Advancing fail-aware, fail-safe, and fail-operational electronic components, systems, and architectures for fully automated driving to make future mobility safer, affordable, and end-user acceptable.

Fact Sheet

Project Information

AutoDrive

Grant agreement ID: 737469

Project website

Status
Closed project

Start date
1 May 2017

End date
31 October 2020

Funded under
H2020-EU.2.1.1.7.

Overall budget
$64,569,691.44

EU contribution
$16,163,362.92

Coordinated by
INFINEON TECHNOLOGIES AG

Germany

Objective

Automated driving is a disruptive technology which opens the door to future multi-billion markets providing business opportunities to value chains in automotive and semiconductor industry. The European industry has leading competitive strength in the development and manufacturing of highly reliable electro-mechanical systems. In order to preserve this capability Europe needs to setup European standards for high level control such as real-time computing or big data processing. In order to respond on the global challenge AutoDrive has gathered Europe’s leading semiconductor
companies, suppliers, OEMs, and research institutes committed to create a pan-European eco-system, which has the critical mass to initiate standards and provides the components and subsystems for automated driving. Currently, even the most sophisticated vehicle automation technology on the road is not able to surpass human driving capabilities – especially considering context awareness in any situation. Moreover, there is no common agreement on quantifiable dependability measures which hardware and embedded software have to achieve to allow safe automated driving for SAE Levels 3-5. AutoDrive aims for the design of (i) fail-aware (self-diagnostics), (ii) fail-safe, (iii) fail-operational (HW and SW redundancy) electronic components and systems architecture that enable the introduction of automated driving in all car categories. AutoDrive results will significantly contribute to safer and more efficient mobility. It will raise end-user acceptance and comfort by supporting drivers in highly challenging situations (active safety) as well as in regular driving situations. Combining both will reduce the number of road fatalities especially in rural scenarios and under adverse weather conditions. AutoDrive will contribute to Europe’s Vision Zero and to improved efficiency. This will sustain Leadership and even grow the market position of all AutoDrive partners.

Field of science

/natural sciences/physical sciences/electromagnetism and electronics/electrical conductivity/semiconductor  
/natural sciences/computer and information sciences/data science/data processing  
/natural sciences/computer and information sciences/data science/big data  
/social sciences/sociology/industrial relations/automation  
/natural sciences/computer and information sciences/software/software development  
/natural sciences/computer and information sciences/data science/data exchange  
/engineering and technology/electrical engineering, electronic engineering, information engineering/electronic engineering/sensors/smart sensors  
/social sciences/economics and business/business and management/commerce

Programme(s)

Topic(s)

Call for proposal

H2020-ECSEL-2016-1-RIA-two-stage

Funding Scheme
### Coordinator

**INFINEON TECHNOLOGIES AG**

- **Address**: Am Campeon 1-15, 85579 Neubiberg, Germany
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)
- **EU contribution**: € 1 722 562.75

### Participants (61)

#### AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH

- **Address**: Giefinggasse 4, 1210 Wien
- **EU contribution**: € 361 744.07
- **Activity type**: Research Organisations

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- **Address**: Avenida Cervantes 4, 29016 Malaga
- **EU contribution**: € 79 362.50
- **Activity type**: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

#### AVL LIST GMBH

- **Address**: Austria
- **EU contribution**: € 531 876.41
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<td>AVL SOFTWARE AND FUNCTIONS GMBH</td>
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INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM
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€ 365 255,19
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Kapeldreef 75
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INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE INCORPORATED
Taiwan
EU contribution
€ 0
Address
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INFINEON TECHNOLOGIES AUSTRIA AG

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JAC ITALY DESIGN CENTER SRL

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EU contribution
VIRTUAL VEHICLE RESEARCH GMBH
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€ 319 355,10
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KROMBERG & SCHUBERT GMBH & CO KG KABEL-AUTOMOBILTECHNIK
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Raitestr 8
71272 Renningen
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Contact the organisation

KUNGLIGA TEKNISKA HOEGSKOLAN
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LANGE RESEARCH AIRCRAFT GMBH
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€ 457 198,37

Address

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66482 Zweibrucken

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**MARELLI EUROPE SPA**

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€ 388 658,62

Address

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20011 Corbetta

**Activity type**

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**MICROELETRONICA MASER SL**

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€ 129 750

Address

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**Activity type**

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(excluding Higher or Secondary Education Establishments)

Website

Contact the organisation

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**MURATA ELECTRONICS OY**

Finland

EU contribution

€ 190 002,50

Address

Myllynkivenkuja 6
01620 Vantaa

**Activity type**

Private for-profit entities
(excluding Higher or Secondary Education Establishments)
NXTECH AS
Norway
EU contribution
€ 144 669,51
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K G Meldahlsvei 9
1671 Krakeroy
Activity type
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Website
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OKMETIC OY
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€ 113 200,94
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Website
Contact the organisation

ON SEMICONDUCTOR BELGIUM BVBA
Belgium
EU contribution
€ 470 150,51
Address
Westerring 15
9700 Oudenaarde
Activity type
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Contact the organisation

OSTBAYERISCHE TECHNISCHE HOCHSCHULEAMBERG-WEIDEN
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EU contribution
€ 179 550
POLITECNICO DI MILANO

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EU contribution
€ 100 077,48

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POLITECNICO DI TORINO

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QRTECH AKTIEBOLAG

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€ 220 136,87

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431 35 Molndal

Website
Contact the organisation

ROBERT BOSCH GMBH

Germany
EU contribution
€ 1 126 341,15

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VAERSTE AS
Norway
EU contribution
€ 48 299,11
Address
Gamle Beddingvei 28
0106 Fredrikstad
Activity type
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VDL ENABLING TRANSPORT SOLUTIONS BV
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10223 Vilnius
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Higher or Secondary Education Establishments
Website
Contact the organisation

VI-GRADE SRL
Italy
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Infineon Technologies Romania and CO. Societate in Comandita Simpla

Romania

EU contribution

€ 0

Address

B-dul Dimitrie Pompeiu 6
020337 Bucharest

Activity type

Private for-profit entities
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Website

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SINTEF AS

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EU contribution

€ 193 309,93

Address

Strindvegen 4
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Activity type

Research Organisations

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TTTECH AUTO AG

Austria

EU contribution

€ 73 666,45

Address

Operngasse 17-21
1040 Vienna

Activity type

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(excluding Higher or Secondary Education Establishments)

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MERCEDES-BENZ AG

Germany

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€ 58 308,08

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Mercedesstrasse 120
70372 Stuttgart

Activity type

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SINTEF NORD AS
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EU contribution
€ 30 210

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Storgata 118
9252 Tromso

Activity type
Research Organisations

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Record number: 210530

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