



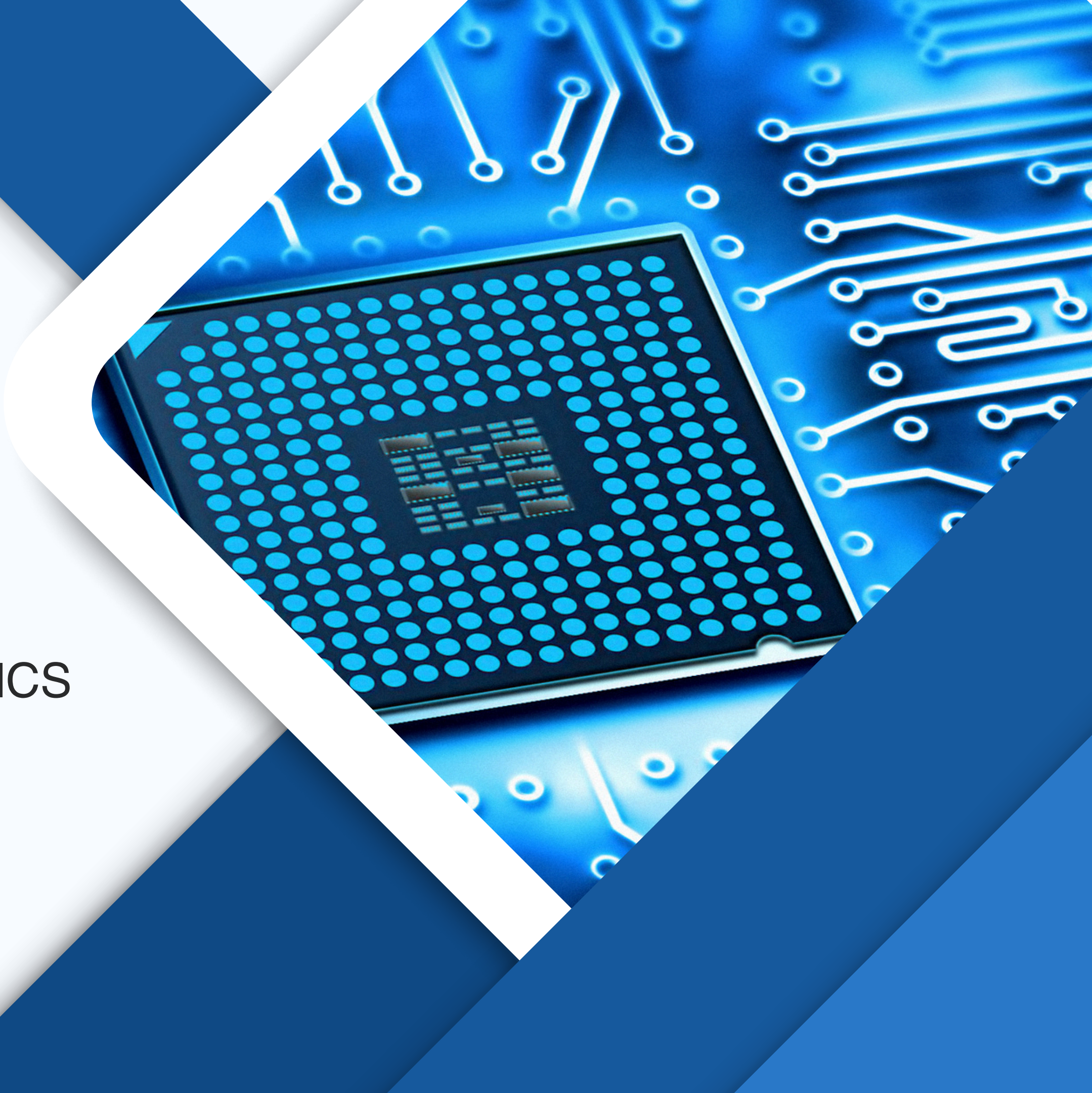
MicroNanoSpain

SPANISH CHIPS COMPETENCE
CENTRE FOR MICROELECTRONICS



Presented By:

ALFONSO GABARRON



INTRODUCTION

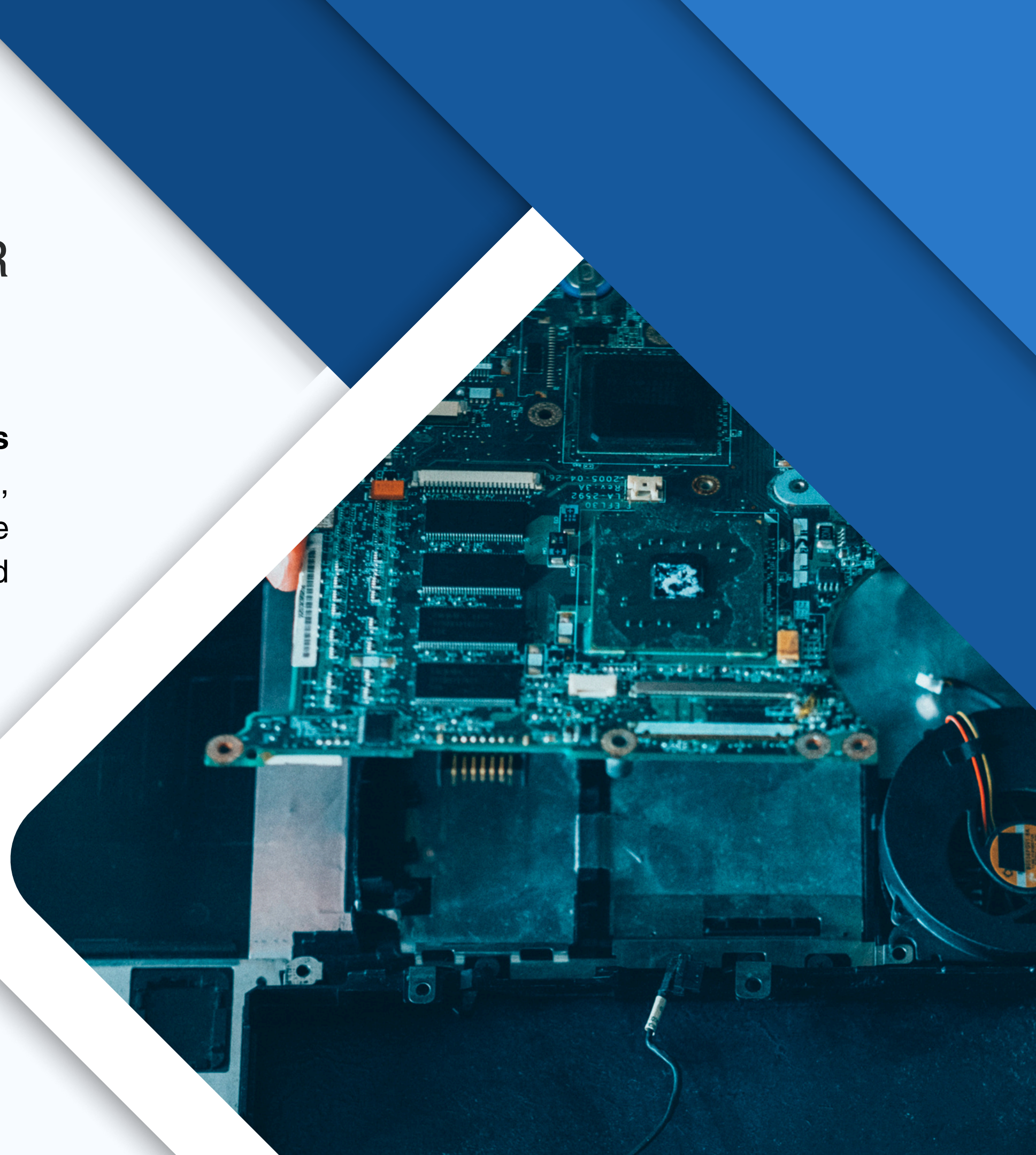
AESEMI - SPANISH SEMICONDUCTOR INDUSTRY ASSOCIATION

AESEMI is the **national organization representing Spain's semiconductor ecosystem**. It brings together manufacturers, design houses, equipment and material suppliers, service providers, universities, research centers, public institutions, and innovative start-ups, gathering more than 100 members.

Dynamizing the ecosystem

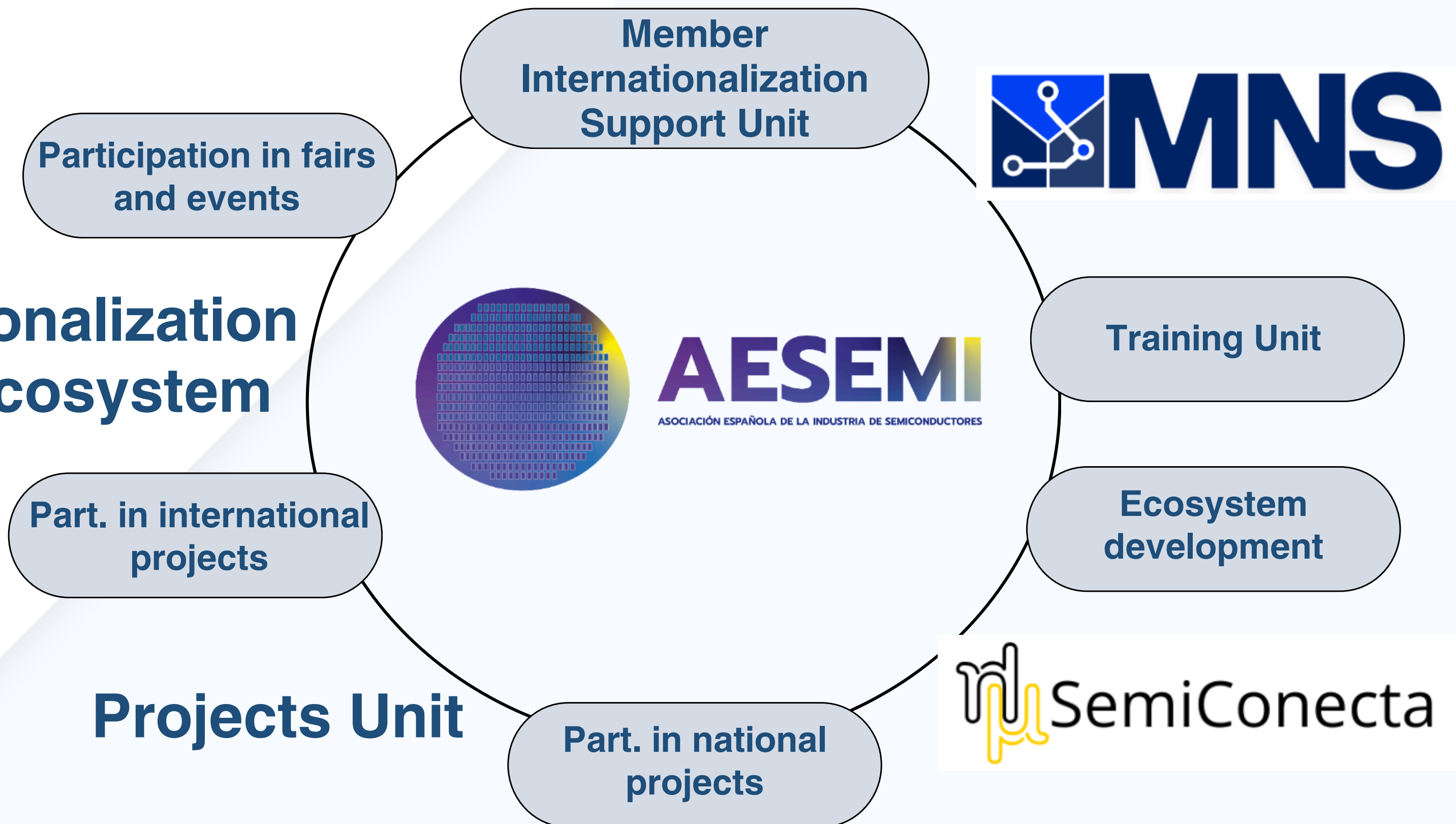
The association drives collaboration on present and future technology trends such as neuromorphic computing, advanced manufacturing, integrated photonics, quantum technologies, and RISC-V to dynamize and stimulate the ecosystem.

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OUR SPHERE OF ACTION

Internationalization of the ecosystem



SOME INFO ABOUT COMPETENCE CENTERS

Centers will provide **access to semiconductor expertise and experimentation**, helping companies to **address and improve design capabilities and competency development**.

Each competence center must be connected and become part of the European network of semiconductor competence centers and act as an access point to other nodes in the network.



Facilitate Access to Pilot
Lines



Provide training and capacity
building



Support in the search for
investment



Permeate relevant industry
verticals

MICRONANOSPAIN APPROACH

MNS will act as a centralizing and agglutinating node of capacities and knowledge, national and community, and cohesive of the ecosystem, which we will develop in three pillars of action



MNS is structured around three strategic pillars. The first, Access to TI, provides a unified platform to access Spain's semiconductor design, manufacturing and research infrastructures. The second, Workforce Development, focuses on building talent through a broad training catalogue developed together with the ecosystem. The third, Ecosystem Development, drives entrepreneurship and innovation through a Venture Builder, an Open Innovation Lab, and a Pledge Fund to attract private investment and accelerate technology transfer across the value chain.

**Access to
Technology
Infrastructure**

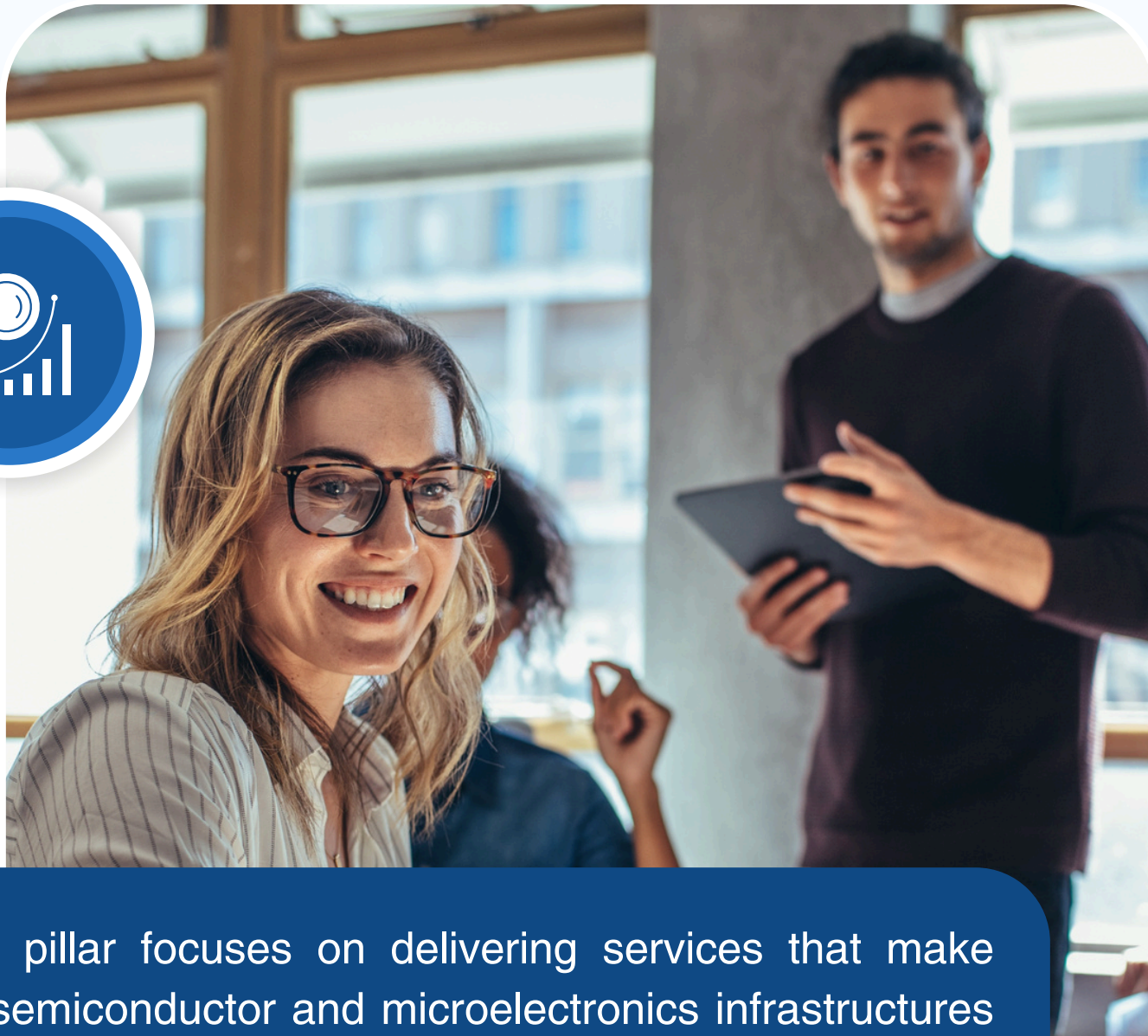


**Workforce
Development**



**Ecosystem
Development**





The first pillar focuses on delivering services that make Spain's semiconductor and microelectronics infrastructures openly accessible. Through a centralised digital platform, users can request guidance, access to cleanrooms, prototyping facilities, advanced design tools, and technical consultancy from top universities, research centres, and private companies. Services also include subsidised access schemes for SMEs and startups, integration with European pilot lines, and support in connecting with design platforms. This approach ensures that companies and researchers can obtain cutting-edge capabilities efficiently, reducing entry barriers and accelerating innovation

PILLAR I: ACCESS TO TECHNOLOGY INFRASTRUCTURE

The Pillar will bring together the existing capabilities in microelectronics, semiconductors and associated technologies demanded by the ecosystem, whether at the level of specialized machinery, design capabilities or specialized personnel.

WHAT WILL USERS FIND

ICTS MICRONANOFABS network
(IMB-CNM, ISOM-UPM, NTC-UPV)



17+ universities and R&D centres



Connection with EU pilot lines and
design platforms



OUR NETWORK

MICRONANOFABS

MICRO
nano
FABS



WORKFORCE DEVELOPMENT

This pillar delivers services that build and connect talent in semiconductors. It offers a catalogue of training programmes from vocational to doctoral level, including online courses, certifications, and industry-focused workshops. The platform also hosts a specialised job and internship marketplace, providing direct links between trained professionals and industry needs. Services further include access to scholarships, credentialing systems, and tailored programmes for priority groups, ensuring both inclusivity and long-term workforce development



Open training catalogue:
Vocational Training to PhD and
technical courses/ certifications



Specialised job and internship
board



Develop technical trainings to
cover existing gaps




Acctions towards the
Inclusion of priority groups



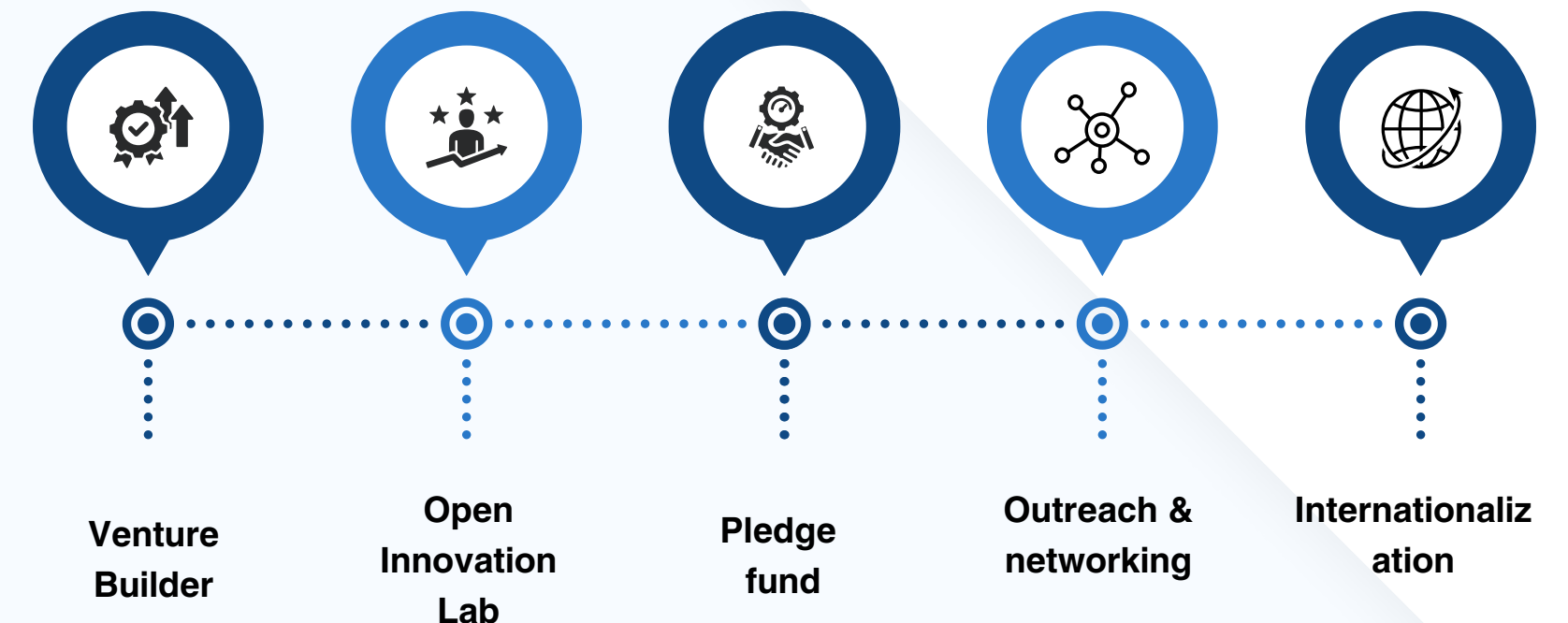
Acctions to promote STEM
careers

ECOSYSTEM DEVELOPMENT

This pillar drives innovation through services that link research, industry, and investment. It hosts a **Venture Builder** to support startups with mentoring, prototyping, and go-to-market strategies, and an **Open Innovation Lab** where companies can launch challenges to the ecosystem. Additional services include investment matchmaking via a Pledge Fund, **guidance on funding opportunities**, **consortium-building support**, and **international promotion**.



Knowledge Transfer is essential to bridge the gap between scientific excellence and industrial application. Without effective transfer, advances in research remain underutilised; with it, they become drivers of innovation, new companies, and strategic autonomy. By enabling collaboration, supporting technology spin-offs, and connecting knowledge with investment, this pillar ensures that Spain's expertise translates into real economic and societal impact



EXPECTED IMPACT

MNS will translate into new companies created, private investment attracted, and qualified jobs generated in the semiconductor sector, directly reinforcing Spain's competitiveness and contributing to Europe's technological sovereignty

Key Indicators for our Success

MicroNanoSpain will deliver measurable results: over 600 hours of technical services per year made available to SMEs and startups, 250 professionals trained annually through specialised programmes, and at least 15 innovation and knowledge transfer projects supported each year





MICRONANOSPAIN

THANK YOU

FOR YOUR ATTENTION



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Web page and
social soon

