6G SHort range extreme communication IN Entitites

Fact Sheet

Project Information

6G-SHINE
Grant agreement ID: 101095738

DOI
10.3030/101095738

EC signature date
18 November 2022

Funded under
Digital, Industry and Space

Total cost
€ 5 097 275,00

EU contribution
€ 4 667 179,00

Coordinated by
AALBORG UNIVERSITET
Denmark

Start date
1 March 2023
End date
31 August 2025

Project description

6G solution design for extreme-pervasiveness wireless connectivity

Several vertical and consumer entities, such as robots, vehicles and production modules, have extreme communication requirements in terms of latency, reliability or data rates – currently still majorly supported via wired connections. The EU-funded 6G-SHINE project will design pioneering solutions for in-X subnetworks, short-range low-power radio cells to be installed in a vast set of vertical and consumer entities to support high-demand communication requirements wirelessly. The project will exploit the opportunities offered by the peculiar deployment characteristics of such short-range subnetworks to deliver a highly performant and cost-efficient radio design, bringing wireless connectivity to an unprecedented level of pervasiveness. 6G-
SHINE will analyse the designed solutions through simulations and – for selected technologies – over demonstrator platforms.

**Fields of science**

natural sciences > computer and information sciences > internet > internet of things

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

engineering and technology > electrical engineering, electronic engineering, information engineering > information engineering > telecommunications > radio technology

**Keywords**

- subnetworks
- URLLC
- PHY
- MAC
- radio resource management
- RIS
- wireless architectures

**Programme(s)**

HORIZON.2.4 - Digital, Industry and Space

**Topic(s)**

HORIZON-JU-SNS-2022-STREAM-B-01-03 - Communication Infrastructure Technologies and Devices

**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**
AALBORG UNIVERSITET

Net EU contribution
€ 731 750,00

Address
Fredrik bajers vej 7k
9220 Aalborg
Denmark

Region
Danmark > Nordjylland > Nordjylland

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 (10)

NOKIA DENMARK AS

Net EU contribution
€ 204 806,00

Address
Orestads boulevard 73
2300 Copenhagen

Region
Danmark > Hovedstaden > Byen København

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
UNIVERSIDAD MIGUEL HERNANDEZ DE ELCHE

Spain

Net EU contribution
€ 353 257,50

Address
Avenida de la universidad s-n
03202 Elche

Region
Este > Comunitat Valenciana > Alicante/Alacant

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

SONY EUROPE BV

Netherlands

Net EU contribution
€ 343 875,00

Address
Taurusavenue 16
2132 LS Hoofddorp

Region
West-Nederland > Noord-Holland > Groot-Amsterdam

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

€ 602 025,00

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

INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM

Belgium

Net EU contribution

€ 627 160,00

Address
Kapeldreef 75
3001 Leuven

Region
Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven
CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE TELECOMUNICAZIONI

**Italy**

**Net EU contribution**
€ 322 125,00

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

**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

APPLE TECHNOLOGY ENGINEERING BV & CO KG

**Germany**

**Net EU contribution**
€ 300 125,00
Address
Karlstr. 77
80335 München

Region
Bayern > Oberbayern > München, Kreisfreie Stadt

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
€ 128,625,00

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COGNITIVE INNOVATIONS PRIVATE COMPANY

Greece

Net EU contribution
€ 324,000,00

Address
Kifissias 125-127
11524 Athina

SME
Yes

Region
Αττική > Αττική > Κεντρικός Τομέας Αθηνών

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
€ 36,000,00

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ROBERT BOSCH GMBH

Germany

Net EU contribution

€ 518 305,50

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

€ 57 589,50

KEYSIGHT TECHNOLOGIES FINLAND OY

Finland

Net EU contribution

€ 339 750,00

Address

Elektroniikkatie 10
90590 Oulu

Region

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

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

€ 37 750,00
INTERDIGITAL EUROPE LTD

United Kingdom

Net EU contribution

€ 0,00

Address

64 great eastern street
EC2A 3QR London

Region

London > Inner London — East > Hackney and Newham

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

No data

Last update: 25 November 2022

Permalink: https://cordis.europa.eu/project/id/101095738

European Union, 2023