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Investor Meeting 2022

Accelerated Computing Systems & Graphics

Raja Koduri

Senior Vice President

General Manager, AXG

intel

AXG

Key Takeaways

Insatiable Compute Demand

Petascale end-points, Exascale Edge and Zettascale Data Centers over next 5 years

Unleashing our Technology Foundation

of Process Nodes, Packaging, Memory, Interconnect, Architecture and Software IP

Energized Execution Engine

with a comprehensive HW+SW roadmap, products launching this year across HPC – AI, media, and gaming supercomputers

Approaching $10B* Revenue by '26

and Estimated >$1B Revenue in '22

*AXG revenue includes intersegment graphics royalty that is eliminated in Intel consolidated results. This royalty is approximately $700M in 2021, growing to approximately $1B in 2026.

Democratization of

Core Computing

PC Era
1B+ Internet Connected Devices

Web 1.0 - Consume

+ x86

Digitize Everything

Mobile + Cloud Era
10B+ Cloud Connected Devices

Web 2.0 - Consume + Create

+ x86

Connect Everyone

Pervasive Intelligence Era
100B+ Edge Connected Devices

Web 3.0 - Consume + Create + Own

Empower Everyone

Open Standards

x86 Xe oneAPI

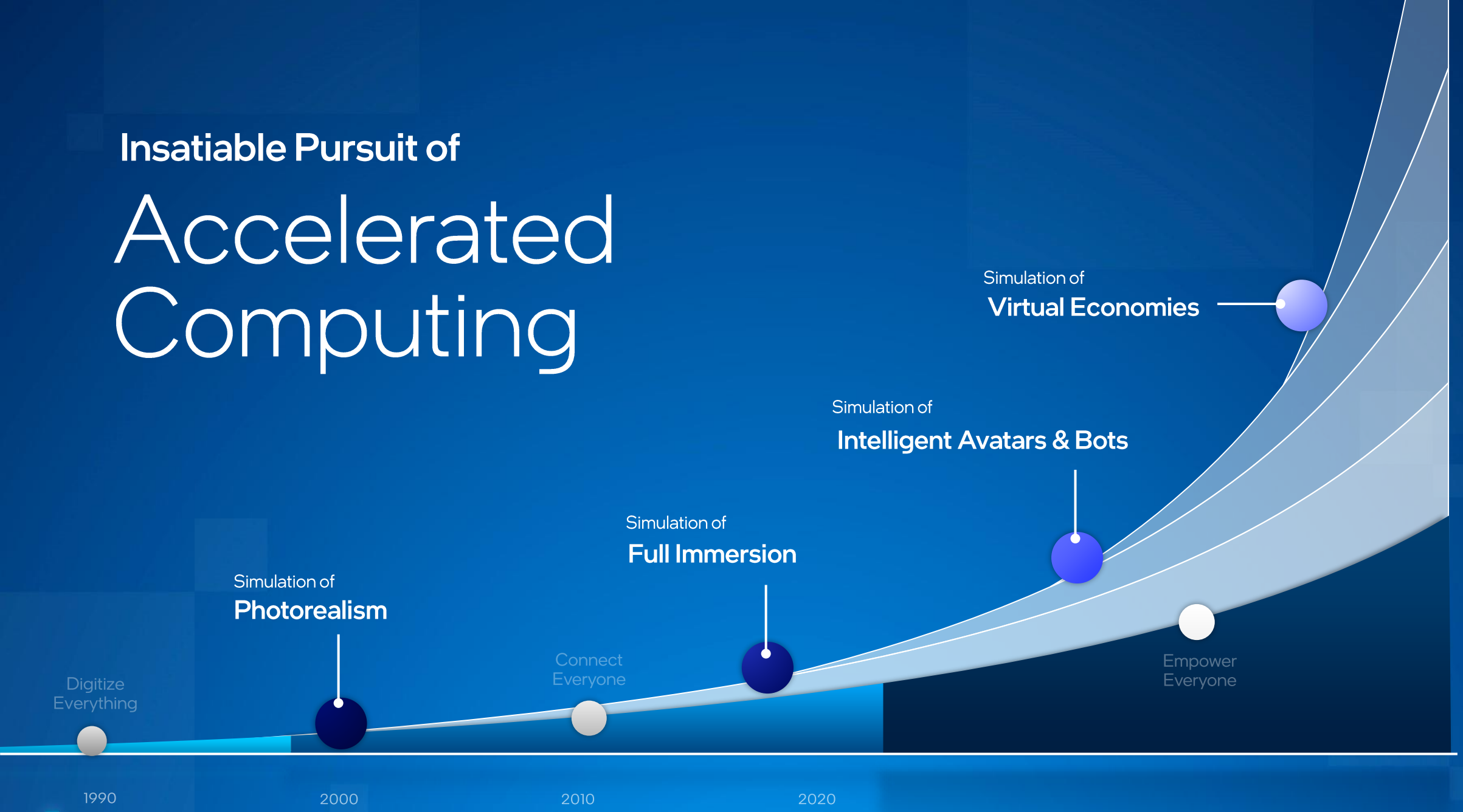
1980 1990 2000 2010 2020

10^{21} 10^{18} 10^{15} 10^{9} 10^{4}

Zetta Exa Peta Tera Compute

Insatiable Pursuit of

Accelerated Computing

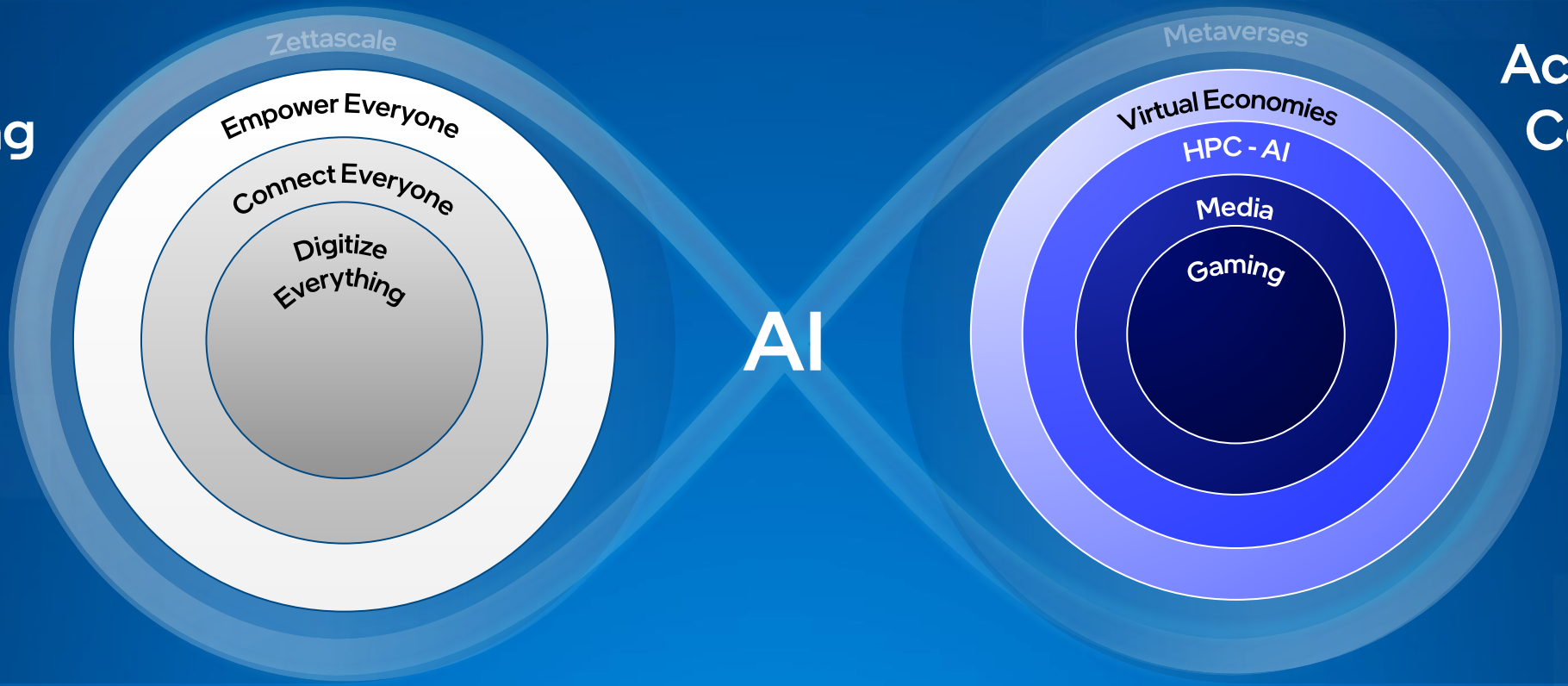


Insatiable Compute Demand

driven by "AI everywhere" and "Persistent immersive web" trending to

Core Computing

Existential Needs



Accelerated Computing

Exploratory Simulation

Insatiable Compute Demand

driven by "AI everywhere" and "Persistent immersive web" trending to

End-Points
PC

10^{15}

Peta

Edge
Network

10^{18}

Exa

Data Center
Cloud

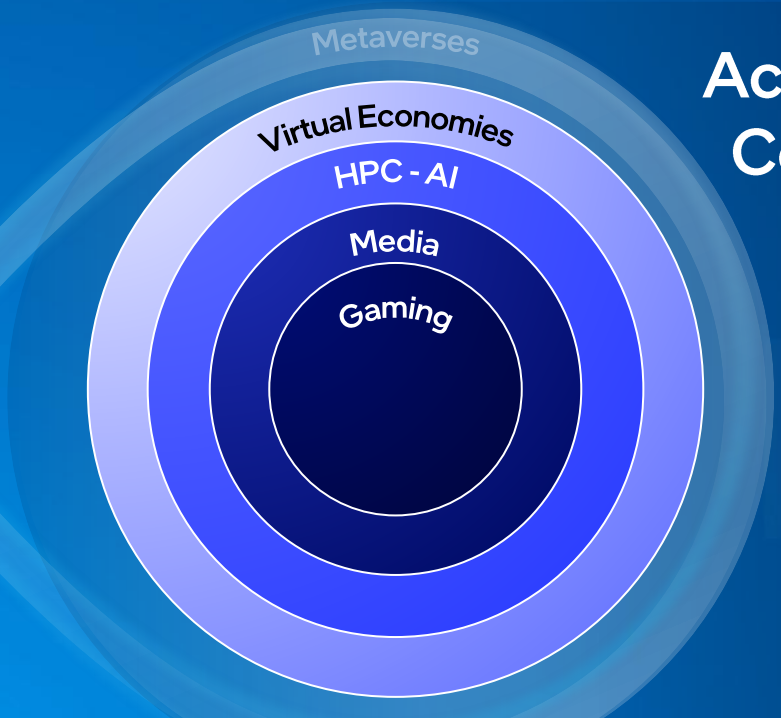
10^{21}

Zetta

Core Computing

Existential Needs

AI

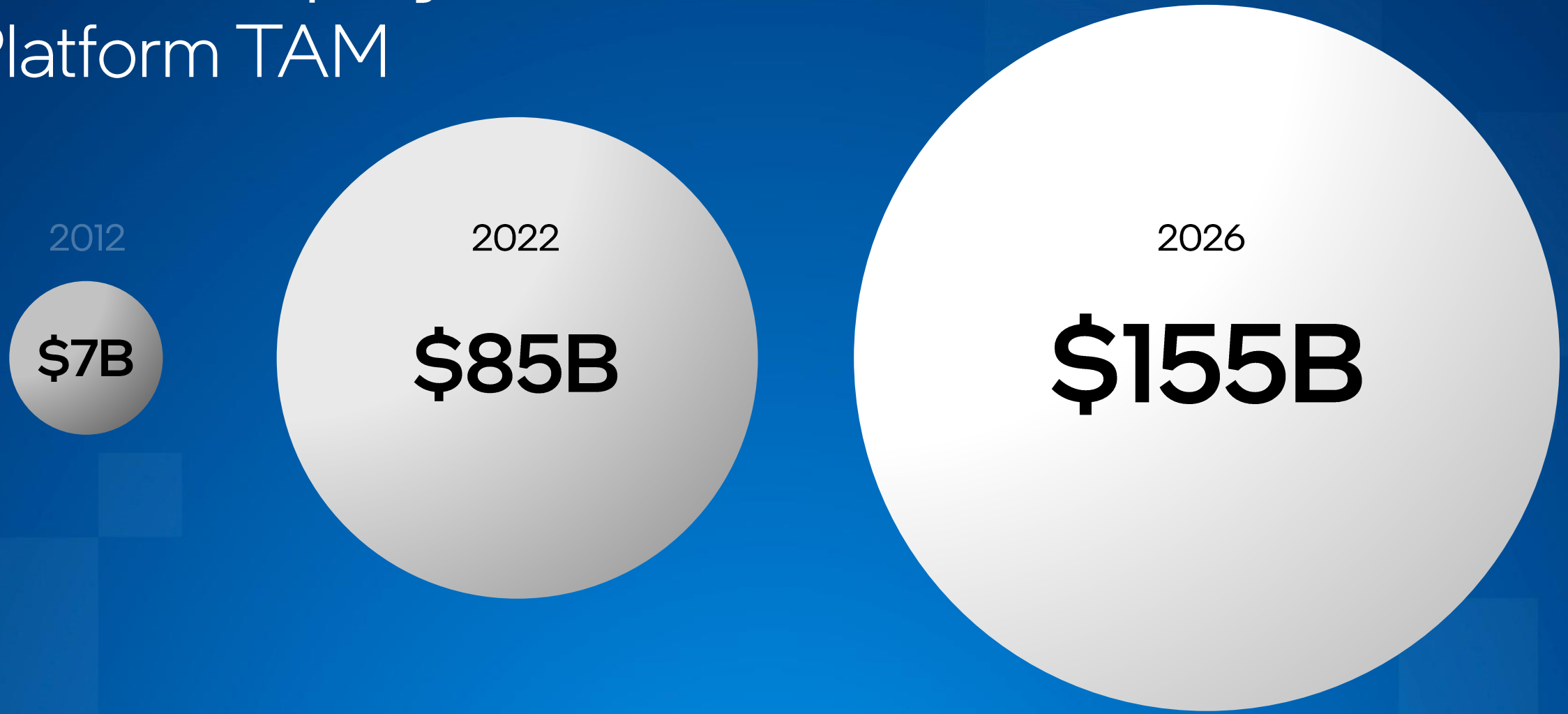


Accelerated Computing

Exploratory Simulation

Accelerated Computing

Platform TAM

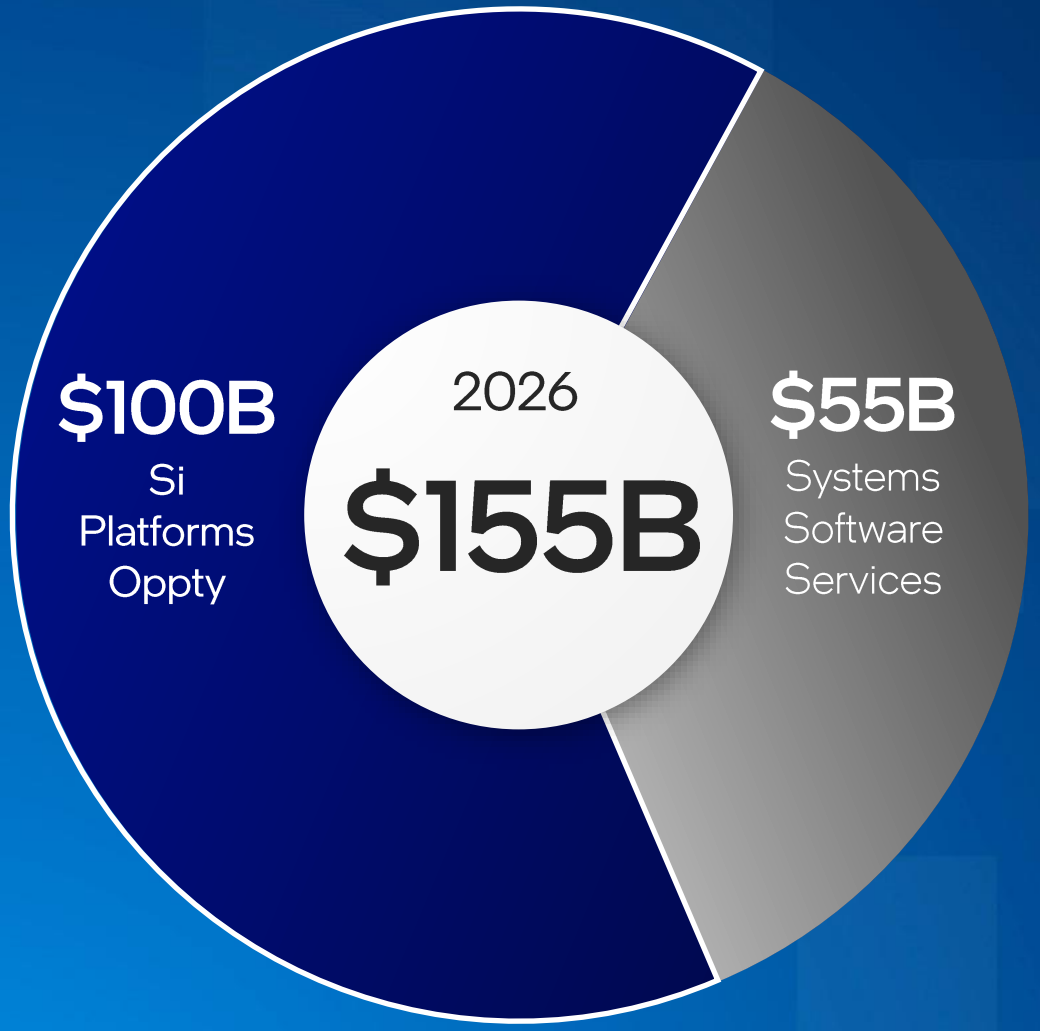


Source: Intel estimates, incorporating data from IDC, ABI Research, Global Market Insights, Strategy Analytics, Hyperion Research

intel

AXG

Focus



intel

AXG

Segments

Super Compute

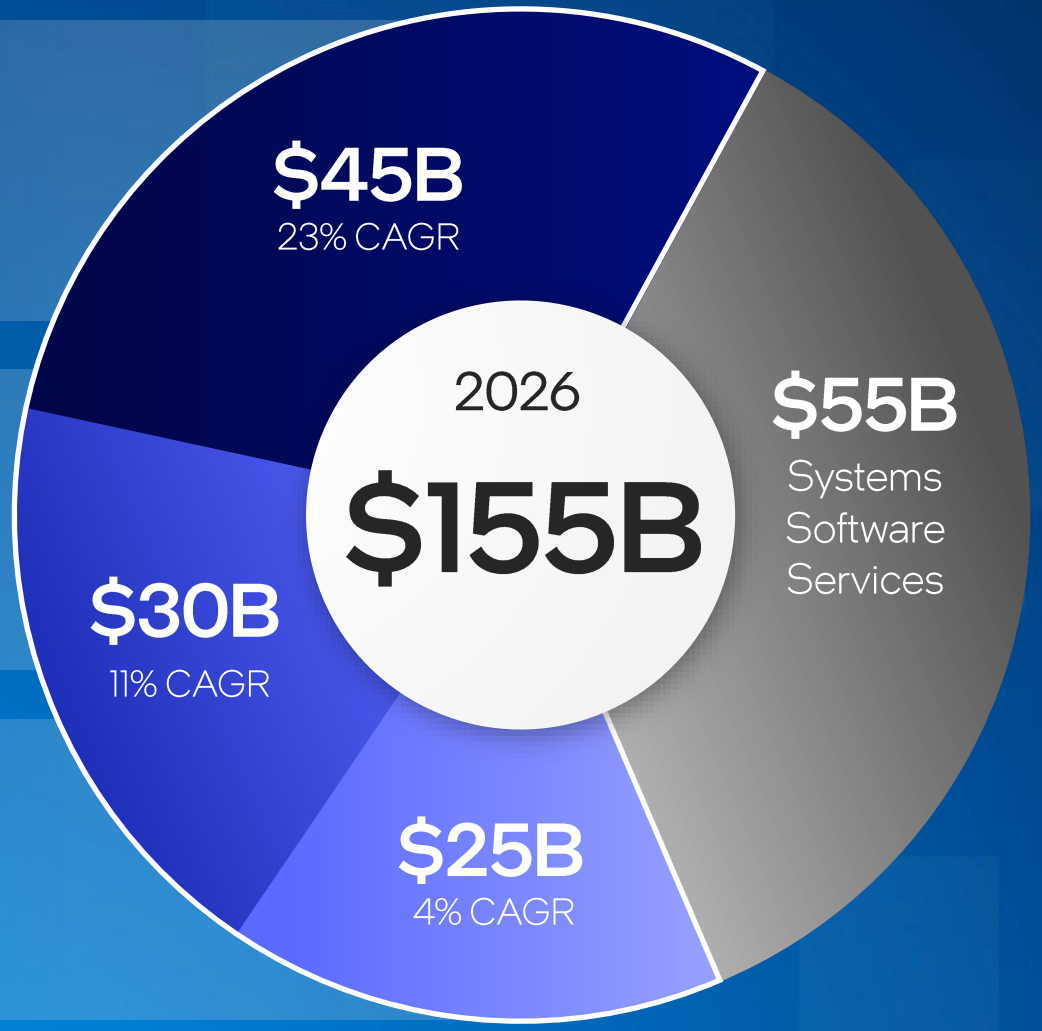
HPC - AI
Media

Custom Compute

Blockchain
Supercomputing at the Edge

Visual Compute

Gaming
Content Creation
Metaverse



intel

AXG

Growth Target

Approaching

$10B*

*AXG revenue includes intersegment graphics royalty that is eliminated in Intel consolidated results. This royalty is approximately $700M in 2021, growing to approximately $1B in 2026.

SW

Arch

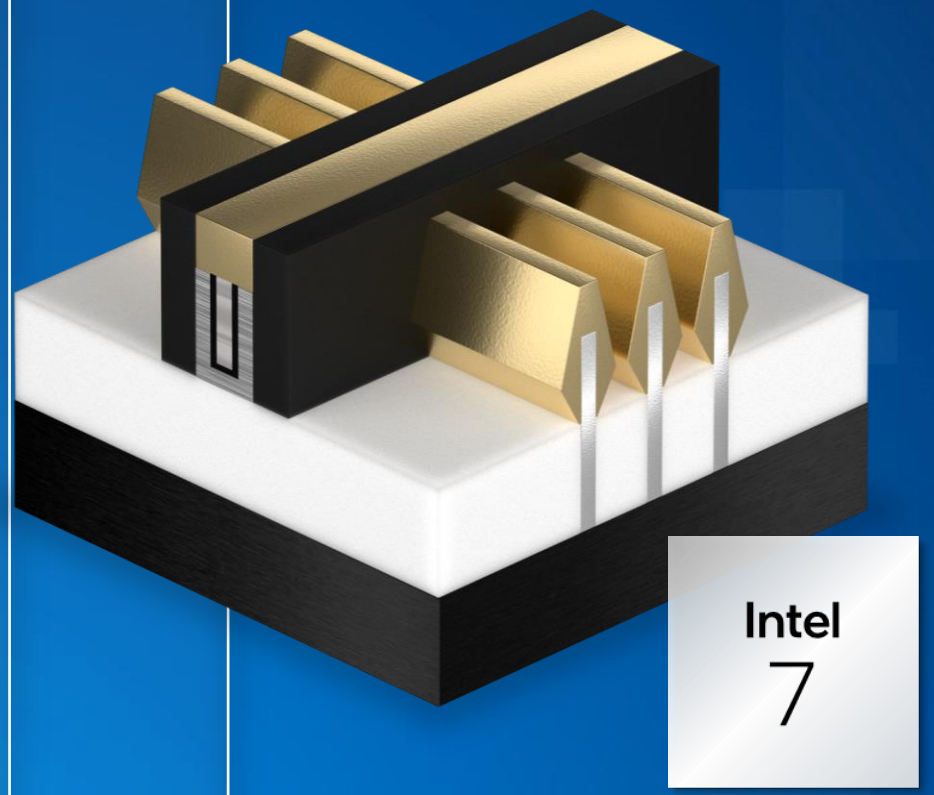
I/O

Memory

Packaging

Process

Unleashing our Technology Foundation



Unleashing our Technology Foundation

SW

Arch

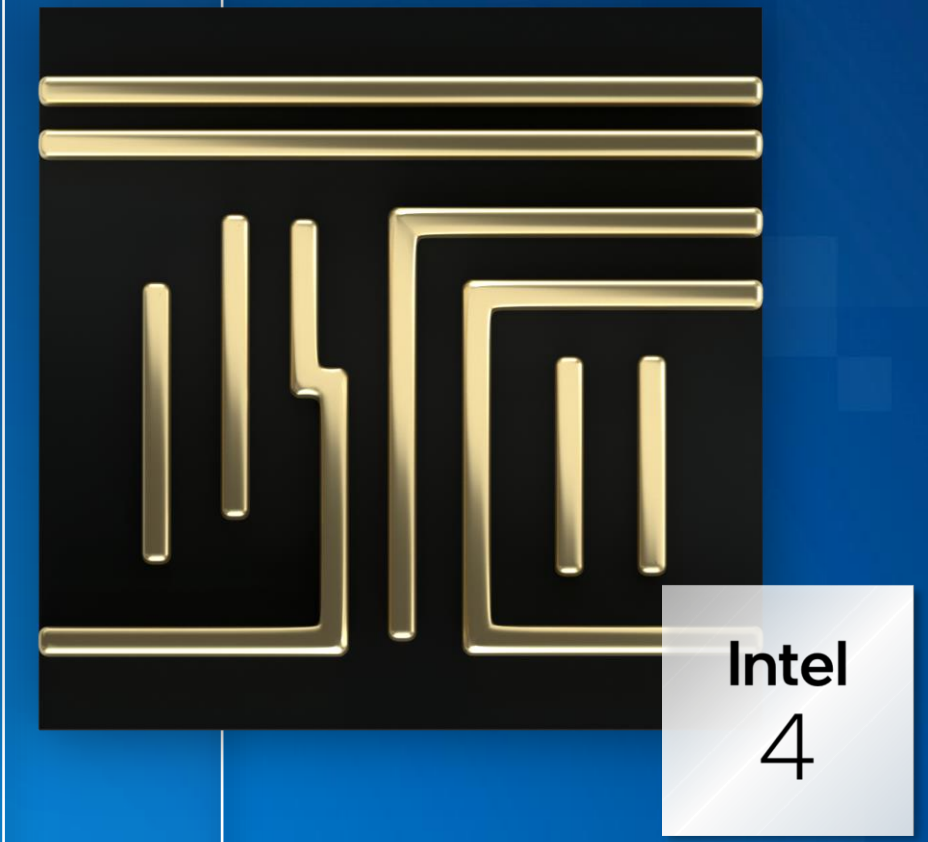
I/O

Memory

Packaging

Process

Intel 7



SW

Arch

I/O

Memory

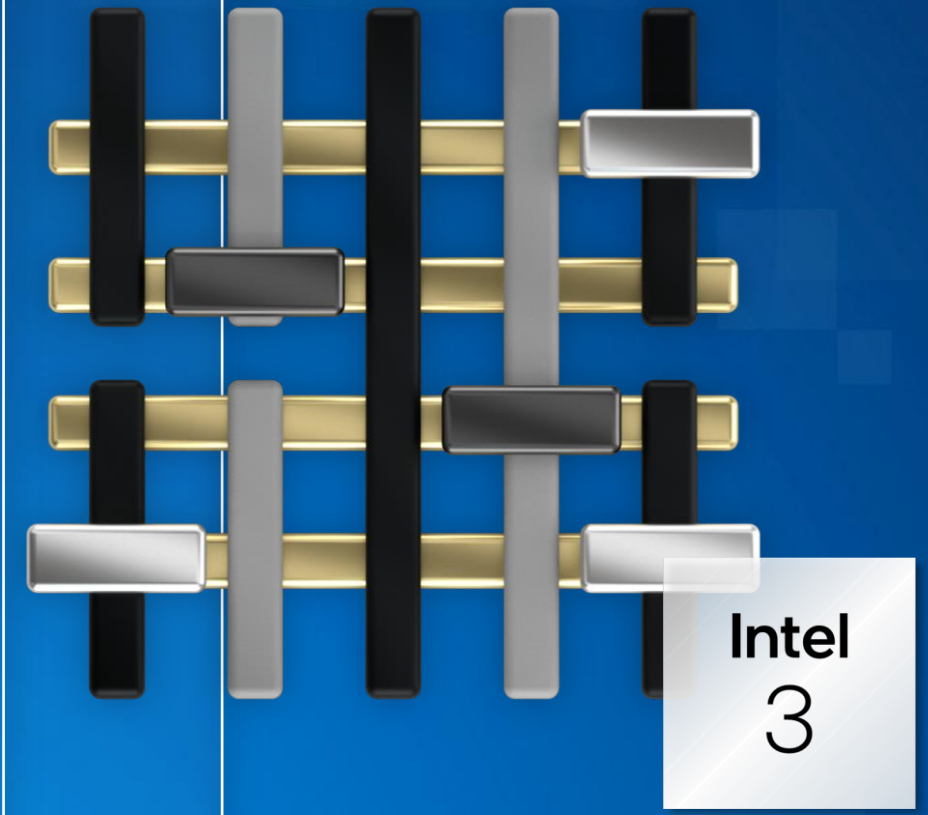
Packaging

Process

Intel 7

Intel 4

Unleashing our Technology Foundation



SW

Arch

I/O

Memory

Packaging

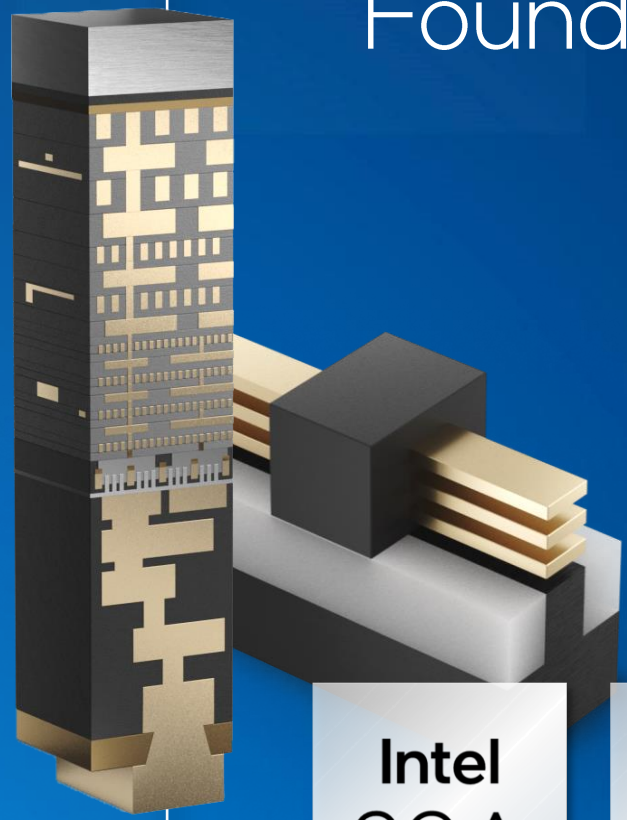
Process

Intel 7

Intel 4

Intel 3

Unleashing our Technology Foundation



Intel 20A

Intel 18A

SW

Arch

I/O

Memory

Packaging

Process

Intel 7

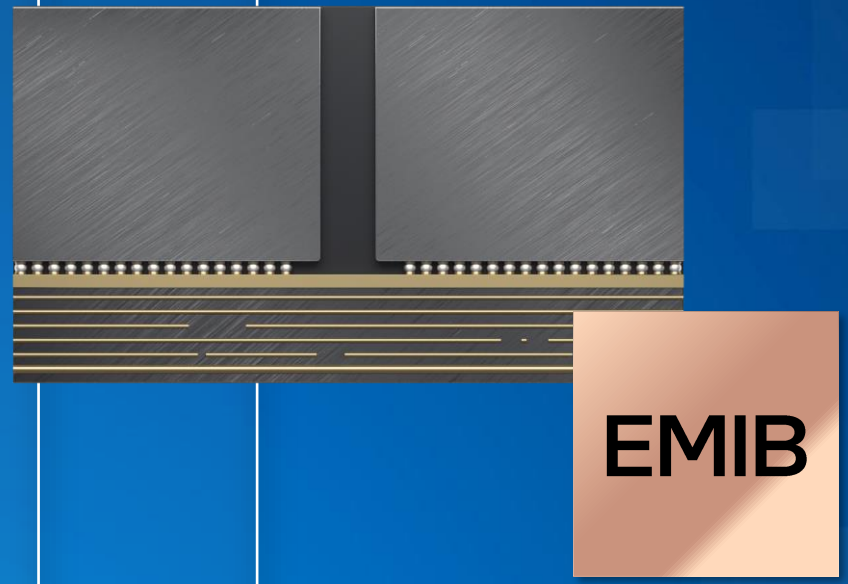
Intel 20A

Intel 4

Intel 18A

Intel 3

Unleashing our Technology Foundation



Unleashing our Technology Foundation

SW

Arch

I/O

Memory

Packaging

Process

EMIB

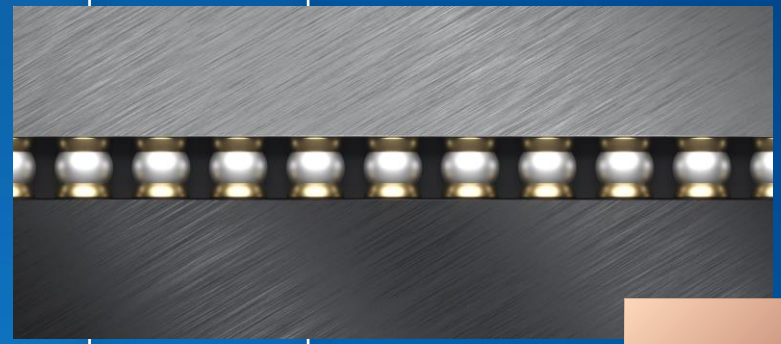
Intel 7

Intel 20A

Intel 4

Intel 18A

Intel 3



Foveros

Unleashing our Technology Foundation

SW

Arch

I/O

Memory

Packaging

Process

Intel 7

Intel 20A

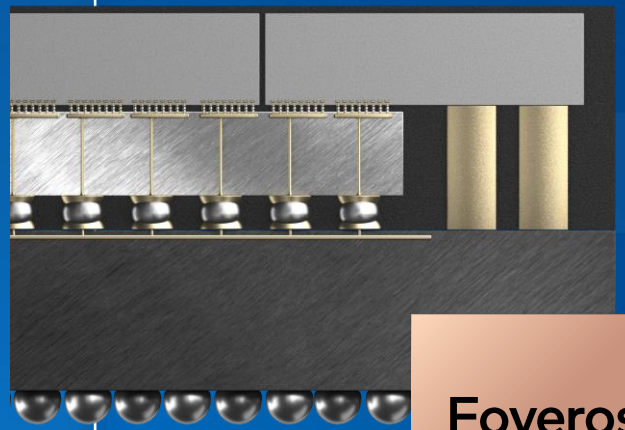
Intel 4

Intel 18A

Intel 3

EMIB

Foveros



Foveros Omni

Unleashing our Technology Foundation

SW

Arch

I/O

Memory

Packaging

Process

Intel 7

Intel 20A

Intel 4

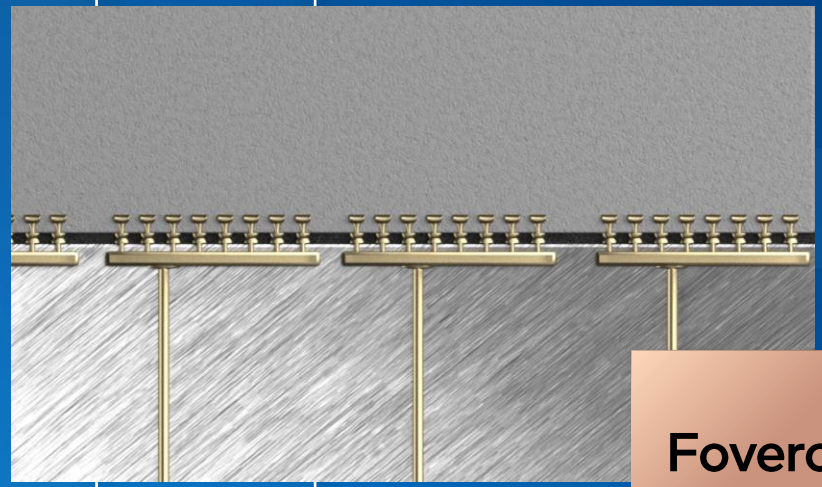
Intel 18A

Intel 3

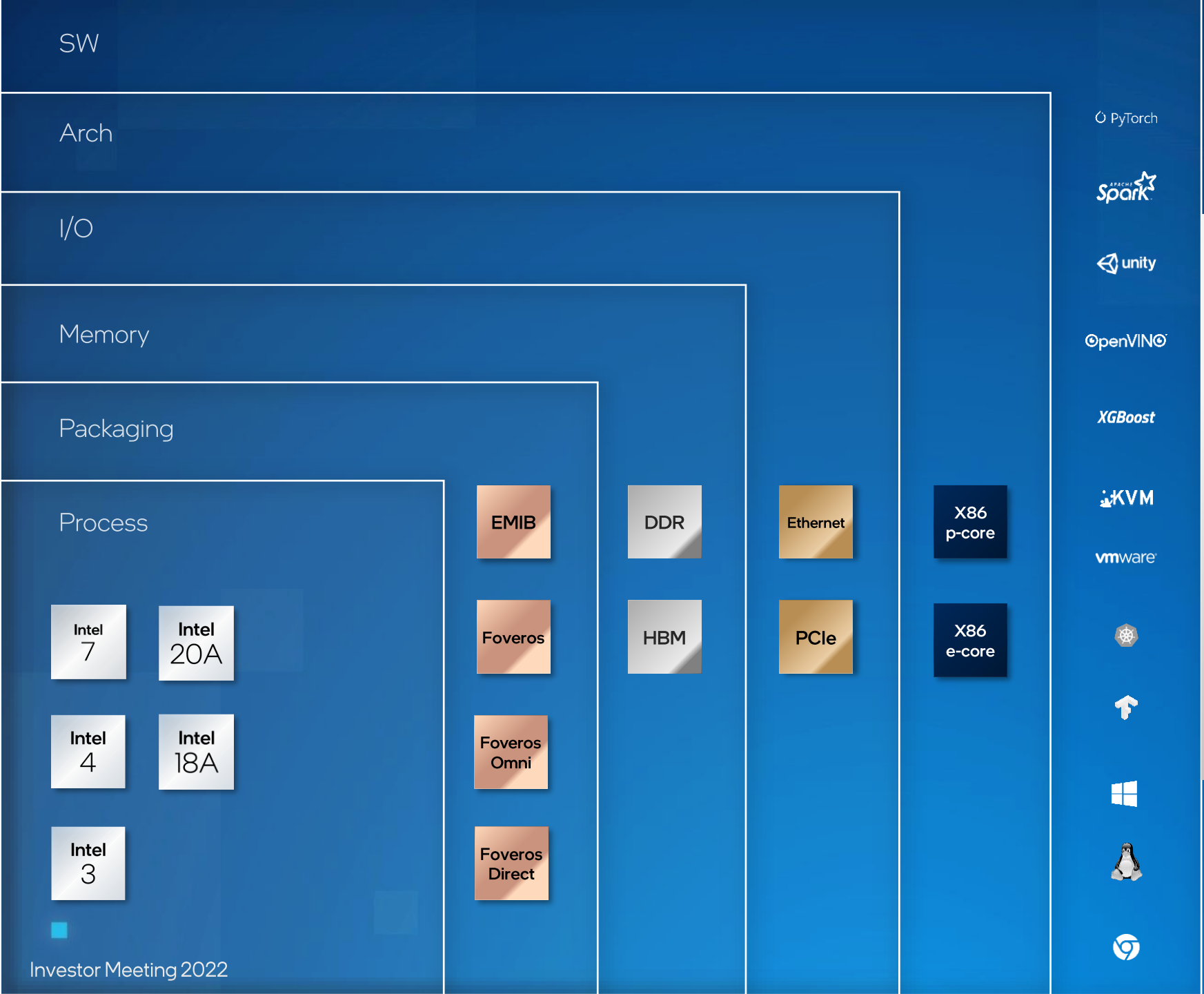
EMIB

Foveros

Foveros Omni



Foveros Direct



Expansive World-Class IP Portfolio

SW

Arch

I/O

Memory

Packaging

Process

Intel 7

Intel 20A

Intel 4

Intel 18A

Intel 3

EMIB

Foveros

Foveros Omni

Foveros Direct

DDR

HBM

Ethernet

PCIe

X86 p-core

X86 e-core

PyTorch

Spark

unity

OpenVINO

XGBoost

KVM

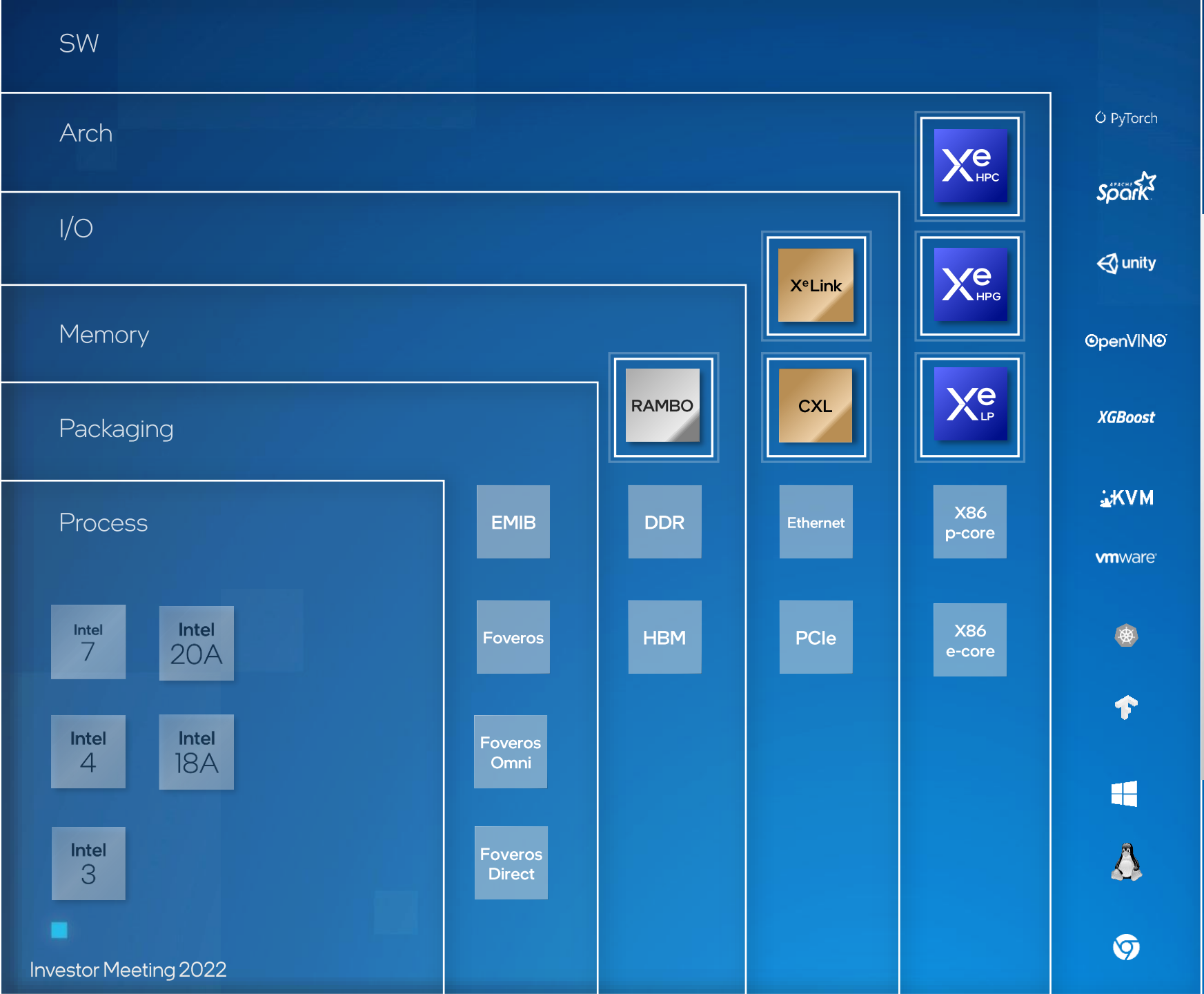
vmware

Xe HPC

Xe HPG

Xe LP

Investor Meeting 2022



Supercharging our IP Foundation

SW

Arch

I/O

Memory

Packaging

Process

Intel 7

Intel 20A

Intel 4

Intel 18A

Intel 3

EMIB

Foveros

Foveros Omni

Foveros Direct

RAMBO

DDR

HBM

XeLink

CXL

Ethernet

PCIe

Xe HPC

Xe HPG

Xe LP

X86 p-core

X86 e-core

PyTorch

Spark

unity

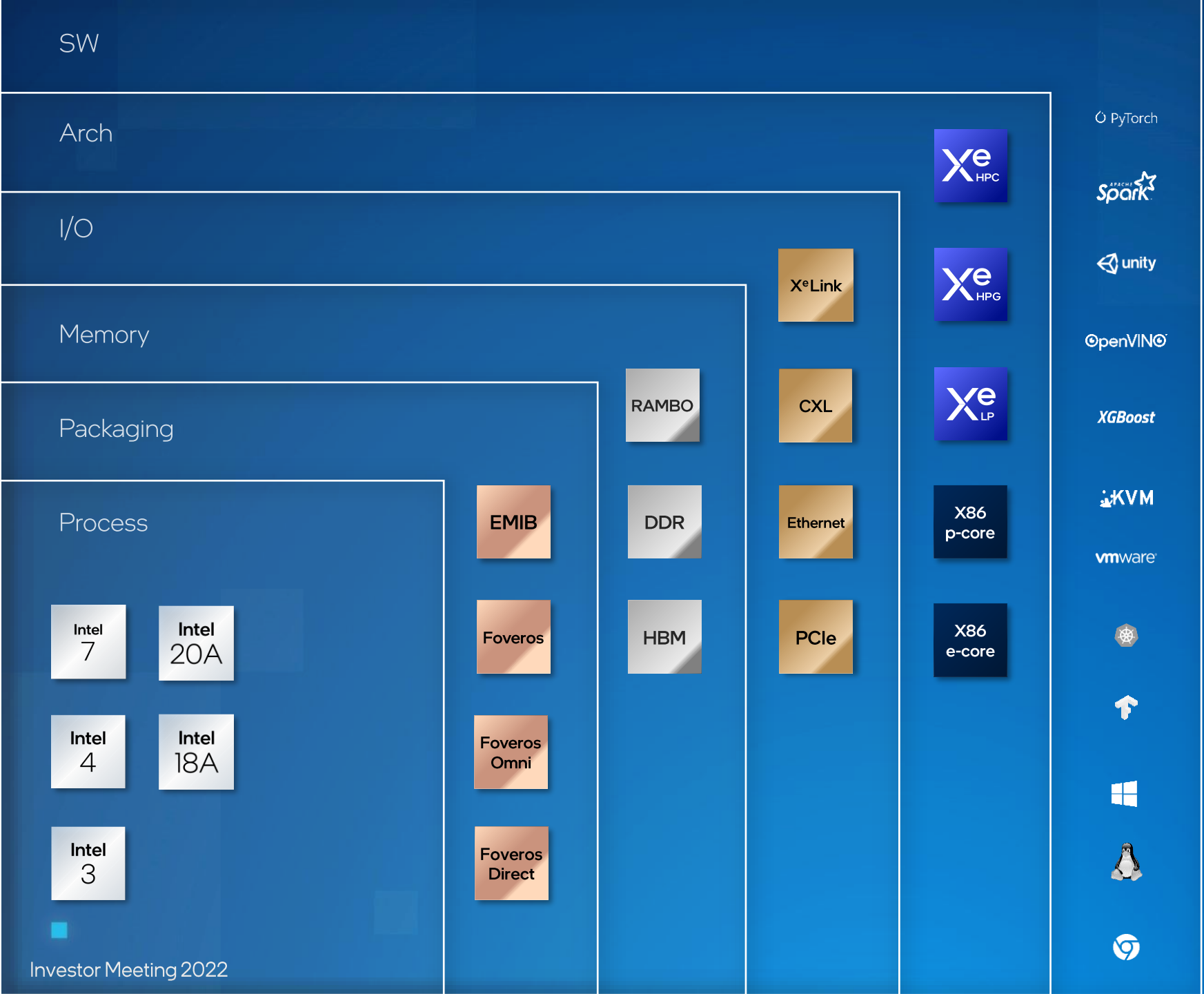
OpenVINO

XGBoost

KVM

vmware

IDM 1.0



IDM 2.0

Flexibility & Agility

SW

Arch

I/O

Memory

Packaging

Design Services

Process

Intel 7 | Intel 4 | Intel 3 | Intel 20A | Intel 18A

TSMC N7 | N6 | N5 | ...

synopsys | cadence | Rambus

EMIB | Foveros | Foveros Omni | Foveros Direct

RAMBO | DDR | HBM

XeLink | CXL | Ethernet | PCIe

Xe HPC | Xe HPG | Xe LP | X86 p-core | X86 e-core

PyTorch | Spark | unity | OpenVINO | XGBoost | KVM | vmware

No Wafer Left Behind

SW

Arch

I/O

Memory

Packaging

Design Services

Process

Intel 7 | Intel 4 | Intel 3 | Intel 20A | Intel 18A

TSMC N7 | N6 | N5 | •••

SYNOPSYS

cadence

Rambus

EMIB

Foveros

Foveros Omni

Foveros Direct

DDR

HBM

Ethernet

PCIe

Link

XL

Xe HPC

Xe HPG

Xe LP

X86 p-core

X86 e-core

PyTorch

Spark

unity

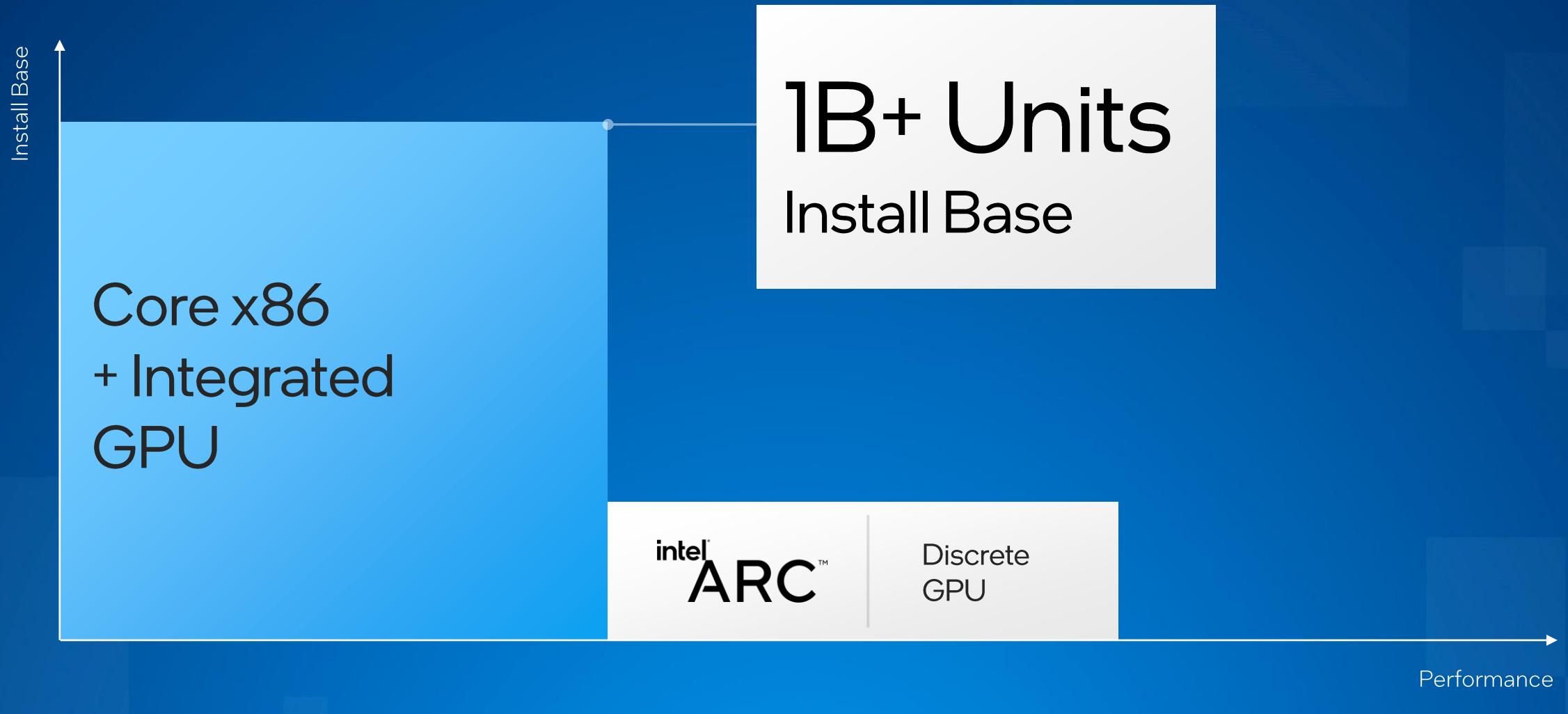
OpenVINO

XGBoost

KVM

vmware

Visual Compute Product Strategy



Visual Compute Product Strategy

Visual Compute Roadmap

Ultra Enthusiast

Enthusiast

Performance

Mainstream

Entry

Deep Link

intel ARC™ Alchemist

Alder Lake & Raptor Lake

2022

Visuals for illustrative purposes only

50+ Design Wins

Across Key OEMs and AICs

100+ SW Partners

Xe Super Sampling Ready Games &
Deep Link Accelerated Apps

2022 Rollout

Notebook Q1, Desktop Q2, Workstation Q3

intel ARC™ Alchemist

4+ Million
units in 2022

Path to Persistent Immersive Web

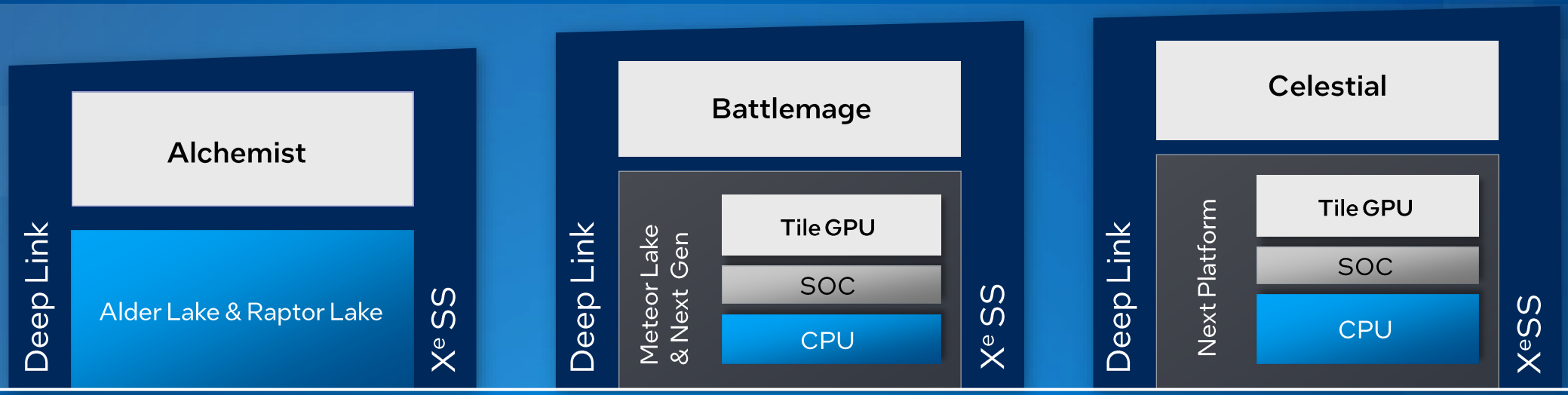
Infrastructure Layer

Project
Endgame

Launch in 2022

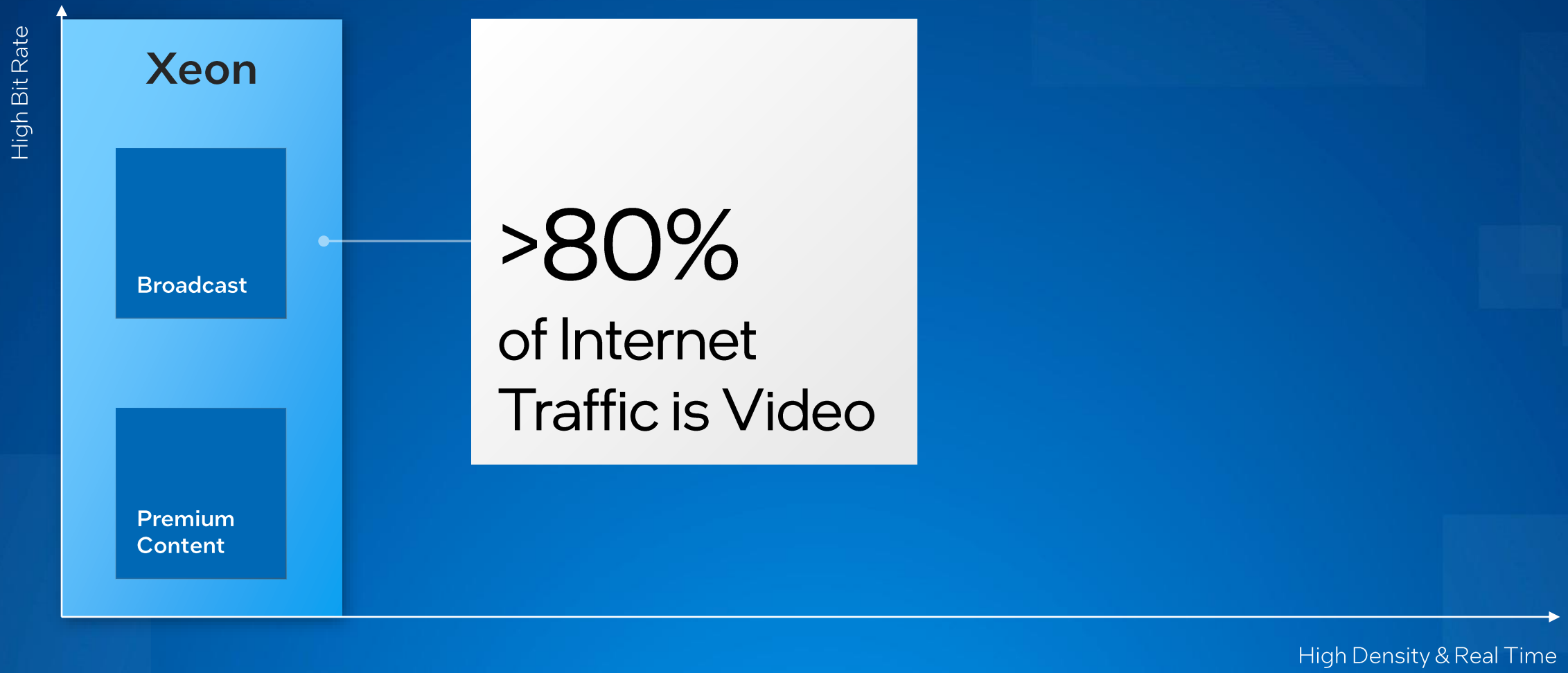
Continual XPU Compute
as a Service

Compute Layer



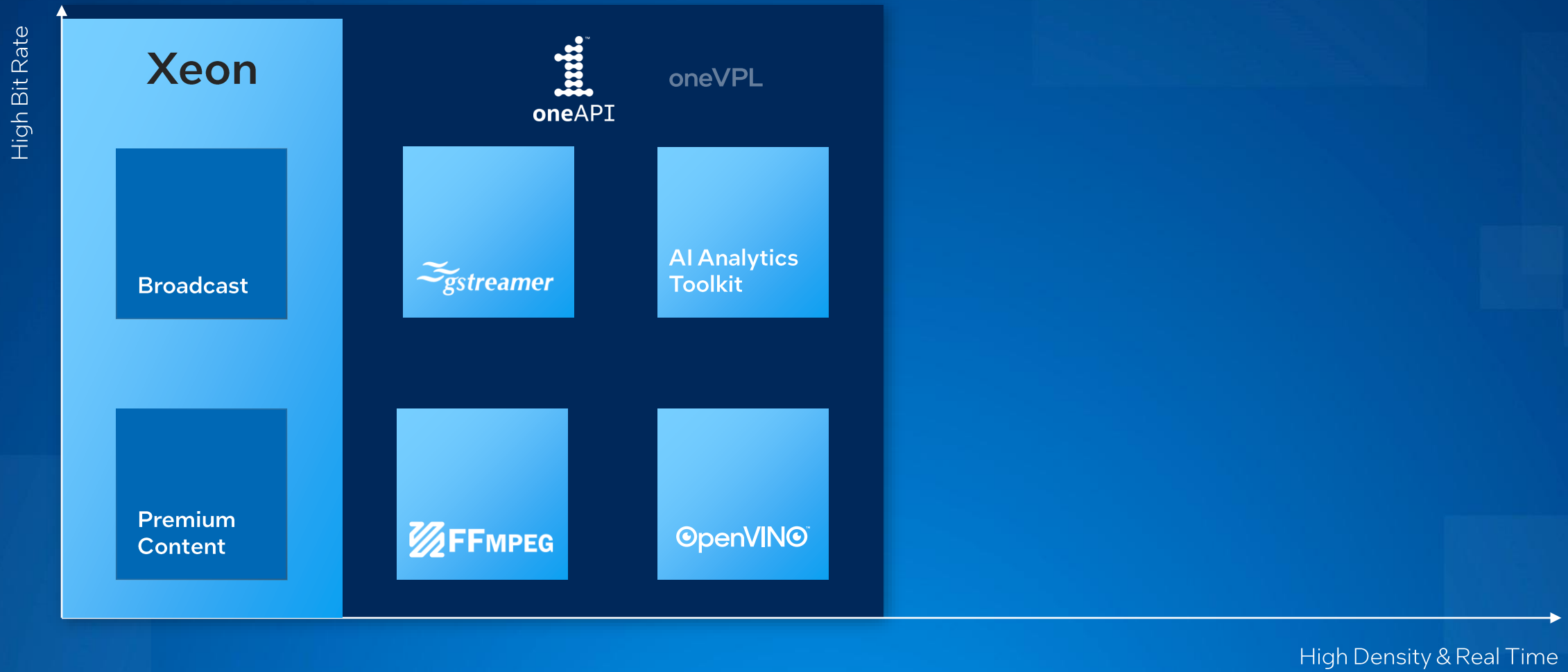
2022 | 2023-2024 | 2024+

Media Super Compute Strategy

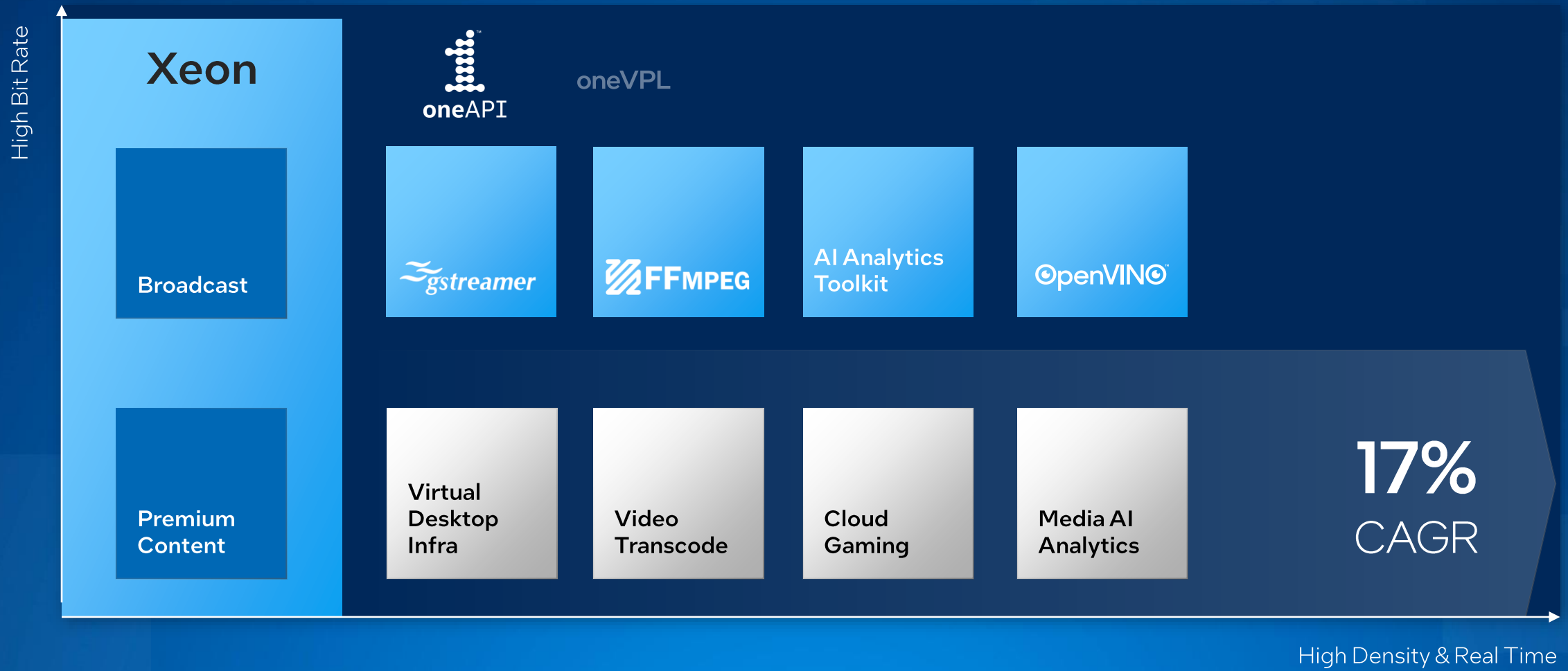


Source: Cisco Global 2021 Forecast Highlights

Media Super Compute Strategy

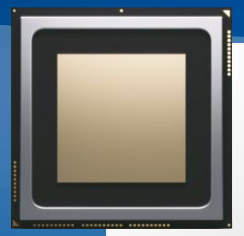


Media Super Compute Strategy

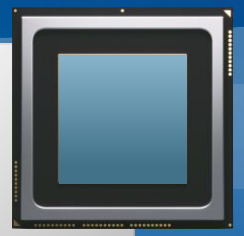


Source: Mhojhos Research

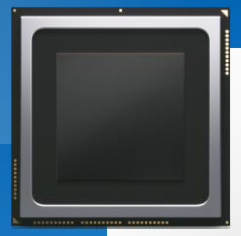
Discrete Solutions Today



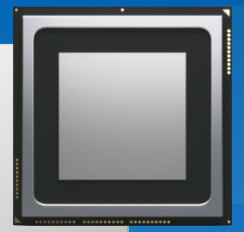
Video Transcode



Cloud Gaming



Virtual Desktop Infra



Media AI Analytics

Media Supercomputer

Arctic Sound - M

Sampling Today | Shipping Mid 2022

Video Transcode

8 Simultaneous 4K Streams

30+ Simultaneous 1080p Streams

Virtual Desktop Infra

60+

Virtualized Functions

Cloud Gaming

30+

Game Streams [1]

Media AI Analytics

150

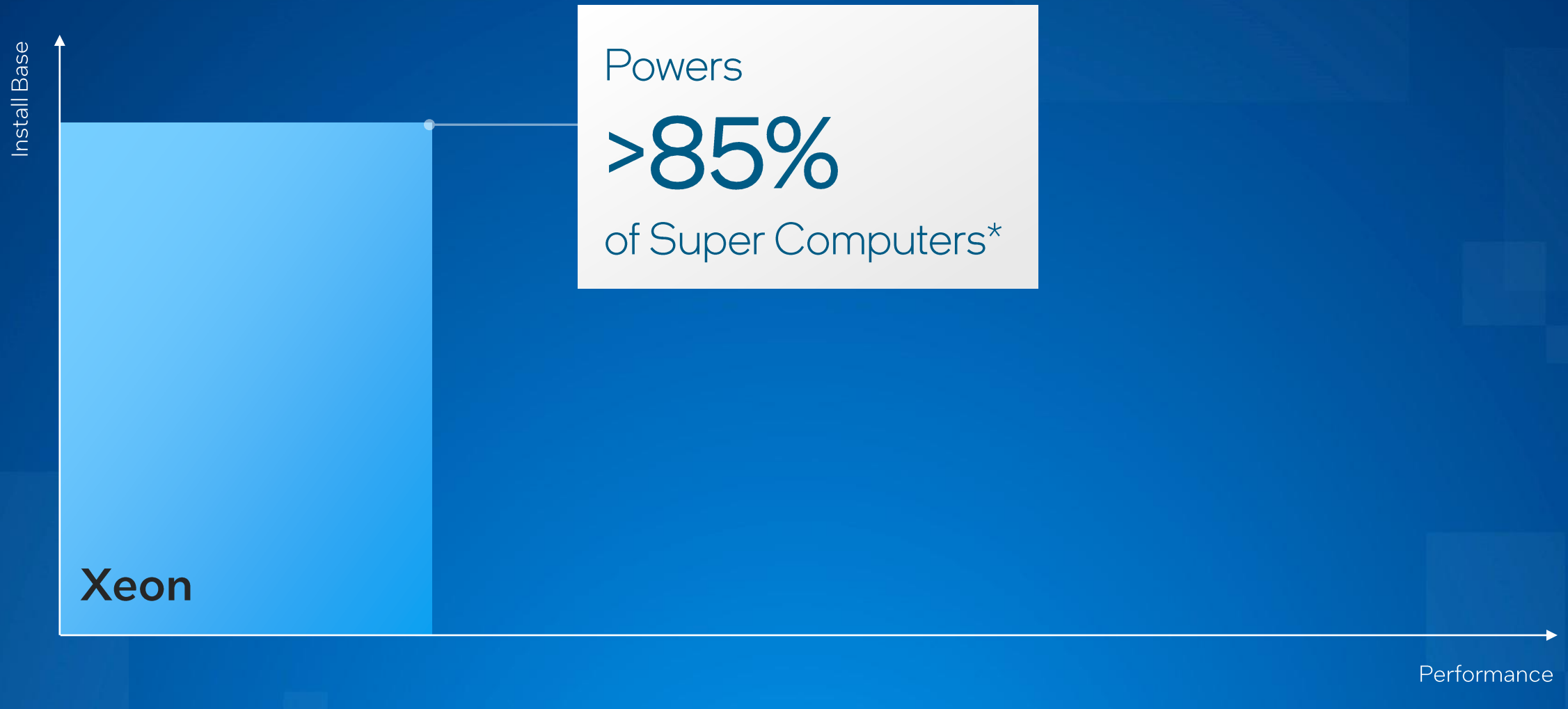
TOPS [2]

Industry's Only	Open-Source Media Solution Stack
Industry's First	GPU with AV1 Encode

[1] 720p30 Android Games [2] INT 8

HPC - AI Super Compute Strategy

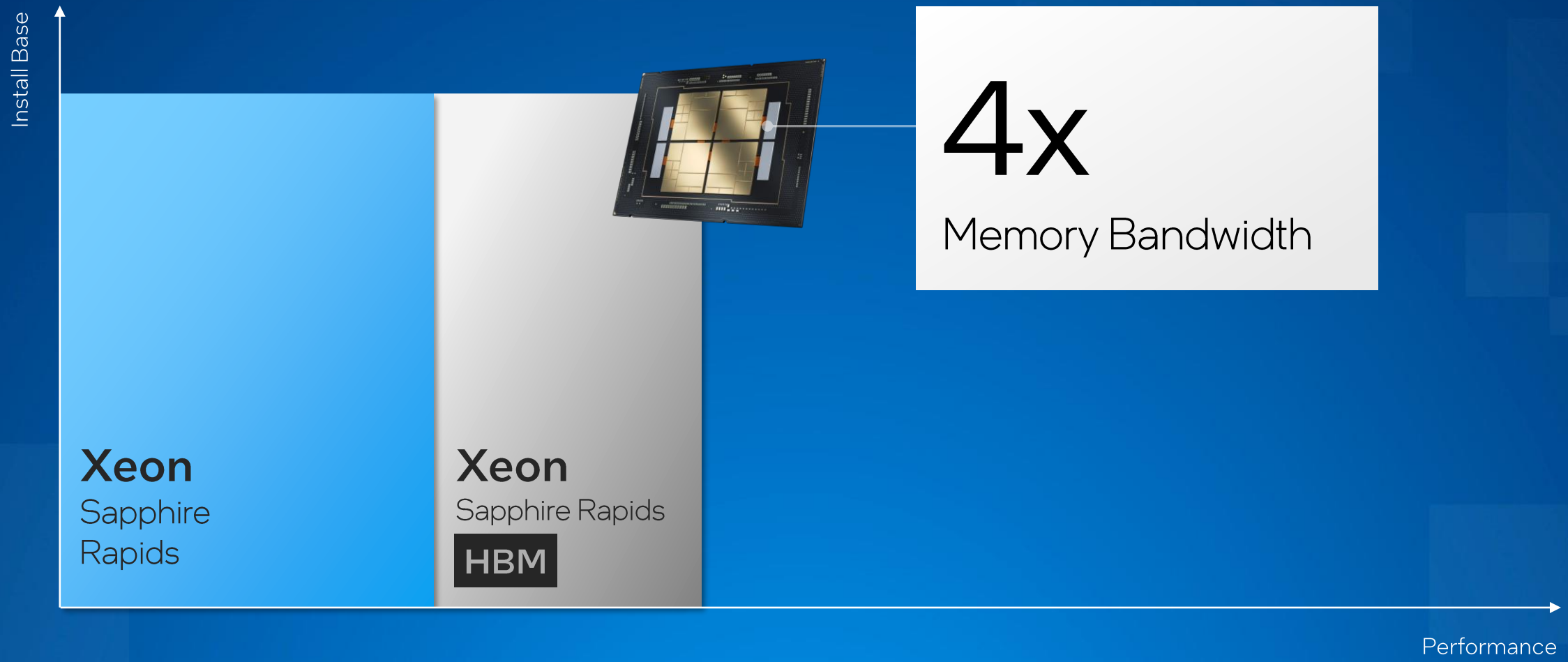
Wave 1 | 2022



* Based on TOP500 list over past decade

HPC - AI Super Compute Strategy

Wave 1 | 2022



HPC - AI Super Compute Strategy

Wave 1 | 2022

HPC - AI Super Compute Strategy

Wave 1 | 2022

Super-Charged CPU

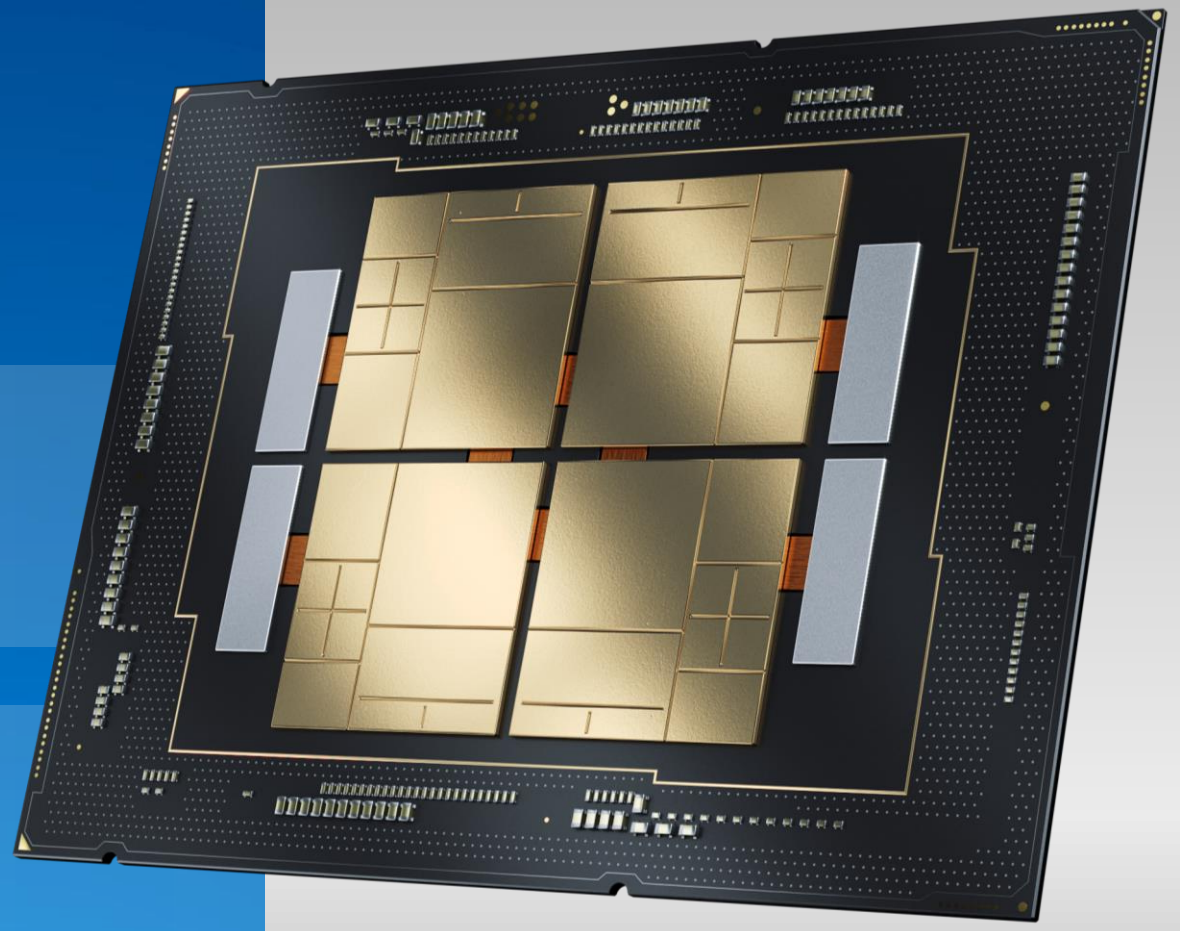
Sapphire Rapids HBM

Sampling Today

Production 2H '22

Up to 2.8x Perf

over 3rd Gen Xeon[1]



[1]Based on pre-production measurements.
Learn more at www.intel.com/PerformanceIndex. Results may vary.

Super-Charged CPU

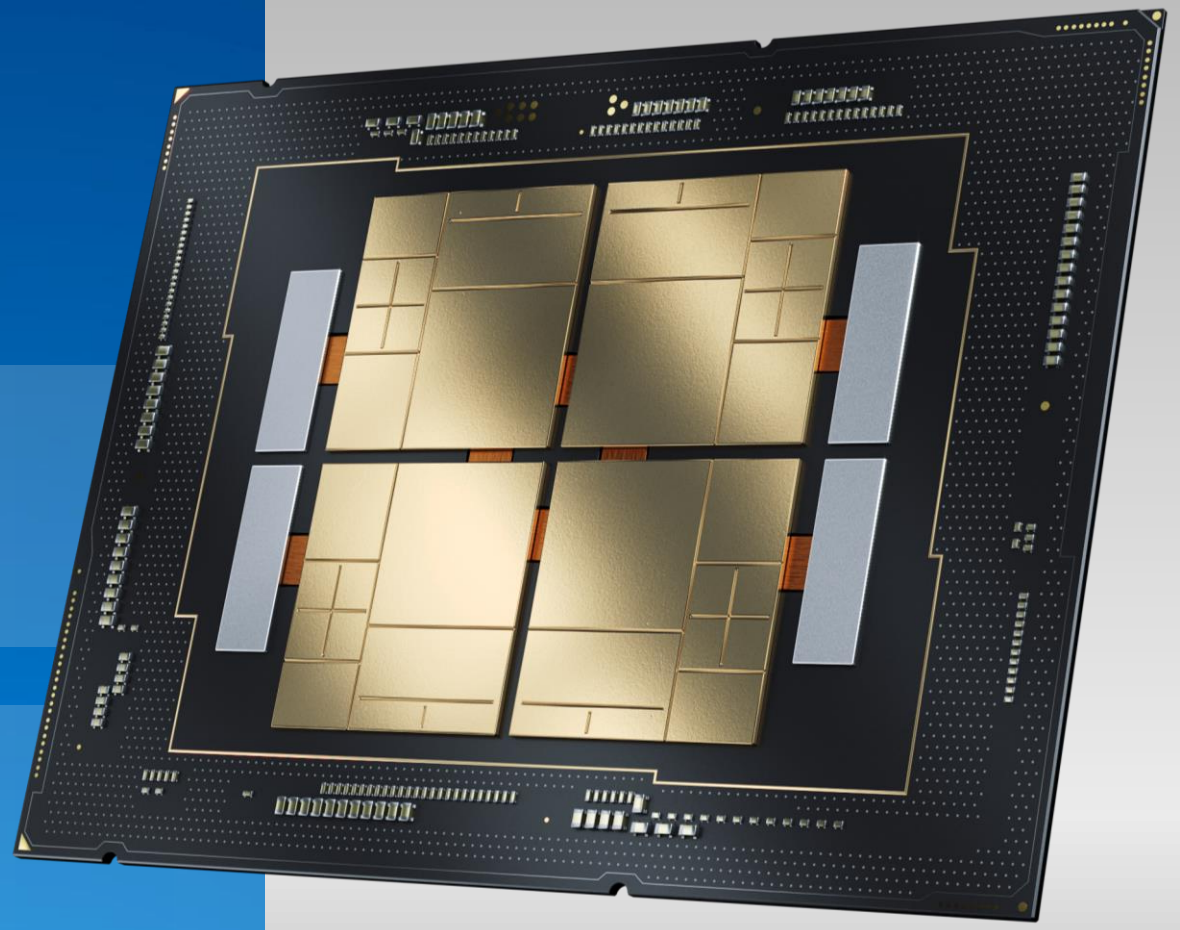
Sapphire Rapids HBM

Sampling Today

Production 2H '22

Up to 2.8x Perf

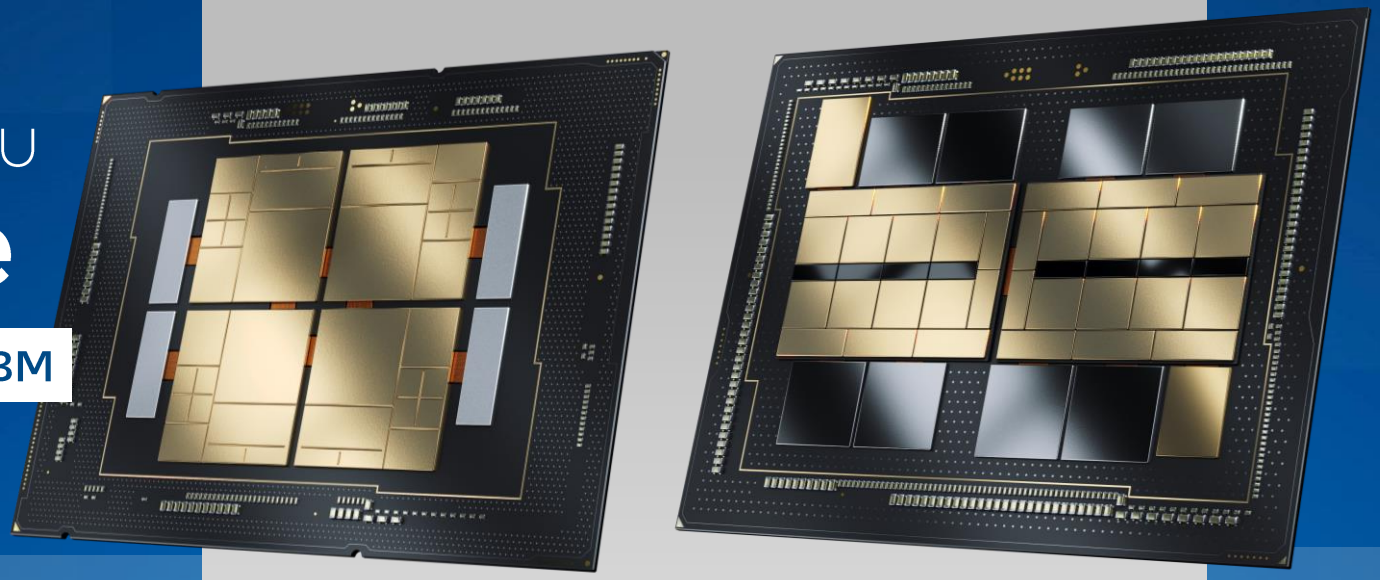
over 3rd Gen Xeon[1]



[1]Based on pre-production measurements.
Learn more at www.intel.com/PerformanceIndex. Results may vary.

Super-Charged CPU

Sapphire Rapids HBM



Super-Charged GPU

Ponte Vecchio

Sampling Today

Production 2H '22

Up to 2.8x Perf

over 3rd Gen Xeon[1]

[1]Based on pre-production measurements.
Learn more at www.intel.com/PerformanceIndex. Results may vary.

oneAPI

Performance Unleashed

35+ HPC-AI Design Wins

100+ Apps Running

On Track

for Aurora >2 Exaflop Supercomputer[2]

Up to 2.6x Perf

over best in market today[3]

[2]>2 exaflop peak performance
[3]Based on pre-production measurements.
Learn more at www.intel.com/PerformanceIndex. Results may vary.

HPC - AI Super Compute Strategy

Wave 1 | 2023

HPC - AI Super Compute Strategy

Wave 2 | 2024

Install Base

oneAPI

Falcon Shores

XPU

Scalable Architecture for all
Super Computing Workloads

Performance

For Illustrative purposes only, represents scalable architecture designed to address full install base across a range of performance requirements.

HPC - AI Super Compute Strategy

Wave 2 | 2024

Install Base

Falcon Shores

XPU

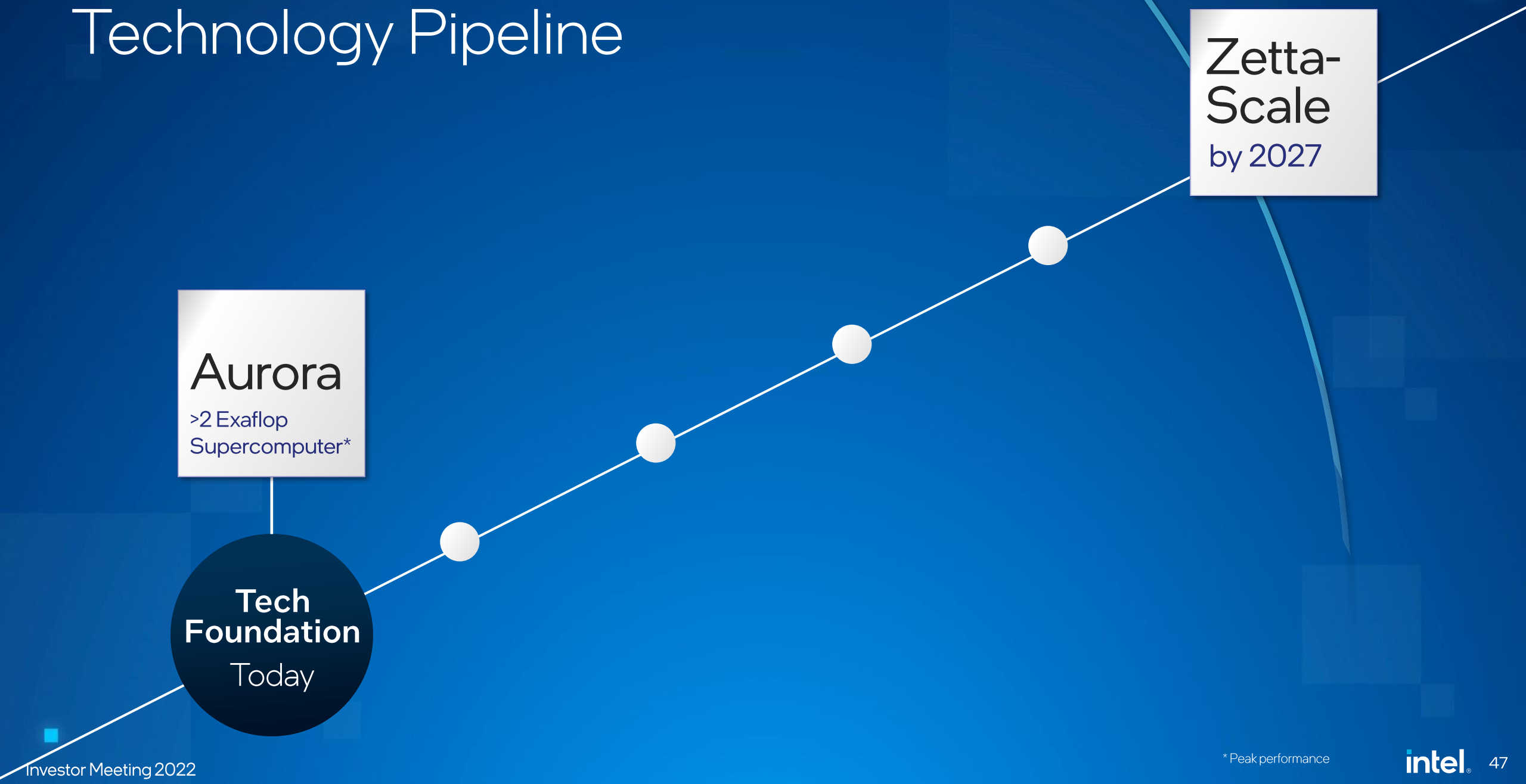
>5x	>5x	>5x
Performance /Watt	Compute density in x86 socket	Memory Capacity & B/W

Flexible X86/Xe Core ratio	Simplified GPU Programming	Angstrom Era Process
Next Gen Advanced Packaging	Extreme Bandwidth Shared Memory	Industry Leading I/O

Performance

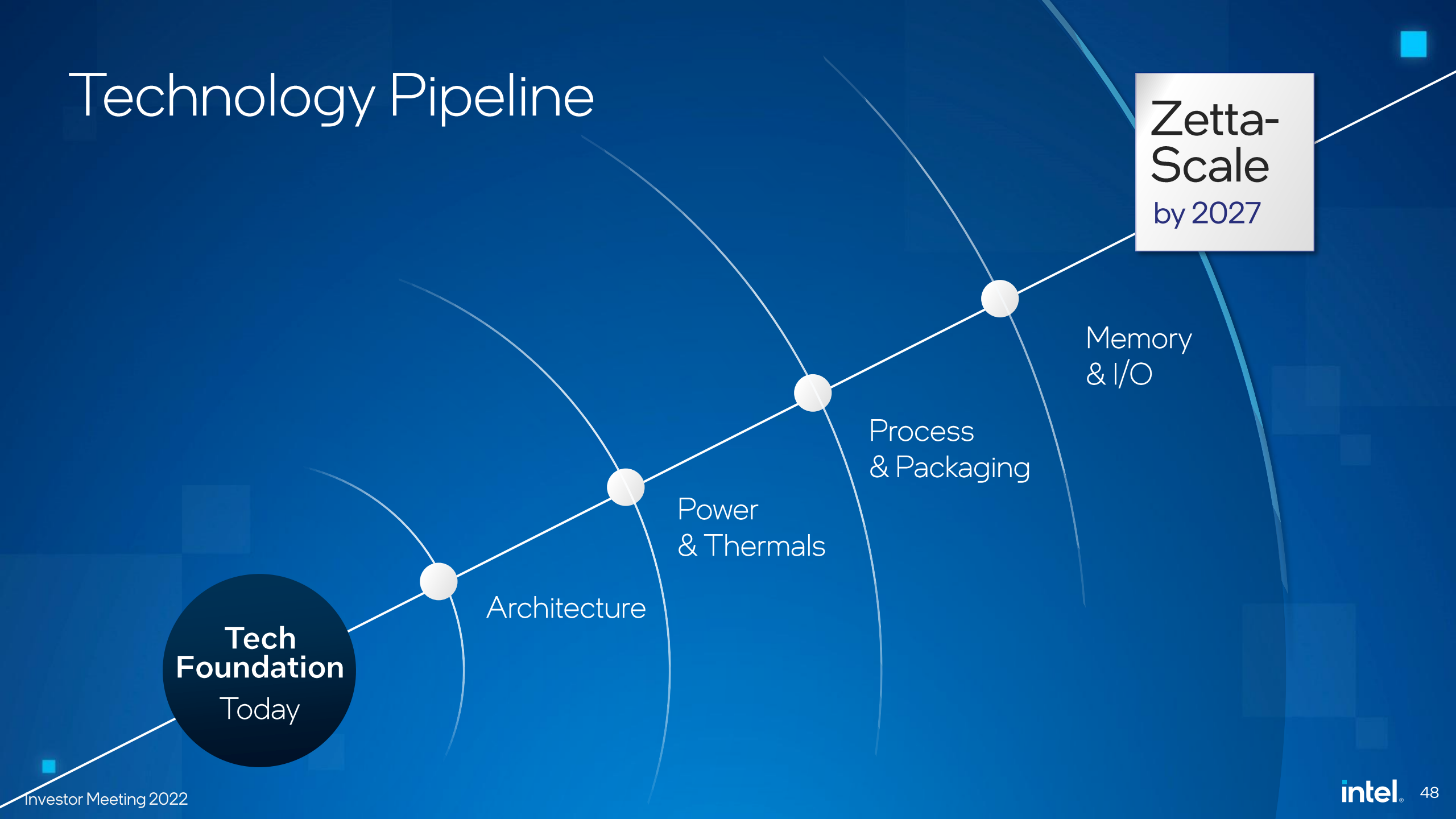
Performance targets based on estimates relative to current platforms in February 2022. Results may vary.

Technology Pipeline



* Peak performance

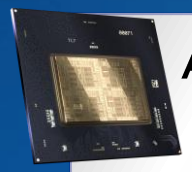
Technology Pipeline



Accelerated Computing Systems & Graphics Group

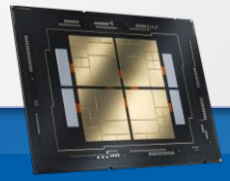
Super Compute

$45B by '26



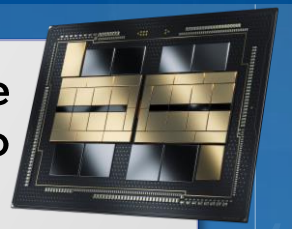
ATS - M

Sapphire Rapids HBM



oneAPI

Ponte Vecchio



'22

'24

Falcon Shores

XPU

Custom Compute

Visual Compute

$25B by '26

intel ARC™ Alchemist

+

Deep Link

Celestial

& Tiled GPUs

'22

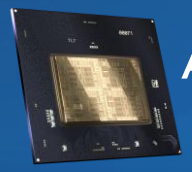
'24+

Accelerated Computing Systems & Graphics Group

Super Compute

$45B by '26

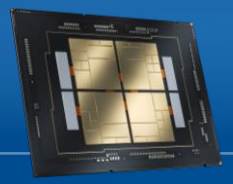
'22



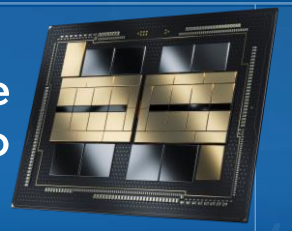
ATS - M

oneAPI

Sapphire Rapids HBM



Ponte Vecchio



'24

Falcon Shores

XPU

Custom Compute

$30B by '26

Blockchain Accelerator

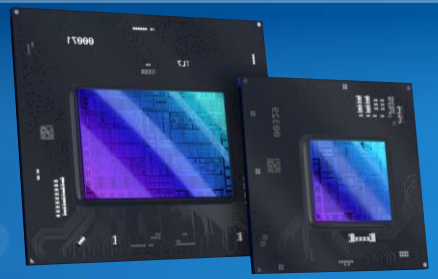
Shipping this Year

Custom Design Services

Visual Compute

$25B by '26

'22



intel ARC™ Alchemist

+

Deep Link

'24+

Celestial & Tiled GPUs

AXG

Key Takeaways

Insatiable Compute Demand

Petascale end-points, Exascale Edge and Zettascale Data Centers over next 5 years

Unleashing our Technology Foundation

of Process Nodes, Packaging, Memory, Interconnect, Architecture and Software IP

Energized Execution Engine

with a comprehensive HW+SW roadmap, products launching this year across HPC – AI, media, and gaming supercomputers

Approaching $10B* Revenue by '26

and Estimated >$1B Revenue in '22

*AXG revenue includes intersegment graphics royalty that is eliminated in Intel consolidated results. This royalty is approximately $700M in 2021, growing to approximately $1B in 2026.

intel