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

Fact Sheet

Project Information

<table>
<thead>
<tr>
<th>APPLAUSE</th>
<th>Funded under</th>
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<tr>
<td>Grant agreement ID: 826588</td>
<td>H2020-EU.2.1.7.</td>
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<table>
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<th>Start date</th>
<th>End date</th>
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<td>1 May 2019</td>
<td>31 October 2022</td>
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<th>Overall budget</th>
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<td>€ 34 448 397,16</td>
<td>€ 8 561 598,71</td>
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<th>Coordinated by</th>
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<tr>
<td>ICOS VISION SYSTEMS NV Belgium</td>
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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 (IDEAS)
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 Cardiacs).

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**


**Programme(s)**

**Topic(s)**

**Call for proposal**

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

**Funding Scheme**
Coordinator

ICOS VISION SYSTEMS NV

Address
Esperantolaan 8C
3001 Heverlee
Belgium

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

EU contribution
€ 511 750

Participants (30)

ROODMICROTEC GMBH

Germany

EU contribution
€ 377 394.38

Address
Oettinger Strasse 6
86720 Nordlingen

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

Contact the organisation

NUROMEDIA GMBH

Germany

EU contribution
€ 178 375

Address
Schaafenstrasse 25
50676 Koln

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

Website
Contact the organisation

Pac Tech - Packaging Technologies GmbH

Germany

EU contribution
€ 128 250

Address

Activity type
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<td>DISCO HI-TEC EUROPE GMBH</td>
<td>€ 105,350</td>
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<td>OSYPKA AG</td>
<td>€ 187,375</td>
<td>Earl H Wood Strasse 1, 79618 Rheinfelden Baden</td>
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<td>FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.</td>
<td>€ 1,264,468.84</td>
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74676 Niedernhall | Private for-profit entities (excluding Higher or Secondary Education Establishments) |
| BESI NETHERLANDS BV | Netherlands | € 133 498,75 | Ratio 6  
6921 RW Duiven | Private for-profit entities (excluding Higher or Secondary Education Establishments) |
| ADVANCED PACKAGING CENTER BV | Netherlands | € 141 062,50 | Stenograaf 3  
6921 EX Duiven | Private for-profit entities (excluding Higher or Secondary Education Establishments) |
| STICHTING IMEC NEDERLAND | Netherlands | € 274 738,94 | High Tech Campus 31  
5656 AE Eindhoven | Research Organisations |
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<td>INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM</td>
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<td>VAISALA OYJ</td>
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<td>Vanha Nurmijarventie 21, 01670 Vantaa</td>
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<td>AFORE OY</td>
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<td>€ 181,406.25</td>
<td>Vakiotie 5, 21420 Lieto</td>
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Establishments)

Website

Contact the organisation

OY EVERON AB
Finland
EU contribution
€ 78 077,74

Address
Teräskatu 8
20520 Turku

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

Contact the organisation

PRECORDIOR OY
Finland
EU contribution
€ 218 457,50

Address
Itainen Pitkakatu 4
20520 Turku

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

Contact the organisation

TURUN YLIOPISTO
Finland
EU contribution
€ 299 105,63

Address
Yliopistonmaki
20014 Turku

Website

Activity type
Higher or Secondary Education Establishments

Contact the organisation

AALTO KORKEAKOULUSAATIO SR
Finland
EU contribution
€ 160 030,50

Activity type

Website

Contact the organisation
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<td>UNIVERSITETET I SOROST-NORGE</td>
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<td>CSEM CENTRE SUISSE D'ELECTRONIQUE ET DE MICROTECHNIQUE SA - RECHERCHE ET DEVELOPPEMENT</td>
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<td>DUSTPHOTONICS LTD</td>
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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

Last update: 25 January 2022
Record number: 223648

Permalink: https://cordis.europa.eu/project/id/826588

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