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

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
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>Net EU Contribution</th>
<th>Address</th>
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<th>Activity type</th>
<th>SME</th>
<th>Total Cost</th>
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<tr>
<td>AALTO KORKEAKOULUSAATIO SR</td>
<td>Finland</td>
<td>€ 458 750,00</td>
<td>OTAKAARI 1 02150 Espoo</td>
<td>Manner-Suomi &gt; Helsinki-Uusimaa</td>
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<td>Conveqs Oy</td>
<td>Finland</td>
<td>€ 602 500,00</td>
<td>Punavuorenkatu 23 G 154</td>
<td>00150 Helsinki</td>
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<td>€ 602 500,00</td>
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</tbody>
</table>
**ROBERT BOSCH GMBH**

Germany

Net EU contribution

€ 618 275,00

Address

ROBERT-BOSCH-PLATZ 1
70839 Gerlingen-Schillerhohe

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**

Germany

Net EU contribution

€ 835 410,25

Address
WERNER-VON-SIEMENS-STR. 1
80333 München

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

Total cost
€ 835 410,25

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

Total cost
€ 458 750,00

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

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  
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
Total cost
€ 515 625,00

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
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
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Total cost

€ 766 250,00

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

Total cost
No data

HAUTE ECOLE SPECIALISEE DE SUISSE OCCIDENTALE
Switzerland

Net EU contribution
€ 0,00

Address
Route de Moutier 14
2800 Delemont

Region
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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

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

Total cost
No data

Last update: 28 November 2022

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

European Union, 2024