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

Fact Sheet

Project Information

**APPLAUSE**
- Grant agreement ID: 826588
- Project website

**Status**
- Ongoing project

**Funded under**
- H2020-EU.2.1.1.7.

**Overall budget**
- € 34 558 714,32

**EU contribution**
- € 8 561 598,71

**Coordinated by**
- ICOS VISION SYSTEMS NV
- Belgium

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 Cardiaccs) 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.

**Field of science**

/natural sciences/physical sciences/optics
/medical and health sciences/medical biotechnology/medical bioproducts/implants

**Programme(s)**

**Topic(s)**

**Call for proposal**

H2020-ECSEL-2018-1-IA-two-stage
## Funding Scheme

**ECSEL-IA - ECSEL Innovation Action**

### Coordinator

**ICOS VISION SYSTEMS NV**

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<th>Activity type</th>
<th>EU contribution</th>
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<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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**Website [Link]**

**Contact the organisation [Link]**

### Participants (30)

**ROODMICROTEC GMBH**

- **Germany**
- **EU contribution**: € 377 394,38

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**Contact the organisation [Link]**

**NUROMEDIA GMBH**

- **Germany**
- **EU contribution**: € 178 375

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**Website [Link]**

**Contact the organisation [Link]**

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**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
Germany
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
Germany
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.
Germany
EU contribution
€ 1 264 468,84
Address
Hansastrasse 27C
80686 Munchen
Activity type
Research Organisations
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AALTO-KORKEAKOULU-HSAATIO OY

EU contribution
€ 299 105,63

Address
Yliopistonmäki
20014 Turku

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

YLO EVERON AB

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

EU contribution
€ 218 457,50

Address
Itäinen Pitkäkatu 4
20520 Turku

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

Contact the organisation

TURUN YLIOPISTO

EU contribution
€ 163 437,50

Address
Vakiotie 5
21420 Lieto

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

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Contact the organisation
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**Record number:** 223648

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