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**

RIA - Research and Innovation action

### Coordinator

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Activity type</th>
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<td>PANEPISTIMIO DYTIKIS MAKENONIAS</td>
<td>Higher or Secondary Education Establishments</td>
<td>€ 881 250</td>
</tr>
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</table>

**Address**

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50100 Kozani
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**Website** [Contact the organisation](#)

### Participants (26)

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<tr>
<th>Organisation</th>
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<td>ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS</td>
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<td>€ 401 562,50</td>
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57001 Thermi Thessaloniki

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### KAROLINSKA INSTITUTET

**Sweden**

**Address**

Nobels Vag 5
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### PUBLIC POWER CORPORATION S.A.

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**EU contribution**
ARISTOTELIO PANEPISTIMIO THESSALONIKIS

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€ 239 375

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SCHNEIDER ELECTRIC ESPANA SA

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€ 196 875

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FUTURE INTELLIGENCE LTD

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INNOVATION SPRINT
Belgium
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€ 216 875
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1200 Bruxelles (excluding Higher or
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AMERICAN FARM SCHOOL POST SECONDARY EDUCATIONAL AND TRAINING ASSOCIATION
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EU contribution
€ 167 937,50
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Marinou Antypa 54 23 Higher or Secondary
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INTRASOFT INTERNATIONAL SA
Luxembourg
EU contribution
€ 407 500
Address Activity type
Rue Nicolas Bove 2B Private for-profit entities
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<td>€ 469 375</td>
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<td>€ 418 125</td>
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Website Contact the organisation
INCITES CONSULTING SA
Luxembourg
EU contribution
€ 230 000
Address
130 Route D’arlon
8008 Strassen
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
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EIGHT BELL LTD
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€ 261 875
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2002 Nicosia
Activity type
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MAKEDONIKI VIOMIHANIA GALAKTOS ANONIMOS ETERIA (MEVGAL SA)
Greece
EU contribution
€ 103 125
Address
Koyfalia
57100 Koyfalia, Thessaloniki
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Website
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ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA
Italy
EU contribution
€ 252 500
Address
Via Zamboni 33
40126 Bologna
Activity type
Higher or Secondary Education Establishments
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<td>GEIE ERCIM</td>
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