AXELERA
ARTIFICIAL INTELLIGENCE

Datacenter Performance. Edge Efficiency.
Accelerating Inference, Everywhere.

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Introduction of Axelera AI

AI Inference Made Simple

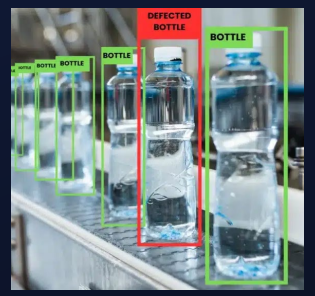
ESA CommEO Forum - May 2026

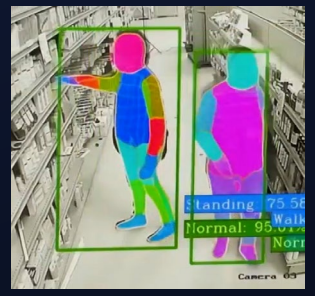
Problem

Inference is the future of AI – but existing hardware is holding back adoption

Inference is the future of AI

...in edge AI: driving latency, efficiency, privacy and security benefits


...and in high performance computing


... but existing chips fall short

Low performance
Insufficient to handle the latest AI models

Power hungry
Energy inefficient or thermally constrained

Expensive
Customers priced out of mass deployment

Supply Chain Issue
Existing Chip Supply risk ITAR-Listing

The need? **GPU-level performance at a fraction of the price, resilient supply and low energy consumption**

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Introducing Axelera AI

Datacenter performance, edge efficiency. **Accelerating inference, everywhere**.

Company

Axelera AI is the largest AI semiconductor company in Europe

2021	250+	60+	20	$450M	10+
Founding	Employees	PhDs	Countries	Total funding	Strategic patents pending

AI Processing Unit (AIPU)

We build the most powerful, efficient and affordable AI Processing Unit for computer vision & GenAI

METIS
Computer vision and SLMs at the edge (2024)

4x More power efficient

3x More cost efficient

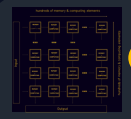
2-8x Higher performance

EUROPA
Gen AI for high-end edge & HPC (2025/6)

TITANIA
Datacentre (2027/8)

Technology

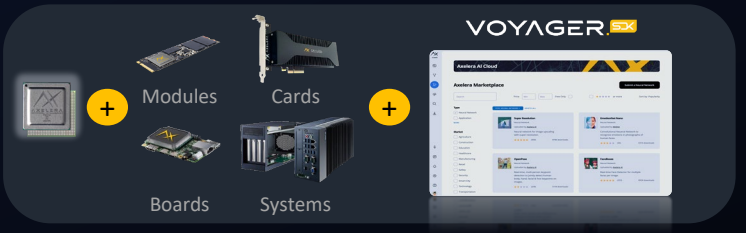
D-IMC for massively efficient AI



Densely interleaved memory and compute to massively increase efficiency of running AI models

Product

AIPU, edge-native form factors and leading software stack



500+ customers and partners *(select examples)*

esa · EuroHPC Joint Undertaking · Multiverse Computing · ASTUTE · THALES · dare · Telefónica · SAFRAN · NTT DATA · ADVANTECH · BOSCH · DELL · SECO

Investors

Innovation Industries · BlackRock · INVESTNL · SAMSUNG CATALYST · imec · xpand · VERVE VENTURES · BITFURY · SiteGround · cdp · Fondo Nazionale Innovazione CDP Venture Capital Sgr · European Innovation Council · sfpi · fpim

Team *(select examples)*

NVIDIA · Google · QUALCOMM · Movidius · ASUS · intel · IBM · Ambarella · AMD · imec · arm · BAIN & COMPANY · ETH zürich · Lenovo · DELL · hp · blaize · GRAPHCORE · BCG

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Defense & Aerospace

Low-power edge inference. Defense-grade tough. European sovereign. Future-proof

Value propositions

Performance and efficiency

Higher FPS than Hailo at a fraction of NVIDIA's power. Real-time inference at 5W.

Ruggedized form factor

Standard form factors built to withstand the harshest environments

European sovereignty

Only production-ready edge AIPU designed entirely in Europe. RISC-V. No ITAR risk

One platform, future-proof

M.2 today, Europa tomorrow. One SDK, 10-year availability, industry-leading FPS

Comparison

Alternative	Their approach	Axelera advantage
NVIDIA (Jetson)	15-60W power draw, 2-3yr lifecycle, US export controlled	**5W typical, 10yr availability, European sovereign**
FPGA (Xilinx, Intel)	Custom firmware, 6-12mo dev cycles, high NRE	**Programmable AIPU, SDK-based, weeks not months**
Edge AI chips (Hailo)	Lower FPS, no VLM support, fewer models, non-European	**Higher FPS at lower power, VLM ready, European designed**

Who we've supported

THALES esa SAFRAN

+ many others

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