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

Start date
1 January 2023

End date
31 December 2025

Italy

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 (MAIN PROGRAMME)
- 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

Total cost
€ 555 000,00

Participants (11)

TECHNISCHE UNIVERSITAT BERLIN

Germany

Net EU contribution
€ 1 097 579,75

Address
STRASSE DES 17 JUNI 135
10623 Berlin

Region
Berlin > Berlin > 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 > Helsinki-Uusimaa

Activity type

Higher or Secondary Education Establishments

Total cost

€ 458 750,00

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**Conveqs Oy**

Finland

Net EU contribution

€ 602 500,00

Address

Punavuorenkatu 23 G 154
00150 Helsinki

SME

Yes
Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

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
€ 602 500,00

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ROBERT BOSCH GMBH

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

Total cost
€ 618 275,00

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SIEMENS AKTIENGESELLSCHAFT

Net EU contribution
€ 835 410,25

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

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

Total cost
€ 835 410,25

GEIE ERCIM

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

Total cost
€ 458 750,00

EMC INFORMATION SYSTEMS INTERNATIONAL UNLIMITED COMPANY

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

Total cost
€ 458 750,00
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

Total cost

€ 827 750,00

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CEFRIEL SOCIETA CONSORTILE A RESPONSABILITA LIMITATA SOCIETA' BENEFIT

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
Website
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

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
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

Total cost
€ 766 250,00

Partners (3)
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

Total cost

No data

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

Total cost
No data

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European Union, 2024