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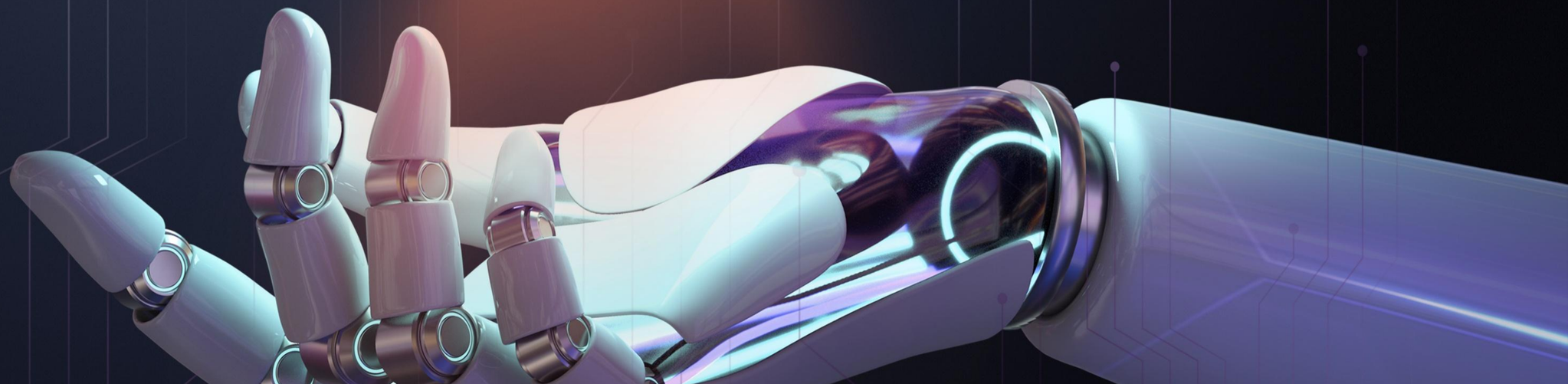
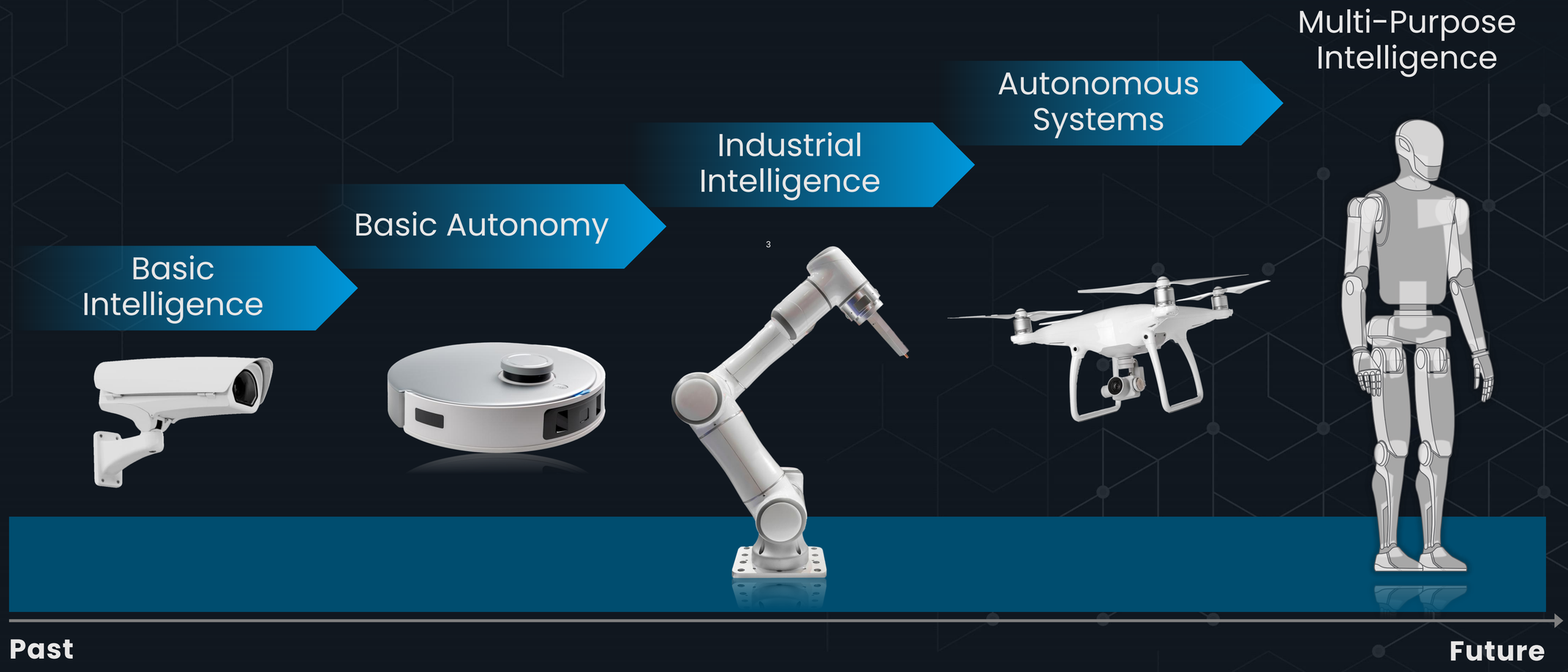
Physical AI Is Built On MIPS

Overview

Jan 14th 2026



AI is Transforming the Physical World



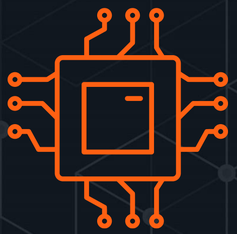
The Compute Challenge of Physical AI

Dynamic, Unpredictable Environments

SENSE

THINK

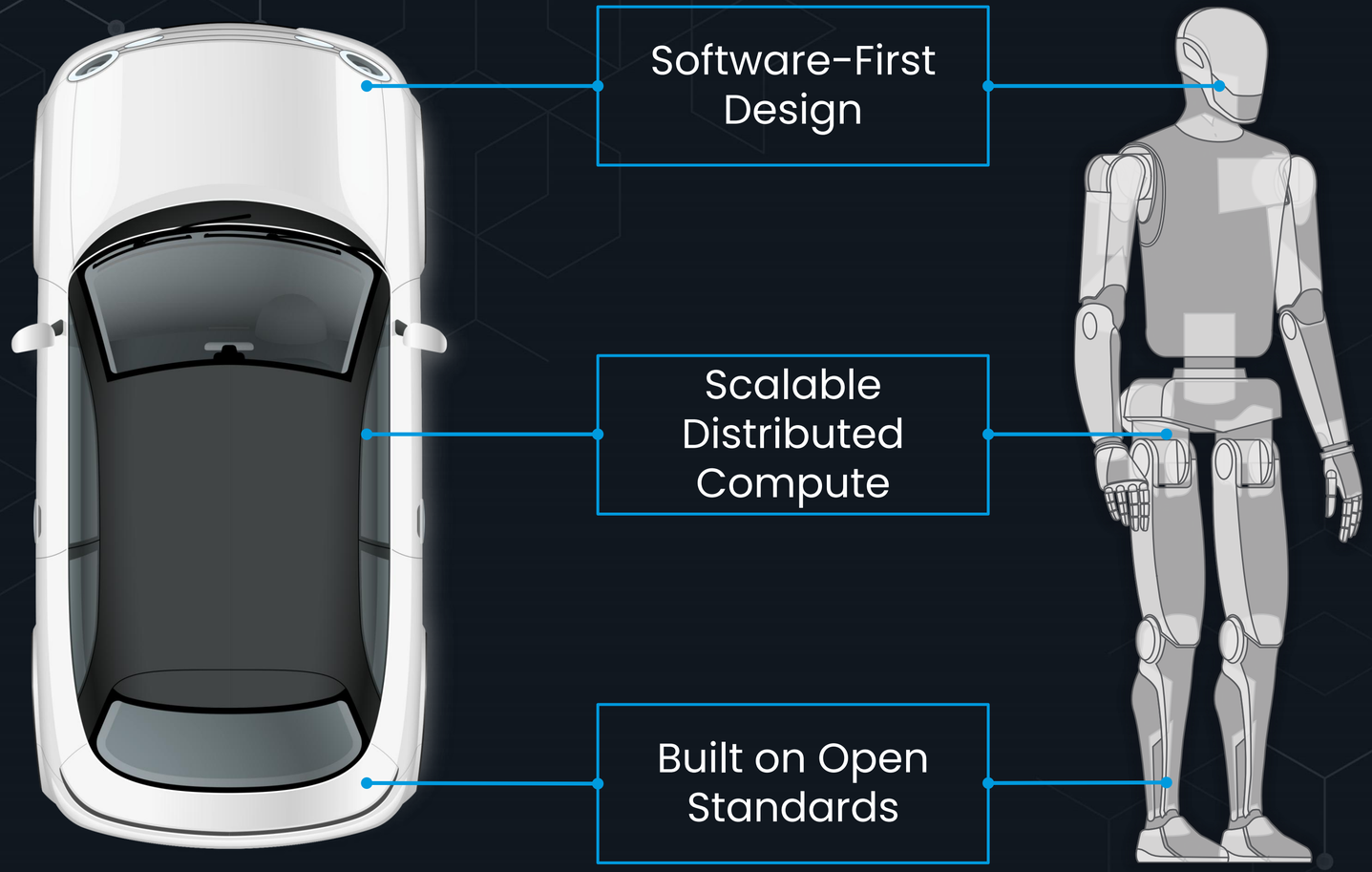
ACT



COMMUNICATE

Gather Environment Data → Autonomous Decision Making → Movement & Action → Data & Status Updates

The Growth of AI to the Edge Changes Design Approach



Software-Defined Architectures

- Software-First Design
  - Standardized Compute Blocks
  - Application Specific Optimization
- Standards-Based Technology
  - Open, Modular ISA
  - Common code base
  - Shared Toolchain
  - Commercial Vendor Support
- Scalable, Distributed Compute
  - Workload Focused SoCs
  - Software Enhanced Function

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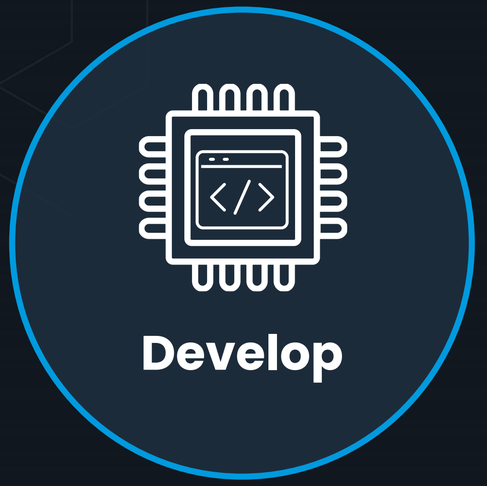
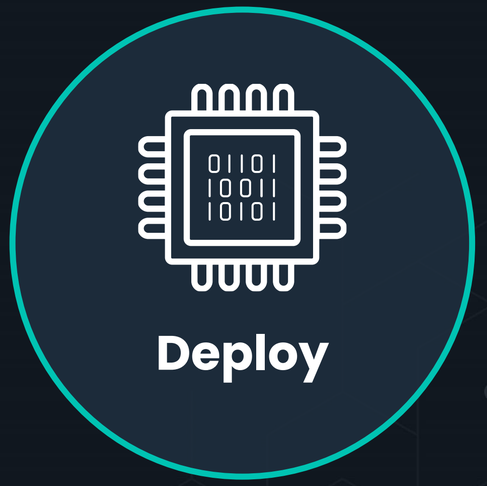
Software-First Design: Software & Tools

Workload Modeling with Virtual Core IP



Software/ Hardware Co-Design



Digital Twin Lifecycle Management

Software Guided Intelligence

- Earlier insights for smarter designs
  - Atlas Explorer virtual platform
  - Atlas IP Core Models
- Platform Design Insights
  - Cycle Accurate Modeling
  - AI-Enhanced SW/HW Co-design
- Application Optimization
  - Code Migration & Tuning
  - Workload Focused Toolchains
  - AI-Powered Software Tuning & Optimization

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Standards Based Technology: RISC-V Processor IP

Profile Compliant Processor

Modular ISA Extensions

Application Specific Instructions

Open, Modular, Extensible

- Standardized Programming Model
  - Easy to Adopt & Use
  - Common Code Bases
  - Commercial & Open-Source Toolchains
- Software Defined Functionality
  - Base Profile Compliant with RISC-V Extensions
  - Application Specific Instructions
  - Workload Tuned Architectures

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Scalable Distributed Compute

Scalable Autonomous Edge Architectures

- Reduced use of low-volume, high-cost ASICs in single applications
- Differentiated Product Design
- Re-use platform architectures in adjacent markets
  - Economy of Scale
  - Supply Chain Management
- Reduced Time-to-Market
- Shared Development Costs
- Higher Quality
- Simpler Support

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Mapping Physical AI to Compute Engines

Breaking Down the Workload Into Engines

SENSE	THINK	ACT	COMMUNICATE
Multi-stream Data Aggregation & Control	On-Device Transformer & Language Model Inference	Real-Time Control & Low-Latency Event Processing	Low-Latency, High-Throughput, Secure Data Orchestration
Compute-Dense Applications Processor Clusters	Software-First AI Accelerator for Transformer & Language Model Workloads	High-Performance Real-Time Microcontrollers	Multi-Threaded Data Movement Engines
MIPS IP: P8700	**S8200**	**M8500**	**I8500**

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MIPS Atlas Portfolio of RISC-V Processor IP

	Transportation	Robotics	Embedded	Technology
M8500 **ACT**	• Embedded Control Unit • On-board Battery Management • Traction Invertor	• Control Loops • Safety Domain	• Intelligent Power Management • Energy Infrastructure • SSD Channel Controller	**High-Performance 32-bit Microcontroller** • Field-Oriented Control Algorithm Acceleration • Functional Safety (DCLS, ASIL-D, ASIL-B) • Real-Time Multithreading (4-Threads per Core)
I8500 **COMMUNICATE**	• Zonal Gateway	• Industrial Gateway	• SSD Storage Controller • Communications Infrastructure • Intelligent Networking	**Embedded 64-bit Data Orchestration Processor** • Native Linux/RTOS/Bare metal OS support • 4-Threads per Core, 6-Core Clusters • Scales up to 384 Clusters • Native big-Endian support
P8700 **SENSE**	• Data Movement Engine (ASIL)	• Data Movement Engine (SIL)	• Data Movement Engine for Smart NIC/DPU • Embedded Applications Processor	**Performance Applications Processor** • 2-Threads per Core • 64-bit Out-of-Order Pipeline • Functional Safety (ASIL-B) • Multicore Cluster scaling
S8200 **THINK**	• ADAS (Bird's Eye View; OMS/DMS; LKA; Traffic Sign Recognition, etc.)	• Predictive Maintenance • Real-time Monitoring • Vision/Language Models	• On-Device Modern AI Inference	**Embedded Neural Processing Unit** • Support Transformer & Language Models • Area-dense with class-leading TOPS/w • RISC-V Vector & Matrix extension support

Earlier Insights | Smarter Designs

Software-First Design

Atlas Explorer virtual platform for
Atlas Core Models

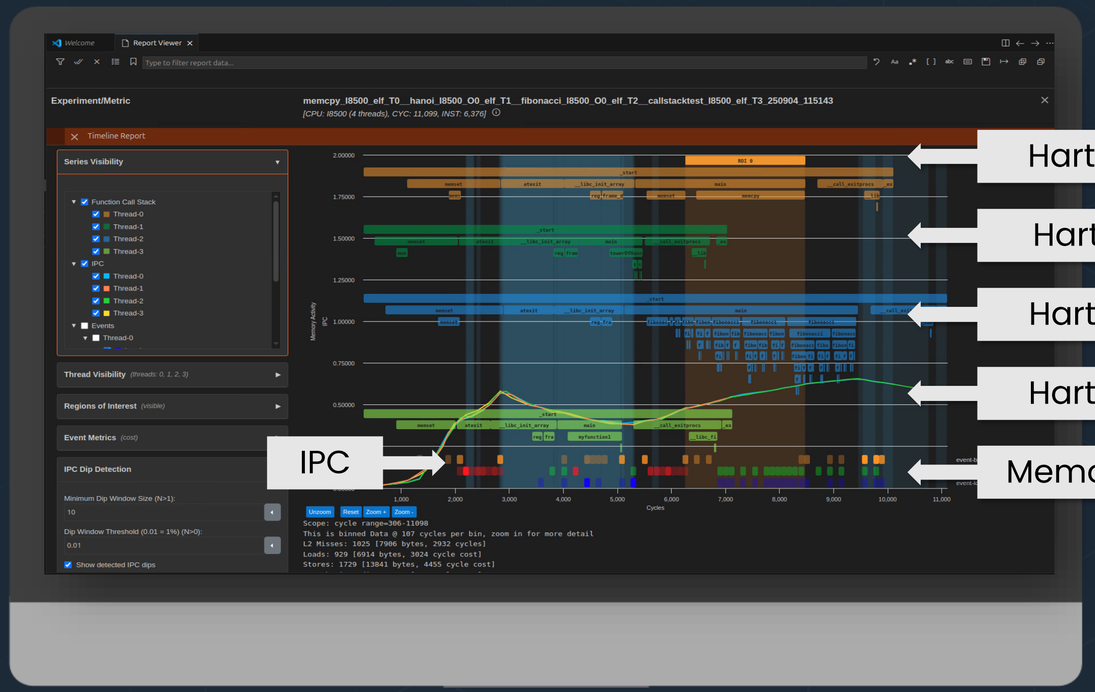
Shift-Left Development

Start your software optimization before
RTL, FPGA, and silicon availability

Platform Design Insights

Branch trends, load/store activity, ALU usage,
register pressure, cache locality, IPC & more

MIPS Atlas Explorer
for Visual Studio Code



MIPS + GF Bring Physical AI to Life

MIPS Workload driven IP & Design

- Software-First Processor IP Design
- Modular Workload Extensions
- Processor IP Optimized for Physical AI
- Open Standard Instruction Set Architecture

Architecture Influences Technology

Technology Enables Architecture

Optimized Process Technologies

- World's most feature-rich FinFET
- FDX: Lowest power, highest integration
- Advanced Packaging: Size, power, performance

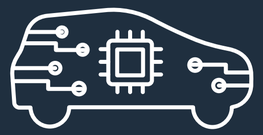
Benefits of combined capabilities

- Microarchitecture optimizations for efficiency in ultra-low power process technology
- Ultra-low power process technology (up to 50% benefit PPA)
- Data paths & pipelines to process; Key algorithm acceleration
- Industry leading integrated RF & embedded memory (RRAM, MRAM)
- Software migration & application development
- Dedicated I/O devices enabling dense SoC integration

Autonomous Edge Applications

Transportation

Automotive Driver Assistance Systems



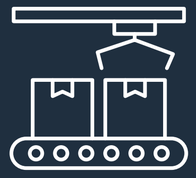
Self-flying Uncrewed Aircraft

Autonomous Mobile Robot

Robotics

Automated Assembly

Warehouse & Logistics



Humanoid Robot

Embedded

Intelligent Motor Control

Network Data Orchestration

Power Infrastructure

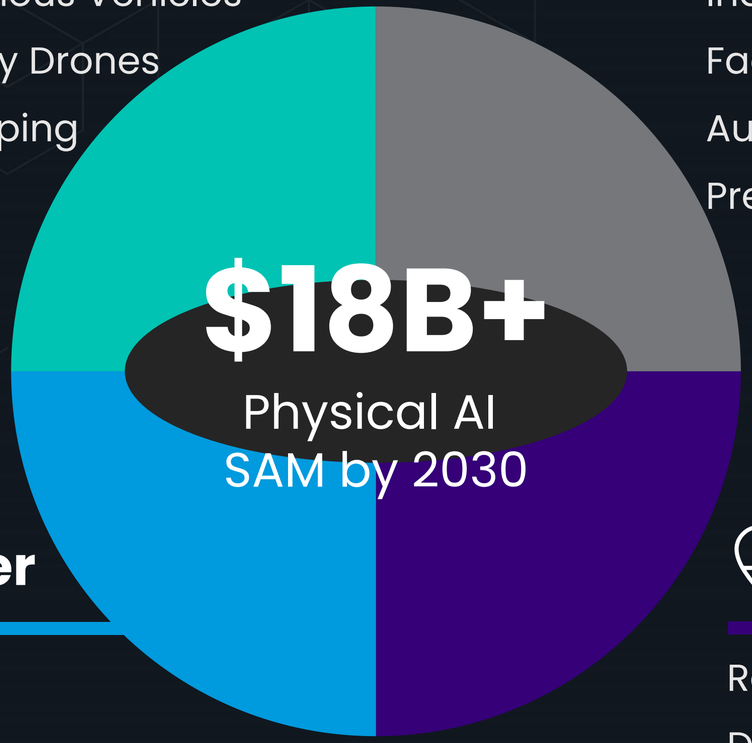
A Significant & Expanded Market Opportunity

Transportation

Personal Autonomous Vehicles
Logistics & Delivery Drones
Autonomous Shipping
Robotaxis

Industrial

Industrial Robots
Factory & Agricultural Cobots
Autonomous Defense Systems
Predictive Maintenance Systems



Consumer

Humanoid Robots
Smart Glasses
Smart Home Devices
AI-Enabled AR/VR

Medical

Robotic Surgeries
Diagnostic Wearables
Medical Smart Sensors
Smart Drug Delivery Systems

Enhanced Business Model

Differentiated Technology

Custom Silicon

IP Licensing & Royalties

Software

Accretive to GF's Long-Term Goals

SAM based on company estimates

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Thank You

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Endnote

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