Advanced packaging for photonics, optics and electronics for low cost manufacturing in Europe

Fact Sheet

Project Information

APPLAUSE

Grant agreement ID: 826588

Funded under
INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Total cost
€ 33 739 697,16

EU contribution
€ 8 403 154,96

Coordinated by
ICOS VISION SYSTEMS NV
Belgium

Closed project

Start date
1 May 2019

End date
31 October 2022

Project description

Advanced packaging for mass produced optical, photonics and electrical parts

Europe’s semiconductor packaging industry needs to maintain its competitive advantage. To achieve this goal, a decisive turn to advanced and more complex processes is necessary. The EU-funded APPLAUSE project will develop new processes, methods and tools for packaging mass produced optical and electrical parts. The project will conduct pilot tests in six manufacturing use cases. Backed by a consortium of leading experts from European electronics packaging companies
and research organisations, the overall aim of the project is to offer advanced technologies and contribute to the competitiveness of the European packaging industry.

**Objective**

The strong drive for more complex systems and more advanced packaging, including optics and photonics, creates a chance to retain the manufacturing and packaging value chain to Europe - or even start to bring it back. APPLAUSE supports this by building on the European expertise in advanced packaging and assembly to develop new tools, methods and processes for high volume mass manufacturing of electrical and optical components. The technologies will be piloted in 5 industrial Use Cases, related to 1. Substantially smaller 3D integrated ambient light sensor for mobile and wearable applications (AMS) 2. High performance, low cost, uncooled thermal IR sensor for automotive and surveillance applications (IDES) 3. High speed Datacom transceivers with reduced manufacturing costs (DustPhotonics) 4. Flexible cardiac monitoring patch and miniaturized cardiac implants with advanced monitoring capabilities (GE Healthcare and Cardiaccs). The APPLAUSE consortium is built of a number of leading experts from European electronics packaging companies representing different value chain levels related to advanced packaging and smart system integration. The parties have complementary expertise in conception, design, packaging, testing and manufacturing of electronic components, as well as a wide range of expertise from several different end use areas. The unique European ecosystem established within the consortium represents the competitive, leading edge of the technologies available.

**Fields of science**

- engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > sensors
- natural sciences > physical sciences > optics
- natural sciences > biological sciences > ecology > ecosystems
- medical and health sciences > medical biotechnology > implants

**Programme(s)**

- H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT) MAIN PROGRAMME
- H2020-EU.2.1.1.7. - ECSEL
Topic(s)

ECSEL-2018-1-IA - ECSEL-2018-1-IA

Call for proposal

H2020-ECSEL-2018-1-IA-two-stage

See other projects for this call

Funding Scheme

ECSEL-IA - ECSEL Innovation Action

Coordinator

ICOS VISION SYSTEMS NV

Net EU contribution

€ 511 750,00

Address

Esperantolaan 8c
3001 Heverlee
Belgium

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type

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

Links

Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding

€ 2 047 000,00

Participants (32)
ROODMICROTEC GMBH

Germany
Net EU contribution
€ 276,906.88
Address
Oettinger Strasse 6
86720 Nordlingen
SME
Yes
Region
Bayern > Schwaben > Donau-Ries
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 830,720.62

NUROMEDIA GMBH

Germany
Net EU contribution
€ 178,375.00
Address
Schaafenstrasse 25
50676 Köln
SME
Yes
Region
Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Pac Tech - Packaging Technologies GmbH

Germany

Net EU contribution

€ 128 250,00

Address

Am Schlangenhorst 7-9
14641 Nauen

Region

Brandenburg > Brandenburg > Havelland

Activity type

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

Links

Contact the organisation ✔️ Website ✔️

Participation in EU R&I programmes ✔️

HORIZON collaboration network ✔️

Other funding

€ 535 125,00

DISCO HI-TEC EUROPE GMBH

Germany

Net EU contribution

€ 105 350,00

Address

Liebigstrasse 8
85551 Kirchheim

Region

Bayern > Oberbayern > München, Landkreis
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 421,400,00

OSYPKA AG
Germany
Net EU contribution
€ 187,375,00

Address
Earl H Wood Strasse 1
79618 Rheinfelden Baden

SME
Yes

Region
Baden-Württemberg > Freiburg > Lörrach

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

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 562,125,00

FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV
Germany
Net EU contribution
WURTH ELEKTRONIK GMBH & CO KG

Germany

Net EU contribution

€ 193 000,00

Address

Salzstrasse 21
74676 Niedernhall

Region

Baden-Württemberg > Stuttgart > Hohenlohekreis

Activity type

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

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 772 000,00
BESI NETHERLANDS BV

Netherlands
Net EU contribution
€ 133 498,75

Address
Ratio 6
6921 RW Duiven

Region
Oost-Nederland > Gelderland > Arnhem/Nijmegen

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

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 533 995,00

ADVANCED PACKAGING CENTER BV

Netherlands
Net EU contribution
€ 37 921,87

Address
Stenograaf 3
6921 EX Duiven

SME
Yes

Region
Oost-Nederland > Gelderland > Arnhem/Nijmegen

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

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
THIRD-PARTY

BOSCHMAN TECHNOLOGIES BV

Netherlands

Net EU contribution

€ 103,140.63

Address

Stenograaf 3
6921 EX Duiven

SME

Yes

Region

Oost-Nederland > Gelderland > Arnhem/Nijmegen

Activity type

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

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 309,421.87

STICHTING IMEC NEDERLAND

Netherlands

Net EU contribution

€ 274,738.94

Address

High Tech Campus 31
5656 AE Eindhoven

Region

Noord-Brabant > Zuidoost-Noord-Brabant

Activity type

Research Organisations
JSR MICRO NV

Belgium

Net EU contribution

€ 106 863,75

Address

Technologielaan 8
3001 Leuven

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type

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

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 427 455,00

INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM

Belgium

Net EU contribution

€ 347 053,88

Address

Kapeldreef 75
3001 Leuven

Region
Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type
Research Organisations

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 644 528,62

VAISALA OYJ
Finland
Net EU contribution
€ 10 935,57

Address
Vanha Nurmijarventie 21
01670 Vantaa

Region
Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

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

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 43 742,30

AFORE OY
Finland
Net EU contribution
€ 194 093,75
OY EVERON AB
Finland
 Net EU contribution
€ 78 077,74

Address
Teräskatu 8
20520 Turku

SME  Yes

Region
Manner-Suomi > Etelä-Suomi > Varsinais-Suomi

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

Links
Contact the organisation  
Participation in EU R&I programmes  
HORIZON collaboration network

Other funding
€ 234 233,22
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<td>Finland</td>
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AALTO KORKEAKOULUSAATIO SR

Finland

Net EU contribution

€ 160 030,50

Address

Otakaari 1
02150 Espoo

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

Activity type

Higher or Secondary Education Establishments

INTEGRATED DETECTOR ELECTRONICS AS

Norway

Net EU contribution

€ 260 325,00

Address

Gjerdrums Vei 19
0484 Oslo

SME

Yes
CARDIACCS AS
Norway
Net EU contribution
€ 14 312,50
Address
Maridalsveien 71b
0458 Oslo
SME
Yes
Region
Norge > Oslo og Viken > Oslo
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 42 937,50

UNIVERSITETET I SOROST-NORGE
Norway
AMS-OSRAM AG

Austria

Net EU contribution

€ 698 450,00

Address

Tobelbaderstrasse 30 Schloss Premstatten
8141 Unterpremstatten

Region

Südösterreich > Steiermark > Graz

Activity type

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

Links

Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding

€ 2 793 800,00
BESI AUSTRIA GMBH

Austria
Net EU contribution
€ 502 078,55

Address
Innstrasse 16
6240 Radfeld

Region
Westösterreich > Tirol > Tiroler Unterland

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

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 2 008 314,20

EV GROUP E. THALLNER GMBH

Austria
Net EU contribution
€ 276 918,00

Address
Di Erich Thallner Strasse 1
4782 St Florian Am Inn

Region
Westösterreich > Oberösterreich > Innviertel

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

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 1 107 672,00
ALBIS OPTOELECTRONICS AG

Switzerland
Net EU contribution
€ 164 062,50
Address
Moosstrasse 2a
8803 Ruschlikon
SME
Yes
Region
Schweiz/Suisse/Svizzera > Zürich > Zürich
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 492 187,50

CSEM CENTRE SUISSE D'ELECTRONIQUE ET DE MICROTECHNIQUE SA - RECHERCHE ET DEVELOPPEMENT

Switzerland
Net EU contribution
€ 160 772,50
Address
Rue Jaquet Droz 1
2000 Neuchâtel
Region
Schweiz/Suisse/Svizzera > Espace Mittelland > Neuchâtel
Activity type
Research Organisations
ALMAE TECHNOLOGIES

France

Net EU contribution

€ 503 125,00

Address

Route De Nozay Site Data 4
91460 Marcoussis

Region

Ile-de-France > Ile-de-France > Essonne

Activity type

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

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 2 012 500,00

SEMILAB FELVEZETO FIZIKAI LABORATORIUM ZARTKORUEN MUKODO RESZVENYTARSASAG

Hungary

Net EU contribution

€ 200 100,00

Address

Prielle Kornelia Utca 4/a.
1117 Budapest
Region
Közép-Magyarország > Budapest > Budapest

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

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 800 400,00

DUSTPHOTONICS LTD

Israel
Net EU contribution
€ 211 343,75

Address
Berkowitz 4
6423806 Tel Aviv - Jaffa

SME
Yes

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

Links
Contact the organisation Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 634 031,25

ELEKTRONIKAS UN DATORZINATNU INSTITUTS

Latvia
Net EU contribution
€ 113 050,00
Address
Dzerbenes iela 14
1006 Riga ⚠️

Region
Latvija > Latvija > Riga

Activity type
Research Organisations

Links
Contact the organisation ⚙️ Website ⚙️
Participation in EU R&I programmes ⚙️
HORIZON collaboration network ⚙️

Other funding
€ 209 950,00

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MELLANOX TECHNOLOGIES LTD - MLNX

Israel

Net EU contribution
€ 130 000,00

Address
Yokneam Ilit Industrial Zone - Hermon Building
20692 Yokneam ⚠️

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

Links
Contact the organisation ⚙️ Website ⚙️
Participation in EU R&I programmes ⚙️
HORIZON collaboration network ⚙️

Other funding
€ 520 000,00

EC signature date: 23 May 2019
Last update: 27 September 2022
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