THE PUBLIC-PRIVATE PARTNERSHIP KEEPING EUROPE AT THE FOREFRONT OF TECHNOLOGY DEVELOPMENT

Electronic Components and Systems are a pervasive Key Enabling Technology, impacting all industrial branches and almost all aspects of life.

ECSEL JU offers funding for Research, Development and Innovation projects with unparalleled systemic and strategic impact for smart, sustainable and inclusive economic growth.

> NEXT
The Public-Private Partnership keeping Europe at the forefront of technology development.

- Electronic components and systems (ECS) are a pervasive Key Enabling Technology, impacting all industrial branches and almost all aspects of life. A smartphone, a smart card, a smart energy grid, a smart city, even smart governance; everything “smart” is based on integrating semiconductor chips running embedded software. They provide the fabric on which the internet runs; they give life to portable phones and tablets; they drive driverless cars and trains, fly airliners, drones and satellites. In modern times, no national economy can win in the global competition without mastering this technology, with unparalleled systemic and strategic impact.
ECSEL JU Objectives

- Contribute to the development of a strong and globally competitive electronics components and systems industry in the European Union;
- Ensure the availability of electronic components and systems for key markets and for addressing societal challenges, keeping Europe at the forefront of technology development, bridging the gap between research and exploitation, strengthening innovation capabilities and creating economic and employment growth in the Union;
- Align strategies with Member States to attract private investment;
- Maintain and grow semiconductor and smart system manufacturing capability in Europe;
- Secure and strengthen a commanding position in design and systems engineering;
- Provide access for all stakeholders to a world-class infrastructure for design and manufacturing;
- Build a dynamic ecosystem involving Small and Medium-Sized Enterprises (SMEs), strengthening existing clusters and creating new clusters.
ECSEL JU Members

- the European Union (through the Commission);
- Member States and Associated Countries to the Framework Programme Horizon 2020 on a voluntary basis;
- Three associations (EPoSS, AENEAS and ARTEMIS Industry Association) representing the actors from the areas of micro- and nano-electronics, smart integrated systems and embedded/cyber-physical systems.
Scope and Objectives

ECSEL “Multi-Annual Strategic Plan” offers a market-facing Research and Innovation programme for ECS technologies that provides the “Smarts” behind the applications that can help to address these challenges.

The call will be open for the following topics:
CALLS 2016

ECSEL is a partnership between the private and the public sectors for advancing the state-of-the-art in electronic components and systems.

The ECSEL Joint Undertaking is established within the meaning of Article 187 of the Treaty on the Functioning of the European Union for the implementation of the Joint Technology Initiative on 'Electronic Components and Systems for European Leadership' for a period up to 31 December 2024.

The ECSEL Joint Undertaking has legal personality; it is established by Council Regulation which can be downloaded here.

☑️ DEADLINE

- at 17:00:00 Brussels time on 24 May 2016 for Project Outline stage
- at 17:00:00 Brussels time on 20 September 2016 for Full Project Proposal stage

☑️ GENERAL CALL INFORMATION

ECSEL JU opens two concurrent Calls in 2016:
- H2020-ECSEL-2016-1-RIA-two-stage - Research and Innovation Actions (RIA)
- H2020-ECSEL-2016-2-IA-two-stage - Innovation Actions (IA)

Both ECSEL Calls 2016 have two stages, Project Outline (stage 1) and Full Project Proposal (stage 2). The submission of a Project Outline is mandatory, only proposals having submitted a Project Outline will be allowed to submit a Full Project Proposal.

In order to submit a project proposal, applicants must use the on-line tools provided for this purpose by the European Commission through its "Participant Portal", which can be accessed through the Call pages: H2020-ECSEL-2016-1-RIA-two-stage or H2020-ECSEL-2016-2-IA-two-stage.

Full details of the topics open for proposals, terms and conditions for participation and funding budgets are available in the ECSEL JU Work Plan for 2016.

Tekes
The topics for all Calls are described in the ECSEL Multi-Annual Strategic Plan (MASP), document ECSEL-GB-2015.46. This can be downloaded here: **ECSEL MASP 2016**.
(Nota: that the calls in 2016 do not address the “Excellence and competence centres” and the “Innovation support actions”).

Applicants must refer to both these documents in their proposals and must describe their proposal using the **Part B template** (Pdf) for ECSEL-JU. This Part B template showed here is just for reference; the valid Part B template needs to be downloaded during proposal submission via the Participant Portal at the above mentioned ECSEL Call pages: H2020-ECSEL-2016-1-RIA-two-stage or H2020-ECSEL-2016-2-IA-two-stage.

RIA differs from the IA in the technology readiness level focus and, therefore, in the applicable reimbursement rates. For funding rates of the RIA and IA but also for the national contribution please refer to the **ECSEL JU Work Plan for 2016**.

Applicants may submit proposals referring to cost items contributing towards the milestones and deliverables of an action that are independently funded by other European sources.

Applicants must contact the National Funding Authorities (refer to the National contact points for the ECSEL programme in Annex 6 of the ECSEL JU Work Plan for 2016) in their own countries before submitting the proposals to check their eligibility and conditions for receiving national funding.

Beneficiaries from some countries require the submission of Part(s) C (please refer to Annex 6 of the Work Plan for more information). The Part(s) C require encryption/password provided by the ECSEL JU office. The participants are kindly reminded to email the ECSEL JU office to get the password at calls@ecSEL.europa.eu.

Applicants, who wish to submit an Expression of Interest (EoI) for an ECSEL JU Lighthouse Initiative, must use the **EoI template** (pdf) (“3-page document”). The EoI Template shown here is just for reference; the valid EoI template needs to be downloaded during proposal submission via the Participant Portal as indicated for Part B Template above. NO action is needed for the PO phase. The EoI will only be submitted at the FPP Phase (same deadline). For more details, applicants must refer to **ECSEL JU Work Plan 2016** and **ECSEL JU Calls – Guide for applicants 2016**.
Call ECSEL-2016-1
Research and Innovation Actions

2 phases:
- Project Outline (PO), Deadline at 17:00:00 Brussels time on 24 May 2016
- Full Project Proposal (FPP), Deadline at 17:00:00 Brussels time on 20 September 2016

Description:
- An ECSEL Research and Innovation Action (RIA) primarily consists of activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service, method, tool or solution. For this purpose they may include applied research, technology development and/or method/tool and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment.
- The activities have their centre of gravity at TRL 3-4.
2 phases:
- Project Outline (PO), Deadline at 17:00:00 Brussels time on 24 May 2016
- Full Project Proposal (FPP), Deadline at 17:00:00 Brussels time on 20 September 2016

Description:
- An ECSEL Innovation Action (IA) primarily consists of activities aiming at pilot lines, test beds, demonstrators, innovation pilots and zones of full-scale testing. These activities produce plans and arrangements or designs for new, altered or improved products, processes, methods and tools or services. For this purpose they may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.
- The activities have their centre of gravity at the TRL 5-8.
Call ECSEL-2016
Lighthouse Initiative

- Lighthouse initiatives are clusters of high-impact projects that develop, test and deploy innovations in essential areas of key importance to Europe in ecosystems or along the value chain, also involving legal, ethical and financial stakeholders creating a framework for fast market acceptance regulation and standardization, including de facto standards when relevant. This shall unlock barriers and facilitate large scale deployment. This will require considerable efforts from the private partners and therefore deserve the support of the ECSEL JU.
Call ECSEL-2016
Lighthouse Initiative

- The lighthouse initiatives will be picked from RIA or IA proposals that have been selected for funding in 2016. Therefore ECSEL JU will organize a 2-phase evaluation and selection process for the both calls as described in the WP2016. The adoption process for the lighthouse initiatives must comply with this evaluation and selection process and schedule.
Those consortia that want can also submit a “3-page” description of their proposal for a lighthouse initiative (an Expression of Interest EoI). The EoI would contain a description, a motivation and answer specific questions as to their lighthouse initiative proposal as well as provide concrete details of the envisioned activities, organization, etc. It should be submitted by mail to a special mailbox with the same deadline as the FPP.

Those EoIs are collected and transmitted to:
- the PAB before the meeting for the selection decision (*under discussion*)
- the Private Members *after the selection decision* by the PAB
Call ECSEL-2016
Lighthouse Initiative

- As was pointed out in the first paragraph, it is recognized that lighthouse initiatives will require a considerable effort from the partners and therefore will deserve the support of the ECSEL JU. No direct financial incentive is foreseen for the lighthouse initiatives in 2016.

- Nonetheless ECSEL JU will provide support to the lighthouse initiatives within its legal and financial constraints proper to the JU. This support will be defined together with the consortia of the adopted lighthouse initiatives. It can for example consist of (non-exclusively) incentives like:
  - Recognition/visibility for example by prominent position in ECSEL dissemination events,
  - Ambassador role at public events such as ENF, EP-events, etc
  - Highlighting the initiatives in various documents such as the Multi Annual Strategic Plan and attention in Work Plan on proposal of the lighthouse initiative
  - Funding of accompanying studies on strategies, markets by ECSEL (tender procedure) on proposal of the lighthouse initiative
  - Organisation by ECSEL of intergovernmental working groups through PAB to address some of the non technical issues (e.g. regulatory) on proposal of the lighthouse initiative
  - Organisation by ECSEL of workshops, conferences, etc. on proposal of the lighthouse initiative
  - Other instruments like prizes, CSA, tenders could be used to fund part of the lighthouse proposals as to accompanying measures.
  - Etc.
Kansalliset tavoitteet

- Suomessa ECSEL liittyy Tekesin Teollinen internet – liiketoiminnan vallankumous -ohjelmaan

Hallitusohjelman kärkihankkeiden ja Tekesin tavoitteita:
- **PK-yritykset**: Uudet tuotteet ja palvelut pääsevät kansainvälisille markkinoille ja onnistuneet läpimurrot kasvattavat vientiä.

- **Suuret yritykset**: Suurta ja kansantalouden kannalta merkittävää uudistumista sekä osaamista ja liiketoimintamahdollisuuksia kumppaneille synnyttävään yhteistyöhön.

- **Julkiset organisaatiot**: Vauhdittaa taloudellisten ja yhteiskunnallisesti hyöytylisten osaamisten, verkostojen ja tutkimustulosten synnyttämistä ja siirtymistä elinkeinoelämän hyödynnettäväksi.

- **Kaikki**: Kannustaa suomalaisia tutkimus- ja innovaatiotoimijoita hyödyntämään eurooppalaisa osaamista, verkostoja ja rahoitusta sekä edistää digitaalisuutta.
ECSEL Suomessa 2014-15

Haettuja projekteja
- 2014 48 projektia (34 RIA + 14 IA) / 1370 partneria (Finland 96 => 7,0 %)
- 2015 62 projektia (51 RIA + 11 IA) / 1564 partneria (Finland 119 => 7,6 %)

Suomalaisia osallistumisia
- RIA Call 2014-1: suomalaisia osallistujia 15/34 projektissa, yhteensä 66
- IA Call 2014-2: suomalaisia osallistujia 9/14 projektissa, yhteensä 30
- RIA Call 2015-1: suomalaisia osallistujia 21/51 hankkeesta, yhteensä 96
- IA Call 2015-2: suomalaisia osallistujia 5/11 hankkeesta yhteensä 23

Rahoitettavia projekteja
- RIA Call 2014-1: suomalaisia osallistujia 3/6 projektissa, yhteensä 15
- IA Call 2014-2: suomalaisia osallistujia 4/7 projektissa, yhteensä 7
- RIA Call 2015-1: suomalaisia osallistujia 3/8 hankkeesta, yhteensä 14
- IA Call 2015-2: suomalaisia osallistujia 1/5 hankkeesta yhteensä 4
National Cost and Req. National Funding

Call 2014
Call 2015

RIA
IA

ECSEL JU

PAB 18 November 2015
Oversubscription per country

PAB 18 November 2015
National Eligibility Finland
Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants
   - Companies (enterprises)
   - Industry associations
   - Universities and polytechnics
   - Public research institutes and similar research organizations

2) Legal, administrative and financial conditions
   - A company has considerable industrial or R&D&I activities in Finland
   - A company has a clear financial record and has the financial capability to cover its own expenses during the project (e.g. the company must show positive equity at decision taking)
3) Consortium configuration

- A public research institute, university or a polytechnic shall be accompanied in the project by at least two eligible companies in Finland.

- Research and Innovation Actions (RIA) projects: The project volume (costs) of public research institutes, universities and polytechnics from Finland combined shall not exceed 50% of the total volume (costs) of Finnish participants based on national (Tekes) funding rules.

- Innovation Action (IA) projects: The project volume (costs) of public research institutes, universities and polytechnics from Finland combined shall not exceed 30% of the total volume (costs) of Finnish participants based on national (Tekes) funding rules.
4) Other conditions

- The project participation should have sufficient positive impact on the Finnish economy or society.

- Priority is given to the topics that are not covered by the ECSEL Call 2014 and Call2015 funded projects.
ECSEL JU Funding

For ECSEL Call 2016-1.

<table>
<thead>
<tr>
<th>Research and Innovation Actions</th>
<th>Large Enterprises</th>
<th>Small and Medium Enterprises</th>
<th>Public Research Institutes and Universities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tekes (national funding rules)</td>
<td>20% grant</td>
<td>35% grant</td>
<td>38% grant</td>
</tr>
<tr>
<td>ECSEL JU (H2020 eligible costs)</td>
<td>25% grant</td>
<td>30% grant</td>
<td>35% grant</td>
</tr>
</tbody>
</table>

Finland: Estimated allocation 3,5 M€
EU: Estimated expenditure: 65 M€
## ECSEL JU Funding

For ECSEL Call 2016-2.

<table>
<thead>
<tr>
<th>Innovation Actions</th>
<th>Large Enterprises</th>
<th>Small and Medium Enterprises</th>
<th>Public Research Institutes and Universities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tekes (national funding rules)</td>
<td>20% grant or Max. 50% loan</td>
<td>35% grant or Max. 50% loan</td>
<td>38% grant</td>
</tr>
<tr>
<td>ECSEL JU (H2020 eligible costs)</td>
<td>20% grant</td>
<td>25% grant</td>
<td>35% grant</td>
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</table>

Finland: Estimated allocation 1,5 M€
EU: Estimated expenditure: 85 M€
## Commitments to Call 2016

<table>
<thead>
<tr>
<th>EPS</th>
<th>Committed funding 2016</th>
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</thead>
<tbody>
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<td>AT</td>
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<tr>
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<td>RO</td>
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<td>SE</td>
<td>5,500,000</td>
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<td>SI</td>
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<tr>
<td>SK</td>
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<td>UK</td>
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<tr>
<td>EC</td>
<td>150,000,000</td>
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<tr>
<td><strong>Total</strong></td>
<td>299,800,000</td>
</tr>
</tbody>
</table>
Call 2016 Schedule

15 March  Call launch
(www.ecsel-ju.eu/web/index.php)

13-14 April  ARTEMIS Industry Association organizes the 7th edition of the ARTEMIS Spring Event

3 May  “ECSEL Call Forum 2016”

24 May  Deadline PO phase

June  Inform the applicants of the decision on their application

Only proposals which successfully passed the PO phase are eligible to the FPP phase.

20 September  Deadline FPP phase

4 October  Deadline Tekes funding application

December  Funding decision, communication to parties
ARTEMIS Industry Association organises the seventh edition of the ARTEMIS Spring Event

Tuesday 13 April - starting at 14:30
Wednesday 14 April - finishing at 16:00

This year the ARTEMIS Industry Association organises the seventh edition of the ARTEMIS Spring Event on 13 & 14 April in Vienna, Austria. Our event is co-located with the CPS Week, which will take place from 11-14 April 2016 in the Hofburg Palace. We would like to invite you to our two-day event and to be a part of the release of the 2016 Strategic Research Agenda and to join the 'Smart Cyber-Physical Systems - EC Clustering Event' which is organized by the Horizon2020 project Road2CPS in collaboration with ARTEMIS-IA and the European Commission.
ARTEMIS Spring Event

DAY 1 – 13 April 2016

At day one of this Spring Event, ARTEMIS will release the 4th edition of the Strategic Research Agenda which showcases even more how Embedded Intelligence are the neural system of society and an essential part of the solution to major societal challenges in Europe and beyond. Besides the SRA release, you can visit keynote speeches and an interesting panel discussion on the relevance of R&I in Embedded Intelligence.

DAY 2 – 14 April 2016

'Smart Cyber-Physical Systems - EC Clustering Event' is the theme of the second day and will bring together about 150 experts from academia, industry and policy-making to learn about and discuss highlights of Cyber-Physical Systems projects from Horizon2020 and ARTEMIS. This day is particularly set to foster exchange on and creating synergies regarding CPS innovation perspectives and generating strategies for the future.
ECSEL Call Forum 2016

Tuesday 3 May - starting at 9:00

ECSEL JU is organising an **ESCEL Call Forum 2016** on the Calls for Proposals to be launched in 2016. The event targets potential applicants for the calls for Research and Innovation Action (RIA) and Innovation Action (IA) under the ECSEL funding scheme. It is an opportunity to learn more about the upcoming calls and the project submission process, as well as to meet consortium partners and draft project ideas. The event will take place on 3 May 2016 (9am - 5pm) in **Sheraton Brussels Airport Hotel**.