Hospital Smart development based on AI

Fact Sheet

Project Information

HosmartAI

Grant agreement ID: 101016834

DOI

10.3030/101016834

Funded under

INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Total cost

€ 11 898 695

EU contribution

€ 9 997 244

Coordinated by

NETCOMPANY - INTRASOFT

Belgium

Project description

Innovative platform for robotics and AI technology integration

The main objective of the EU-funded HosmartAI project is to promote an effective and efficient healthcare system transformation through the use of technological developments in artificial intelligence (AI) and robotics. To achieve this transformation, HosmartAI will create a common open Integration Platform with the necessary tools to facilitate and measure the benefits of integrating digital technologies in hospitals and care facilities. The platform will be validated through eight large-scale pilots, which also target advancements in cancer, gastrointestinal disorders, cardiovascular diseases, thoracic disorders, neurological diseases, ageing and elderly care, and pregnancy.
"HosmartAI will create a common open Integration Platform with the necessary tools to facilitate and measure the benefits of integrating digital technologies (robotics and AI) in the healthcare system. A central hub will offer multi-faceted lasting functionalities (Marketplace, Co-creation space, Benchmarking) to healthcare stakeholders, combined with a collection of methods, tools and solutions to integrate and deploy AI-enabled solutions. The Benchmarking tool will promote the adoption in new settings, while enabling a meeting place for technology providers and end-users. Eight Large-Scale Pilots will implement and evaluate improvements in medical diagnosis, surgical interventions, prevention and treatment of diseases, and support for rehabilitation and long-term care in several Hospital and care settings. The project will target different medical aspects or manifestations such as Cancer (Pilot #1, #2 and #8); Gastrointestinal (GI) disorders (Pilot #1); Cardiovascular diseases (Pilot #1, #4, #5 and #7); Thoracic Disorders (Pilot #5); Neurological diseases (Pilot #3); Elderly Care and Neuropsychological Rehabilitation (Pilot #6); Fetal Growth Restriction (FGR) and Prematurity (Pilot #1). To ensure a user-centred approach, harmonization in the process (e.g. regarding ethical aspects, standardization, and robustness both from a technical and social and healthcare perspective), the living lab methodology will be employed. HosmartAI will identify the appropriate instruments (KPI) that measure efficiency without undermining access or quality of care. Liaison and co-operation activities with relevant stakeholders and open calls will enable ecosystem building and industrial clustering. HosmartAI brings together a consortium of leading organizations (3 large enterprises, 8 SMEs, 5 hospitals, 4 universities, 2 research centres and 2 associations) along with several more committed organizations (Letters of Support provided)."

**Fields of science**

- medical and health sciences > clinical medicine > **physiotherapy**
- medical and health sciences > clinical medicine > obstetrics > **fetal medicine**
- medical and health sciences > clinical medicine > surgery > **surgical procedures**
- medical and health sciences > clinical medicine > cardiology > **cardiovascular diseases**
- engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > **robotics**

**Programme(s)**

H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)  
[MAIN PROGRAMME]
Topic(s)

DT-ICT-12-2020 - AI for the smart hospital of the future

Call for proposal

H2020-DT-2018-2020

See other projects for this call

Sub call

H2020-DT-2020-1

Funding Scheme

IA - Innovation action

Coordinator

NETCOMPANY - INTRASOFT
Net EU contribution
€ 248 237,00

Address
Place Du Champ De Mars 5/10
1050 Bruxelles
Belgium

Region
Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

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
€ 248 237,00
Participants (26)

THIRD-PARTY
NETCOMPANY-INTRASOFT SA
Luxembourg
Net EU contribution
€ 477 400,00
Address
Rue Nicolas Bove 2b
1253 Luxembourg
Region
Luxembourg > Luxembourg > Luxembourg
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisationWebsite Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 477 400,00

PHILIPS MEDICAL SYSTEMS NEDERLAND BV
Netherlands
Net EU contribution
€ 753 025,00
Address
Veenpluis 6
5684 PC Best
Region
Noord-Brabant > Zuidoost-Noord-Brabant
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisationWebsite Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 753 025,00

VIMAR SPA
IT Italy
Net EU contribution
€ 512 838,00
Address
Viale Vicenza 14
36063 Marostica V i
Region
Nord-Est > Veneto > Vicenza
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
€ 512 838,00

GREEN COMMUNICATIONS SAS
FR France
Net EU contribution
€ 299 250,00
Address
6 Rue Emile Dubois
75014 Paris
SME
Yes
Region
Ile-de-France > Ile-de-France > Paris
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
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
€ 299 250,00

TELEMATIC MEDICAL APPLICATIONS EMPORIA KAI ANAPTIXI PROIONTON TILIATRIKIS MONOPROSOPIKI ETAIRIA PERIORISMEinis EYTHINIS

Greece
Net EU contribution
€ 287 175,00

Address
Street Skra N.1-3
17673 Kallithea

SME
Yes

Region
Νότιος Τομέας Αθηνών > Αττική > Αττική

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
€ 287 175,00

ECLEXYS SAGL

Switzerland
Net EU contribution
€ 518 812,00

Address
Via Dell Inglese 6
6826 Riva San Vitale
SME  Yes
Region
Schweiz/Suisse/Svizzera > Ticino > Ticino
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
€ 518 812,00

F6S NETWORK IRELAND LIMITED
Ireland
Net EU contribution
€ 139 956,00
Address
39 Fitzwilliam Place
D02 ND61 Dublin
SME  Yes
Region
Ireland > Eastern and Midland > Dublin
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
€ 139 956,00

THIRD-PARTY  F6S NETWORK LIMITED
United Kingdom
United Kingdom

Net EU contribution

€ 50 181,00

Address
124 City Road, City Road
EC1V 2NX London

SME
Yes

Region
London > Inner London — East > Haringey and Islington

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

€ 50 181,00

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PHARMECONS EASY ACCESS LTD

United Kingdom

Net EU contribution

€ 210 175,00

Address
63-65 Heworth Road, York
YO31 0AA York

SME
Yes

Region
Yorkshire and the Humber > North Yorkshire > York

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
SMARTSOL SIA
Latvia
Net EU contribution
€ 194 862,00
Address
Dzerbenes Iela 14
1006 Riga
SME
Yes
Region
Latvija > Latvija > Riga
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
€ 194 862,00

NINETY ONE GMBH
Germany
Net EU contribution
€ 252 175,00
Address
Worringer Strasse 64
40211 Dusseldorf
SME
Yes
Region
Nordrhein-Westfalen > Düsseldorf > Düsseldorf, Kreisfreie Stadt
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
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
€ 252 175,00

HEALTH INNOVATION HUB & HOLDING GMBH

Germany
Net EU contribution
€ 257 950,00

Address
Sandhofer Strasse 116
68305 Mannheim

Region
Baden-Württemberg > Karlsruhe > Mannheim, Stadtkreis

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
€ 257 950,00

Univerzitetni klinicni center Maribor

Slovenia
Net EU contribution
€ 306 500,00

Address
Ljubljanska Ulica 5
2000 Maribor

Region
Slovenija > Vzhodna Slovenija > Podravska
SAN CAMILLO IRCCS SRL

Italy

Net EU contribution

€ 234 675,00

Address
Via Alberoni 70
30126 Venezia

Region
Nord-Est > Veneto > Venezia

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

SERVICIO MADRILENO DE SALUD

Spain

Net EU contribution

€ 50 625,00

Address
Plaza Carlos Trias Bertran 7
28020 Madrid

Region
Third-Party

**FUNDACION PARA LA INVESTIGACION BIOMEDICA DEL HOSPITAL UNIVERSIATRIO LA PAZ**

*Spain*

Net EU contribution

€ 147 750,00

Address

**Paseo De La Castellana 261**

**28046 Madrid**

Region

**Comunidad de Madrid > Comunidad de Madrid > Madrid**

Activity type

**Other**

Links

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

Other funding

€ 147 750,00

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**CENTRE HOSPITALIER UNIVERSITAIRE DE LIEGE**

*Belgium*

Net EU contribution

€ 361 500,00

Address

**Avenue De L Hospital 1**
Avenue De L'Hopital 1
4000 Liege
Region
Région wallonne > Prov. Liège > Arr. Liège
Activity type
Research Organisations
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 361 500,00

PANEPISTIMIAKO GENIKO NOSOKOMEIO THESSALONIKIS AXEPA
Greece
Net EU contribution
€ 225 000,00
Address
Stilponos Kyriakidi 1
54636 Thessaloniki
Region
Θεσσαλονίκη > Κεντρική Μακεδονία > Βόρεια Ελλάδα
Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
Links
Contact the organisation Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 225 000,00

VRIJE UNIVERSITEIT BRUSSEL
Belgium
Net EU contribution
€ 589 500,00
ARISTOTELIO PANEPISTIMIO THESSALONIKIS

Greece

Net EU contribution
€ 517 750,00

Address
Kedea Building, Tritis Septemvriou, Aristotle Univ Campus
54636 Thessaloniki

Region
Θεσσαλονίκη > Κεντρική Μακεδονία > Βόρεια Ελλάδα

Activity type
Higher or Secondary Education Establishments

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

Other funding
€ 517 750,00
Switzerland

Net EU contribution

€ 545 913,00

Address

Raemistrasse 101
8092 Zuerich

Region

Schweiz/Suisse/Svizzera > Zürich > Zürich

Activity type

Higher or Secondary Education Establishments

Links

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

Other funding

€ 545 913,00

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UNIVERZA V MARIBORU

Slovenia

Net EU contribution

€ 442 750,00

Address

Slomskov Trg 15
2000 Maribor

Region

Slovenija > Vzhodna Slovenija > Podravska

Activity type

Higher or Secondary Education Establishments

Links

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

Other funding

€ 442 750,00
FUNDACION INSTITUTO TECNOLOGICO DE CASTILLA Y LEON

Spain

Net EU contribution

€ 1 362 125,00

Address

Calle Lopez Bravo 70 Poligono Industrial
09001 Villalonquejar Burgos

Region

Castilla y León > Burgos

Activity type

Research Organisations

Links

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

Other funding

€ 1 362 125,00

FUNDACION INTRAS

Spain

Net EU contribution

€ 548 100,00

Address

Calle Martin Santos Romero, Num. 1
47016 Valladolid

Region

Castilla y León > Valladolid

Activity type

Research Organisations

Links

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

Other funding

€ 548 100,00
ASSOCIATION EUROPEAN FEDERATION FORMEDICAL INFORMATICS

Switzerland

Net EU contribution

€ 255 000,00

Address

Chemin De Maillefer 37
1052 Le Mont-sur-lausanne

Region

Schweiz/Suisse/Svizzera > Région lémanique > Vaud

Activity type

Other

Links

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

Other funding

€ 255 000,00

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FEDERATION EUROPEENNE DES HOPITAUX ET DES SOINS DE SANTE

Belgium

Net EU contribution

€ 208 020,00

Address

Avenue Marnix 30/17
1000 Bruxelles

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Other

Links

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

Other funding

€ 208 020,00