AI-powered Evolution towards Open and Secure Edge Architectures

Fact Sheet

Project Information

VERGE
Grant agreement ID: 101096034

DOI
10.3030/101096034

EC signature date
22 November 2022

Funded under
Digital, Industry and Space

Total cost
€ 5 267 937,50

EU contribution
€ 4 898 437,50

Coordinated by
UNIVERSITAT POLITECNICA DE CATALUNYA
Spain

Start date
1 January 2023
End date
30 June 2025

Project description

Edge computing evolution

Edge computing involves an ecosystem of highly heterogeneous computing elements, which may be located practically everywhere across the path between the end-devices, the access network and the central cloud. In this context, the EU-funded VERGE project will design a flexible, modular and converged edge platform to support distributed AI at the edge. Focusing on security, privacy and trustworthiness, VERGE will carry out two use cases. The first will cover mixed reality driven edge-enabled industrial Beyond 5G applications in Turkey. The second will study edge-assisted autonomous tram operations in Italy. Results will be disseminated to academia, industry and the wider stakeholder community.
Fields of science

engineering and technology > electrical engineering, electronic engineering, information engineering > information engineering > telecommunications > telecommunications networks > mobile network

Keywords

Edge computing  Artificial intelligence  Security and trustworthiness  Extended reality applications  Automatisation

Programme(s)

HORIZON.2.4 - Digital, Industry and Space

Topic(s)


Call for proposal

HORIZON-JU-SNS-2022

See other projects for this call

Funding Scheme

HORIZON-JU-RIA - HORIZON JU Research and Innovation Actions

Coordinator

UNIVERSITAT POLITECNICA DE CATALUNYA

Net EU contribution

€ 495 750,00
Participants (13)

CENTRE TECNOLOGIC DE TELECOMUNICACIONES DE CATALUNYA

Spain

Net EU contribution

€ 392,812.50

Address

Avinguda carl friedrich gauss 7 parc mediterrani de tecnologia
08860 Castelldefels barcelona

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

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

Other funding

€ 0,00
OULUN YLIOPISTO

Net EU contribution
€ 225 000,00

Address
Pentti kaiteran katu 1
90014 Oulu

Region
Manner-Suomi > Pohjois- ja Itä-Suomi > Pohjois-Pohjanmaa

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

BARCELONA SUPERCOMPUTING CENTER CENTRO NACIONAL DE SUPERCOMPUTACION

Net EU contribution
€ 414 375,00

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  

Other funding
€ 0,00
INTEL DEUTSCHLAND GMBH

Germany

Net EU contribution

€ 496 125,00

Address

Am campeon 10
85579 Neubiberg

Region

Bayern > Oberbayern > München, Landkreis

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

€ 55 125,00

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ERICSSON ARAŞTIRMA GELİŞTİRME VE BILISIM HİZMETLERİ ANONİM SİRKETİ

Türkiye

Net EU contribution

€ 549 000,00

Address

Resitpasa mah katar cad 4/2 itu t. kentari 2-b bl. sariyer
34469 İstanbul

Region

İstanbul > İstanbul > İstanbul

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

€ 61 000,00

ERICSSON AB

Sweden

Net EU contribution

€ 418 500,00

Address

Torshamnsgatan 23
164 80 Stockholm

Region

Östra Sverige > Stockholm > Stockholms län

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

€ 46 500,00

TURKCELL TEKNOLOJI ARASTIRMA VE GELISTIRME ANONIM SIRKETI

Türkiye

Net EU contribution

€ 194 062,50

Address

Turkcell kucukyali plaza aydinevler mah inonu cad 36 kucukyali ofispark c block maltepe 34854 Istanbul

Region

İstanbul > İstanbul > İstanbul

Activity type

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

Links
NEARBY COMPUTING SL
Spain
Net EU contribution
€ 309 037,50
Address
Travessera de gracia 18 3 3
08021 Barcelona
SME
Yes
Region
Este > Cataluña > Barcelona
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links

HIRO MICRODATACENTERS B.V.
Netherlands
Net EU contribution
€ 438 750,00
Address
Princes marijkekade 11
2273 AB Voorburg
SME
Yes

Region
West-Nederland > Zuid-Holland > Agglomeratie 's-Gravenhage

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
€ 48 750,00

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ARCELIK A.S.
Türkiye

Net EU contribution
€ 222 750,00

Address
Karaagac, sutluce beyoglu cad. no:2-6
34445 Istanbul

Region
İstanbul > İstanbul > İstanbul

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
€ 24 750,00

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HOLO-INDUSTRIE 4.0 SOFTWARE GMBH
Germany

Net EU contribution
€ 334 687,50
CARL-ZEISS-RING 19
85737 Ismaning

SME
Yes

Bayern › Oberbayern › München, Landkreis

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

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

Other funding
€ 37 187,50

GROUND TRANSPORTATION SYSTEMS ITALIA SRL

Regio (IT) › Toscana › Firenze

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

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

Other funding
€ 40 287,50
Partners (2)

KING'S COLLEGE LONDON
United Kingdom
Net EU contribution
€ 0,00
Address
Strand
WC2R 2LS London
Region
London > Inner London — West > Westminster
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network
SAMSUNG ELECTRONICS (UK) LIMITED

United Kingdom

Net EU contribution
€ 0,00

Address
Samsung house - 1000 hillswood drive
KT16 0PS Chertsey - surrey

Region
South East (England) > Surrey, East and West Sussex > West Surrey

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
No data

Last update: 28 November 2022

Permalink: https://cordis.europa.eu/project/id/101096034

European Union, 2023