

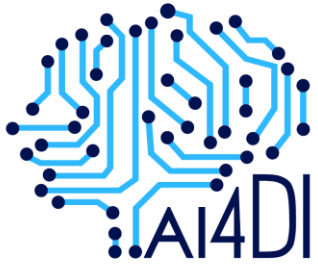
International Workshop on Embedded Artificial Intelligence Devices, Systems, and Industrial Applications (EAI)



Milan, Italy 19 September 2022

ECSEL AI4DI stands for "Artificial Intelligence for Digitizing Industry"

AI4DI's mission is bringing AI from the cloud to the edge and making Europe a leader in silicon-born AI by advancing Moore's law and accelerating edge processing adoption in different industries through reference demonstrators.



Start May 2019	End Dec 2022
Duration 44M	Budget 30€M
Partners 41	Countries 12

Machinery



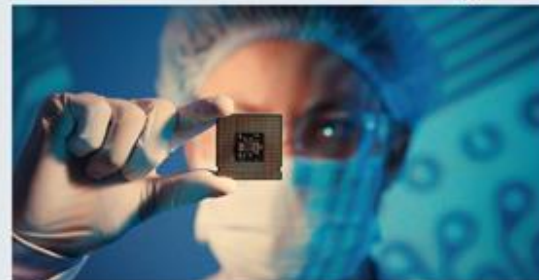
Automotive Manufacturing



Collaborative



Semiconductor-Industry



Beverage Industry & Agriculture



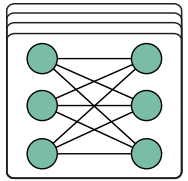
Transportation



<https://www.ai4di.eu>



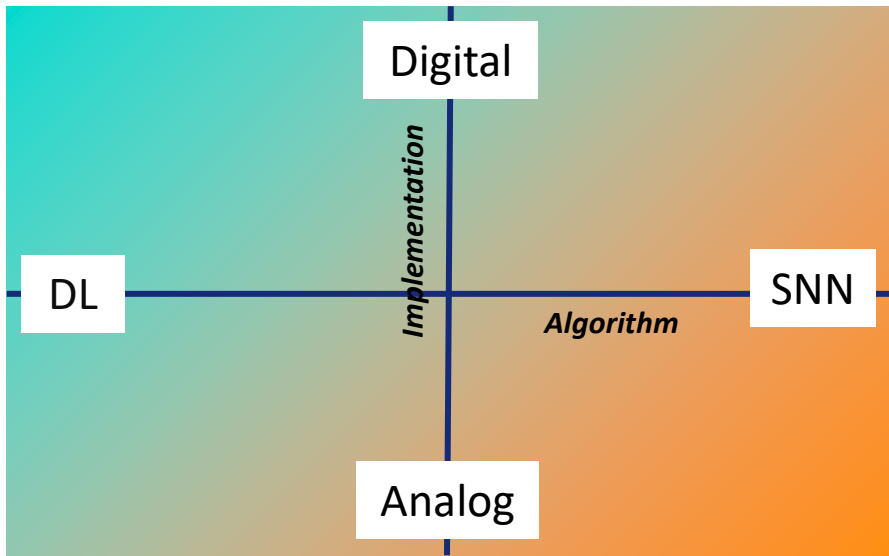
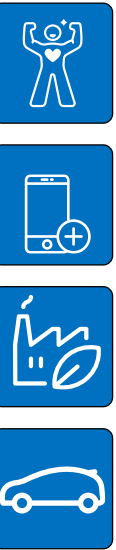
[linkedin.com/company/ai4di](https://www.linkedin.com/company/ai4di)



TEMPO

Technologies and hardware for neuromorphic computing

TEMPO is a collaborative research project which develops technologies and hardware solutions to broaden the applicability and strengthen the European ecosystem of embedded neuromorphic computing, enabling AI in Edge devices and applications.



Start May 2019	End Jan 2023
Duration 45M	Budget 35€M
Partners 18	Countries 5

<https://tempo-ecsel.eu>
www.linkedin.com/company/tempo-ecsel
Bjorn.Debaillie@imec.be (coordinator)



Present **Production-ready maturity** Future



ANDANTE

ANDANTE aims to leverage innovative IC designs to build powerful **HW&SW platforms** for artificial and spiking neural networks (**ANN/SNN**) as a basis for future products in the **Edge IoT domain**, combining extreme power efficiency with robust neuromorphic computing capabilities and demonstrate them in key application areas.

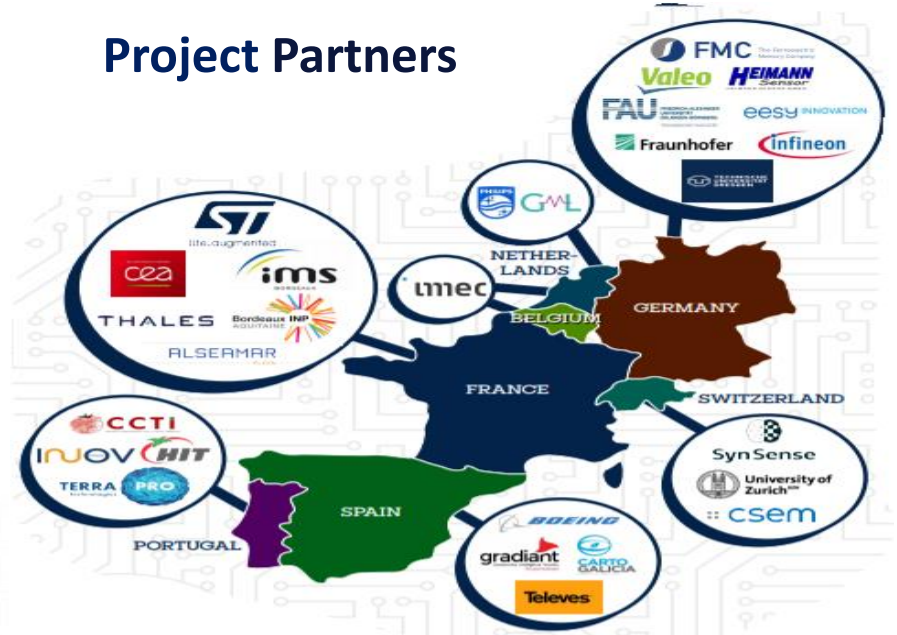
Main focus

Emerging eNVM memories	Tools & Methodologies	Neuromorphic ASICs & FPGAs	AI Platforms & Applications
<ul style="list-style-type: none"> OxRAM, PCM FeFET, SOT-MRAM 	<ul style="list-style-type: none"> SW-HW co-design Training, profiling and mapping a neural network on a HW target 	<ul style="list-style-type: none"> SNN and ANN architectures Digital, mixed-signal design strategies 	<ul style="list-style-type: none"> Validate, and evaluate performance Solutions pertinence

ANDANTE targets innovative solutions in the Edge with strong market impact



Project Partners



Project facts and figures

Start June 2020	End Nov 2023	Duration 42 Months	Budget 40 €M	Partners 30	Countries 7
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<https://andante-ai.eu>
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