Dependable Embedded Wireless Infrastructure

Fact Sheet

Project Information

DEWI
Grant agreement ID: 621353
Status
Closed project
Start date
1 March 2014
End date
30 April 2017

Funded under
FP7-JTI
Overall budget
€ 38 407 193,26
EU contribution
€ 6 414 001,27

Coordinated by
VIRTUAL VEHICLE RESEARCH
GMBH
Austria

Objective

DEWI (dependable embedded wireless infrastructure) envisions to significantly foster Europe’s leading position in embedded wireless systems and smart (mobile) environments such as vehicles, railway cars, airplanes and buildings. These environments comprise wireless sensor networks and wireless applications for citizens and professional users. Therefore the consortium introduces the concept of a “sensor & communication bubble” featuring:

- locally confined wireless internal and external access
- secure and dependable wireless communication and safe operation
- fast, easy and stress-free access to smart environments
- flexible self-organization, re-configuration, resiliency and adaptability
- open solutions and standards for cross-domain reusability and interoperability

DEWI identifies and implements an integrated dependable communication
architecture using wireless technology capable of replacing the traditional heavy wiring between computers / devices / sensors, and therefore makes possible less expensive and more flexible maintenance and re-configuration. Citizens will gain easier, more comfortable, more transparent and safer access to information provided by the “sensor & communication bubble”. DEWI will provide a platform and toolset containing methods, algorithms, prototypes, and living labs solutions for cross-domain reusability, scalability and open interface standards, and will contribute to the ARTEMIS repository by connecting to other ASP and AIPP initiatives to ensure long-term sustainability and impact towards society. Key results of DEWI will be demonstrated in exemplary show cases, displaying high relevance to societal issues and cross-domain applicability. Regarding interoperability, DEWI will also contribute to establishing a standard for wireless systems engineering in a certification and security context, which entails conformity to both domain-specific standards and international domain-independent standards.

TA approved by ARTEMIS-JU on 17/12/2013.
Amendment 1 changes approved by ECSEL-JU on 18/03/2015.
Amendment 2 changes approved by ECSEL-JU on 02/08/2016.
Amendment 3 changes approved by ECSEL-JU on 05/01/2017.

Field of science

/engineering and technology/electrical engineering, electronic engineering, information engineering/information engineering/telecommunications/wireless
/social sciences/other social sciences/social sciences interdisciplinary/sustainable development

Programme(s)

Topic(s)

Call for proposal

ARTEMIS-2013-1

Funding Scheme

JTI-CP-ARTEMIS - Joint Technology Initiatives - Collaborative Project (ARTEMIS)

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8200 Brugge
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Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
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Adevice Solutions S.L.
Spain
EU contribution
€ 42 631,59
Address
Calle Leonardo Da Vinci 18
Edificio Marie Curie Planta 3
Puerta B 4 Parque C Ientifico Y Tecnologico Cartuja 93
41092 Sevilla
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CENTRIA AMMATTIKORKEAKOULU OY
Finland
EU contribution
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ELEKTRONIKAS UN DATORZINATNU INSTITUTS
Latvia

EU contribution
€ 22 044

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Activity type
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Activity type
Other
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EU contribution
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Netherlands

EU contribution

€ 462 968,59

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OUMAN OY

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€ 118 403

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Timo Peltola (Mr.)

PHILIPS ELECTRONICS NEDERLAND BV

Netherlands

EU contribution

€ 87 758,33
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Rosterigrand 4 4Tr  
117 61 Stockholm  

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

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Administrative Contact  
Mikko Niemelä (Mr.)

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**SIRRIS HET COLLECTIEF CENTRUM VAN DE TECHNOLOGISCHE INDUSTRIE**

Belgium
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**Administrative Contact**

Jani Koivusaari (Mr.)

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**THALES ALENIA SPACE ESPANA, SA**

Spain

EU contribution

€ 83 413,99

**Address**

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**Activity type**

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EU contribution

€ 18 166 23
UNIVERSITAT LINZ
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€ 50 407,28
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**VOLVO TECHNOLOGY AB**

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**Administrative Contact**
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**VIRTUAL POWER SOLUTIONS SA**

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**EU contribution**

**Activity type**

**Website**

**Administrative Contact**

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Last update: 23 January 2017
Record number: 192340

Permalink: https://cordis.europa.eu/project/id/621353/

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