INNOVATION STRATEGY

The ARTEMIS innovation strategy has three main application contexts, based on the exploitation of European strengths and opportunities by:

> Building on the leading positions where Europe is strong, in specific technologies and in various application domains, particularly for the safety-critical, high-reliability real-time applications in the field of automotive, aeronautics, space and health sectors.

> Creating new opportunities for Europe to be positioned at the forefront of new or emerging markets with high potential growth rates, to become the world leader in these domains and particularly target smart manufacturing industries, smart cities with energy efficient buildings, food and agriculture.

BECOME A MEMBER

ARTEMIS Industry Association offers a powerful network for building partnerships with other participants in ECSEL-JU projects. On a larger scale, its members help to shape the R&I environment for Embedded & Cyber-Physical Systems in Europe. Through ARTEMIS Industry Association your R&I interests will be heard by the European Commission and participating states, to raise their interest for the future of Embedded & Cyber-Physical Systems in Europe, which is essential to attaining world-class leadership in this domain to support the European industry.

Go to www.artemis-ia.eu to apply for membership.

WHY JOIN?

ARTEMIS Industry Association members co-define the pan-European SRA (Strategic Research Agenda) on Embedded & Cyber-Physical Systems.

Co-define the ECSEL-JU strategy and work programme technical contents; bring your technology priorities into the programme.

Help to raise the awareness of policymakers for the advantage of RI in Cyber-Physical Systems for the competitiveness of European industry.

More members make the ARTEMIS Industry Association voice stronger, for more impact on participating states, the ECSEL Joint Undertaking strategy and the European Commission.

ARTEMIS Industry Association is an excellent meeting place for forming collaborative consortia, either for ECSEL-JU projects or for larger-scale innovation clusters (‘Innovation Environments’).

Participate in the networking Community to meet your technology partners, technology suppliers and customers.

ARTEMIS Industry Association members enjoy free access to first-hand information and support in the ECSEL-JU Calls for projects.

Members are able to join the ARTEMIS Working Groups, such as Tool Platforms and Centres of Innovation Excellence and the ARTEMIS Innovation Pilot Projects (AIPP).

Teaming up with ARTEMIS Industry Association is teaming up with a powerful network of over 180 members from all over Europe.
### ARTEMIS Industry Association

ARTEMIS Industry Association is THE association for actors in Embedded & Cyber-Physical Systems (E&CP) in Europe. As a private partner, the association represents its members: industry, SMEs, universities and research institutes - in ECSEL Joint Undertaking.

**ARTEMIS Industry Association** continuously promotes the R&I needs of its members to the EuropeanCommission and the Public Authorities of the European participating states. The association embodies the European Technology Platform ARTEMIS and is therefore responsible for the Strategic Research Agenda (SRA) on Embedded & Cyber-Physical Systems, which reflects the position of the membership provides an excellent platform for the exchange of technology ideas, cross-domain formation, as well as for large innovation initiatives.

### ARTEMIS INDUSTRY ASSOCIATION STRATEGY

ARTEMIS Industry Association strategy is its Strategic Research Agenda (SRA) on Embedded & Cyber-Physical Systems.

**Call for large innovation initiatives.**

**Rules of operation, supervision.**

**Participating States.**

**Semicon Equipment Materials.**

**Smart Production.**

**Smart Systems Integration.**

**Cyber-Physical Systems.**

**Design.**

**Screening Process Equipment Materials.**

**Smart Mobility.**

**Smart Energy.**

**Smart Health.**

**Key Applications.**

**Smart Society.**

### PREVIOUS SUCCESSES

ARTEMIS Industry Association has been the private partner in the ECSEL JU, undertaking programme of total of 18 billion cost, covering almost all participating state support, added with own EUR 80M of Funding from the European Commission.

In ARTEMIS-JU merged into ECSEL JU in June 2014 and since the ARTEMIS Industry Association became one of the three private partners in ECSEL Joint Undertaking.

All ongoing ARTEMIS projects will continue within ECSEL Joint Undertaking.

### ARTEMIS Innovation Environment

ARTEMIS Industry Association supports the Innovation Environment around Embedded and Cyber-Physical Systems by the ARTEMIS Working Groups.

**Labeling processes** have been established for “Innovation Excellence Awards” for each of the EU and for “Tour Partner”. The ARTEMIS Community has also designed the concept of ARTEMIS Innovation Fund Projects (AIP), major projects aiming for a large economic impact, created to find the capitalisation and dissemination of the labelling processes.

**We believe that it is important to involve the key players in the Embedded & Cyber-Physical world.**

**The ARTEMIS Innovation Environment enables to sustain the expertise gained in projects and their associated networks of partners, in larger innovation projects or even in Centres of Innovation Excellence.**

### ARTEMIS Innovation Environment

**ARTEMIS Innovation Environment is very keen on working together with other organisations in Europe to strengthen the overall position of the European Industry, to exchange knowledge for sustainable results and to help create a pan-European industrial strategy.**

**The ARTEMIS Industry Association** co-established the ARTEMIS-ITEA Coordination Committee (ACC) to maintain a continuous open dialogue with the ITEA (ITEA) clusters, which has already resulted in:

- Two annual Co-Summit Events
- Shared document on the future of ICT in Europe: High-Level Vision 2030

### ECSEL-JU PROGRAMME

**ECSEL-JU Programme** for Embedded & Cyber-Physical Systems for Europe's Leadership

The ECSEL-JU programme started by the merge of ARTEMIS-JU and ENIAC-JU in June 2014 and is about to last 5 years. Three industry associations (including ARTEMIS Industry Association) represent actors from the areas of Materials, Semicon Equipment & Materials and Cyber-Physical Systems and Smart Systems. The ECSEL-JU programme supports SMEs and large companies in several key application areas by funding technology areas essential capabilities.

**Smart Systems Integration.**

**Cyber-Physical Systems.**
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ARTEMIS Industry Association supports the strengthening of European industry and addressing societal challenges (more info High-Level Vision 2030 ITEA & ECSEL) and the alignment of research agendas for Embedded & Cyber-Physical Systems.

Many high-tech industrial systems are classified as Cyber-Physical Systems (CPS). It is the close interdependence of communication, computation and control elements (the cyber part), and physical processes such as motion and vibration (the physical part).

It is nowadays widely recognized that Embedded & Cyber-Physical Systems technology is a crucial key enabling technology for European and societal future. These systems form the basis for the development of many innovative products and services that are currently helping and will continue to help us in our daily lives.

A self-sustaining Innovation Environment for Europe, along with security and safety, enables smart objects to be connected everywhere and always. Life in our society, along with banking and payment systems, mobile phones and factories (industrial automation), medical devices, homes, offices and transport networks, to mention a few. They are interconnected via information, communication and physical processes such as motion and vibration, using a mix of infrastructures, the internet and physical systems.

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ARTEMIS Industry Association is THE association for actors in Embedded & Cyber-Physical Systems (E/CPS) industry in Europe. It is the leader in the field of innovation and technology policy and has a unique role in the development of the digital transformation, in particular the digitalisation of society. The association is committed to the European strategic priorities in the strengthening of European industry.

ARTEMIS Industry Association, in close cooperation with the European Commission, has designed and defined a Strategy for the Future of Embedded & Cyber-Physical Systems, which reflects the European participating states.

ARTEMIS INDUSTRY ASSOCIATION STRATEGY

In its Strategic Research Agenda the Association focuses on:

- the European strategic priorities in addition to the individual interests of companies and countries, upstream and downstream.

ARTEMIS Industry Association aims to create the Innovation Environment for European leadership in Embedded & Cyber-Physical Systems:

- a full development of the innovation potential of SMEs in Embedded & Cyber-Physical Systems,
- the strengthening of European industry and addressing societal challenges (more info: High-Level Vision 2030 ITEA & ARTEMIS).

The ARTEMIS Industry Association supports the Embedded & Cyber-Physical Systems form the national system of society.

ECSEL-JU PROGRAMME

The ECSEL-JU programme started by the merger of ARTEMIS-JU and MEMC-JU in June 2014 and is funded by the EC. Three industry associations (including ARTEMIS Industry Association) represent actors from the areas of Embedded & Cyber-Physical Systems and their ecosystems. The ECSEL-JU programme aims to ensure sustainable and competitive projects in several key application areas, not least by enabling technology areas (inertial navigation). The ARTEMIS Industry Association supports the Innovation Environment around Embedded and Cyber-Physical Systems by the ARTEMIS Working Groups. Labelling processes have been established for “Europe of Excellence” (CoIE) and for “Tour Partner”. The ARTEMIS Industry Association also has defined the concept of ARTEMIS Innovation Fund Projects (AIPPs), major projects aiming for a large economic impact, created by more than 3 billion ECU and typically requiring several steps closer to the market. The ARTEMIS Innovation Environment span the whole value chain and includes SMEs, research institutes and large companies to enable to master the immense complexity of future Embedded & Cyber-Physical Systems. The ARTEMIS Industries single company can fully master technology challenges involved by itself.

ARTEMIS Industry Association actively nurtures thematic inter-project cooperation, for example by means of special events like the ARTEMIS Technology Conference. The association has also established a Repousy诩y project results. We believe that it is important to continue the high-tech SMEs, since they are an important link in the value chain for systems and solutions and are expected to play an essential role in the development of the digitalisation of society.

Because collaboration with large industry is considered crucial for SMEs, the innovation environment would support by ARTEMIS Industry Association offers the proper mechanisms to facilitate this synergy with the key players in the Embedded & Cyber-Physical world. The ARTEMIS Innovation Environment enables to sustain the expertise gained in projects and associated their networks of partners, in larger innovation projects or even in Centres of Innovation Excellence.

ARTEMIS Innovation Environment

COOPERATIONS

ARTEMIS Industry Association is very keen on working together with other organisations within Europe to strengthen the overall position of the European industry. The Association would also like to have a strong representative role for small and medium-sized enterprises (SME) in order to increase their visibility and strengthen their position in the market. The ARTEMIS Industry Association (AICC) is a public-private partnership (PPP) managed by the European Commission and represents its members - industry, SMEs, research institutes - in the ECSEL Joint Undertaking.

ARTEMIS-JU merged into ECSEL-JU in June 2014 and since the ARTEMIS Industry Association became one of the three private partners in ECSEL-JU.

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INNOVATION STRATEGY

The ARTEMIS innovation strategy has two components: the application contexts, based upon exploitation of European strengths and opportunities by:

- Building on the leading positions where Europe is strong, in specific technologies and in various application domains, particularly the safety critical high reliability real-time applications in the field of automotive, aeronautics, space and health sectors.
- Creating new opportunities for Europe to be positioned at the forefront of new or emerging markets with high potential growth rates. To be among the world leaders in these domains and particularly target smart manufacturing industries, smart cities with energy efficient buildings, food and agriculture.

BECOME A MEMBER

ARTEMIS Industry Association offers a powerful network for building partnerships with other participants in ECSEL-JU projects. On a larger scale, its members help to shape the R&I environment for Embedded & Cyber-Physical Systems in Europe. Through ARTEMIS Industry Association your R&I interests will be heard by the European Commission and participating states, to raise their interest for the future of Embedded & Cyber-Physical Systems in Europe, which is essential to attaining world-class leadership in this domain to support the European industry.

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WHY JOIN?

ARTEMIS Industry Association members:

- Co-develop the ECSEL-JU strategy and work programme technical contents, bringing your technology priorities into the programme.
- Help to raise the awareness of policymakers for the importance of R&I in Cyber-Physical Systems for the competitiveness of European industry.
- More members make the ARTEMIS Industry Association voice stronger, for more impact on participating states, the ECSEL Joint Undertaking strategy and the European Commission.

ARTEMIS Industry Association is an excellent meeting place for forming collaborative consortia, either for ECSEL-JU projects or for larger-scale innovation clusters ('Innovation Environments').

Participate in the networking Community to meet your technology partners, technology suppliers and customers and form consortia for future projects.

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