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**

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**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

/social sciences/economics and business/business and management/commerce
/natural sciences/physical sciences/electromagnetism and electronics/electrical
conductivity/semiconductor
/natural sciences/computer and information sciences/data science/big data
/natural sciences/computer and information sciences/data science/data processing

Programme(s)

Topic(s)

Call for proposal

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

Funding Scheme

ECSEL-RIA - ECSEL Research and Innovation Action

Coordinator
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VIRTUAL VEHICLE RESEARCH GMBH

Austria
EU contribution
€ 319,355,10
Address: Inffeldgasse 21 A, 8010 Graz
Activity type: Research Organisations
Contact the organisation

KROMBERG & SCHUBERT GMBH & CO KG KABEL-AUTOMOBILTECHNIK

Germany
EU contribution
€ 240,878,54
Address: Raitestr 8, 71272 Renningen
Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

KUNGLIGA TEKNISKA HOEGSKOLAN

Sweden
EU contribution
€ 157,820,30
Address: Brinellvagen 8, 100 44 Stockholm
Activity type: Higher or Secondary Education Establishments
Contact the organisation

LANGE RESEARCH AIRCRAFT GMBH

Germany
EU contribution
€ 457,198,37
Address: Brusseler Strasse 30
Activity type: Private for-profit entities
66482 Zweibrucken (excluding Higher or Secondary Education Establishments)

Contact the organisation

MARELLI EUROPE SPA

Italy
EU contribution € 388 658,62
Address Viale Aldo Borletti 61/63
20011 Corbetta
Activity type Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

MICROELETRONICA MASER SL

Spain
EU contribution € 129 750
Address Polig Industr Mendarozabal
20870 Guipuzcoa
Activity type Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website Contact the organisation

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)

Contact the organisation

NXTECH AS

Norway
OKMETIC OY
Finland
EU contribution
€ 113 200,94
Address
Piitie 2
01510 Vantaa
Activity type
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)
Website
Contact the organisation

ON SEMICONDUCTOR BELGIUM BVBA
Belgium
EU contribution
€ 470 150,51
Address
Westerring 15
9700 Oudenaarde
Activity type
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)
Website
Contact the organisation

OSTBAYERISCHE TECHNISCHE HOCHSCHULE AMBERG-WEIDEN
Germany
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Kaiser Wilhelm Ring 23
92224 Amberg
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TECHNISCHE UNIVERSITEIT EINDHOVEN
Netherlands
EU contribution
€ 396 041,52
Address
Groene Loper 3
5612 AE Eindhoven
Activity type
Higher or Secondary Education Establishments
Website
Contact the organisation

TECHNISCHE UNIVERSITAET GRAZ
Austria
EU contribution
€ 96 045,75
Address
Rechbauerstrasse 12
8010 Graz
Activity type
Higher or Secondary Education Establishments
Website
Contact the organisation

TEKNOLOGIAN TUTKIMUSKESKUS VTT OY
Finland
EU contribution
€ 311 262,44
Address
Tekniikantie 21
02150 Espoo
Activity type
Research Organisations
Website
Contact the organisation

TENNECO AUTOMOTIVE EUROPE BVBA
Belgium
EU contribution
€ 465 150
Address
Industriezone
Schurhovenveld 1037
3800 Sint Truiden
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
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VYSOKE UCENI TECHNICKE V BRNE
Czechia
EU contribution
€ 300 125
Address
Antoninska 548/1
601 90 Brno Stred
Website
Contact the organisation

XENOMATIX
Belgium
EU contribution
€ 226 786,54
Address
Esperantolaan 4
3001 Heverlee
Contact the organisation

ZF FRIEDRICHSHAFEN AG
Germany
EU contribution
€ 610 754,65
Address
Lowentaler Strasse 20
88046 Friedrichshafen
Website
Contact the organisation

Infineon Technologies Romania and CO. Societate in Comandita Simpla
Romania
EU contribution
- -
SINTEF AS
Norway
EU contribution
€ 193 309,93
Address
Strindvegen 4
7034 Trondheim
Website
Contact the organisation

TTTECH AUTO AG
Austria
EU contribution
€ 73 666,45
Address
Operngasse 17-21
1040 Vienna
Website
Contact the organisation

MERCEDES-BENZ AG
Germany
EU contribution
€ 58 308,08
Address
Mercedesstrasse 120
70372 Stuttgart
Website
Contact the organisation

SINTEF NORD AS
SINTEF NORDBAK
Norway
EU contribution
€ 30 210

Address
Storgata 118
9252 Tromso

Activity type
Research Organisations

Contact the organisation

Last update: 14 October 2020
Record number: 210530

Permalink: https://cordis.europa.eu/project/id/737469

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