Inside
Industry Association

Proud member of
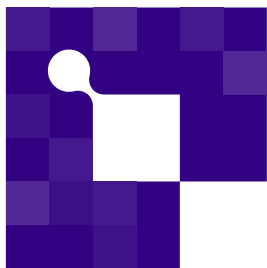
ChipsJU

Creating Intelligent Systems together

www.inside-association.eu

Who we are

INSIDE Industry Association is the European Technology Platform for research, design and innovation on Intelligent Digital Systems and their applications.

Inside

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What we offer

Learn

Learn from the community, share research efforts to speed up innovation and create Intelligent Digital Systems together. Join our workshops, events, and network. You will learn from a community which gathers the most innovative players, corporations, and research institutes amongst the top patent depository in their field.

Network

Be part of a rich, diverse and interdisciplinary network of experts, benefit from cross-domain fertilisation and interact with peers and key players in the context of European research, design and innovation.

Boost

Boost your visibility in the community via our publications and events and establish new relationships with stakeholders over the complete Electronic Components and Systems (ECS) value chain. Keep at the state of the art and beyond, and boost your competitiveness.

Shape

'Shape the future' by co-defining the European strategy, roadmap and priorities of European collaborative research in the domain of Intelligent Digital Systems, annually co-edit the ECS Strategic Research and Innovation Agenda (ECS-SRIA), and contribute to domain-specific reports and white papers.

Inspire

A vibrant, creative, agile and interdisciplinary community inspires innovation, which is nothing like business as usual and, with the support of the European Commission and Member States, help raising awareness about the relevance of Intelligent Digital Systems for Europe.

Build

Join consortia, build project proposals, and get financial support with instruments such as the Chips4EU (Chips Act Pillar 1), which includes and extends the KDT. Generate innovation in the domain of embedded and cyber-physical systems, edge computing and intelligent embedded software, hyper-connected & high-performance embedded systems, dependable & trustworthy ECS, IoT and system of systems, autonomous, adaptative, intelligent & evolutionary technologies, engineering methods and tools, engineering automation and ECS lifecycle management. Contribute to the development of key application domains, such as mobility, digital industry, energy, healthcare and wellbeing, agrifood & natural resources, and digital society.

Share

Share a European common vision and approach in order to reach the required critical mass, to create an ecosystem, to reduce the risks connected to innovation, to address geopolitical, societal, economic issues and challenges together, and to ensure the impact of innovation on our businesses and lives for a better, safer, and sounder future.

Intelligent Digital Systems

Focus areas

Embedded & Cyber-Physical Systems: Hardware, Software and Connectivity

Edge Computing & Embedded Artificial Intelligence

Hyper-connected & High-Performance Embedded Systems

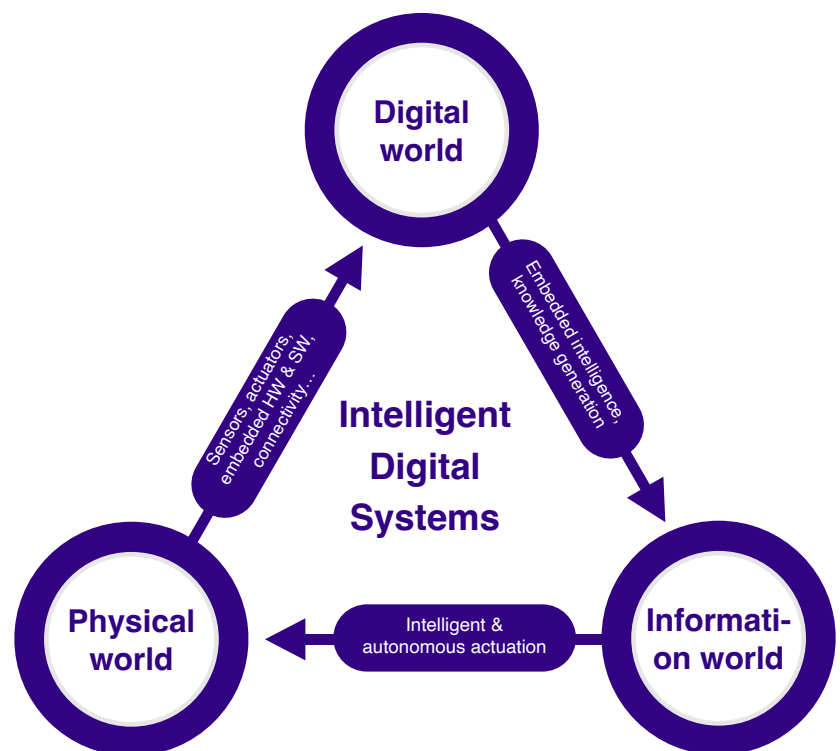Dependable & Trustworthy ECS (security, safety, reliability, explainability, …)

IoT & SoS Integration, Monitoring and Management

Autonomous, Adaptive, Intelligent and Evolutionary Technologies

Engineering Methods and Tools, Engineering Automation and ECS Lifecycle Management *

Education & Professional Training *

Cross focus areas

Digital world

Embedded intelligence, knowledge generation

Sensors, actuators, embedded HW & SW, connectivity...

Intelligent Digital Systems

Physical world

Intelligent & autonomous actuation

Information world

INSIDE believes that there are no sharp delineations between technologies, which should not be considered in isolation: technology domains are not silos. It is from interdisciplinarity, from the combination of technologies, that innovation emerges and flourishes, generating new solutions at the state of the art and beyond, unlocking new business opportunities and creating added value in many application domains.

Intelligent Digital Systems enrich and extend the link between the Physical and Cybernetic worlds, bridging them to the Information world: the transformation of raw data into valuable knowledge, insights, and actionable information, represents the fundamental asset required to improve decisional processes, empowered by the capability of digital systems to make decisions autonomously.

Intelligence enables a fundamental change to existing systems, procedures, and processes. It allows to control complexity more efficiently and cost-effectively, introduce novel and advanced functionalities, support the evolutionary nature of ECS, improve the interaction with humans, enable new vertical applications, and improve sustainability and resilience. Intelligence plays a crucial role in the digital transformation of the key application domains in Europe, particularly on the field (the edge).
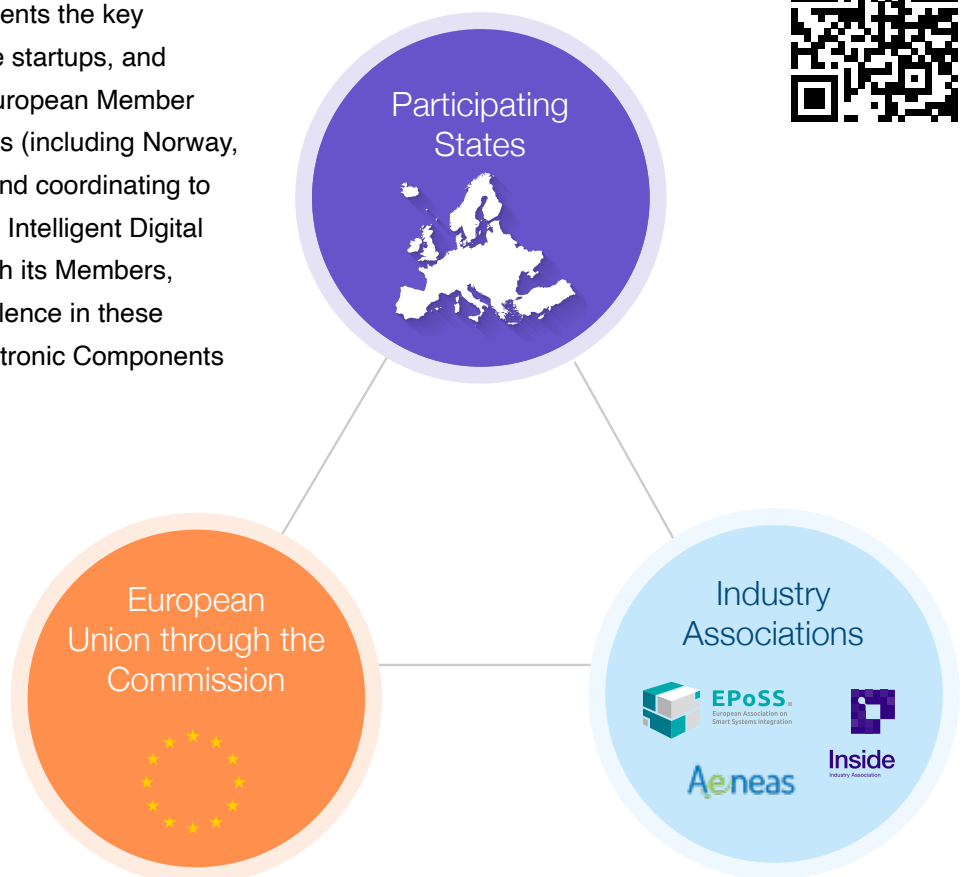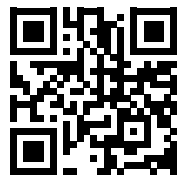
Our partners

INSIDE Industry Association is one of the three private partners of the Chips JU a Joint Undertaking based on a tripartite governing model between the Participating States, the European Commission and the private sector as represented by three Industry Associations. Together, we strive to ensure that the industrial world and academic community are supported and get funds contributing to the creation of innovative, competitive, trustworthy, and sustainable solutions for European industry and key application domains in respect of European values.

INSIDE Industry Association represents the key industrial players, SMEs, innovative startups, and research organisations, from the European Member States and other participating States (including Norway, Israel and Canada), collaborating and coordinating to develop a vision and a roadmap for Intelligent Digital Systems and their applications. With its Members, INSIDE represents European excellence in these domains and covers the entire Electronic Components

and Systems value chain, from semiconductor manufacturers to system integrators, connectivity providers, software companies, vertical applications, and final users.

In this context, INSIDE is one of the three associations responsible for the ECS Strategic Research and Innovation Agenda, which forms the basis of the calls of the KDT, Xecs and the future Chips Act, also inspiring a wider set of European Research Programmes (https://ecssria.eu/).

Participating
States

European
Union through the
Commission

Industry
Associations

EPoSS
European Association on
Smart Systems Integration
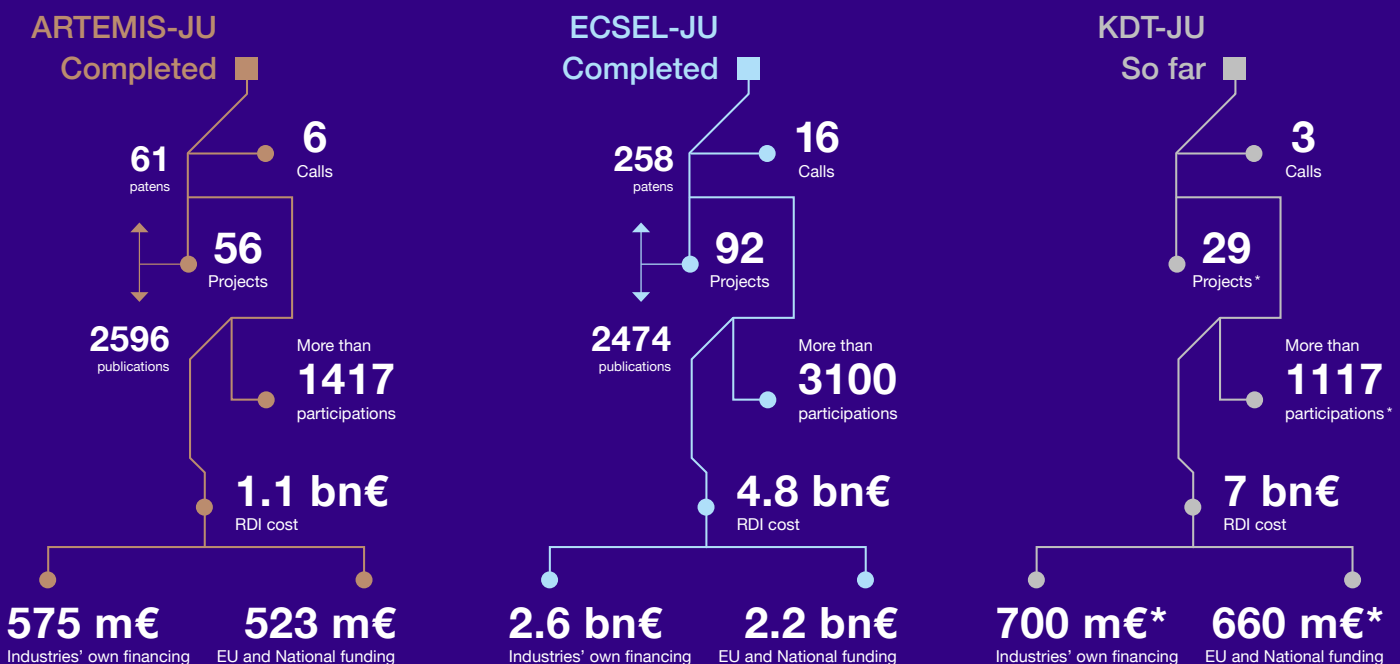
Inside
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Are you in?

INSIDE Industry Association is a community with more than 250 key players in European Research and Innovation that are active in Intelligent Digital Systems and in the ECS domain. Join the association and team up with a network of excellence, delivering innovation and impact along the entire value chain! Together, we strengthen Europe's position in Intelligent Digital Systems, strive for leadership in this domain and aim to become front-runners at global level.

Become an 'INSIDEr' and take advantage of the opportunities and benefits offered by INSIDE Industry Association. **Network, create and innovate together: the value is INSIDE!**

Building success

Since 2004, our Association (then called ARTEMIS-IA) has been creating a network of industrial players and RTOs, enabling the creation of consortia and providing support to more than 150 R&D&I projects, the publication of hundreds of papers and patents, the prototyping of technologies through hundreds of demonstrators and pilots, and the mobilisation, together with the other two associations, of around six billion euros of investments. INSIDE has attracted the top patents depository entities in Europe (in defence, mobility, health, whether small or big companies, whether private or public actors). As a partner in the KDT and its successor Chips JU, our aim is to build upon this success, strengthening our position in ECS and Intelligent Digital Systems, contributing to the European strategic autonomy in these domains and exporting European excellence globally.

ARTEMIS-JU Completed

- 61 patens
- 6 Calls
- 56 Projects
- 2596 publications
- More than 1417 participations
- 1.1 bn€ RDI cost
- 575 m€ Industries' own financing
- 523 m€ EU and National funding

ECSEL-JU Completed

- 258 patens
- 16 Calls
- 92 Projects
- 2474 publications
- More than 3100 participations
- 4.8 bn€ RDI cost
- 2.6 bn€ Industries' own financing
- 2.2 bn€ EU and National funding

KDT-JU So far

- 3 Calls
- 29 Projects*
- More than 1117 participations*
- 7 bn€ RDI cost
- 700 m€* Industries' own financing
- 660 m€* EU and National funding

Call 2021 and 2022 only

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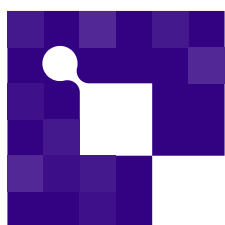
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