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

Fact Sheet

Project Information

APPLAUSE

Grant agreement ID: 826588

Funded under
H2020-EU.2.1.1.7.

Overall budget
€ 34 487 312,52

EU contribution
€ 8 561 598,71

ICOS VISION SYSTEMS NV
Belgium

Start date
1 May 2019

End date
30 April 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 (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) 6. Optical water measurement modules with cost-effective packaging of components (Vaisala) 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
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
Website: Contact the organisation

ROODMICROTEC GMBH
Address: Oettinger Strasse 6, 86720 Nordlingen, Germany
Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
EU contribution: € 377 394,38
Contact the organisation

NUROMEDIA GMBH
Address: Schaafenstrasse 25, 50676 Koln, Germany
Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
EU contribution: € 178 375
Website: Contact the organisation

Pac Tech - Packaging Technologies GmbH
Germany

EU contribution
€ 128 250

Address
Am Schlangenhorst 7-9
14641 Nauen

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

Website
Contact the organisation

DISCO HI-TEC EUROPE GMBH

EU contribution
€ 105 350

Address
Liebigstrasse 8
85551 Kirchheim

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

Contact the organisation

OSYPKA AG

EU contribution
€ 187 375

Address
Earl H Wood Strasse 1
79618 Rheinfelden Baden

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

Website
Contact the organisation

FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

EU contribution
€ 1 264 468,84

Address
Hansastrasse 27C
80686 Munchen

Activity type
Research Organisations
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>WURTH ELEKTRONIK GMBH &amp; CO KG</td>
<td>Germany</td>
<td>€ 193 000</td>
<td>Salzstrasse 21, 74676 Niedernhall</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>BESI NETHERLANDS BV</td>
<td>Netherlands</td>
<td>€ 151 659,25</td>
<td>Ratio 6, 6921 RW Duiven</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>ADVANCED PACKAGING CENTER BV</td>
<td>Netherlands</td>
<td>€ 141 062,50</td>
<td>Stenograaf 3, 6921 EX Duiven</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>STICHTING IMEC NEDERLAND</td>
<td>Netherlands</td>
<td>€ 256 578,44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation</td>
<td>Country</td>
<td>EU Contribution</td>
<td>Address</td>
<td>Activity Type</td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
<td>-----------------</td>
<td>---------</td>
<td>---------------</td>
</tr>
<tr>
<td>JSR MICRO NV</td>
<td>Belgium</td>
<td>€ 106 863,75</td>
<td>Technologielaan 8, 3001 Leuven</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM</td>
<td>Belgium</td>
<td>€ 347 053,88</td>
<td>Kapeldreef 75, 3001 Leuven</td>
<td>Research Organisations</td>
</tr>
<tr>
<td>VAISALA OYJ</td>
<td>Finland</td>
<td>€ 10 935,57</td>
<td>Vanha Nurmijarventie 21, 01670 Vantaa</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>AFORE OY</td>
<td>Finland</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
OY EVERON AB

Address
Teräskatu 8
20520 Turku

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

EU contribution
€ 78 077,74

Website
Contact the organisation

PRECORDIOR OY

Address
Itainen Pitkakatu 4
20520 Turku

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

EU contribution
€ 218 457,50

Website
Contact the organisation

TURUN YLIOPISTO

Address
Yliopistonmaki
20014 Turku

Activity type
Higher or Secondary Education Establishments

EU contribution
€ 299 105,63

Website
Contact the organisation
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>AALTO KORKEAKOULUSAATIO SR</td>
<td>Finland</td>
<td>€ 160,030,50</td>
<td>Otakaari 1, 02150 Espoo</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
<tr>
<td>INTEGRATED DETECTOR ELECTRONICS AS</td>
<td>Norway</td>
<td>€ 260,325</td>
<td>Gjerdrums Vei 19, 0484 Oslo</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>CARDIACCS AS</td>
<td>Norway</td>
<td>€ 14,312,50</td>
<td>Maridalsveien 71B, 0458 Oslo</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>UNIVERSITETET I SOROST-NORGE</td>
<td>Norway</td>
<td>€ 332,366,68</td>
<td>Kjolnes Ring 56, 3918 Porsgrunn</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
</tbody>
</table>
AMS AG
Austria
EU contribution
€ 698 450
Address
Tobelbaderstrasse 30
8141 Unterpremstaetten
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website
Contact the organisation

BESI AUSTRIA GMBH
Austria
EU contribution
€ 502 078,55
Address
Innstrasse 16
6240 Radfeld
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website
Contact the organisation

EV GROUP E. THALLNER GMBH
Austria
EU contribution
€ 276 918
Address
Di Erich Thallner Strasse 1
4782 St Florian Am Inn
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website
Contact the organisation

ALBIS OPTOELECTRONICS AG
Switzerland
EU contribution
€ 164 062,50
Address
Moosstrasse 2A
3000 Bern
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSEM CENTRE SUISSE D'ÉLECTRONIQUE ET DE MICROTECHNIQUE SA - RECHERCHE ET DEVELOPPEMENT</td>
<td>Switzerland</td>
<td>€ 160 772,50</td>
<td>Rue Jaquet Droz 1 2000 Neuchatel</td>
<td>Research Organisations</td>
</tr>
<tr>
<td>ALMAE TECHNOLOGIES</td>
<td>France</td>
<td>€ 503 125</td>
<td>Route De Nozay Site Data 4 91460 Marcoussis</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>SEMILAB FELVEZETO FIZIKAI LABORATORIUM ZARTKORUEN MUKODO RESZVENYTARSASAG</td>
<td>Hungary</td>
<td>€ 297 600</td>
<td>Prielle Kornelia Utca 4/A. 1117 Budapest</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>DUSTPHOTONICS LTD</td>
<td>Israel</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
EU contribution
€ 341 343,75

Address
Berkowitz 4
6423806 Tel Aviv - Jaffa

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

Contact the organisation

---

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: 24 April 2021
Record number: 223648

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

© European Union, 2021