



Deep-Learning and HPC to Boost Biomedical Applications for Health

Fact Sheet

Project Information

DeepHealth

Grant agreement ID: 825111

[Project website](#)

DOI

[10.3030/825111](https://doi.org/10.3030/825111)

Project closed

EC signature date

5 December 2018

Start date

1 January 2019

End date

30 June 2022

Funded under

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

Total cost

€ 14 642 324,02

EU contribution

€ 12 774 824,80

Coordinated by

NTT DATA SPAIN, SL



Spain

Project description

Supercomputing and Big Data for biomedical applications

The so-called fourth paradigm of science is based on the unified environments of high-performance computing (HPC) and Big Data analytics. It is expected to considerably advance health scientific research and innovation. The EU-funded DeepHealth project will deliver HPC power at the service of biomedical applications and apply deep learning (DL) techniques on vast and compound biomedical data sets, aiming to underpin new and more effective methods of diagnosis, monitoring

and treatment of diseases. The project will develop a resilient and scalable structure for the HPC + Big Data environment that will rely on two new libraries: the European Distributed Deep Learning Library (EDDLL) and the European Computer Vision Library (ECVL). The structure, after it is validated, will allow training of models and provide training data from different medical fields.

Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > [data science](#) > **[big data](#)**

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > **[computer vision](#)**

[medical and health sciences](#) > [basic medicine](#) > [neurology](#) > **[dementia](#)**

[medical and health sciences](#) > [basic medicine](#) > **[pathology](#)**

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > [machine learning](#) > **[deep learning](#)**



Keywords

[Deep Learning](#)

[Heterogeneous Architectures](#)

Programme(s)

[H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies \(ICT\)](#)

MAIN PROGRAMME

Topic(s)

[ICT-11-2018-2019 - HPC and Big Data enabled Large-scale Test-beds and Applications](#)

Call for proposal

[H2020-ICT-2018-20](#) 

[See other projects for this call](#)

Sub call

H2020-ICT-2018-2

Funding Scheme

[IA - Innovation action](#)

Coordinator



NTT DATA SPAIN, SL

Net EU contribution

€ 314 980,14

Total cost

€ 1 059 567,48

Address

CAMINO FUENTE DE LA MORA 1

28050 Madrid

 **Spain** 

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](#) 

Participants (24)

 **THIRD-PARTY** 

NTT DATA SPAIN SOLUCIONES TECNOLOGICAS SL

 **Spain**

Net EU contribution

€ 426 717,10

Address

PLAZA BELTRAN MARTINEZ 1, PLANTA 9 CENTRO EMPRESARIAL EL TROVADOR
50002 Zaragoza 

Region

Noreste > Aragón > Zaragoza

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

€ 609 595,85



UNIVERSITAT POLITECNICA DE VALENCIA

 Spain

Net EU contribution

€ 907 129,65

Address

CAMINO DE VERA SN EDIFICIO 3A
46022 Valencia 

Region

Este > Comunitat Valenciana > Valencia/València

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 907 129,65



PHILIPS MEDICAL SYSTEMS NEDERLAND BV

 Netherlands

Net EU contribution

€ 941 576,43

Address

VEENPLUIS 6

5684 PC Best



Region

Zuid-Nederland > Noord-Brabant > Zuidoost-Noord-Brabant

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

€ 1 345 109,18



EUROSOFT DEVELOPMENT SA

Romania

Net EU contribution

€ 78 570,63

Address

SOSEAUA BUCURESTI-PLOIESTI 73-81 COMPLEX VICTORIA PARK CORP CLADIRE C4

PARTER ZONA A CAMERA P33

013685 BUCURESTI



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

€ 112 243,75



WINGS ICT SOLUTIONS TECHNOLOGIES PLIROFORIKIS KAI EPIKOINONION ANONYMI ETAIREIA

 Greece

Net EU contribution

€ 444 937,50

Address

189 SYGGROU AVENUE

171 21 NEA SMYRNI 

SME 

Yes

Region

Αττική > Αττική > Νότιος 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](#) 

Total cost

€ 635 625,00



THALES SIX GTS FRANCE SAS

 France

Net EU contribution

€ 651 311,94

Address

AVENUE DES LOUVRESSES 4

92230 Gennevilliers 

Region

Ile-de-France > Ile-de-France > Hauts-de-Seine

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
€ 930 445,63



COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

 France

Net EU contribution

€ 1 570 020,48

Address

**RUE LEBLANC 25
75015 PARIS 15** 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 1 570 020,48



BARCELONA SUPERCOMPUTING CENTER CENTRO NACIONAL DE SUPERCOMPUTACION

 Spain

Net EU contribution

€ 798 062,50

Address

**CALLE JORDI GIRONA 31
08034 Barcelona** 

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
€ 798 062,50



PRO DESIGN Electronic GmbH

Germany
Net EU contribution
€ 584 850,10

Address
Albert-Mayer-Strasse 14-16
83052 Bruckmuehl

SME
Yes

Region
Bayern > Oberbayern > Rosenheim, Landkreis

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
€ 835 500,14



UNIVERSITA DEGLI STUDI DI TORINO

Italy
Net EU contribution
€ 643 250,00

Address
VIA GIUSEPPE VERDI 8
10124 Torino

Region

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 713 250,00

 THIRD-PARTY

CONSIGLIO NAZIONALE DELLE RICERCHE

 Italy

Net EU contribution

€ 70 000,00

Address

PIAZZALE ALDO MORO 7

00185 Roma 

Region

Centro (IT) > Lazio > Roma

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 70 000,00



UNIVERSITA DEGLI STUDI DI MODENA E REGGIO EMILIA

 Italy

Net EU contribution

€ 561 031,46

Address

VIA UNIVERSITA 4
41121 Modena 

Region
Nord-Est > Emilia-Romagna > Modena

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
€ 561 031,46



CENTRO DI RICERCA, SVILUPPO E STUDI SUPERIORI IN SARDEGNA SOCIETÀ A RESPONSABILITÀ LIMITATA

 Italy
Net EU contribution
€ 832 500,00

Address
**LOCALITA PISCINA MANNA EDIFICIO 1
09050 Pula Cagliari** 

Region
Isole > Sardegna > Cagliari

Activity type
Research Organisations

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
€ 832 500,00



KAROLINSKA INSTITUTET
 Sweden

Net EU contribution

€ 136 250,00

Address

Nobels Vag 5

17177 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 136 250,00



FUNDACION PARA EL FOMENTO DE LA INVESTIGACION SANITARIA Y BIOMEDICA DE LA COMUNITAT VALENCIANA

 Spain

Net EU contribution

€ 317 375,00

Address

CALLE MICER MASCO 31

46010 Valencia 

Region

Este > Comunitat Valenciana > Valencia/València

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 317 375,00



AZIENDA OSPEDALIERA CITTA DELLA SALUTE E DELLA SCIENZA DI TORINO

 Italy

Net EU contribution

€ 381 250,00

Address

CORSO BRAMANTE 88 90

10126 Torino 

Region

Nord-Ovest > Piemonte > Torino

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](#) 

Total cost

€ 381 250,00



OTTO-VON-GUERICKE-UNIVERSITAET MAGDEBURG

 Germany

Net EU contribution

€ 636 875,00

Address

UNIVERSITAETSPLATZ 2

39106 Magdeburg 

Region

Sachsen-Anhalt > Sachsen-Anhalt > Magdeburg, Kreisfreie Stadt

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost
€ 636 875,00



STELAR SECURITY TECHNOLOGY LAW RESEARCH UG (HAFTUNGSBESCHRANKT) GMBH

 Germany

Net EU contribution

€ 398 250,00

Address

**VERSMANNSTR. 4 c/o finhaven
20457 Hamburg** 

Region

Hamburg > Hamburg > Hamburg

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 398 250,00



SPITALUL CLINIC PROF DR THEODOR BURGHELE

 Romania

Net EU contribution

€ 293 750,00

Address

**20 PANDURI
050659 Bucuresti** 

Region

Macroregiunea Trei > Bucureşti-Ilfov > Bucureşti

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 293 750,00



ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE

 Switzerland

Net EU contribution

€ 522 543,75

Address

BATIMENT CE 3316 STATION 1

1015 Lausanne 

Region

Schweiz/Suisse/Svizzera > Région lémanique > Vaud

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 522 543,75



CENTRE HOSPITALIER UNIVERSITAIRE VAUDOIS

 Switzerland

Net EU contribution

€ 199 038,75

Address

RUE DU BUGNON 21

1011 Lausanne 

Region

Schweiz/Suisse/Svizzera > Région lémanique > Vaud

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](#)

Total cost

€ 199 038,75



TREE TECHNOLOGY SA

Spain

Net EU contribution

€ 322 000,00

Address

CALLE SAN FRANCISCO, 2 PLANTA 4
33003 Oviedo

SME

Yes

Region

Noroeste > Principado de Asturias > Asturias

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

€ 460 000,00



REGION STOCKHOLM

Sweden

Net EU contribution

€ 150 000,00

Address

HANTVERKARGATAN 45

104 22 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms län

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](#) 

Total cost

€ 150 000,00



SOFTWARE IMAGINATION & VISION SRL

 Romania

Net EU contribution

€ 592 554,37

Address

**SOSEAUA BUCURESTI-PLOIESTI 73-81 COMPLEX VICTORIA CORP CLADIRE C4 ETAJ 2
013685 Bucuresti** 

SME 

Yes

Region

Macroregiunea Trei > București-Ilfov > București

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

€ 846 506,25

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European Union, 2025

