6G-BRICKS: Building Reusable testbed Infrastructures for validating Cloud-to-device breakthrough technologies

Fact Sheet

Project Information

**6G-BRICKS**
Grant agreement ID: 101096954

**DO**
10.3030/101096954

**EC signature date**
18 November 2022

<table>
<thead>
<tr>
<th>Start date</th>
<th>End date</th>
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<tr>
<td>1 January 2023</td>
<td>31 December 2025</td>
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**Funded under**
Digital, Industry and Space

**Total cost**
€ 8,849,599.50

**EU contribution**
€ 8,404,533.38

**Coordinated by**
ATHINA-EREVNIKO KENTRO KAINOTOMIAS STIS TECHNOLOGIES TIS PLIROFORIAS, TON EPIKOINONION KAI TIS GNOSIS

Greece

Project description

New facility testing the leap from 5G to 6G

Sixth generation (6G) wireless technology, which currently only exists as a concept, will create seamless connectivity between the physical and cyber worlds. The technology will use higher frequencies than 5G networks and provide substantially higher capacity and lower latency. Academia and industry are investigating a new generation of smart networks with enhanced capacity (by at least one order of
magnitude) and new infrastructures to deploy these very dense networks. The EU-funded 6G-BRICKS aims to establish an experimental research facility to evaluate two key 6G candidate technologies: reconfigurable intelligent surfaces and cell-free massive multiple input multiple output. Novel unified control paradigms based on explainable AI and machine reasoning will also be explored.

Fields of science

ingineering and technology > electrical engineering, electronic engineering, information engineering > information engineering > telecommunications > telecommunications networks > mobile network > 5G

natural sciences > biological sciences > ecology > ecosystems

natural sciences > computer and information sciences > software > software applications > virtual reality

Keywords

Cell-Free  RIS  mmWave  Explainable AI  compute continuum  O-RAN

Programme(s)

HORIZON.2.4 - Digital, Industry and Space

Topic(s)

HORIZON-JU-SNS-2022-STREAM-C-01-01 - SNS experimental Infrastructure

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

ATHINA-EREVNITIKO KENTRO KAINOTOMIAS STIS TECHNOLOGIES TIS PLIROFORIAS, TON EPIKOINONION KAI TIS GNOSIS

Net EU contribution
€ 2 349 656,00

Address
Artemidos 6 kai epidavrou
151 25 Maroussi
Greece

Region
Αττική > Αττική > Βόρειος Τομέας Αθηνών

Activity type
Research Organisations

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

Other funding
€ 0,00

Participants (16)

Participants (16)

IQUADRAT INFORMATICA SL

Spain
Net EU contribution
€ 497 812,50

Address
Calle doctor rizal 10, p.bj2 pta 2
08006 Barcelona

SME
Yes

Region
Este > Cataluña > Barcelona

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

Other funding
€ 55 312,50

KATHOLIEKE UNIVERSITEIT LEUVEN

Belgium

Net EU contribution
€ 652 875,00

Address
Oude markt 13
3000 Leuven

Region
Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type
Higher or Secondary Education Establishments

Other funding
€ 0,00

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

France

Net EU contribution
€ 508 069,75

Address
Rue leblanc 25
75015 Paris

Other funding
€ 0,00
Ile-de-France > Ile-de-France > Paris

Activity type
Research Organisations

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

Other funding
€ 0,00

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EURECOM GIE
France
Net EU contribution
€ 587 587,50

Address
Route des chappes 450 campus sophia antipolis
06410 Biot

Region
Provence-Alpes-Côte d’Azur > Provence-Alpes-Côte d’Azur > Alpes-Maritimes

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

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NATIONAL INSTRUMENTS DRESDEN GMBH
Germany
Net EU contribution
€ 675 562,50

Address
Am waldschlosschen 2
01099 Dresden

Region
Sachsen > Dresden > Dresden, Kreisfreie Stadt

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

Links
- Contact the organisation
- Participation in EU R&I programmes

Other funding
€ 75 062,50

ISRD SP Z O.O.

Poland
Net EU contribution
€ 578 250,00

Address
Pulawska 45b
05-500 Piaseczno

SME
Yes

Region
Makroregion województwo mazowieckie > Warszawski stoleczny > Warszawski zachodni

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

Links
- Contact the organisation
- Participation in EU R&I programmes

Other funding
€ 64 250,00

L.M. ERICSSON LIMITED
Ireland

Net EU contribution
€ 240 750,00

Address
Beech hill clonskeagh
Dublin 4

Region
Ireland > Eastern and Midland > Dublin

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
€ 26 750,00

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INTRACOM SINGLE MEMBER S.A. TELECOM SOLUTIONS

Greece

Net EU contribution
€ 293 625,00

Address
New road peania markopoulo 19 7km
190 02 Peania

Region
Αττική > Ανατολική Αττική

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
€ 32 625,00
FUNDACIO PRIVADA I2CAT, INTERNET I INNOVACIO DIGITAL A CATALUNYA

Spain

Net EU contribution

€ 300 750,00

Address

Calle gran capita 2-4, edifici nexus i
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

BRAINSTORM MULTIMEDIA SL

Spain

Net EU contribution

€ 220 050,00

Address

Calle maestro gozalbo 23 planta 1 puerta 3
46005 Valencia

SME

Yes

Region

Este > Comunitat Valenciana > Valencia/València

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
€ 24 450,00

SPACE HELLAS ANONYMI ETAIREIA SYSTIMATA KAI YPIRESIES TILEPIKIONIONIONPLIROFORIKIS ASFALEIAS - IDIOTIKI EPICHEIRISI PAROCHIS YPERISION ASFA

Greece
Net EU contribution
€ 245 250,00
Address
Messogion ave 312
153 41 Aghia paraskevi athina

Region
Αττική > Αττική > Βόρειος Τομέας Αθηνών
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
€ 27 250,00

SATWAYS-OLOKLIROMENES LYSEIS ASFALEIAS KAI AMYNAS-IDIOTIKI EPICHEIRISI PAROCHIS YPIRESION ASFALEIAS (IEPYA)-ETAIREIA PERIORISMENIS EFTHYNIS

Greece
Net EU contribution
€ 225 000,00
Address
Megalou konstantinou 15
141 22 Irakleio

SME
Yes
Region
Αττική > Αττική > Βόρειος Τομέας Αθηνών
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
€ 25 000,00

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EBOS TECHNOLOGIES LIMITED
Cyprus
Net EU contribution
€ 304 312,50
Address
Arch. makariou iii and mesaorias 1 office 101 2322 Nicosia
SME
Yes
Region
Κύπρος > Κύπρος > Κύπρος
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
€ 33 812,50

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INTERDIGITAL R&D FRANCE
France

Net EU contribution

€ 303 750,00

Address

975 avenue de champs blancs
35576 Cesson sevigne

Region
Bretagne > Bretagne > Ille-et-Vilaine

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

€ 33 750,00

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EKTACOM

France

Net EU contribution

€ 198 932,63

Address

19 avenue des indes
91940 Les ulis

SME
Yes

Region
Ile-de-France > Ile-de-France > Essonne

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
ORGANISMOS TILEPIKOINION TIS ELLADOS OTE AE

Greece

Net EU contribution

€ 222 300,00

Address

Kifissias 99
151 24 Maroussi

Region

Αττική > Αττική > Βόρειος Τομέας Αθηνών

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

€ 24 700,00

Last update: 10 March 2023

Permalink: https://cordis.europa.eu/project/id/101096954

European Union, 2023