Objective

To unleash the full potential of IoT, realizing the digital society and flourishing innovations in application domains such as eHealth, smart city, intelligent transport systems, and smart manufacturing, it is critical to facilitate the creation and operation of trustworthy Smart IoT Systems. Since smart IoT systems typically operate in a changing and often unpredictable environment, the ability of these systems to continuously evolve and adapt to their new environment is decisive to ensure and increase their trustworthiness, quality and user experience. The DevOps movement advocates a set of software engineering best practices and tools, to ensure Quality of Service whilst continuously evolving complex systems and foster agility, rapid innovation cycles, and ease of use. Therefore, DevOps has been widely adopted in the software industry. However, there is no complete DevOps support for trustworthy
smart IoT systems today.

The main technical goal of ENACT is to develop novel IoT platform enablers to:

i) Enable DevOps in the realm of trustworthy smart IoT systems, and enrich it with novel concepts for end-to-end security and privacy, resilience and robustness strengthening trustworthiness, taking into account the challenges related to “collaborative” actuation and actuation conflicts.

ii) Facilitate the smooth integration of these to leverage DevOps for existing and new IoT platforms and approaches (e.g. FIWARE, SOFIA, and TelluCloud).

This will be accomplished by evolving current DevOps methods and techniques to support the agile development and operation of smart IoT systems, and provide a set of novel mechanisms to ensure quality assurance and trustworthiness, such as actuation conflict handling, continuous testing and delivery across IoT, edge and cloud spaces and end to end security and privacy management. Through this ENACT will provide a DevOps framework for smart IoT Systems.

**Fields of science**

[Fields of science]

**Programme(s)**

**Topic(s)**

**Call for proposal**

H2020-IOT-2017

**Funding Scheme**

RIA - Research and Innovation action

**Coordinator**

[Coordinator]
Participants (14)

CA TECHNOLOGIES DEVELOPMENT SPAIN SA

Spain

EU contribution
€ 149 322,78

Address
Plaza De La Pau Sn Wtc
Alameda Park Edificio 2
Planta 4
08940 Cornella De Llobregat
Barcelona

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

Contact the organisation

EVIDIAN SA

France

EU contribution
€ 469 337,50

Address
Rue Jean Jaures
78340 Les Clayes Sous Bois

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

Contact the organisation

INDRA SISTEMAS SA

Spain

EU contribution
€ 397 500

Address
Avenida De Bruselas 35
28108 Alcobendas Madrid

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

Website

Contact the organisation

Research Organisations
€ 1 184 756,25

Contact the organisation

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<td>Germany</td>
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STITUTO PER SERVIZI DI RICOVERO E ASSISTENZA AGLI ANZIANI

Italy
EU contribution
€ 118 125
Address
Borgo Mazzini 48
31100 Treviso
Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Contact the organisation

BALTIC OPEN SOLUTIONS CENTER

Latvia
EU contribution
€ 132 080
Address
Ainazu Iela 13
2160 Saulkrasti
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

ELEKTRONIKAS UN DATORZINATNU INSTITUTS

Latvia
EU contribution
€ 136 250
Address
Dzerbenes Iela 14
1006 Riga
Website
Activity type
Research Organisations

Contact the organisation

STIFTELSEN SINTEF

Norway
EU contribution
€ 0
Address

Contact the organisation
TELLU IOT AS
Norway
EU contribution
€ 603 250
Address
Lensmannsla 4
1386 Asker
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Contact the organisation

MONTIMAGE EURL
France
EU contribution
€ 290 350,97
Address
Rue Bobillot 39
75013 Paris
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Contact the organisation

BEAWRE DIGITAL SL
Spain
EU contribution
€ 256 076,25
Address
Tirant Lo Blanc 35
08980 Sant Feliu De Llobregat
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Contact the organisation