EnABLES

Project ID: 730957
Funded under:
H2020-EU.1.4.1.2. - Integrating and opening existing national and regional research infrastructures of European interest

European Infrastructure Powering the Internet of Things

From 2018-01-01 to 2021-12-31, ongoing project

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 5 214 731,25</td>
<td>INFRAIA-02-2017 - Integrating Activities for Starting Communities</td>
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<tr>
<td>EU contribution:</td>
<td>Funding scheme:</td>
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<tr>
<td>EUR 5 213 481,25</td>
<td>RIA - Research and Innovation action</td>
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<td>Coordinated in:</td>
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<td>Ireland</td>
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Objective

EnABLES will integrate key European research infrastructures in powering the Internet of Things (IoT). 6 research institutes together with 5 knowledge hubs of excellence will address the long term needs of energy management in self-powered smart sensor systems as required by IoT innovation. To enable truly ‘invisible’, unobtrusive and self-powered (autonomous) wireless devices a key challenge is to bridge the gap between capturing energy supply from energy harvesting sources (EH), integrating new devices for energy storage (ES) and taking into account the micro-power management (MPM) requirements for the miniaturised system operation. Through providing access to unique infrastructure, world-leading expertise, advanced equipment and state-of-the-art technologies, EnABLES will empower several hundreds of academic researchers and technologists to advance energy harvesting, storage and micropower management solutions for the integrated design and deployment of miniaturised autonomous sensors. Access will range from materials & models to devices and systems and the access providers will work with the user community to accelerate adoption and innovation in real-life applications. The EnABLES integration offers a paradigm shift in building an infrastructure network that links new scientific knowledge with application-driven research. Specifically for energy management solutions, this will deliver a mind-set change for early concurrent and collaborative development of system-optimised IoT devices. This presents a unique opportunity for Europe to uphold global leadership in microsystem energy management and be positioned at a pivotal time at the heart of the IoT innovation.

Related information

Events

Powering the Internet of Things 2019
**Coordinator**

UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK  
WESTERN ROAD  
T12 YN60 CORK  
Ireland  

**Activity type:** Higher or Secondary Education Establishments  
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**Participants**

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**Activity type:** Research Organisations  
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**Activity type:** Research Organisations  
Contact the organisation

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**Activity type:** Research Organisations  
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**Activity type:** Higher or Secondary Education Establishments  
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**EU contribution:** EUR 1 718 065  

**EU contribution:** EUR 553 522,50  

**EU contribution:** EUR 999 768,75  

**EU contribution:** EUR 496 305  

**EU contribution:** EUR 349 986,25
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EU contribution: EUR 250 753,75

Activity type: Other
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EU contribution: EUR 295 030

Activity type: Higher or Secondary Education Establishments
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