

Mehr Leistung, Effizienz und Innovation in der IONOS Cloud

Thomas Perner-Schneider, Dell Technologies
Arndt Mitwer, Intel

Track 3, IONOS Summit 2026



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Intel & Dell Technologies: Mehr Leistung, Effizienz und Innovation in der IONOS Cloud

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Arndt Mitwer
Account Executive
Intel Corporation

Thomas Perner-Schneider
Intel Server BDM Germany
Dell Technologies

Im Zeitalter von hybrider Cloud und agentischer KI stehen für Organisationen folgende Ziele im Fokus:



Schnellere digitale Transformation und erfolgreicher Einsatz von KI



Kostensenkung und vermindertes Betriebsrisiko

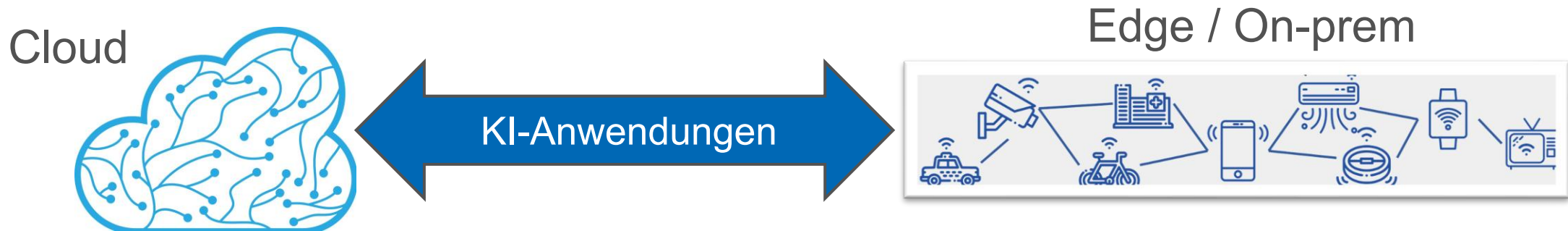


Gewährleistung von Compliance, Datenschutz und IT-Sicherheit



Modernisierung von Anwendungen und Server-Konsolidierung

KI ist ein Treiber für den Trend zur hybriden Cloud



Public Cloud für
Training- und
Inferenz-Workloads

On-prem oder Private Cloud
für sensible/regulierte Daten
und geistiges Eigentum

Intel hat starke Cloud-Kompetenz vom Chipdesign bis zur Workload-Optimierung

1. Unsere europäische Forschung, Entwicklung und Fertigung stärken die technologische Souveränität Europas



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2. Seit 2024 bieten wir Server-CPU's mit Effizienz-kernen an für hochskalierbare, energieeffiziente Cloud- und KI-Infrastrukturen

intel

Intel Xeon[®] 6+

Next-level server CPU density & efficiency, built on Intel 18A

Exceptional performance

Up to
288 E-cores
Highest core density

Up to
8000 MT/s DDR5
Improved memory

Up to
576 MB
Enhanced low latency LLC

Efficient compute

Intel 18A
PowerVia & RibbonFET

Market leading
Rack density

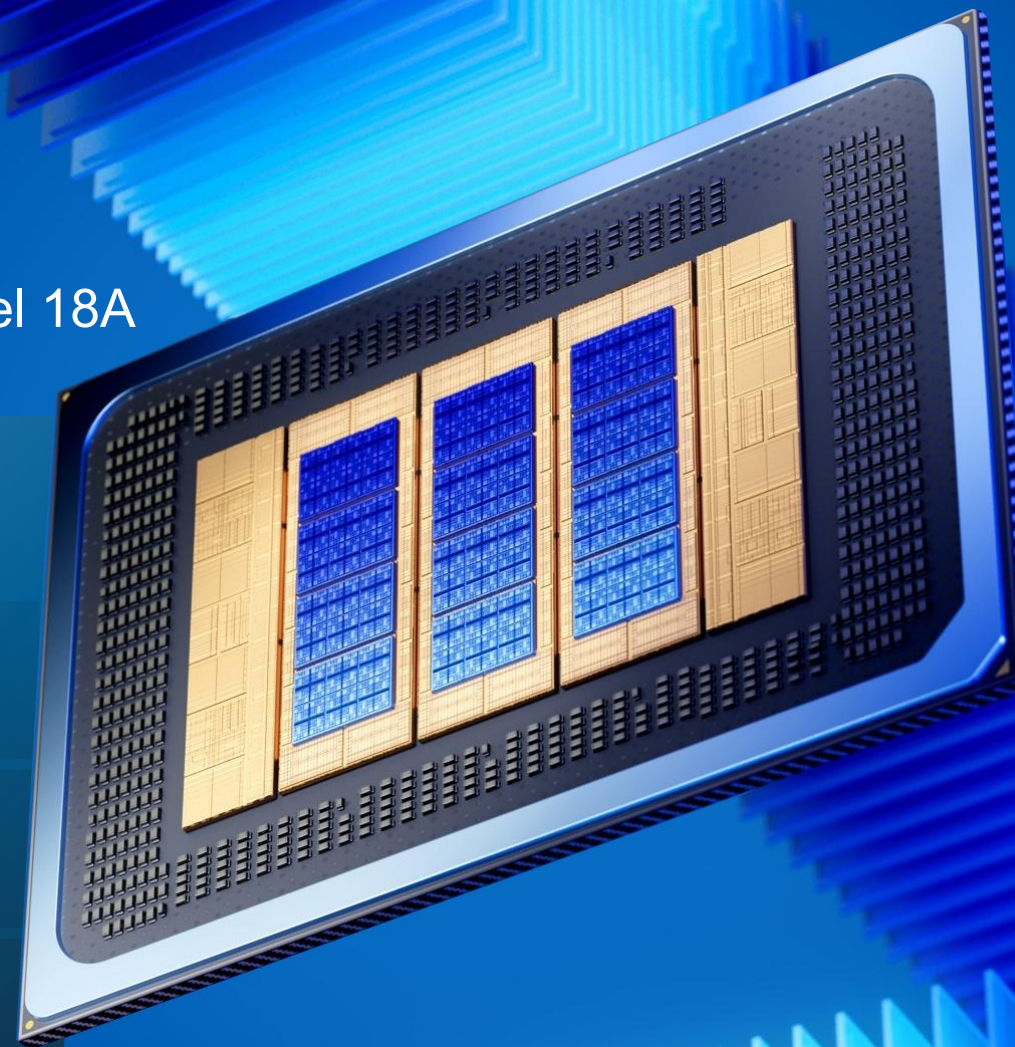
Intel[®] AET
Intel[®] Application Energy
Telemetry (Intel[®] AET)

Trusted and secure

Confidential compute
Most comprehensive portfolio

Intel[®] SGX and
Intel[®] TDX

Crypto algorithm
acceleration
for SHA-512, SM3 and SM4



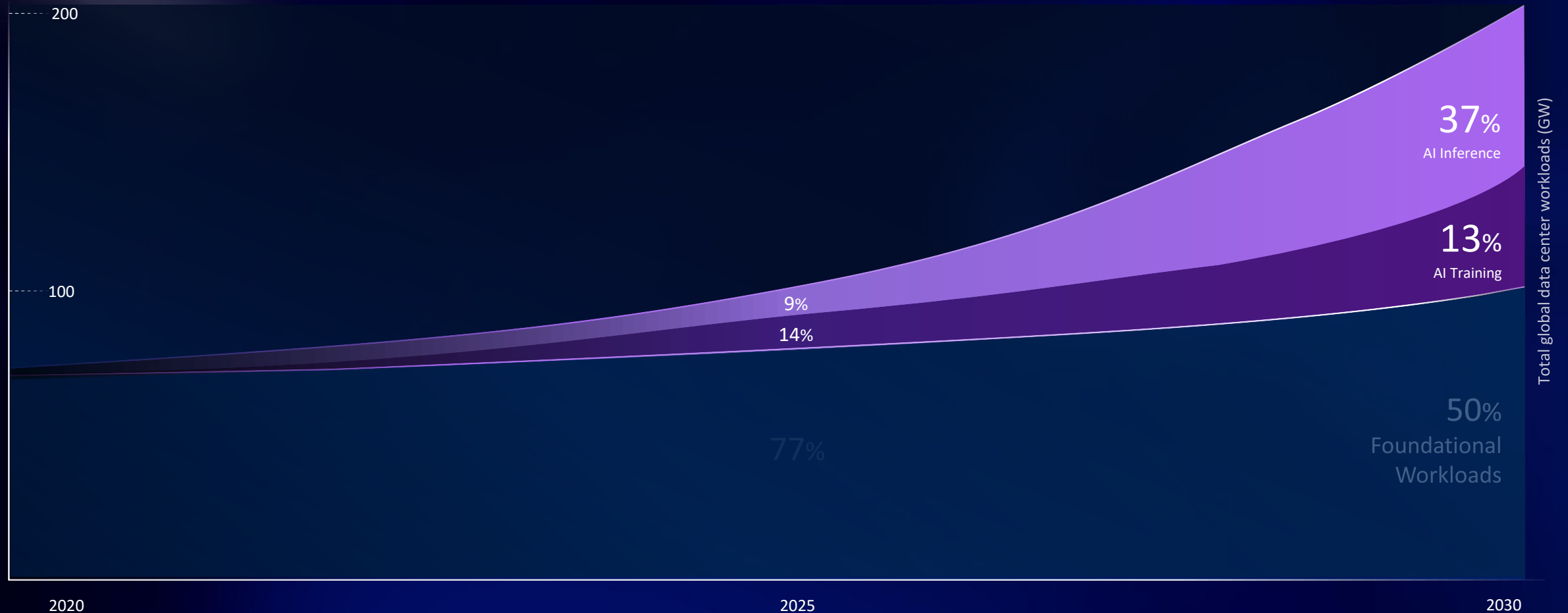
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2. Seit 2024 bieten wir Server-CPU's mit Effizienzkernen an für hochskalierbare, energieeffiziente Cloud- und KI-Infrastrukturen
3. Mehrwert über die Hardware hinaus: Expertensupport, Intel Cloud Optimizer, Xeon Processor Advisor, Intel Optimization Zone usw.



Majority of Growth in AI Driven by AI Inference

Driven largely by AI agents & inference workloads



JLL Data Center Outlook (2025)

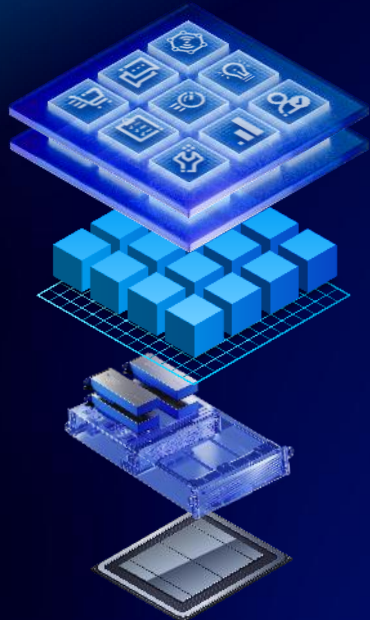
A New Compute Paradigm for Intelligence at Scale

With a fundamentally different infrastructure need than frontier AI training

Foundational Data Centers

Serving Applications

The execution backbone of enterprises running general purpose workloads



Intelligence Center

Serving Intelligence

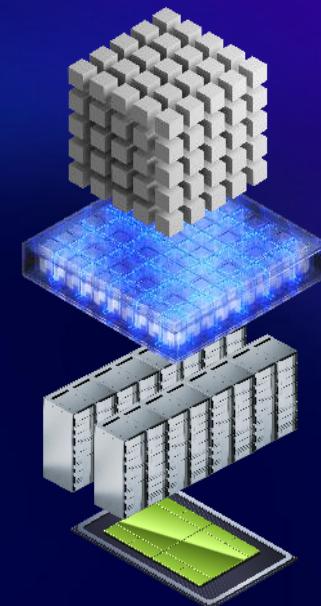
The cognitive layer of enterprises through high-volume inference & agent execution



Frontier AI Training Center

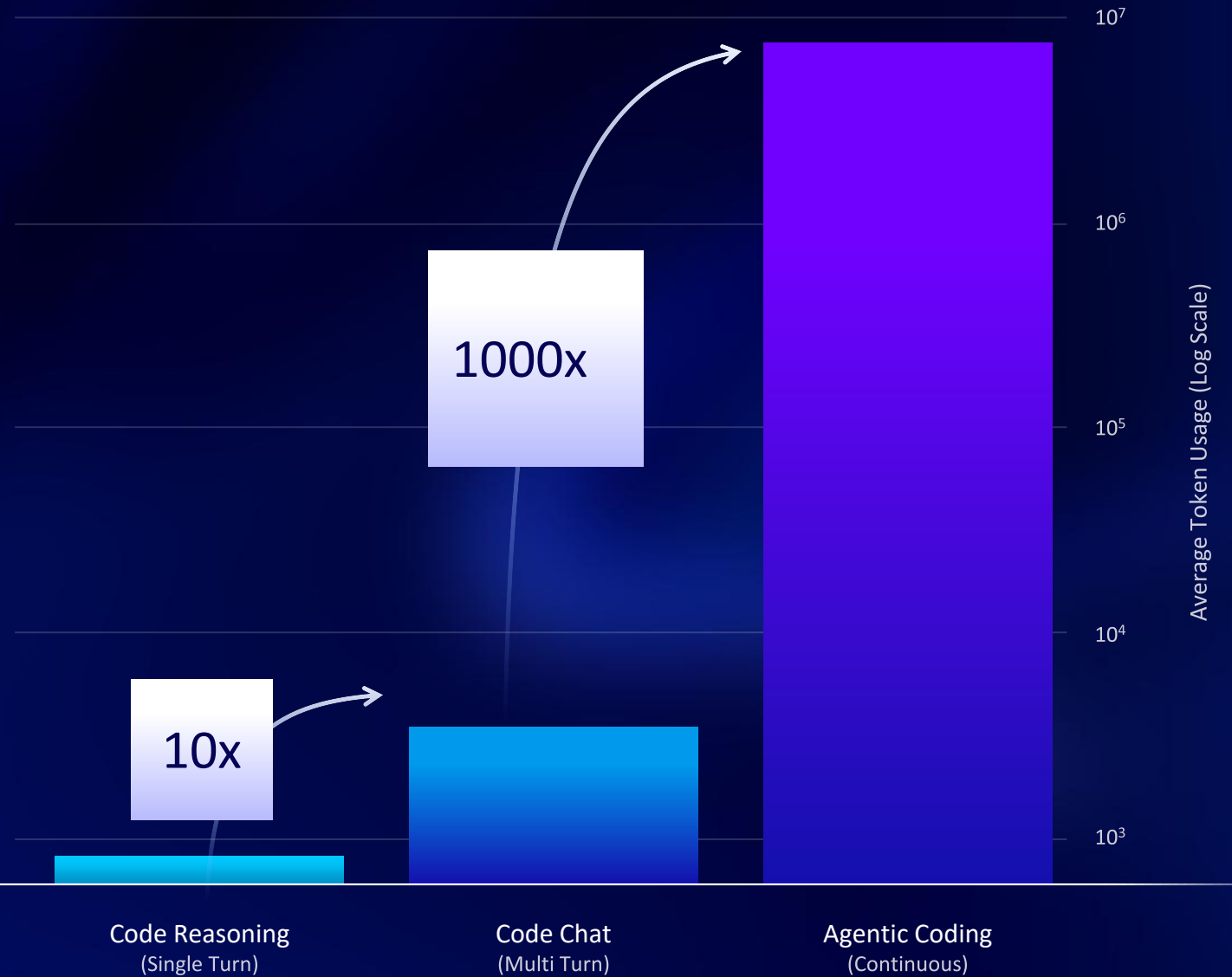
Building Intelligence

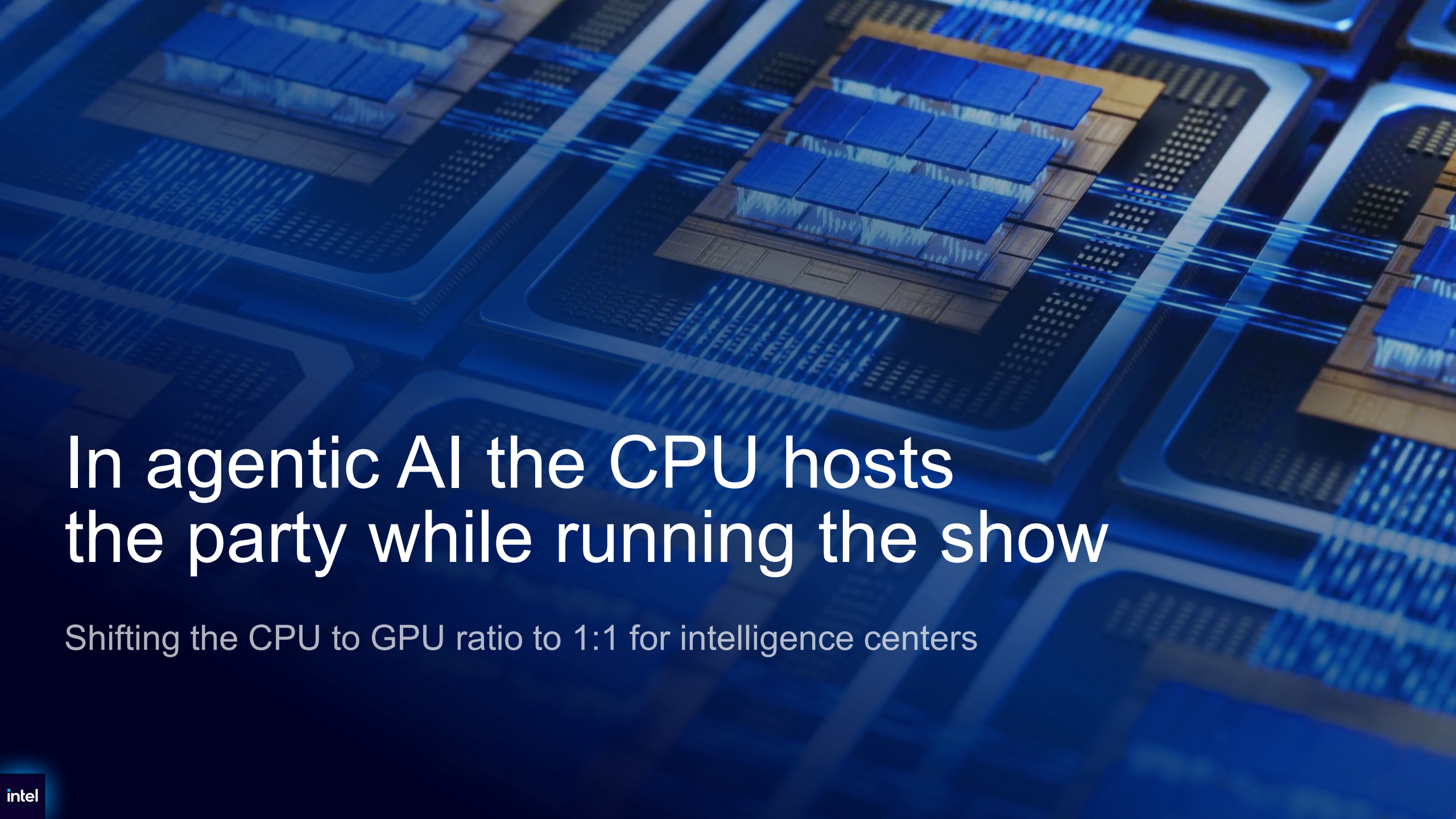
Creation and adaptation of foundational models through AI training (at hyperscale)



Token Usage Explodes for Agentic AI

Driving the increased need for cost effective token generation





In agentic AI the CPU hosts the party while running the show

Shifting the CPU to GPU ratio to 1:1 for intelligence centers

Featured to Facilitate Agents at Scale

Intel® Xeon® provides a range of hardware features to cater to different Agentic AI needs

Intel Xeon 6 Processors with P-cores Throughput first Agentic AI

High memory
bandwidth

8000MT/s

Massive memory
capacity for context

4TB/socket

Matrix and vector
acceleration

AMX
and AVX 512

Intel Xeon 6+ Processors with E-cores Agentic AI density & efficiency

High core count for
agent density

288 cores

Massive L3 cache for tool
exec sandbox

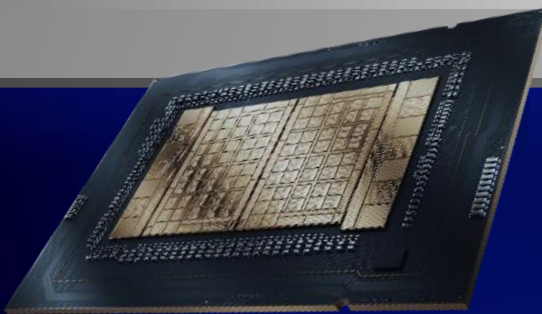
576MB

ISA extensions for AI
acceleration

AVX 2

Security

Intel SGX & TDX



Intel® Xeon® Expanding AI Software Stack

Broad and Continuously Expanding Model Support

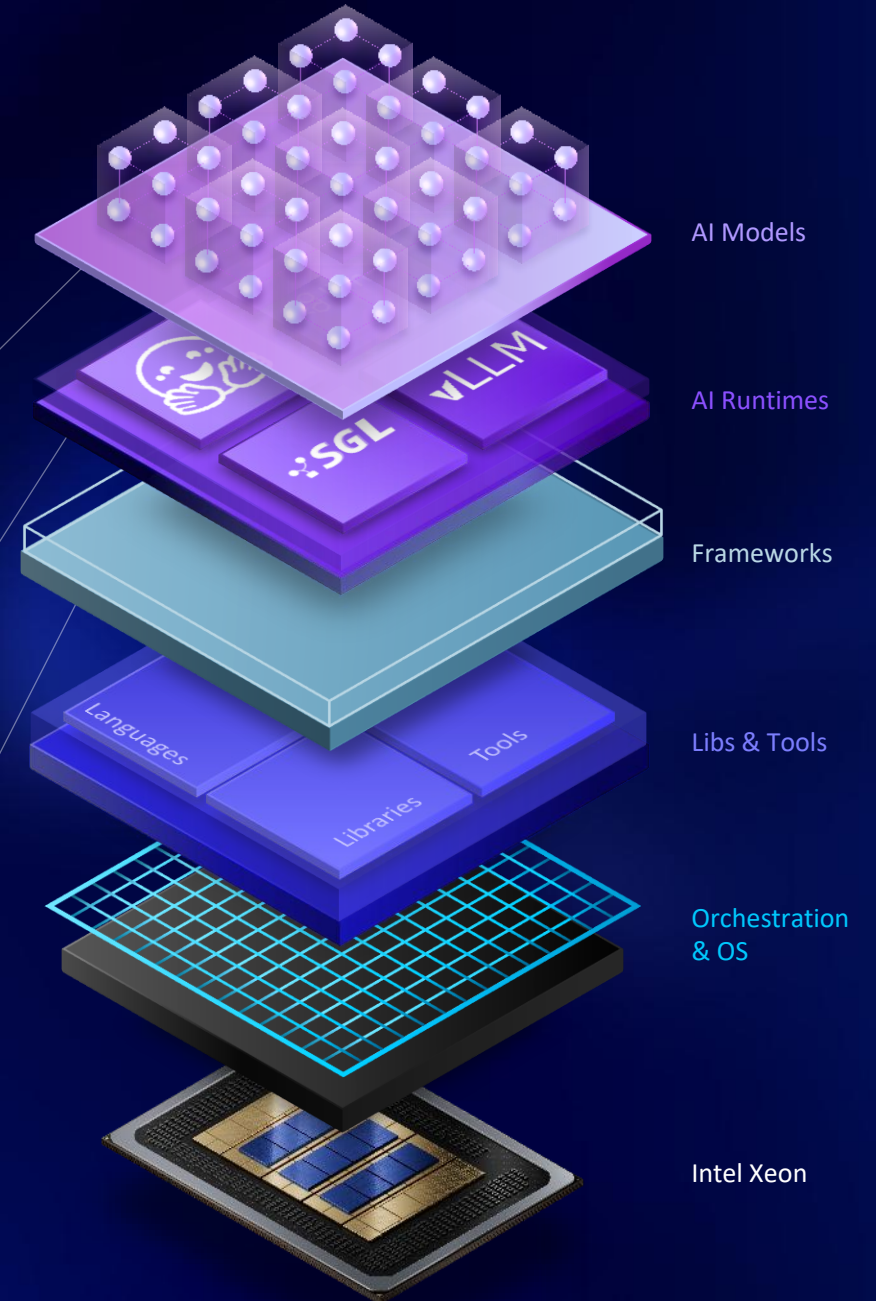
Qwen 3	DeepSeekR1	GPT OSS	Llama 3.x	Gemma 7B	Mistral 7B
Phi3 3.8B	DistillBERT 66M	BGE	OpenAI whisper	IBM Granite	...

Upstreamed (Agentic) AI Foundations

vLLM	SGLang	LLM-d	Huggingface agents	AutoGen
LangChain	LangGraph	LlamaIndex	CrewAI	...

Working with Leading Frameworks

Pytorch	Tensorflow	HuggingFace	OpenVINO	Scikit Learn	...
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Dell PowerEdge 17th Generation with Intel Xeon

A Complete portfolio for the modern datacenter



XE9780	XE7740	R770AP	R770 R670	R570 R470	XR8
Purpose built for GenAI with support for high power OAM GPU's	Purpose built for GenAI with support for high power PCIe GPU's incl. Gaudi3	Performance Optimized for the most demanding Compute Workloads	Full Platform Capability with Robust PCIe Expansion	Rich One Socket configurations with minimal platform compromises	Purpose built for the most challenging Edge conditions
Xeon 6700	Xeon 6700	Xeon 6900	Xeon 6700 & 6500	Xeon 6700 & 6500	Xeon 5
10 U / 2S	4 U / 2S	2U / 2S	1 U & 2U / 2S	1U & 2U / 1S	Multi-Node
Up to 172 Cores	Up to 172 Cores	Up to 192 Cores	Up to 172 Cores	Up to 80 Cores	Up to 128 Cores
Up to 32 DDR5 DIMMs	Up to 32 DDR5 DIMMs	24 DDR5 DIMMs	Up to 32 DDR5 DIMMs	16 DDR5 DIMMs	Up to 16 DDR5 DIMMs
8x OAM GPU's	Up to 8x DW 16x SW GPU	8x PCIe 2x OCP	Up to 8x PCIe 2x OCP	Up to 4x PCIe 2x OCP	Up to 6x PCIe
Up to 8 E3 NVMe Drives	Up to 8 E3 NVMe Drives	Up to 8 U.2 NVMe Drives	Up to 44 E3 NVMe Drives	Up to 32 E3 NVMe Drives	Up to 8 M.2 NVMe Drives
LLM, VLM, Text to Image/Video, RAG, Agentic Tools		HPC, Machine/Deep Learning, Big Data Analytics	Enterprise Applications, Databases, Data Preparation, VDI, Security, Storage, OLTP, Live Media,		vRAN, CDN, Retail, Healthcare, Security, Defense

Cold Aisle Support | Dell iDRAC Remote Management | Dell ProSupport & ProDeploy

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DELLTechnologies/Forum

Mainz | 05. November 2026

München | 10. Dezember 2026

Innovationen, inspirierende Keynotes, praxisnahes Lernen und Networking auf höchstem Niveau – alles an einem Ort.



Entdecken und diskutieren
Sie unsere Vision für die
Zukunft.



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Führungskräften, Architekten
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Ihr Unternehmen voran.



Werden Sie Teil der Dell
Technologies Community.

Vielen Dank

The Intel logo, consisting of the word "intel" in white lowercase letters on a blue square background.

 **Technologies**

thunder-IT

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