Fact Sheet

Project Information

TERMINET

Grant agreement ID: 957406

Funded under
H2020-EU.2.1.1.

Start date
1 November 2020

End date
31 October 2023

Overall budget
€ 7 998 285

EU contribution
€ 7 998 285

Coordinated by
PANEPISTIMIO DYTIKIS
MAKEDONIAS

Greece

Project description

Making it simple to connect devices

Tens of billions of devices are connected to the Internet of Things (IoT), and the number of connections is growing every second. Information is being constantly sent and received from one smart device to another. Based on cutting-edge technologies such as software-defined networking (SDN), multiple-access edge computing, and virtualisation for next-generation IoT, the EU-funded TERMINET project will develop a novel next-generation reference architecture. Its main aim is to simplify the connection of a vast number of different devices through a flexible SDN-enabled middleware layer. To improve supply chain processes, the project will design an IoT-driven decentralised and distributed blockchain framework within manufacturing.
TERMINET’s approach will be tested in real-life situations such as energy, smart buildings, smart farming, healthcare and manufacturing.

**Objective**

The vision of TERMINET is to provide a novel next generation reference architecture based on cutting-edge technologies such as SDN, multiple-access edge computing, and virtualisation for next generation IoT, while introducing new, intelligent IoT devices for low-latency, market-oriented use cases. TERMINET’s primary intention is to bring (more efficient and accurate) decisions to the point of interest to better serve the final user targeting at applying distributed AI at the edge by using accelerated hardware and sophisticated software to support local AI model training using federated learning. Our solution aspires to reduce the complexity of the connecting vast number of heterogeneous devices through a flexible SDN-enabled middleware layer. It also aims to design, develop, and integrate novel, intelligent IoT devices such as smart glasses, haptic devices, energy harvesting modules, smart animal monitoring collars, AR/VR environments, and autonomous drones, to support new market-oriented use cases. Great expectation of the proposal is to foster AR/VR contextual computing by demonstrating applicable results in realistic use cases by using cutting-edge IoT-enabled AR/VR applications. By designing and implementing an IoT-driven decentralised and distributed blockchain framework within manufacturing, TERMINET aims to support maintenance and supply chain optimisation. Our solution intends to apply a vertical security by design methodology by meeting the privacy-preserving and trust requirements of the NG-IoT architecture. To foster standardisation activities for the IoT ecosystem, TERMINET will provide novel disruptive business models. For the evaluation of its wide applicability, TERMINET will validate and demonstrate six proof-of-concept, realistic use cases in compelling IoT domains such as the energy, smart buildings, smart farming, healthcare, and manufacturing.

**Fields of science**

**Programme(s)**

**Topic(s)**

**Call for proposal**
Funding Scheme

Coordinator

PANEPISTIMIO DYTIKIS MAKEDONIAS

Address
Parko Agiou Dimitriou 1
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EU contribution
€ 881 250

Activity type
Higher or Secondary Education Establishments

Website
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Participants (26)

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EU contribution
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Activity type
Research Organisations

Website
Contact the organisation

KAROLINSKA INSTITUTET

Address
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EU contribution
€ 199 687,50

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

PUBLIC POWER CORPORATION S.A.

Address

EU contribution
€ 171 875
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<th>Address</th>
<th>Activity type</th>
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<td>ARISTOTELIO PANEPISTIMIO THESSALONIKIS</td>
<td>Chalkokondyli Street 30 104 32 Athina</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<tr>
<td>SCHNEIDER ELECTRIC ESPANA SA</td>
<td>Kedea Building, Tritis Septemvriou, Aristotle Univ Campus 54636 Thessaloniki</td>
<td>Higher or Secondary Education Establishments</td>
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<tr>
<td>FUTURE INTELLIGENCE LTD</td>
<td>Regent Street 207 3Rd Floor W1B 3HH London</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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ERICSSON TELECOMUNICAZIONI SPA

Italy

EU contribution

€ 410 625

Address

Via Anagnina 203
00118 Roma

Activity type

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

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INNOVATION SPRINT

Belgium

EU contribution

€ 216 875

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1200 Bruxelles

Activity type

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

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AMERICAN FARM SCHOOL POST SECONDARY EDUCATIONAL AND TRAINING ASSOCIATION

Greece

EU contribution

€ 167 937,50

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INTRASOFT INTERNATIONAL SA

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EU contribution

€ 407 500

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WELLNESS TELECOM SL
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€ 469 375
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SIDROCO HOLDINGS LIMITED
Cyprus
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€ 277 500
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Petraki Giallourou 22
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EU contribution
€ 418 125
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Mithridatou 36-38
11632 Athina
Activity type
Private for-profit entities
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Website Contact the organisation

INCITES CONSULTING SA
Luxembourg
EU contribution
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**Address**
130 Route D’arlon
8008 Strassen

**Contact the organisation**

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**Address**
Agias Paraskevis 23 Strovolos
2002 Nicosia

**Contact the organisation**

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**Address**
Koyfalia
57100 Koyfalia, Thessaloniki

**Website**

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**Address**
Via Zamboni 33
40126 Bologna

**Website**  

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<td>LOGOS RICERCA E INNOVAZIONE</td>
<td>Italy</td>
<td>€ 256,875</td>
<td>Via Palazzo Dei Diavoli 36/C 50142 Firenze</td>
<td>Research Organisations</td>
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<tr>
<td>FUNDACION TECNALIA RESEARCH &amp; INNOVATION</td>
<td>Spain</td>
<td>€ 287,750</td>
<td>Parque Cientifico Y Tecnologico De Gipuzkoa Paseo Mikeletegi 2 20009 Donostia/san Sebastian (Gipuzkoa)</td>
<td>Research Organisations</td>
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<td>GEIE ERCIM</td>
<td>France</td>
<td>€ 250,000</td>
<td>Route Des Lucioles 2004 Sophia Antipolis 06410 Biot</td>
<td>Other</td>
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<td>NEC LABORATORIES EUROPE GMBH</td>
<td>Germany</td>
<td>€ 445,472.50</td>
<td>Kurfursten-anlage 36 69115 Heidelberg</td>
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MARTEL GMBH

Contact the organisation

Switzerland

EU contribution

€ 409 187,50

Address

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Activity type

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(excluding Higher or Secondary Education Establishments)

OPTINVENT

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€ 263 250

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Website

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Italy

EU contribution

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Address