ETHER – sElf-evolving terrestrial/non-Terrestrial Hybrid nEtwoRks

Fact Sheet

Project Information

ETHER
Grant agreement ID: 101096526

DOI
10.3030/101096526

EC signature date
22 November 2022

Funded under
Digital, Industry and Space

Total cost
€ 4 901 867,50

EU contribution
€ 4 660 693,25

Coordinated by
UNIVERSITE DU LUXEMBOURG
Luxembourg

Project description

Energy-efficient, integrated terrestrial-non-terrestrial networks

The term non-terrestrial networks includes any network that involves non-terrestrial flying objects. Integrating terrestrial and non-terrestrial networks can connect the unconnected and increase the user experience for the already connected. The EU-funded ETHER project will provide a comprehensive approach for integrated terrestrial-non-terrestrial networks targeting 100 % network coverage, 99.99999 % service continuity and 99.99999 % reliability, with three times higher energy efficiency and 95 % total cost of ownership reduction compared to existing terrestrial deployments. The project will develop solutions for a unified radio access network and energy-efficient, AI-enabled resource management across the terrestrial, aerial
and space domains. ETHER will introduce and combine critical technologies under a unique 3D multi-layered architectural proposition.

**Keywords**

6G Integrated terrestrial non-terrestrial network  
Edge computing and caching  
Unified waveform  
AI-based network performance optimisation  
Zero-touch unified network management  
Data analytics

**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**

UNIVERSITE DU LUXEMBOURG

Net EU contribution  
€ 899 625,00
Participants (10)

ARISTOTELIO PANEPISTIMIO THESSALONIKIS

Greece

Net EU contribution

€ 433 125,00

Address

Kedea building, tritis septemvriou, aristotle university campus

546 36 Thessaloniki

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

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
COLLINS AEROSPACE IRELAND, LIMITED

Ireland
Net EU contribution
€ 593 712,00

Address
Penrose quay penrose wharf penrose business centre fourth floor
T23 Cork

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

Other funding
€ 65 968,00

AVANTI HYLAS 2 CYPRUS LIMITED

Cyprus
Net EU contribution
€ 341 718,75

Address
Spyrou kyprianou 65, crystalserve business center
4003 Limassol

Region
Κύπρος > Κύπρος > Κύπρος

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
**SATELIO IOT SERVICES, SL**

Spain  
Net EU contribution  
€ 258 412,50  
Address  
Calle berlin 61 escalera a entresuelo  
08029 Barcelona  
SME  
Yes  
Region  
Este > Cataluña > Barcelona  
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  
€ 28 712,50  

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**UBIWHERE LDA**

Portugal  
Net EU contribution  
€ 368 156,25  
Address  
Travessa senhor das barrocas 38  
3800 075 Aveiro  
SME  
Yes  
Region
Continente > Centro (PT) > Região de Aveiro

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
€ 40 906,25

FUNDACIO PRIVADA I2CAT, INTERNET I INNOVACIO DIGITAL A CATALUNYA

Spain
Net EU contribution
€ 510 812,50

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

NEARBY COMPUTING SL

Spain
Net EU contribution
€ 340 031,25

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

Other funding
€ 37 781,25

"NATIONAL CENTER FOR SCIENTIFIC RESEARCH ""DEMOKRITOS"""

Greece

Net EU contribution
€ 399 375,00

Address
End of patriarchou grigoriou e and 27 neapoleos street
15341 Agia paraskevi

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

LINKOPINGS UNIVERSITET
Sweden

Net EU contribution
€ 247,187,50

Address
Campus valla
581 83 Linkoping

Region
Östra Sverige > Östra Mellansverige > Östergötlands län

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

ORANGE POLSKA SPOLKA AKCYJNA

Poland

Net EU contribution
€ 268,537,50

Address
Al aleje jerozolimskie 160
02 326 Warszawa

Region
Makroregion województwo mazowieckie > Warszawski stoleczny > Miasto Warszawa

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
€ 29,837,50
MARTEL GMBH
Switzerland
Net EU contribution € 0,00
Address Uberlandstrasse 111
8600 Dubendorf
SME Yes
Region Schweiz/Suisse/Svizzera > Zürich > Zürich
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 € 0,00

NET AI TECH LTD
United Kingdom
Net EU contribution € 0,00
Address Floor 3 1-4 atholl crescent
EH3 8HA Edinburgh
SME Yes
Region Scotland > Eastern Scotland > Edinburgh
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: 28 November 2022

Permalink: https://cordis.europa.eu/project/id/101096526

European Union, 2023