



Deep Programmability and Secure Distributed Intelligence for Real-Time End-to-End 6G Networks

Fact Sheet

Project Information

DESIRE6G

Grant agreement ID: 101096466

DOI

[10.3030/101096466](https://doi.org/10.3030/101096466)

EC signature date

22 November 2022

Start date

1 January 2023

End date

31 December 2025

Funded under

Digital, Industry and Space

Total cost

€ 6 227 918,75

EU contribution

€ 5 874 905,00

Coordinated by

UNIVERSITEIT VAN
AMSTERDAM

 Netherlands

Project description

Scaling up mobile communication for mission-critical applications

The next generation of mobile communication networks must surpass current 5G capabilities to meet increasing demands for real-time transfer of important data in support of mission-critical tasks. Such networks must therefore provide high-capacity data transfer with extreme accuracy and negligible delay while hosting multiple tenants. The EU-funded DESIRE6G project aims to design and validate a zero-touch control, management and orchestration platform able to support applications that require extreme ultra-reliable low-latency communications. The design will feature near real-time autonomic networking and a cloud-native data plane layer to support

multitenancy, backed by an extensive monitoring system. It will be tested in two situations using extended reality and a digital twin application.

Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > [internet](#) > [internet of things](#)

[natural sciences](#) > [computer and information sciences](#) > [software](#)



Keywords

[serverless computing](#)

[programmable data plane](#)

[multi-agent systems](#)

[blockchain](#)

[software security](#)

[extreme URLLC](#)

Programme(s)

[HORIZON.2.4 - Digital, Industry and Space](#)

MAIN PROGRAMME

Topic(s)

[HORIZON-JU-SNS-2022-STREAM-B-01-01 - System Architecture](#)

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



UNIVERSITEIT VAN AMSTERDAM

Net EU contribution

€ 693 410,00

Total cost

€ 693 410,00

Address

SPUI 21

1012WX Amsterdam

 Netherlands 

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Participants (13)



ERICSSON MAGYARORSZAG KOMMUNIKACIOS RENDSZEREK KFT

 Hungary

Net EU contribution

€ 491 625,00

Address

MAGYAR TUDOSOK KORUTJA 11

1117 Budapest 

Region

Közép-Magyarország > Budapest > Budapest

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

€ 546 250,00



TELEFONICA INNOVACION DIGITAL SL

Spain

Net EU contribution

€ 388 575,00

Address

**RONDA DE LA COMUNICACION S/N EDIFICIO CENTRAL
28050 MADRID**

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

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

Links

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[HORIZON collaboration network](#)

Total cost

€ 431 750,00



MELLANOX TECHNOLOGIES LTD - MLNX

Israel

Net EU contribution

€ 483 750,00

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

€ 537 500,00



ERICSSON ARASTIRMA GELISTIRME VE BILISIM HIZMETLERI ANONIM Sirketi

 Türkiye

Net EU contribution

€ 272 250,00

Address

RESITPASA MAH KATAR CAD 4/2 ITU T. KENTARI 2-B BL. SARIYER

34469 Istanbul 

Region

Istanbul > Istanbul > Istanbul

Activity type

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

Links

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[HORIZON collaboration network](#) 

Total cost

€ 302 500,00



NUBIS IDIOTIKI KEFALAIOUCHIKI ETAIRIA

 Greece

Net EU contribution

€ 356 624,62

Address

TYNNICHOU 4

34100 CHALKIDA 

SME 

Yes

Region

Κεντρική Ελλάδα > Στερεά Ελλάδα > Εύβοια

Activity type

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

Links

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Total cost

€ 396 250,00



ACCELLERAN

 Belgium

Net EU contribution

€ 396 000,00

Address

KIEVITPLEIN 20 BUS 4.2

2018 Antwerpen 

SME 

Yes

Region

Vlaams Gewest > Prov. Antwerpen > Arr. Antwerpen

Activity type

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

Links

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Total cost

€ 440 000,00



TAGES

 France

Net EU contribution

€ 365 625,00

Address

83 BD SADI CARNOT

06110 Le Cannet 

SME 

Yes

Region

Provence-Alpes-Côte d'Azur > Provence-Alpes-Côte d'Azur > Alpes-Maritimes

Activity type

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

Links

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Total cost

€ 406 250,00



UNIVERSITAT POLITECNICA DE CATALUNYA

 Spain

Net EU contribution

€ 406 875,00

Address

CALLE JORDI GIRONA 31

08034 Barcelona 

Region

Este > Cataluña > Barcelona

Activity type

Higher or Secondary Education Establishments

Links

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

[HORIZON collaboration network](#) 

Total cost

€ 406 875,00



OULUN YLIOPISTO

 Finland

Net EU contribution

€ 320 000,00

Address

PENTTI KAITERAN KATU 1
90014 Oulu 

Region

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

Activity type

Higher or Secondary Education Establishments

Links

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[HORIZON collaboration network](#) 

Total cost

€ 320 000,00



UNIVERSIDAD CARLOS III DE MADRID

 Spain

Net EU contribution

€ 362 500,00

Address

CALLE MADRID 126
28903 Getafe (Madrid) 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 362 500,00



EOTVOS LORAND TUDOMANYEGYETEM

 Hungary

Net EU contribution

€ 365 000,00

Address

EGYETEM TER 1-3
1053 Budapest 

Region

Közép-Magyarország > Budapest > Budapest

Activity type

Higher or Secondary Education Establishments

Links

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Total cost

€ 365 000,00



CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE TELECOMUNICAZIONI

 Italy

Net EU contribution

€ 550 000,00

Address

VIALE G. P. USBERTI 181A
43124 Parma 

Region

Nord-Est > Emilia-Romagna > Parma

Activity type

Higher or Secondary Education Establishments

Links

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[HORIZON collaboration network](#) 

Total cost

€ 550 000,00



NEC LABORATORIES EUROPE GMBH

 Germany

Net EU contribution

€ 422 670,38

Address

KURFURSTEN-ANLAGE 36

69115 Heidelberg 

Region

Baden-Württemberg > Karlsruhe > Heidelberg, Stadtkreis

Activity type

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

Links

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Total cost

€ 469 633,75

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European Union, 2025