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

Fact Sheet

Project Information

ETHER

Grant agreement ID: 101096526

DOI
10.3030/101096526

Funded under
Digital, Industry and Space

Overall budget
€ 4 901 867,50

EU contribution
€ 4 660 693,25

Start date
1 January 2023

End date
31 December 2025

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

RIA - Research and Innovation action

Coordinator

UNIVERSITE DU LUXEMBOURG

Net EU contribution

€ 899 625,00

Address

2 avenue de l’universite
4365 Esch-sur-alzette
Luxembourg
Luxembourg

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)

ARISTOTELIO PANEPISTIMIO THESSALONIKIS
Greece
Net EU contribution
€ 433 125,00

COLLINS AEROSPACE IRELAND, LIMITED
Ireland
Net EU contribution
€ 593 712,00

AVANTI HYLAS 2 CYPRUS LIMITED
Cyprus
Net EU contribution
€ 341 718,75

SATELIO IOT SERVICES, SL
Spain
Net EU contribution
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<tr>
<th>Organization</th>
<th>Country</th>
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<tr>
<td>UBIWHERE LDA</td>
<td>Portugal</td>
<td>€ 258 412,50</td>
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<td>FUNDACIO PRIVADA I2CAT, INTERNET I INNOVACIO DIGITAL A CATALUNYA</td>
<td>Spain</td>
<td>€ 368 156,25</td>
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<td>NEARBY COMPUTING SL</td>
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<td>&quot;NATIONAL CENTER FOR SCIENTIFIC RESEARCH &quot;&quot;DEMOKRITOS&quot;&quot;&quot;&quot;</td>
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<td>€ 399 375,00</td>
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<td>LINKOPINGS UNIVERSITET</td>
<td>Sweden</td>
<td>€ 247 187,50</td>
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ORANGE POLSKA SPOLKA AKCYJNA

Poland
Net EU contribution
€ 268,537,50

Partners (2)

MARTEL GMBH
Switzerland
Net EU contribution
€ 0,00

NET AI TECH LTD
GB
Net EU contribution
€ 0,00

Last update: 28 November 2022
Record number: 243263
Permalink: /project/id/101096526

European Union, 2023