Semantic Low-code Programming Tools for Edge Intelligence

Fact Sheet

Project Information

SMARTEDGE
Grant agreement ID: 101092908
DOI
10.3030/101092908

EC signature date
23 November 2022

Funded under
Digital, Industry and Space

Total cost
€ 7 353 640,00

EU contribution
€ 7 353 640,00

Coordinated by
CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE TELECOMUNICAZIONI
Italy

Start date
1 January 2023
End date
31 December 2025

Project description

Harnessing the power of swarm intelligence in AI

Swarm intelligence consists of a network of endpoint devices that are able to generate and process data at source. An entire network becomes more intelligent and flexible when individual edge devices can identify and share vital information with peers. From healthcare systems to self-driving vehicles, sharing this information must be done without compromising reliability, security, privacy and scalability. The EU-funded SMARTEDGE project will provide a solution in a low-code programming environment using three tools: continuous semantic integration, a dynamic swarm
network and a low-code toolchain for edge intelligence. The solution will be demonstrated in the automotive and health sectors, among others.

Fields of science

- engineering and technology, > electrical engineering, electronic engineering, information engineering > information engineering > telecommunications > telecommunications networks > data networks
- natural sciences > computer and information sciences

Keywords

- continuous semantic integration
- Dynamic Swarm Networking
- Low-code Programming Tools for Edge Intelligence

Programme(s)

- HORIZON.2.4 - Digital, Industry and Space
- HORIZON.2.4.7 - Advanced Computing and Big Data

Topic(s)

- HORIZON-CL4-2022-DATA-01-03 - Programming tools for decentralised intelligence and swarms (RIA)

Call for proposal

- HORIZON-CL4-2022-DATA-01

See other projects for this call

Funding Scheme

- HORIZON-RIA - HORIZON Research and Innovation Actions

Coordinator
CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE TELECOMUNICAZIONI

Net EU contribution
€ 555 000,00

Address
Viale g. p. usberti 181a
43124 Parma
Italy

SME
Yes

Region
Nord-Est > Emilia-Romagna > Parma

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 (11)

TECHNISCHE UNIVERSITAT BERLIN

Germany

Net EU contribution
€ 1 097 579,75

Address
Strasse des 17 juni 135
10623 Berlin

Region
Berlin > Berlin

Activity type
Higher or Secondary Education Establishments
AALTO KORKEAKOULUSAATIO SR

Finland

Net EU contribution

€ 458 750,00

Address

Otakaari 1
02150 Espoo

Region

Manner-Suomi > Helsinki-Uusimaa

Activity type

Higher or Secondary Education Establishments

Conveqs Oy

Finland

Net EU contribution

€ 602 500,00

Address

Punavuorenkatu 23 g 154
00150 Helsinki

SME

Yes
ROBERT BOSCH GMBH
Germany
Net EU contribution
€ 618 275,00
Address
Robert-bosch-platz 1
70839 Gerlingen-schillerhoehe
Region
Baden-Württemberg > Stuttgart > Ludwigsburg
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

SIEMENS AKTIENGESELLSCHAFT
Germany
Net EU contribution
€ 835 410,25
Address
Werner-von-siemens-str. 1
80333 Munchen

Region
Bayern > Oberbayern > München, 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

Other funding
€ 0,00

GEIE ERCIM

France
Net EU contribution
€ 458 750,00

Address
Route des lucioles 2004 sophia antipolis
06410 Biot

SME
Yes

Region
Provence-Alpes-Côte d’Azur > Provence-Alpes-Côte d’Azur > Alpes-Maritimes

Activity type
Other

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

Other funding
€ 0,00

EMC INFORMATION SYSTEMS INTERNATIONAL UNLIMITED COMPANY
Ireland

Net EU contribution
€ 827 750,00

Address
Ida industrial site
P31 Ovens

Region
Ireland > Southern > South-West

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

---

CEFRIEL SOCIETA CONSORTILE A RESPONSABILITA LIMITATA SOCIETA'

Italy

Net EU contribution
€ 329 500,00

Address
Viale sarca 226
20126 Milano

SME
Yes

Region
Nord-Ovest > Lombardia > Milano

Activity type
Research Organisations

Links
Contact the organisation  Participation in EU R&I programmes  HORIZON collaboration network
MELLANOX TECHNOLOGIES LTD - MLNX

Israel

Net EU contribution
€ 515,625,00

Address
Yokneam ilit industrial zone - hermon building
20692 Yokneam

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

IMC- INDUSTRIAL MANAGEMENT CONSULTING SLOVAKIA, S.R.O.

Slovakia

Net EU contribution
€ 288,250,00

Address
Hlavna 84
900 90 Dubova

SME
Yes

Region
Slovensko > Bratislavský kraj > Bratislavský kraj

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

Links
Partners (3)

**FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV**

Germany

Net EU contribution
€ 766 250,00

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 

Other funding
€ 0,00

**UNIVERSITE DE FRIBOURG**

Switzerland

Net EU contribution
€ 0,00

Address
Avenue de l'Europe 20
1700 Fribourg

Region
Schweiz/Suisse/Svizzera > Espace Mittelland > Fribourg / Freiburg

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

---

HAUTE ECOLE SPECIALISEE DE SUISSE OCCIDENTALE
Switzerland

Net EU contribution
€ 0,00

Address
Route de Moutier 14
2800 Delemont

Region
Schweiz/Suisse/Svizzera > Espace Mittelland > Jura

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

---

THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD
United Kingdom
Net EU contribution
€ 0,00

Address
Wellington square university offices
OX1 2JD Oxford

Region
South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Oxfordshire

Activity type
Higher or Secondary Education Establishments

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

Other funding
No data

Last update: 28 November 2022

Permalink: https://cordis.europa.eu/project/id/101092908

European Union, 2024