MONICA

Project ID: 732350
Funded under:
H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)
H2020-EU.3.1.4. - Active ageing and self-management of health

Management Of Networked IoT Wearables – Very Large Scale Demonstration of Cultural Societal Applications

From 2017-01-01 to 2019-12-31, ongoing project | MONICA Website

Project details

<table>
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<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tbody>
<tr>
<td>EUR 17 603 811</td>
<td>IoT-01-2016 - Large Scale Pilots</td>
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<th>EU contribution:</th>
<th>Call for proposal:</th>
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<tr>
<td>EUR 14 999 733</td>
<td>H2020-IOT-2016</td>
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<th>Coordinated in:</th>
<th>Funding scheme:</th>
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<td>Germany</td>
<td>IA - Innovation action</td>
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Objective

The SoundCity Project MONICA aims to provide a very large scale demonstration of multiple existing and new Internet of Things technologies for Smarter Living. The solution will be deployed in 6 major cities in Europe. MONICA demonstrates a large scale IoT ecosystem that uses innovative wearable and portable IoT sensors and actuators with closed-loop back-end services integrated into an interoperable, cloud-based platform capable of offering a multitude of simultaneous, targeted applications.

All ecosystems will be demonstrated in the scope of large scale city events, but have general applicability for dynamically deploying Smart City applications in many fixed locations such as airports, main traffic arterials, and construction sites. Moreover, it is inherent in the MONICA approach to identify the official standardisation potential areas in all stages of the project.

MONICA will demonstrate an IoT platform in massive scale operating conditions; capable of handling at least 10,000 simultaneous real end-users with wearable and portable sensors using existing and emerging technologies (TRL 5-6) and based upon open standards and architectures.

It will design, develop and deploy a platform capable of integrating large amounts of heterogeneous, interoperable IoT enabled sensors with different data capabilities (video, audio, data), resource constraints (wearables, Smartphones, Smartwatches), bandwidth (UWB, M2M), costs (professional, consumer), and deployment (wearable, mobile, fixed, airborne) as well as actuators (lights, LED, cameras, alarms, drones, loudspeakers).

It will demo end-to-end, closed loop solutions covering everything from devices and middleware with semantic annotations through a multitude of wireless communication channels to cloud based applications and back to actuation networks. Humans-in-the-Loop is demonstrated through integrating Situational Awareness and Decision Support tools for organisers, security staff and sound engineers situation rooms.

Related information

Report Summaries

Periodic Reporting for period 1 - MONICA (Management Of Networked IoT Wearables – Very Large Scale Demonstration of Cultural Societal Applications)
Coordinator

FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
HANSASTRASSE 27C
80686 MUNCHEN
Germany

EU contribution: EUR 1 769 116

Activity type: Research Organisations

Contact the organisation

Participants

ACOUCITE
RUE ST MICHEL 24
69007 LYON
France

EU contribution: EUR 687 490

Activity type: Research Organisations

Contact the organisation

ATOS IT SOLUTIONS AND SERVICES SRO
EINSTEINOVA 7
85101 BRATISLAVA
Slovakia

EU contribution: EUR 543 375

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

Contact the organisation

BRUEL & KJAER SOUND & VIBRATION MEASUREMENT A/S
Skodsborgvej 307
2850 NAERUM
Denmark

EU contribution: EUR 636 212

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

Contact the organisation

CITY OF BONN
BERLINER PLATZ 2 STADTHAUS
53111 BONN
Germany

EU contribution: EUR 446 070

Activity type: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Contact the organisation
EU contribution: EUR 616 146

EU contribution: EUR 834 750

EU contribution: EUR 644 595

EU contribution: EUR 203 875

EU contribution: EUR 1 196 832

CHARILAOU THERMI ROAD 6 KM
57001 THERMI THESSALONIKI
Greece

Activity type: Research Organisations

Contact the organisation

CNET SVENSKA AB
SVARDVAGEN 3A
182 33 DANDERYD
Sweden

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

Contact the organisation

DEXELS BV
GRASWEG 55
1031 HX AMSTERDAM
Netherlands

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

Contact the organisation

DIGISKY SRL
CORSO RE UMBERTO 65
10128 TORINO
Italy

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

Contact the organisation

DANMARKS TEKNISKE UNIVERSITET
ANKER ENGELUNDSVEJ 1 BYGNING 101 A
2800 KGS LYNGBY
Denmark

Activity type: Higher or Secondary Education Establishments

Contact the organisation
FREIE UND HANSESTADT HAMBURG
RATHAUSMARKT 1
20095 HAMBURG
Germany
See on map

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Contact the organisation

EU contribution: EUR 225 937

HOCHSCHULE FUR ANGEWANDTE WISSENSCHAFTEN HAMBURG
BERLINER TOR 5
20099 HAMBURG
Germany
See on map

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

Contact the organisation

EU contribution: EUR 247 687

H W COMMUNICATIONS LIMITED
GREAVES ROAD PARKFIELD
LA1 4TZ LANCASTER
United Kingdom
See on map

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

Contact the organisation

EU contribution: EUR 347 506

IN-JET APS
JEPPE AAKJAERS VEJ 15
3460 BIRKEROD
Denmark
See on map

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

Contact the organisation

EU contribution: EUR 673 903

ISTITUTO SUPERIORE MARIO BOELLA SULLE TECNOLOGIE DELL’INFORMAZIONE E DELLE
TELECOMUNICAZIONI ASSOCIAZIONE
VIA PIER CARLO BOGGIO 61
10138 TORINO
Italy
See on map

**Activity type:** Research Organisations

Contact the organisation

EU contribution: EUR 0
FONDAZIONE LINKS - LEADING INNOVATION & KNOWLEDGE FOR SOCIETY
VIA PIER CARLO BOGGIO 61
10138 TORINO
Italy
EU contribution: EUR 920 012
See on map
Activity type: Research Organisations
Contact the organisation

KOBENHAVNS KOMMUNE
OTTILIAVEJ 1
2500 VALBY
Denmark
EU contribution: EUR 265 000
See on map
Activity type: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
Contact the organisation

KINGSTON UNIVERSITY HIGHER EDUCATION CORPORATION
RIVER HOUSE HIGH STREET 53-57
KT1 1LQ KINGSTON UPON THAMES
United Kingdom
EU contribution: EUR 908 528
See on map
Activity type: Higher or Secondary Education Establishments
Contact the organisation

LEEDS BECKETT UNIVERSITY
ROSE BOWL 510 PORTLAND WAY
LS1 3HB LEEDS
United Kingdom
EU contribution: EUR 679 500
See on map
Activity type: Higher or Secondary Education Establishments
Contact the organisation

MOVEMENT ENTERTAINMENT SRL
CORSO VITTORIO EMANUELE II 76
10121 TORINO TO
Italy
EU contribution: EUR 90 475
See on map
Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation
OPTINVENT
14E RUE DU PATIS TATELIN METROPOLIS II
35700 RENNES
France
See on map
**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

Praesidio ApS
BREDGADE 28 1 TH, ODD FELLOW PALAEET, NORDFLOJEN
1260 COPENHAGEN
Denmark
See on map
**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

RING ADVOCACY APS
TEGLGARDSVEJ 32
2920 CHARLOTTENLUND
Denmark
See on map
**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

TELECOM ITALIA SPA
VIA GAETANO NEGRI 1
20123 MILANO
Italy
See on map
**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

TIVOLI AS
VESTEBROGADE 3
1620 KOBENHAVN
Denmark
See on map
**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation
COMUNE DI TORINO
PIAZZA PALAZZO DI CITTA 1
10122 TORINO
Italy
See on map

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

**Contact the organisation**

VCA TECHNOLOGY LTD
1 Oakcroft Road
KT10 9QY Esher
United Kingdom
See on map

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

**Contact the organisation**

DEN ERHVERVSDRIVENDE FOND VÆKSTHUS SJÆLLAND
MARIENBERGVEJ 132 1 SAL
4760 Vordingborg
Denmark
See on map

**Activity type:** Other

**Contact the organisation**

YORKSHIRE COUNTY CRICKET CLUB LIMITED
CARNegie PAVILION, HEADINGLEY CRICKET GROUND, KIRK
LS6 3DP LEEDS
United Kingdom
See on map

**Activity type:** Other

**Contact the organisation**

LEEDS CRICKET FOOTBALL AND ATHLETIC CO LIMITED
HEADINGLEY ST. MICHAEL S LANE
LS6 3BR LEEDS YORKSHIRE
United Kingdom
See on map

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

**Contact the organisation**

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