailty incidences occur.

**Fields of science**

- **engineering and technology**: electrical engineering, electronic engineering, information engineering
- **electronic engineering**: sensors, biosensors
- **medical and health sciences**: basic medicine, pharmacology and pharmacy, pharmaceutical drugs
- **medical and health sciences**: clinical medicine, endocrinology, diabetes
- **medical and health sciences**: health sciences, nutrition
- **medical and health sciences**: clinical medicine, cardiology

**Programme(s)**

- **H2020-EU.3.1. - SOCIETAL CHALLENGES - Health, demographic change and well-being**
- **H2020-EU.3.1.4. - Active ageing and self-management of health**

**Topic(s)**
Call for proposal

H2020-PHC-2014-2015

See other projects for this call

Sub call

H2020-PHC-2014-single-stage

Funding Scheme

RIA - Research and Innovation action

Coordinator

UNIVERSITE LYON 1 CLAUDE BERNARD

Net EU contribution

€ 565 000,00

Address

Boulevard du 11 novembre 1918 num43
69622 Villeurbanne cedex

France

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Rhône

Activity type

Higher or Secondary Education Establishments

Links

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

Other funding

€ 0,00

Participants (13)
LYON INGENIERIE PROJETS

France

Net EU contribution
€ 115 500,00

Address
Bd du 11 novembre 1918 43 l atrium
69616 Villeurbanne

Region
Auvergne-Rhône-Alpes > Rhône-Alpes > Rhône

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

Other funding
€ 0,00

NTT DATA SPAIN, SL

Spain

Net EU contribution
€ 183 553,00

Address
Camino fuente de la mora 1
28050 Madrid

Region
Comunidad de Madrid > Comunidad de Madrid > Madrid

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
APPART AE NEW TECHNOLOGIES COMPUTER AND TELECOMMUNICATIONS

Greece

Net EU contribution

€ 420 250,00

Address

14 chalandriou street and souliou 50
15343 Agia paraskevi

SME

Yes

Region

Αττική > Αττική > Βόρειος Τομέας Αθηνών

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

Other funding

€ 0,00

IDRYMA TECHNOLOGIAS KAI EREVNAS

Greece

Net EU contribution

€ 518 750,00

Address

N plastira str 100
70013 Irakleio

Region

Νησιά Αιγαίου > Κρήτη > Ηράκλειο

Activity type
AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS

Spain

Net EU contribution

€ 406,063,00

Address

Calle serrano 117
28006 Madrid

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Research Organisations

Other funding

€ 0,12

UNIVERSITATSMEZIN ROSTOCK

Germany

Net EU contribution

€ 293,750,00

Address

Schillingallee 35
18055 Rostock

Region

6 of 11
Mecklenburg-Vorpommern > Mecklenburg-Vorpommern > Rostock, Kreisfreie Stadt

Higher or Secondary Education Establishments

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

Other funding
€ 0,00

UNIVERSITA DI PISA
Italy
Net EU contribution
€ 548 516,00

Lungarno pacinotti 43/44
56126 Pisa

Centro (IT) > Toscana > Pisa

Higher or Secondary Education Establishments

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

Other funding
€ 0,25

SERVICIO ANDALUZ DE SALUD
Spain
Net EU contribution
€ 345 625,00

Address
Avenida de la constitucion 18
41071 Sevilla
Region
Sur > Andalucía > Sevilla
Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 0,00

YOUR DATA SRL
Italy
Net EU contribution
€ 297 500,00
Address
Via barbusi n.9 pt
09121 Cagliari
SME
Yes
Region
Isole > Sardegna > Cagliari
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
Other funding
€ 0,00
CAREDOME PATIENT SUPPORT AND HEALTHCARE SOLUTIONS PORTUGAL LDA
Portugal
Net EU contribution
€ 208,319.48
Address
Avenida 5 de outubro 72 4b/c
1050 059 Lisboa
SME Yes
Region
Continente > Área Metropolitana de Lisboa > Área Metropolitana de Lisboa
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
Other funding
€ 0.00

THIRD-PARTY

BIOAXIS HEALTHCARE HELLAS AE
Greece
Net EU contribution
€ 13,694.86
Address
Pentelis 110
15126 Athina
SME Yes
Region
Αττική > Αττική > Βόρειος Τομέας Αθηνών
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
**THIRD-PARTY**

**BIOAXIS HEALTHCARE SOUTHEAST EUROPEANONYMI ETAIRIA YPIRESION YGEIAS KAT OIKON**

**Greece**

Net EU contribution

€ 217,985.66

**Address**

Leoforos irakleiou 434 kaithermopyl 6
141 22 Irakleio

**SME**
Yes

**Region**

Αττική > Αττική > Βόρειος Τομέας Αθηνών

**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

**Other funding**

€ 0,00

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**SESA NV SRL**

**Italy**

Net EU contribution

€ 455,000.00

**Address**

Via cristoforo colombo 112
00147 Roma
Centro (IT) > Lazio > Roma

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

Other funding

€ 0,00

Last update: 16 August 2022

Permalink: https://cordis.europa.eu/project/id/643694

European Union, 2024