Unleash Intelligence in your data with Intel® Xeon® 6
in HPE ProLiant Compute Gen12

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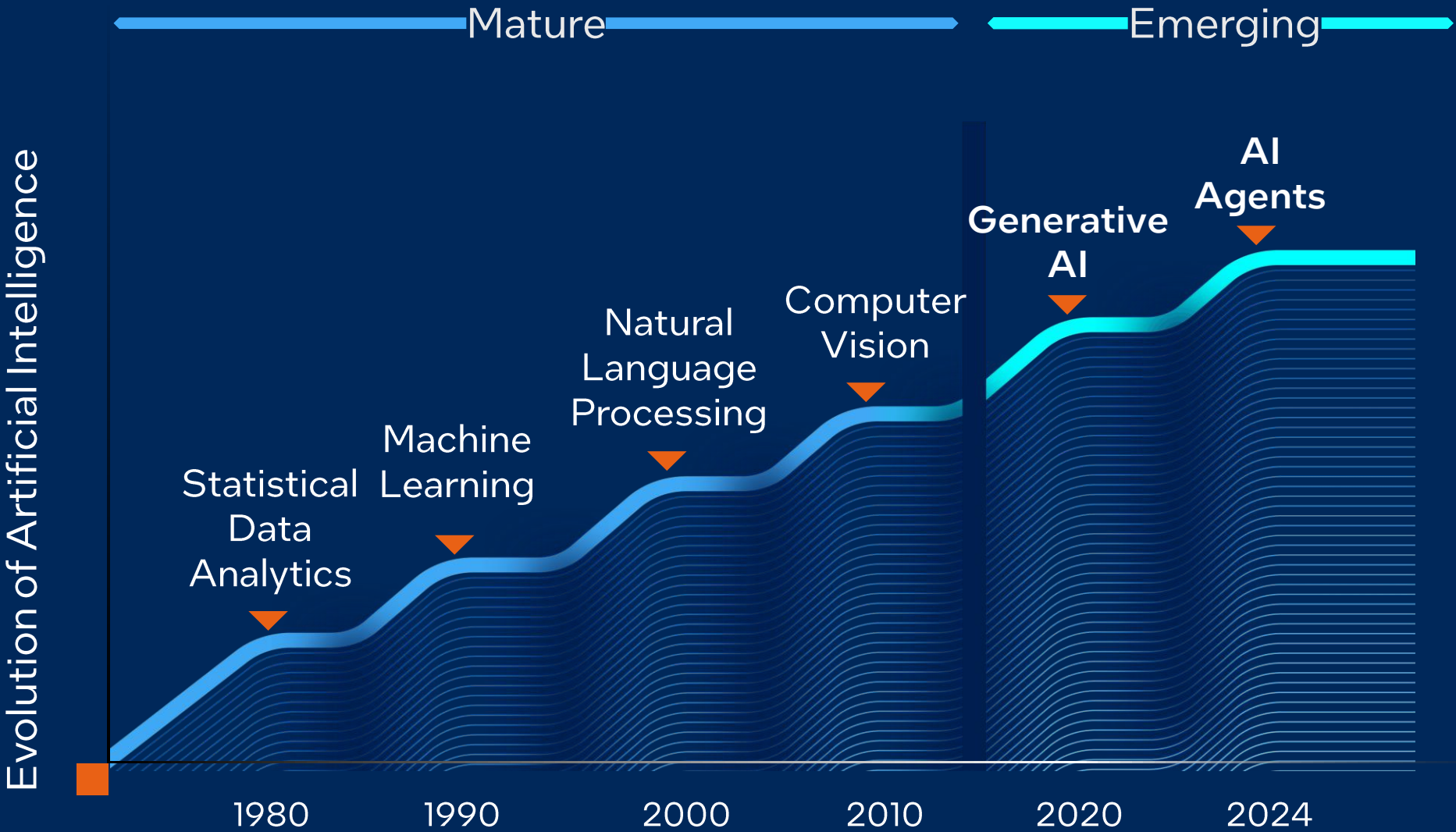
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Shifting the AI Conversation

From GenAI to Enterprise AI

Evolution of Intelligence in Enterprise use cases

Mature

Emerging

Evolution of Artificial Intelligence

Statistical Data Analytics

Machine Learning

Natural Language Processing

Computer Vision

Generative AI

AI Agents

1980   1990   2000   2010   2020   2024

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Corporations are Deploying AI into Many Use Cases

Example AI Use Cases by Industry

Industry			
Education	**Teacher Assistant**	Smart Campus	Adaptive Teaching
Health	Lab Automation	**Precision Medicine**	Medical Imaging
Finance	Algorithmic Trading	Customer Portfolio Assistant	**Risk / Credit Assessment**
Retail	Voice Ordering	**Order Automation**	Dynamic Promotions
Government	Gov Services Chatbot	Situational Awareness	**Live Language Translation**
Energy	**Energy Consumption Forecasting**	Operational Performance	Failure Prediction
Automotive	Attention Monitoring	Active Safety Risk Detection	**Adaptive Controls**
Manufacturing	**Factory Automation**	Quality Control	Robotics
Telco	Personalized Customer Services	**Network Automation**	Operational Performance

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HPE ProLiant Gen12 with Intel® Xeon® 6

Ecosystem | Choice, Domain Expertise, No lock-in.

Innovation | Edge to Datacenter & Cloud

Efficient | Right server for the job
Right size the solution

Secure | Data as your IP & Models as your IP

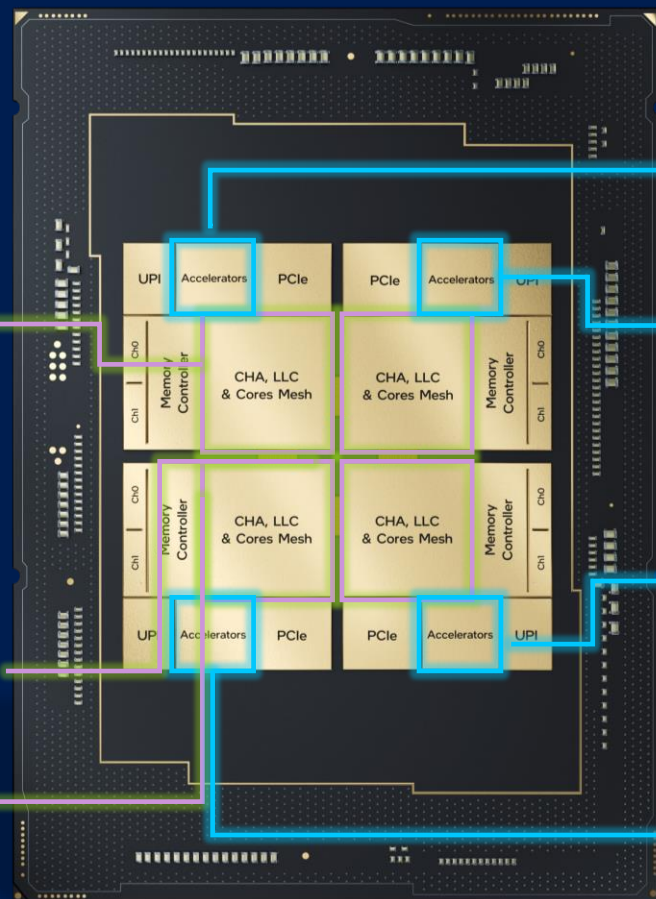# Xeon 6 is the world's best processor for AI with **Built-in Accelerators**

Part of the Instruction Set Architecture (ISA)

Always Available

Advanced Matrix Extensions (AMX)
to boost AI inference and training with 2d tiles operations

Advanced Vector Extensions 512 (AVX 512)

5GISA

Built-in Accelerators

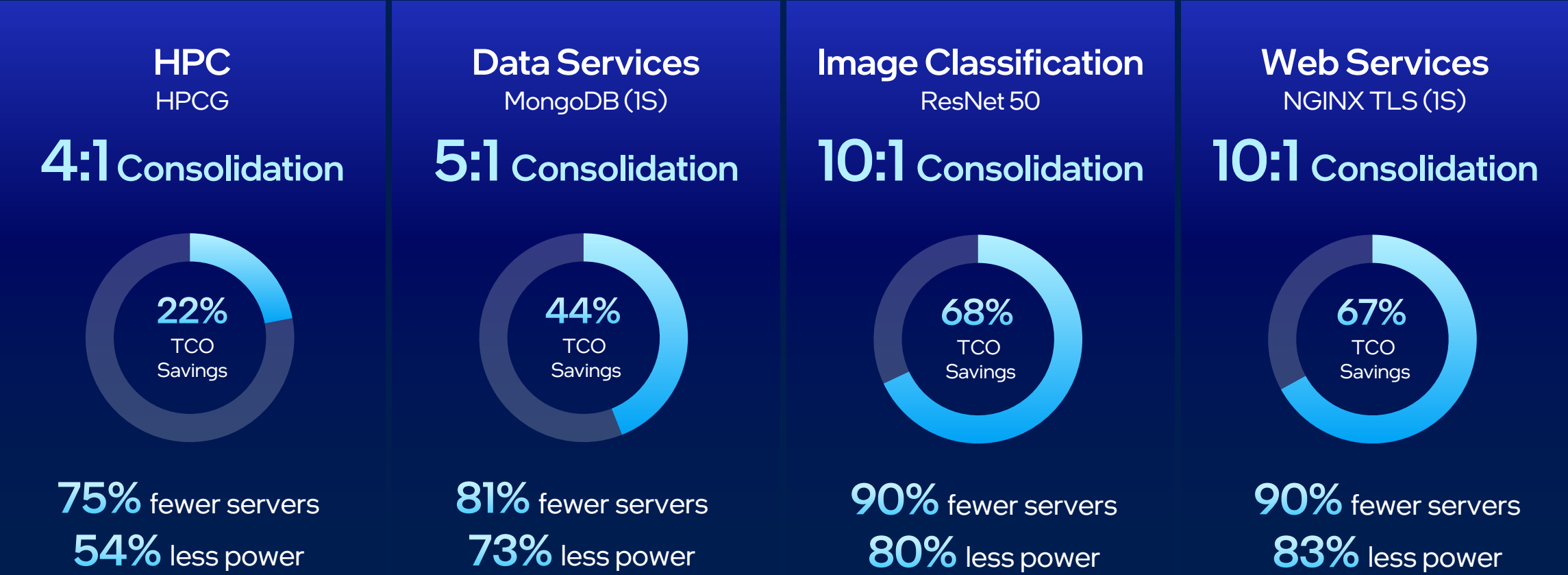**Intel® Data Streaming Accelerator (DSA)**
to speed up data movement

QuickAssist Technology (QAT)
for faster encryption and bulk data compression

In-Memory Analytics Accelerator (IAA)
to boost database performance with lower memory bandwidth

Dynamic Load Balancer (DLB)
to optimize queue scheduling and packet processing

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Refresh Aging Infrastructure to Save Space and Cost

Replace 2nd Gen Intel® Xeon® processor-based servers with Intel Xeon 6 processor-based servers

HPC
HPCG

4:1 Consolidation

22%
TCO Savings

75% fewer servers
54% less power

Data Services
MongoDB (1S)

5:1 Consolidation

44%
TCO Savings

81% fewer servers
73% less power

Image Classification
ResNet 50

10:1 Consolidation

68%
TCO Savings

90% fewer servers
80% less power

Web Services
NGINX TLS (1S)

10:1 Consolidation

67%
TCO Savings

90% fewer servers
83% less power

*Estimated over 4 years. See [7T21, 7T22 , 7T25 ,7T26] intel.com/processorclaims: Intel Xeon 6. Results may vary.

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Three Decades of Integrating AI Into Our Enterprise

Cuts Downtime and Costs with Fault Detection Systems

Improve manufacturing productivity

10x	66%
Less Expensive	Less downtime

Smart Manufacturing Using Computer Vision and AI for Inline Inspection

Supply chain resilience

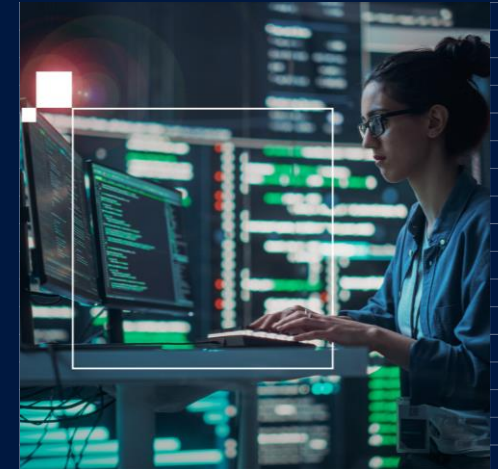| $2M	90s
Savings / year	For 20GB Processing

Autonomous Quality in AI Model Productization

Employee productivity

$1.5B	500
AI Value generated	new models deployed in one year

Call to Action: Infuse Intelligence with Intel® Xeon® 6 and HPE Proliant Compute Gen 12

Video Cameras

Static Images

Chat Bots

AI optimized

4U, 2P
HPE ProLiant Compute
DL380a Gen12

TCO/Power optimized

1U, 1P
HPE ProLiant Compute
DL320 Gen12

2U,1P
HPE ProLiant Compute
DL340 Gen12

VM/Data, Density optimized

1U, 2P
HPE ProLiant Compute
DL360 Gen12

2U, 2P
HPE ProLiant Compute
DL380 Gen12

Blade optimized

HPE Synergy
SY480 Gen12

SMB/Edge optimized

2P Tower
HPE ProLiant Compute
ML350 Gen12

Big Data optimized

4U, 4P
HPE ProLiant Compute
DL580 Gen12

HPE | **intel®**

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Performance varies by use, configuration and other factors. Learn more on the <u>Performance Index site</u>.

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure. Results have been estimated or simulated.

Your costs and results may vary.

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Thank You