Programmable Systems for Intelligence in Automobiles

Fact Sheet

Project Information

PRYSTINE
Grant agreement ID: 783190

Funded under
H2020-EU.2.1.1.7.
H2020-EU.2.1.1.

Overall budget
€ 50 293 730,79

EU contribution
€ 14 368 382,46

Coordinated by
INFINEON TECHNOLOGIES AG
Germany

Closed project

Start date
1 May 2018

End date
31 October 2021

Objective

The ambition of PRYSTINE is to strengthen and to extend traditional core competencies of the European industry, research and universities in smart mobility and in particular the electronic component and systems and cyber-physical systems domains. PRYSTINE's target is to realize Fail-operational Urban Surround perceptION (FUSION) which is based on robust Radar and LiDAR sensor fusion and control functions in order to enable safe automated driving in urban and rural environments. Therefore, PRYSTINE's high-level goals are:

1. Enhanced reliability and performance, reduced cost and power of FUSION components
2. Dependable embedded control by co-integration of signal processing and AI approaches for FUSION
3. Optimized E/E architecture enabling FUSION-based automated vehicles
4. Fail-operational systems for urban and rural environments based on FUSION

PRYSTINE will deliver (a) fail-operational sensor-fusion framework on component level, (b) dependable embedded E/E architectures, and (c) safety compliant integration of Artificial Intelligence (AI) approaches for object recognition, scene understanding, and decision making within automotive applications. The resulting reference FUSION hardware/software architectures and reliable components for autonomous systems will be validated in 22 industrial demonstrators, such as:

1. Fail-operational autonomous driving platform
2. An electrical and highly automated commercial truck equipped with new FUSION components (such as LiDAR, Radar, camera systems, safety controllers) for advanced perception
3. Highly connected passenger car anticipating traffic situations
4. Sensor fusion in human-machine interfaces for fail-operational control transition in highly automated vehicles

PRYSTINE's well-balanced, value chain oriented consortium, is composed of 60 project partners from 14 different European and non-European countries, including leading automotive OEMs, semiconductor companies, technology partners, and research institutes.

Fields of science

Programme(s)

Topic(s)

Call for proposal

H2020-ECSEL-2017-2-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
€ 1 798 164,91

Website
Contact the organisation

Participants (59)

AITEK SPA

Italy

EU contribution
€ 106 078,13

Address
Via Della Crocetta 15
16122 Genova Ge

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

Contact the organisation

ANYWI TECHNOLOGY BV

Netherlands

EU contribution
€ 138 751,13

Address
3E Binnenvestgracht 23 H
2312 NR Leiden

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

Website
Contact the organisation

AUTOCAR MEDIA GROUP LTD

Israel

EU contribution
€ 256 500

Address
Activity type
3 Damary Shoshana St.
4464702 Kfar Saba

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

Contact the organisation

CISC SEMICONDUCTOR GMBH
Austria
EU contribution
€ 164 306,25

Address
Lakeside B07
9020 Klagenfurt

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

Website
Contact the organisation

AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS
Spain
EU contribution
€ 189 615,56

Address
Calle Serrano 117
28006 Madrid

Activity type
Research Organisations

Website
Contact the organisation

FICOSA ADAS, S.L.
Spain
EU contribution
€ 153 312,50

Address
Gran Via Carlos lli 98 5Th
Floor
08028 Barcelona

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

Contact the organisation

FORD OTOMOTIV SANAYI ANONIM SIRKETI
Turkey
Turkey

EU contribution € 245 000
Address Akpinar Mah Hasan Basri Cad
No 2 Sancaktepe
34885 Istanbul

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

Contact the organisation

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DAT.MOBILITY BV

Netherlands

EU contribution € 209 385
Address Snipperlingsdijk 4
7417 BJ Deventer

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

Contact the organisation

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G.N.T. SYSTIMATA PLIROFORIKIS AE

Greece

EU contribution € 288 750
Address Eleytherias 2-4
15669 Athens

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

Contact the organisation

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IDIADA AUTOMOTIVE TECHNOLOGY SA

Spain

EU contribution € 100 075
Address L Albornar
43710 Santa Oliva

Activity type
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(excluding Higher or
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41121 Modena (excluding Higher or Secondary Education Establishments)

Contact the organisation

NOKIA SOLUTIONS AND NETWORKS OY

Finland
EU contribution
€ 175 375

Address
Karaportti 3
02610 Espoo

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

Contact the organisation

NXP SEMICONDUCTORS NETHERLANDS BV

Netherlands
EU contribution
€ 370 296,88

Address
High Tech Campus 60
5656AG Eindhoven

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

Website
Contact the organisation

POLITECNICO DI TORINO

Italy
EU contribution
€ 105 000

Address
Corso Duca Degli Abruzzi 24
10129 Torino

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

RE:LAB S.R.L.

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Finland
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Kalevantie
FI-33014 Tampere
Activity type
Higher or Secondary
Education Establishments
Website
Contact the organisation

UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA
Italy
€ 230 125
Address
Via Università 4
41121 Modena
Activity type
Higher or Secondary
Education Establishments
Website
Contact the organisation

UNIVERSITATEA POLITEHNICA DIN BUCURESTI
Romania
€ 0
Address
Splaiul Independentei 313
Sect 6
060042 Bucuresti
Activity type
Higher or Secondary
Education Establishments
Website
Contact the organisation

Turun Yliopisto (Turku University)
Finland
€ 151 512,38
Address
Yliopistonmaki
20014 Turku
Activity type
Higher or Secondary
Education Establishments
Website
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Kompetenzzentrum - Das Virtuelle Fahrzeug, Forschungsgesellschaft mbH
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VIDEANTIS GMBH
Germany
EU contribution
€ 222 113,25
Address
Rotermundstr. 11
30165 Hannover
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM
Belgium
EU contribution
€ 479 379,25
Address
Kapeldreef 75
3001 Leuven
Activity type
Research Organisations

INFINEON TECHNOLOGIES LINZ GMBH & CO KG
Austria
EU contribution
€ 343 750
Address
Donaufeldstrasse 5
4040 Linz
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

INNOLUCE BV
Netherlands
EU contribution
€ 290 440,75
Address
Kerkenbos 1234, Unit C
6546BE Nijmegen
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
AVL ARASTIRMA VE MUHENDISLIK SANAYI VE TICARET LIMITED SIRKETI

Turkey
EU contribution
€ 143 750

Address
Tubitak Mam Gbeze
Yerleskesi Teknoloji Serbest
Bolgesi Yeni Teknoloji
Binalari B Blok B 209
41470 Gebze Kocaeli

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

Contact the organisation

TTS KEHITYS OY

Finland
EU contribution
€ 161 490

Address
Kiljavantie 6
05200 Rajamaki

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

Contact the organisation

INFINEON TECHNOLOGIES AUSTRIA AG

Austria
EU contribution
€ 436 184,25

Address
Siemensstrasse 2
9500 Villach

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

Website
Contact the organisation

Friedrich-Alexander University (FAU) Erlangen-Nürnberg

Germany
EU contribution
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ELEKTRONIKAS UN DATORZINATNU INSTITUTS

Latvia
EU contribution
€ 113 050

Address
Dzerbenes iela 14
1006 Riga

Activity type
Research Organisations

Website
Contact the organisation

EPOS EMBEDDED CORE & POWER SYSTEMS GMBH & CO. KG

Germany
EU contribution
€ 793 500

Address
Dusseldorfer Landstr. 401
47259 Duisburg

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

Contact the organisation

TTTECH AUTO GERMANY GMBH

Germany
EU contribution
€ 419 237,50

Address
Despag Str 4
85055 Ingolstadt

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

Contact the organisation

KUNGLIGA TEKNISKA HOEGSKOLAN

Sweden
EU contribution
€ 251 110,13

Address
Brinellvagen 8
100 44 Stockholm

Activity type
Higher or Secondary Education Establishments
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**Last update:** 5 January 2022