

arm

Arm Total Design for Physical AI





Bringing AI into the physical world requires more than powerful models. Autonomous vehicles, robots and intelligent machines depend on AI working seamlessly across compute, software, sensors, actuators, tools and cloud infrastructure

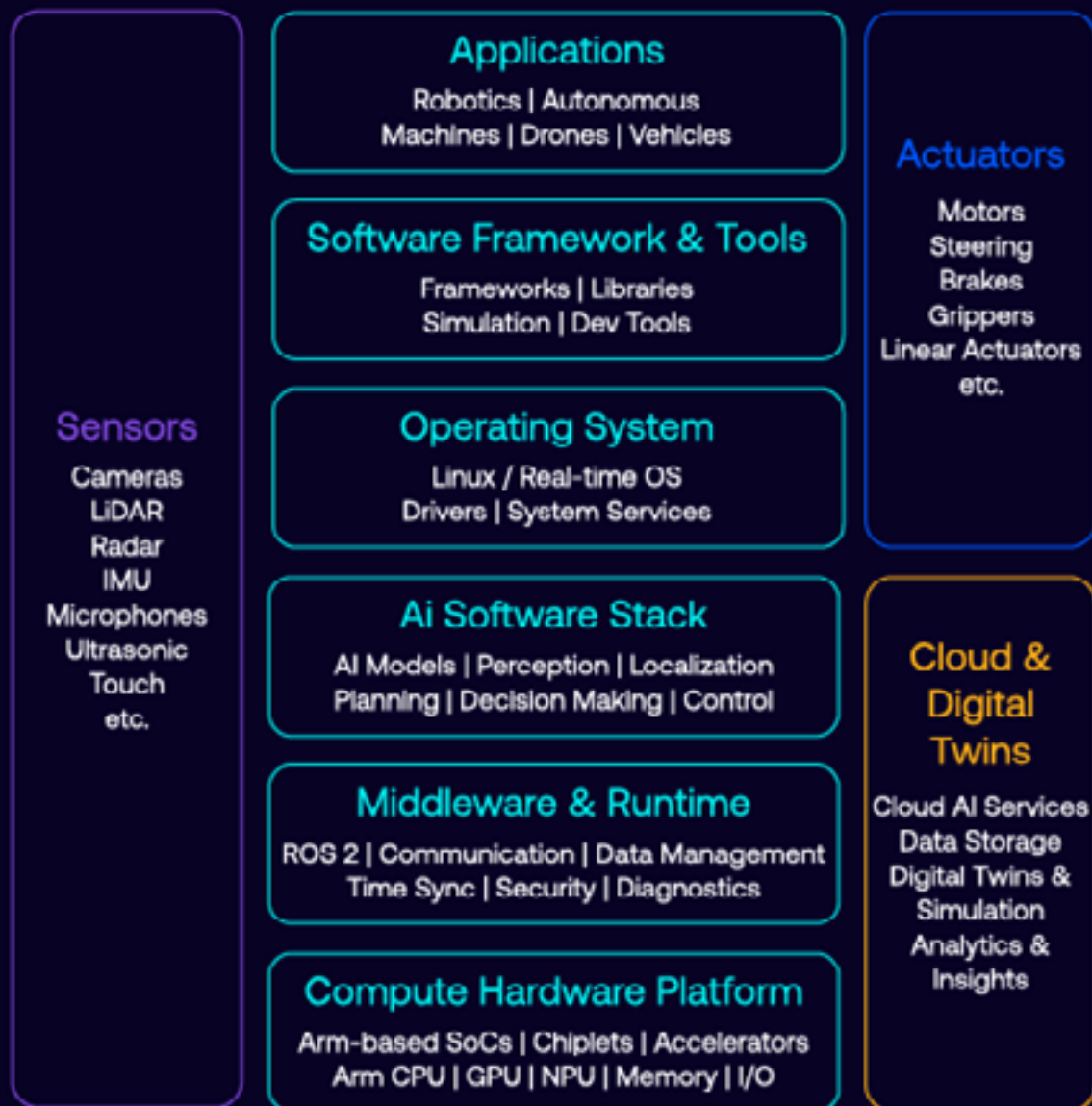
Too often, these technologies are developed and validated independently leaving Tier 1s and OEMs with the complex task of bringing the complete system together.

The result: repeated engineering, higher costs, greater risk and longer time to deployment.

Arm Total Design for Physical AI brings the ecosystem together to build, integrate, optimize and validate real-world physical AI solutions on Arm. Build once. Reuse more. Reach further.

From fragmented technologies to integrated physical AI solutions

The physical AI ecosystem is already rich with innovation. Arm Total Design for Physical AI is designed to make that ecosystem an asset rather than an integration burden.



Arm Total Design for Physical AI connects expertise across:

Silicon & compute • AI models & software • Operating systems & middleware • Sensors & actuators • EDA & development tools • Virtual platforms & digital twins • Cloud • System integration • OEMs

Together, Arm Total Design for Physical AI members can develop, integrate and validate more complete solutions around real-world Physical AI use cases - giving the next company in the value chain a stronger starting point, rather than another set of components to integrate.

By bringing these capabilities together earlier in the development cycle, Arm Total Design for Physical AI helps turn individual technologies into more integrated, reusable and deployable solutions.



Collaboration that turns technology into deployable solutions

Arm Total Design for Physical AI isn't simply a directory of companies that build on Arm. It is an active ecosystem designed to enable meaningful technical collaboration between them.

Members can work with complementary technology companies to close solution gaps, develop earlier on Arm platforms, validate real-world physical AI workloads, create joint reference solutions and demonstrate those solutions to customers.

The aim is to turn ecosystem collaboration into integrated, validated solutions that can accelerate real-world deployment.

Build Earlier. Validate Faster. Scale with Confidence.



Why join Arm Total Design for Physical AI

Unlock technical and market value. Build better physical AI solutions, faster

Technical Value



Build Earlier

Early access to platforms, tools and Arm technology.



Validate Faster

Develop, benchmark and validate real Physical AI workloads.



Scale with Confidence

Integrate proven building blocks into end-to-end solutions.

Validate Market Credibility

Market Value



Build Visibility

Arm launch moments, events, content and amplification that raise visibility



Validate Market Credibility

Create demos, reference solutions, benchmarks and proof points making differentiation tangible.



Scale Customer Adoption

Joint GTM, customer engagements & launch support to reach OEMs, developers and the Arm ecosystem.

Join Arm Total Design for Physical AI today

Arm Total Design for Physical AI provides the technical foundation, validation and ecosystem support to help you start earlier, validate faster and integrate with confidence.

Join ATD for Physical AI in Three Steps

Request

01 Tell us what you bring

Share your capabilities, target markets and how you want to contribute.

Qualify

02 Confirm ecosystem fit

Arm reviews ecosystem value, customer relevance and Physical AI alignment.

Commit

03 Align and activate

Agree expectations, mutual commitments and the ATD participation agreement.

Build • Validate • Scale. Together.

Request to join:

www.arm.com/company/contact-us/arm-total-design-physical-ai