

## Investor Presentation

October 2023





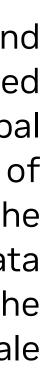
Except for the historical information contained herein, certain matters in this presentation including, but not limited to, statements as to: our financial position; our markets, market opportunity, demand and growth drivers; the benefits, impact, performance, features and technologies; the benefits, impact, features and timing of our collaborations or partnerships; NVIDIA accelerated computing being broadly recognized as the way to advance computing as Moore's law ends; data centers making a platform shift from general purpose to accelerated computing; trillion dollars of installed global data center infrastructure transitioning to accelerated computing; Al driving a platform shift in computing; Al driving and enabling new, never-before-possible applications; broader enterprises driving the next wave of computing, followed by autonomous machines and industrial digitalization; accelerated computing being needed to tackle the most impactful opportunities of our time; NVIDIA's value to every stakeholder in the ecosystem; the ROI of high compute performance; enterprise as the next big generative AI opportunity; NVIDIA's expanding accelerated computing ecosystem; AI as the greatest technology force of our time; data centers becoming AI factories; generative AI unlocking new opportunities; the next wave of AI being robotics and industrial digitalization; NVIDIA's acceleration stacks and ecosystems helping to bring AI to the world's largest industries; NVIDIA's AI expertise and scale helping to revolutionize businesses; generative AI being the most important computing platform of our generation; full-stack and data center scale acceleration driving significant cost savings and workload scaling; our dividend program plan; and our Automotive design win pipeline and ramp expectations are forward-looking statements.

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### Headquarters: Santa Clara, CA

NVIDIA pioneered accelerated computing to help solve impactful challenges classical computers cannot. A quarter of a century in the making, NVIDIA accelerated computing is broadly recognized as the way to advance computing as Moore's law ends and AI lifts off.

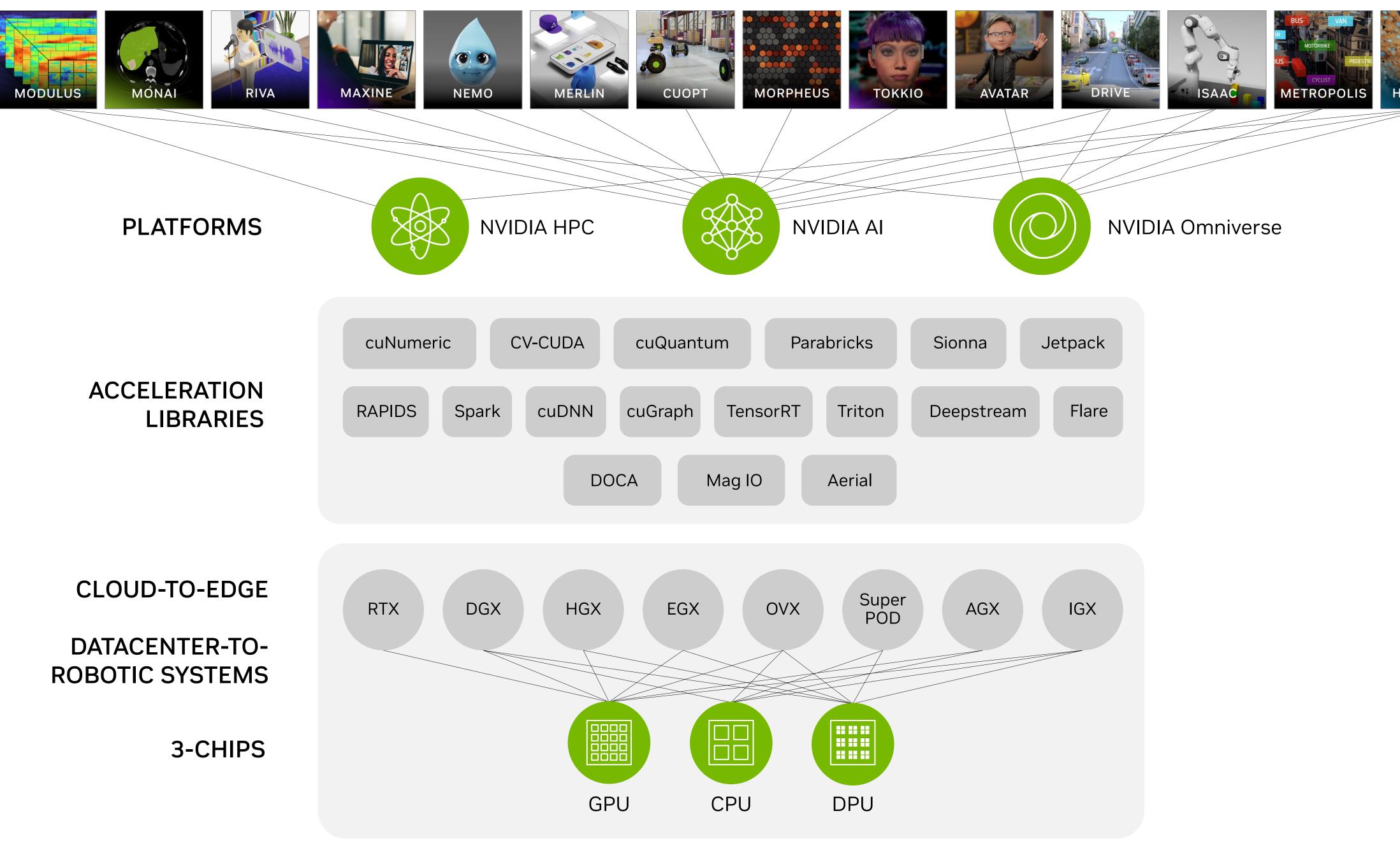
NVIDIA's platform is installed in several hundred million computers, is available in every cloud and from every server maker, powers 74% of the TOP500 supercomputers, and boasts over 4 million developers.

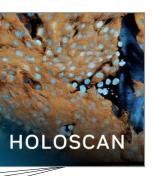




### **NVIDIA's Accelerated Computing Platform** Full-stack innovation across silicon, systems and software

#### **AI APPLICATION FRAMEWORK**





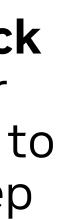
With nearly three decades of a singular focus, NVIDIA is expert at accelerating software and scaling compute by a **Million-X**, going well beyond Moore's law.

Accelerated computing requires full-stack innovation – optimizing across every layer of computing – from silicon and systems to software and algorithms, demanding deep understanding of the problem domain.

Our full-stack platforms – NVIDIA HPC, NVIDIA AI, and NVIDIA Omniverse – accelerate high performance computing, Al, and industrial digitalization workloads.

We accelerate workloads at **data center** scale, across thousands of compute nodes, treating the network and storage as part of the computing fabric.

Our platform extends from the cloud and enterprise data centers to supercomputing centers, edge computing and PCs.









## Why Accelerated Computing?

Advancing computing in the post-Moore's Law era

Accelerated computing is needed to tackle the most impactful opportunities of our time—like AI, climate simulation, drug discovery, ray tracing, and robotics.

NVIDIA is uniquely dedicated to accelerated computing —working top-to-bottom—refactoring applications and creating new algorithms, and bottom-to-top—inventing new specialized processors, like RT Core and Tensor Core.

"It's the end of Moore's Law as we know it."

- John Hennessy, Oct 2018

"Moore's Law is dead."

- Jensen Huang, GTC 2013



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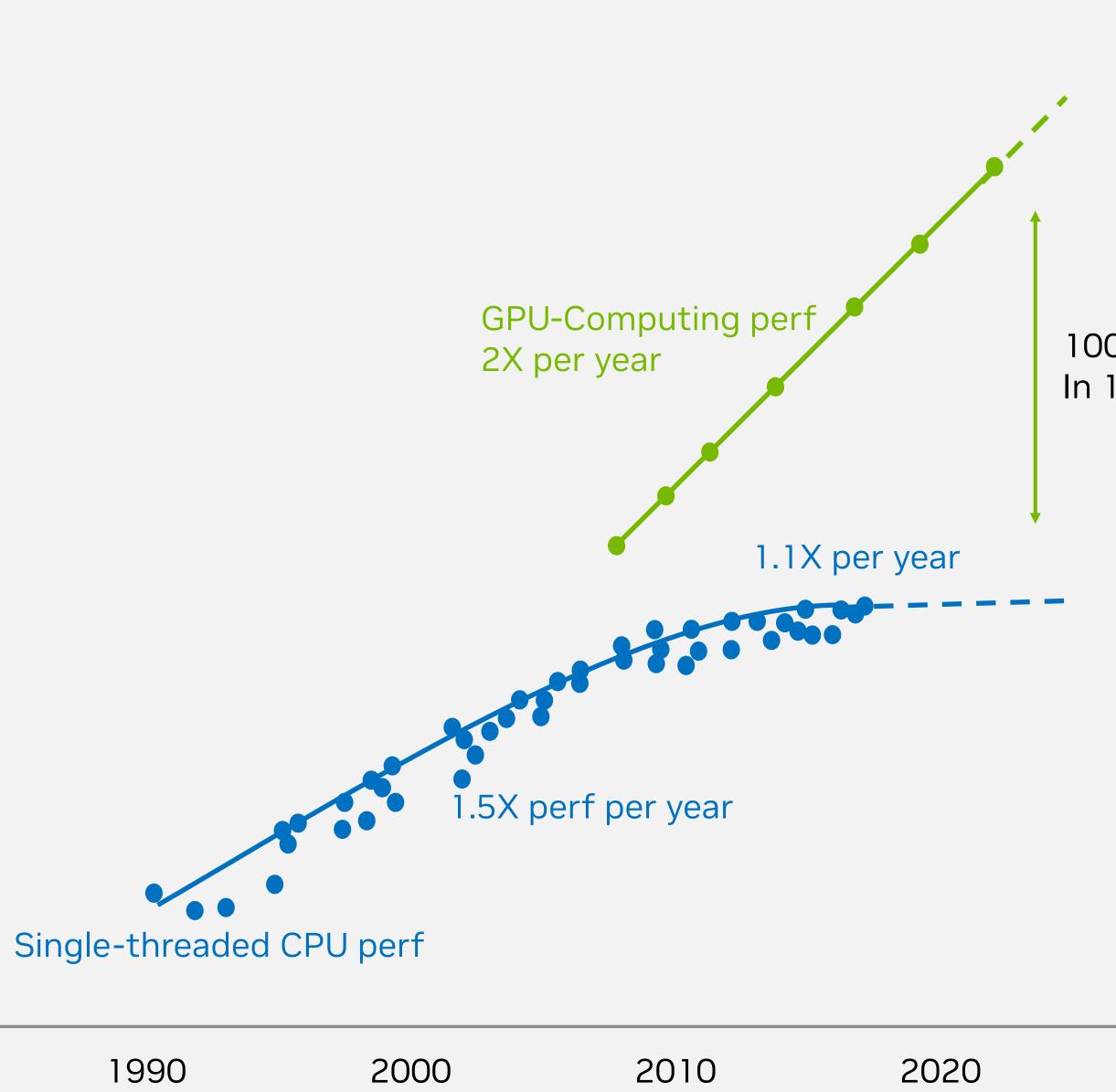
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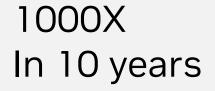
Operations

of

Trillions

1980







### Waves of Adoption of Accelerated Computing A generational computing platform shift

Enterprise **Cloud Service Providers** & Consumer Internet

Industrial Digitalization

**Autonomous Vehicles** & Robotics

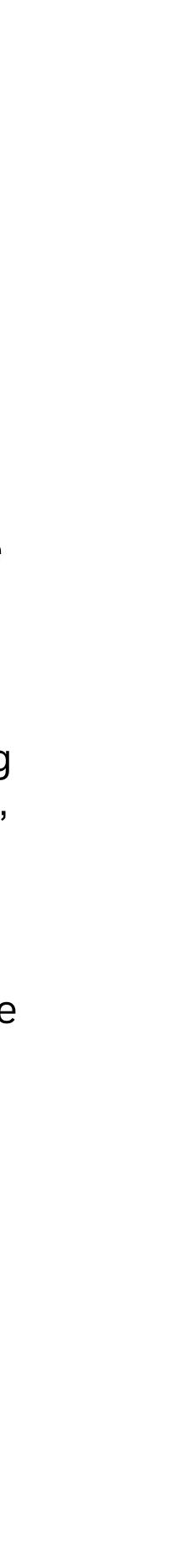
A new computing era has begun.

Accelerated computing enabled the rise of AI, which is driving a platform shift from general purpose to accelerated computing, and enabling new, never-before-possible applications.

The trillion dollars of installed global data center infrastructure will transition to accelerated computing to achieve an order of magnitude better performance, energy-efficiency and cost.

Hyperscale cloud service providers and consumer internet companies have been the early adopters of Al and accelerated computing, with broader enterprise adoption now under way.

Al and accelerated computing will also make possible the next big waves – autonomous machines and industrial digitalization.



NVIDIA

Enterprise **Cloud Service Providers** & Consumer Internet

### **NVIDIA Accelerated Computing for Every Wave**

Industrial Digitalization

**NVIDIA Omniverse** is a software platform for designing, building, and operating 3D and virtual world simulations. It harnesses the power of NVIDIA graphics and AI technologies and runs on NVIDIA-powered data centers and workstations.

**Autonomous Vehicles** & Robotics

**NVIDIA DRIVE** is a full-stack platform for autonomous vehicles (AV) that includes hardware for in-car compute, such as the Orin system-on-chip, and the full AV and AI cockpit software stack.

**NVIDIA DGX Cloud** is a cloud service that allows enterprises immediate access to the infrastructure and software needed to train advanced models for generative AI and other groundbreaking applications.

**NVIDIA AI Enterprise** is the operating system of AI, with enterprise-grade security, stability, manageability and support. It is available on all major CSPs and server OEMs and supports enterprise deployment of AI in production.

**NVIDIA HGX** is an AI supercomputing platform purpose-built for AI. It includes 8 NVIDIA GPUs, as well as interconnect and networking technologies, delivering order-of-magnitude performance speed-ups for AI over CPU servers. It is broadly available from all major server OEMs/ODMs. NVIDIA DGX, an AI server based on the same architecture, along with NVIDIA AI software and support, is also available.



## **NVIDIA's Accelerated Computing Ecosystem**

The NVIDIA accelerated computing platform has attracted the largest ecosystem of developers, supporting a rapidly growing universe of applications and industry innovation.

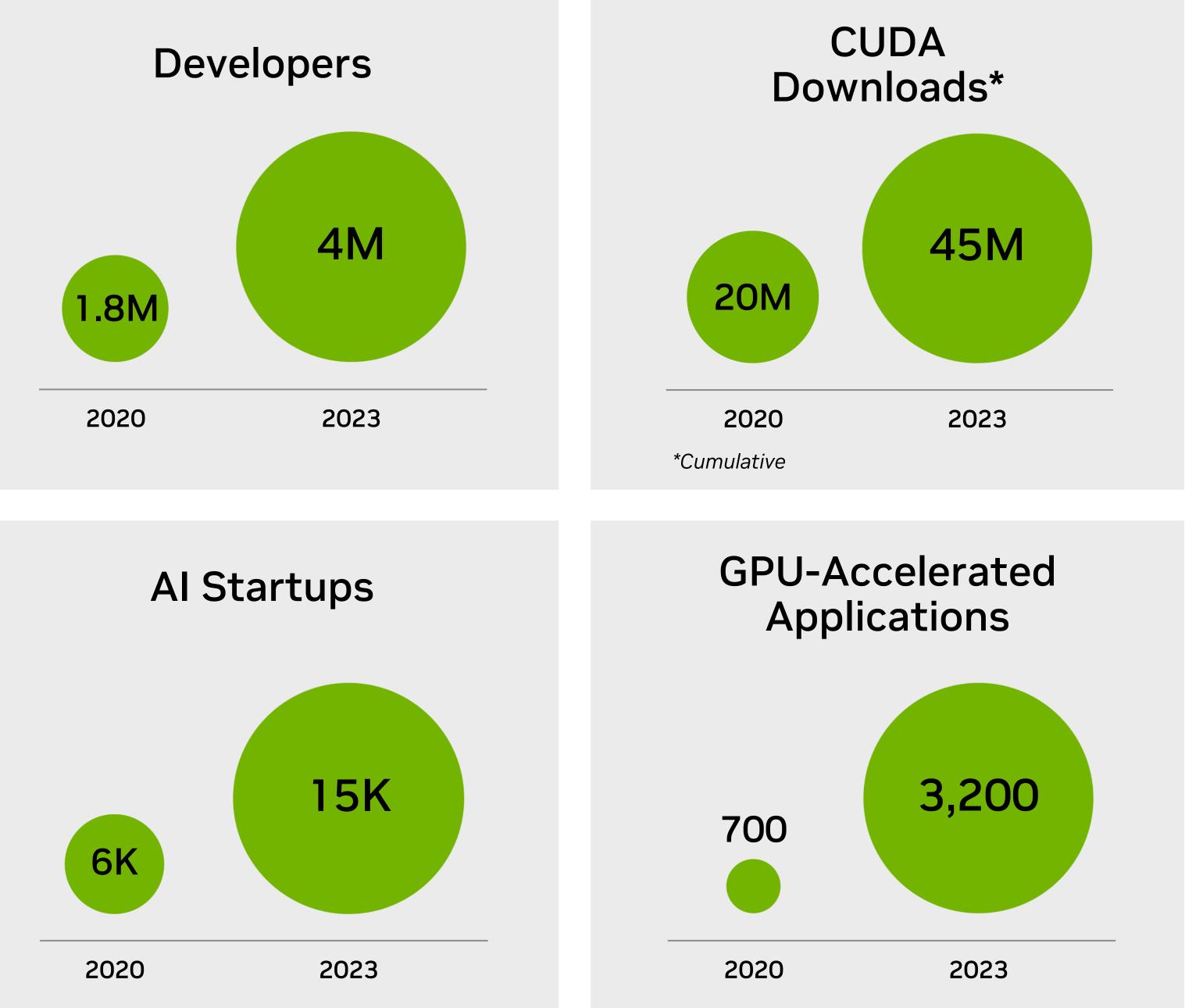
Developers can engage with NVIDIA through **CUDA** – our parallel computing programming model introduced in 2006 – or at higher layers of the stack, including libraries, pre-trained Al models, SDKs and other development tools.

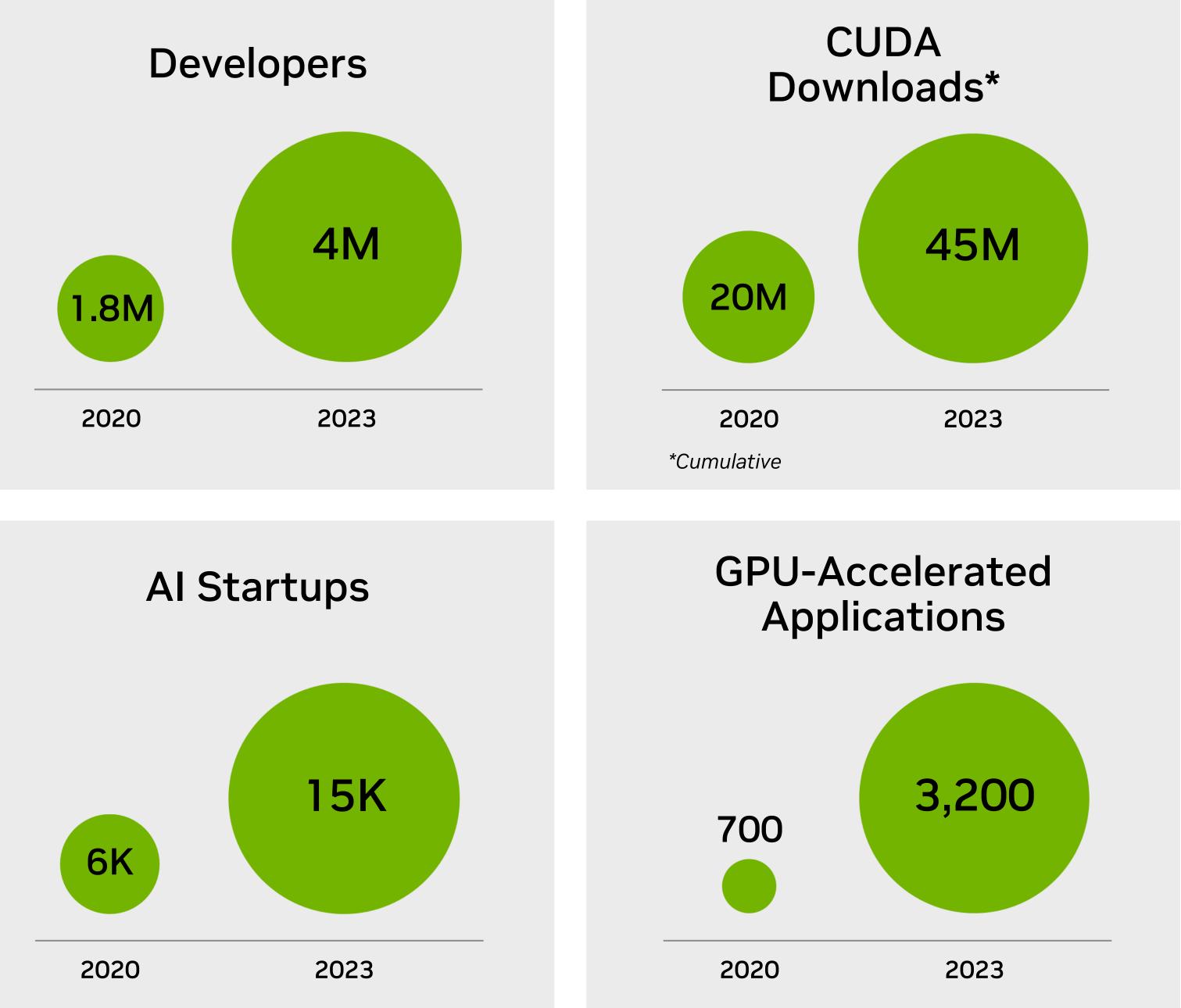
**300** Libraries

400 AI Models

100 Updated in the Last Year

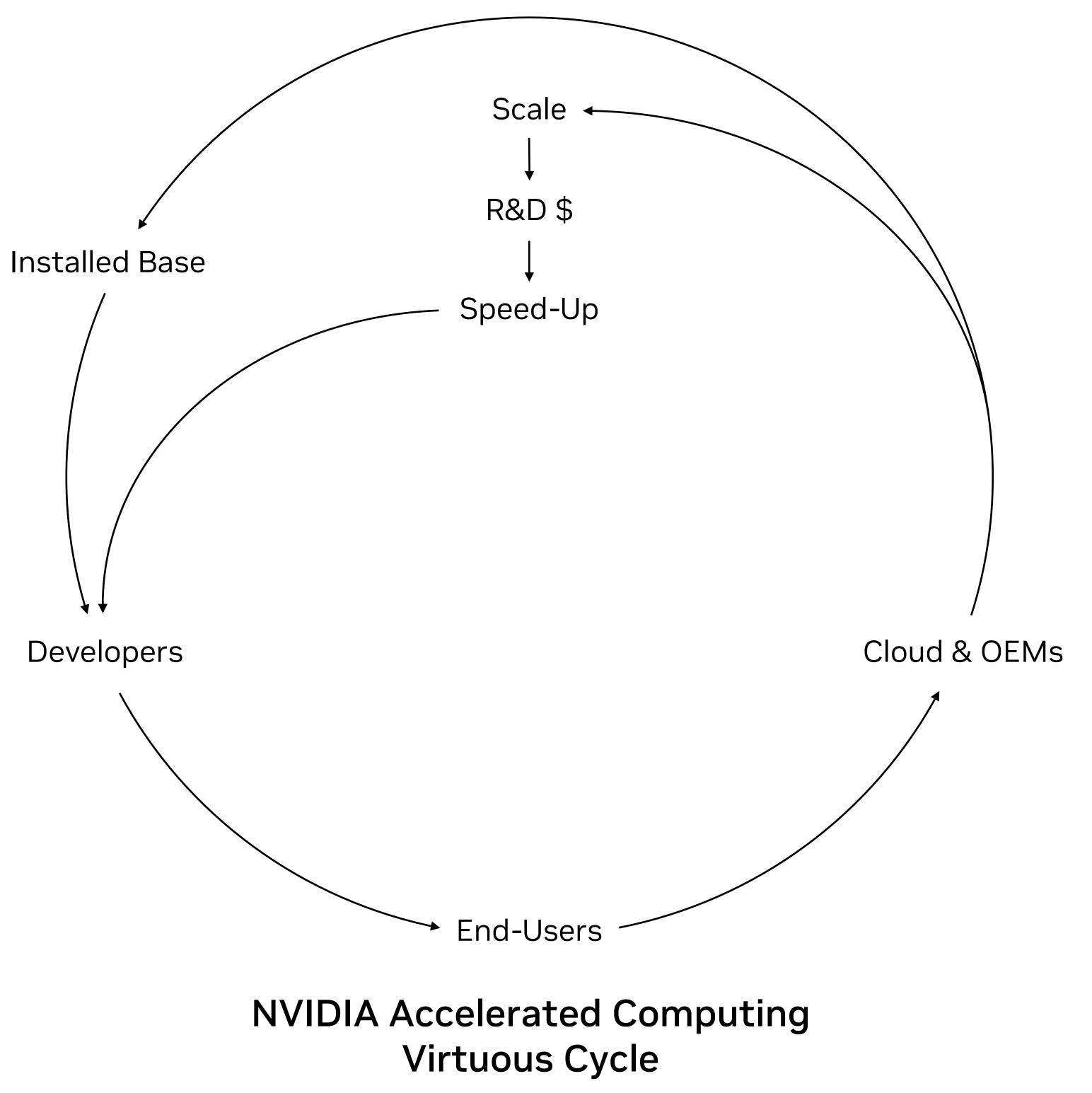








## **NVIDIA's Multi-Sided Platform and Flywheel**



The virtuous cycle of NVIDIA's accelerated computing starts with an installed base of several hundred million GPUs, all compatible with the CUDA programming model.

- greatest reach
- cloud to edge
- flywheel

**For developers** – NVIDIA's one architecture and large installed base give developer's software the best performance and

**For end users** – NVIDIA is offered by virtually every computing provider and accelerates the most impactful applications from

For cloud providers and OEMs – NVIDIA's rich suite of Acceleration Platforms lets partners build one offering to address large markets including media & entertainment, healthcare, transportation, energy, financial services, manufacturing, retail, and more

**For NVIDIA** – Deep engagement with developers, computing providers, and customers in diverse industries enables unmatched expertise, scale, and speed of innovation across the entire accelerated computing stack – propelling the



NVIDIA

### Huge ROI from AI Driving a Powerful New Investment Cycle Al can augment creativity and productivity by orders of magnitude across industries

Knowledge workers will use copilots based on large language models to generate documents, answer questions, or summarize missed meetings, emails and chats – adding hours of productivity per week.

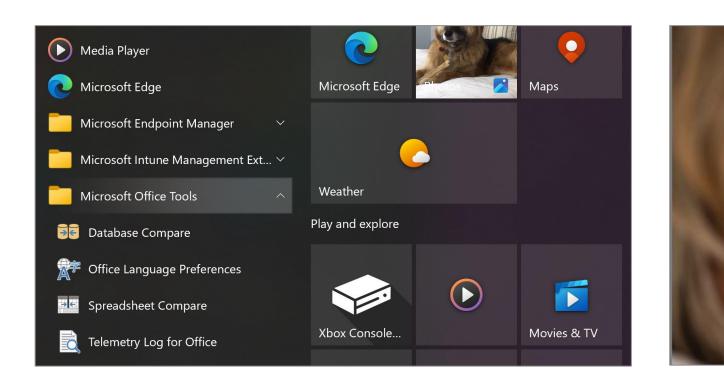
Copilots specialized for fields such as software development, legal services or education can boost productivity by as much as 50%.

Social media, search and e-commerce apps are using deep recommenders to offer more relevant content and ads to their customers, increasing engagement and monetization.

Creators can generate stunning, photorealistic images with a single text prompt – compressing workflows that take days or weeks into minutes in industries from advertising to game development.

Call center agents augmented with AI chatbots can dramatically increase productivity and customer satisfaction.

Drug discovery, financial services, agriculture and food services and climate forecasting are seeing order-of-magnitude workflow acceleration from AI.



### Office AI Copilots

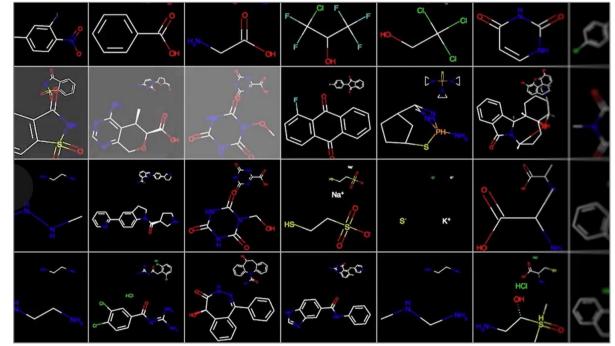
Over 1B knowledge workers

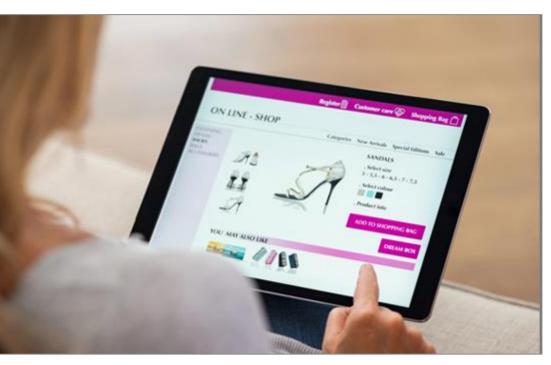


Legal Services, Education ... 1M legal professionals in the US 9M educators in the US

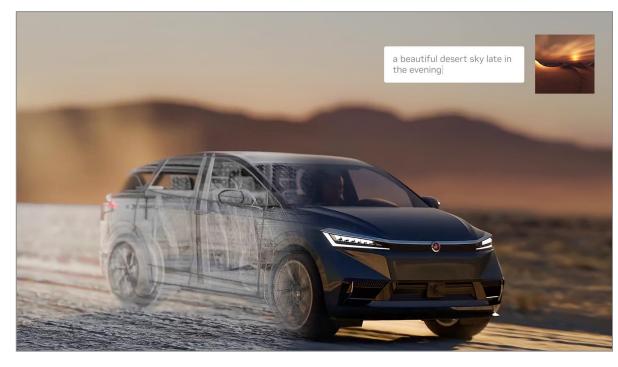


**Customer Service with Al** 15M call center agents globally

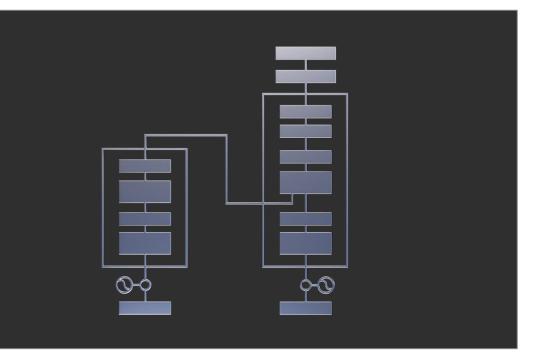




Search & Social Media \$700B in digital advertising annually



**AI Content Creation** 50M creators globally



Al Software Development 30M software developers globally



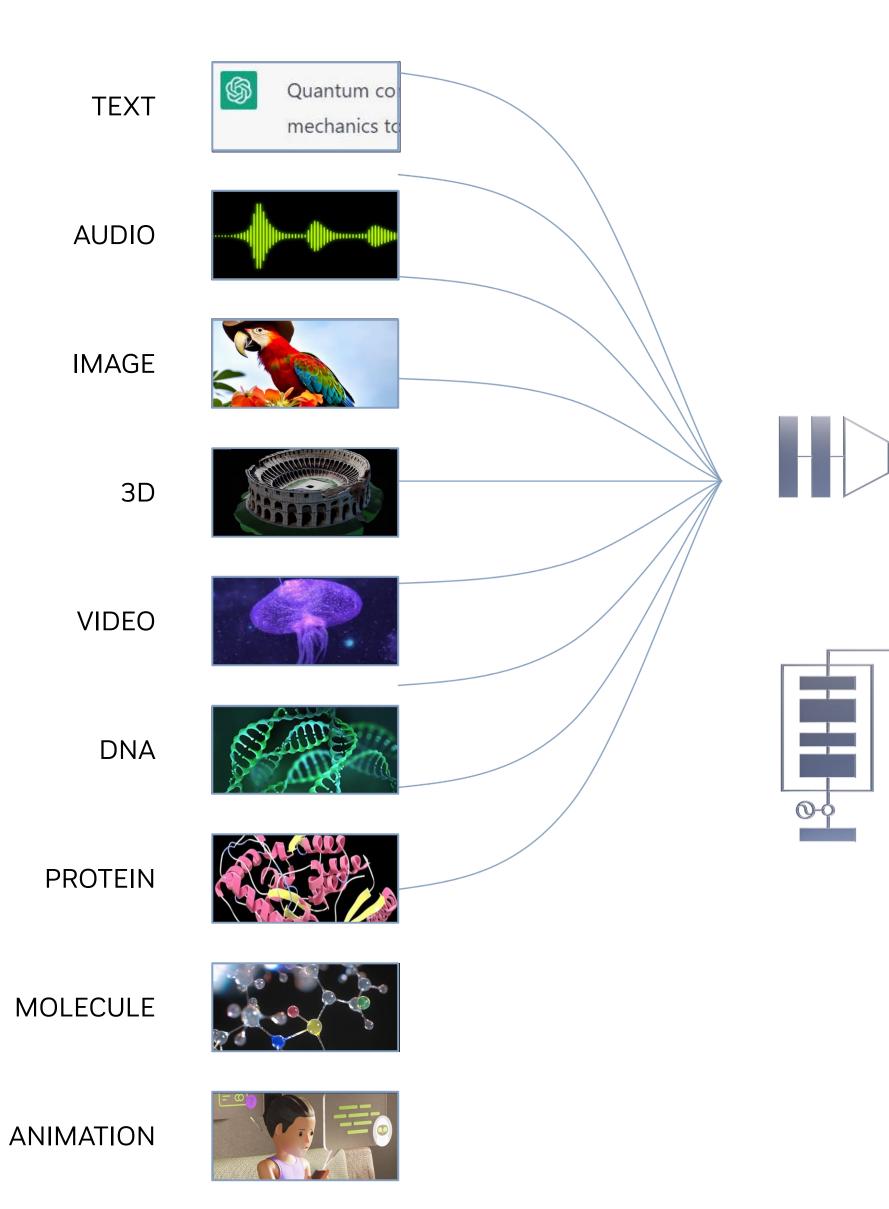
**Financial Services** 678B annual credit card transactions

Drug Discovery 10<sup>18</sup> molecules in chemical space 40 exabytes of genome data



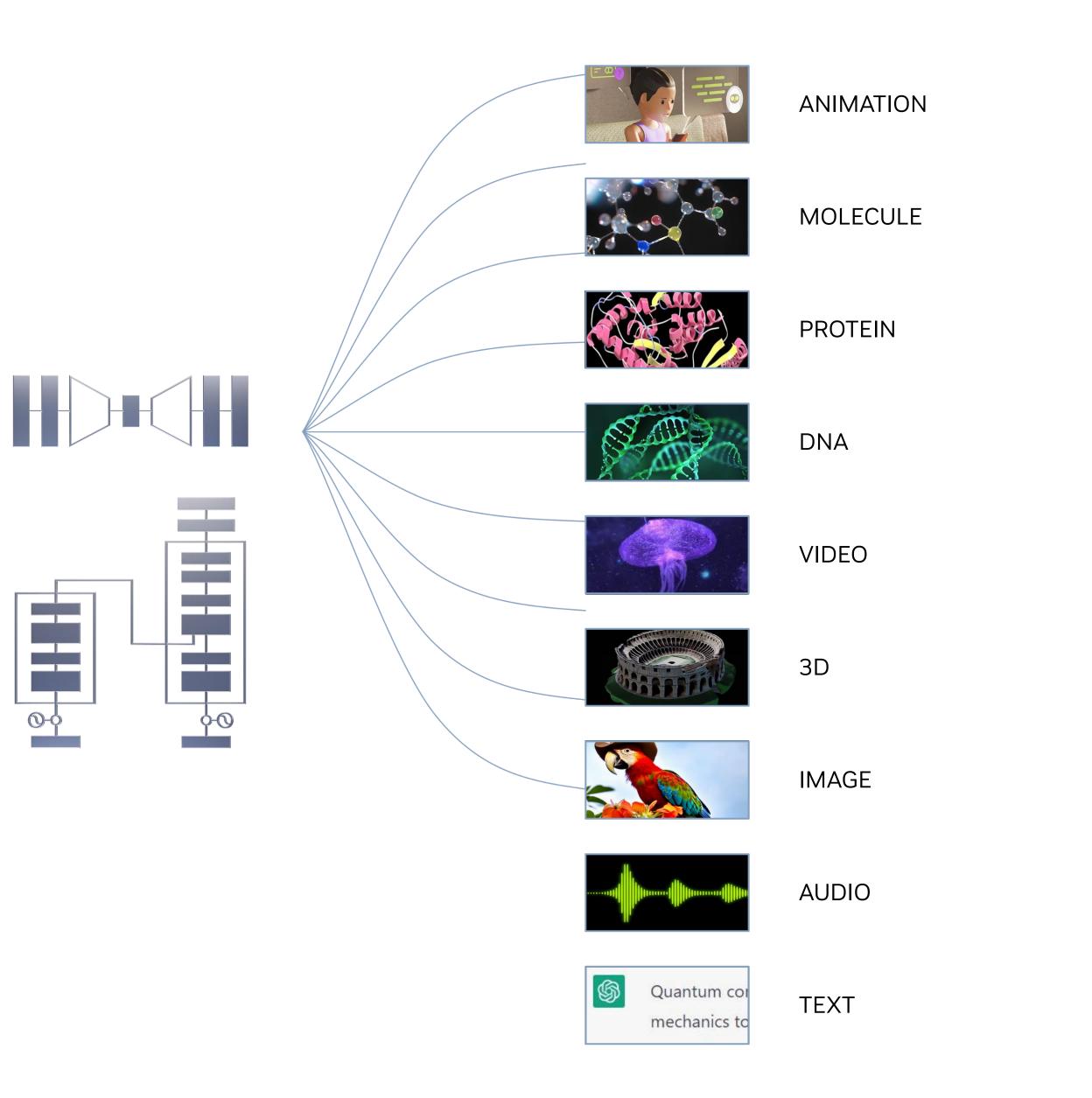
Agri-Food | Climate 1B people in agri-food worldwide Earth-2 for km-scale simulation





### **Generative AI**

The most important computing platform of our generation



The era of generative AI has arrived, unlocking new opportunities for AI across many different applications.

Generative AI is trained on large amounts of data to find patterns and relationships, learning the representation of almost anything with structure.

It can then be prompted to generate text, images, video, code, or even proteins.

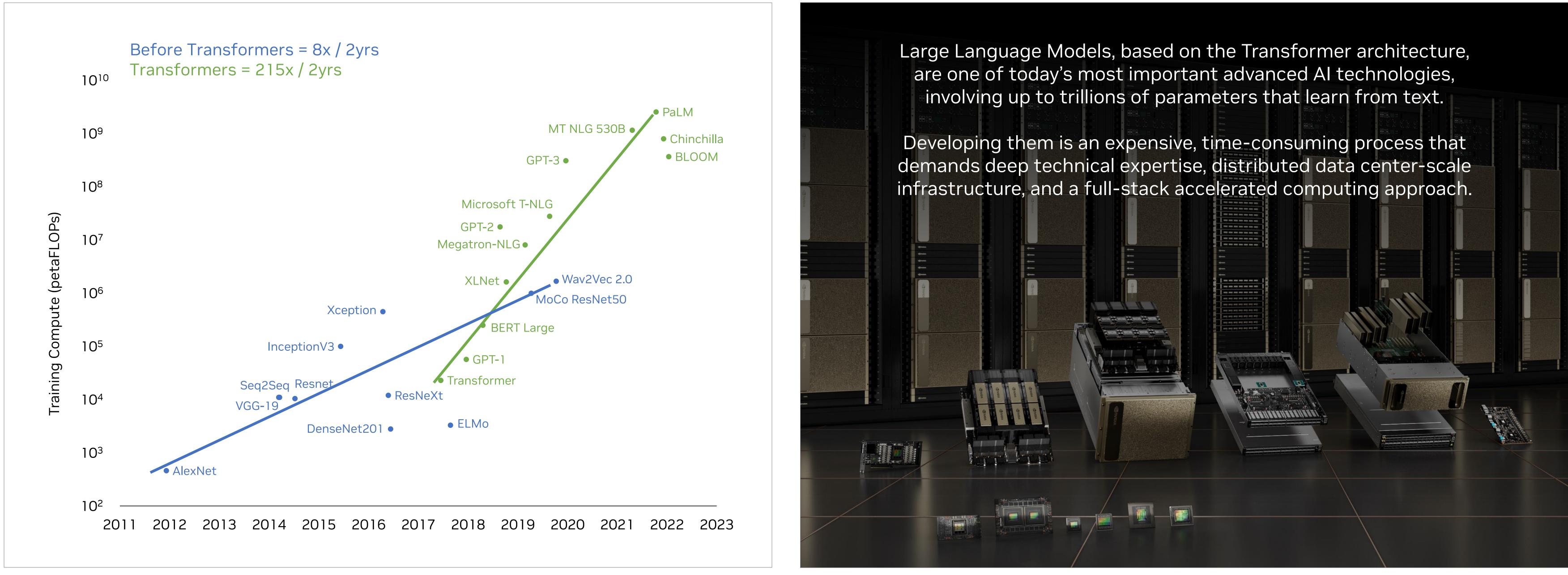
For the very first time, computers can augment the human ability to generate information and create.

1,600+ Generative AI companies are building on NVIDIA.





### Modern AI is a Data Center Scale Computing Workload Data centers are becoming AI factories: Data as input, intelligence as output



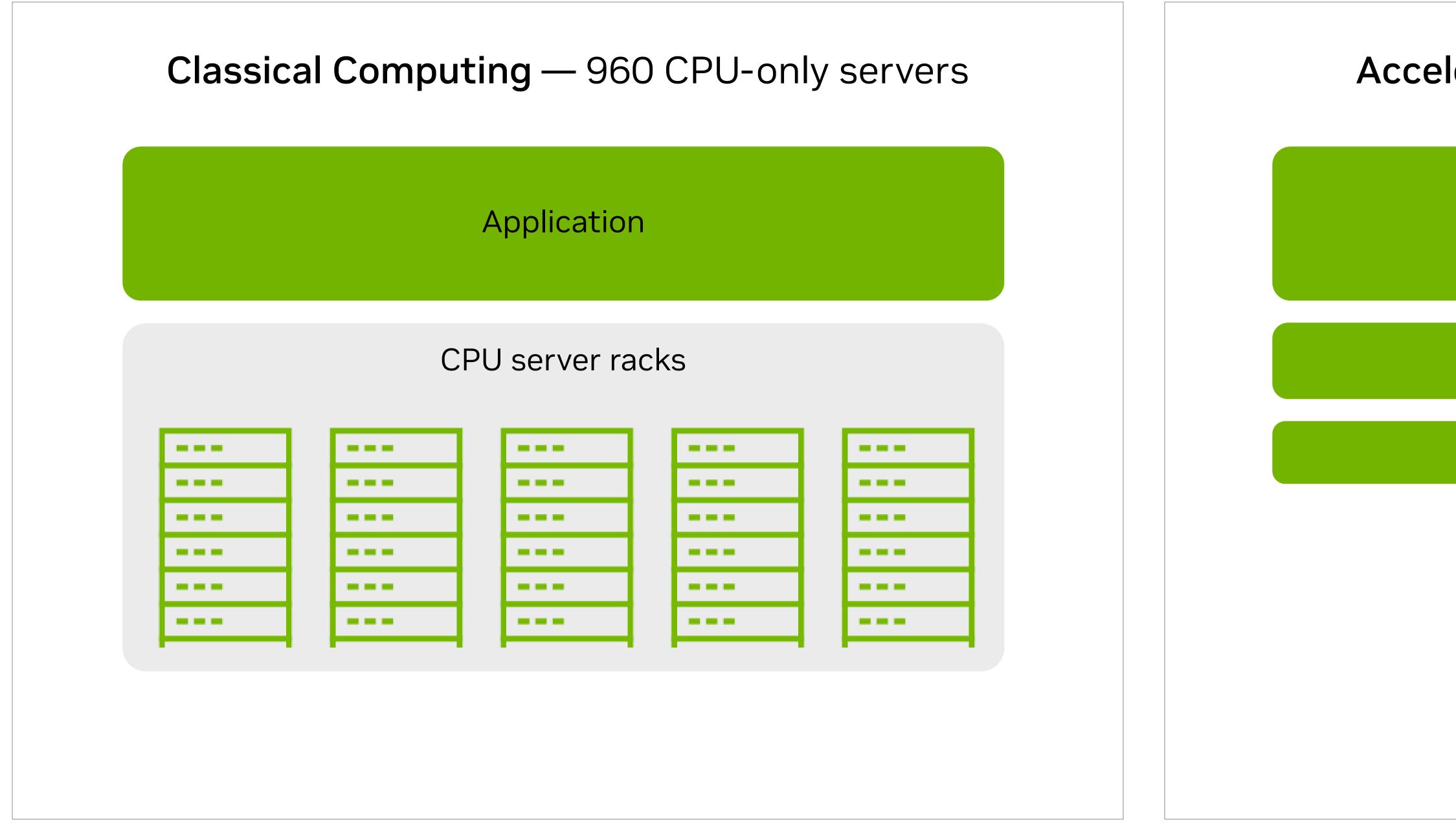
### AI Training Computational Requirements

#### Fueling Giant-Scale AI Infrastructure

NVIDIA compute & networking GPU | DPU | CPU



### **Full-Stack & Data Center Scale Acceleration** Drive significant cost savings and workload scaling



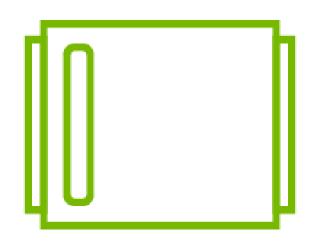
LLM Workload: Bert-Large Training and Inference | CPU Server: Dual-EYPC 7763 | GPU Server: Dual-EPYC 7763 + 8X H100 PCIe GPUs

### Accelerated Computing — 2 GPU servers

Application **Re-Engineered for Acceleration** 

**CUDA-X** Acceleration Libraries

Magnum IO



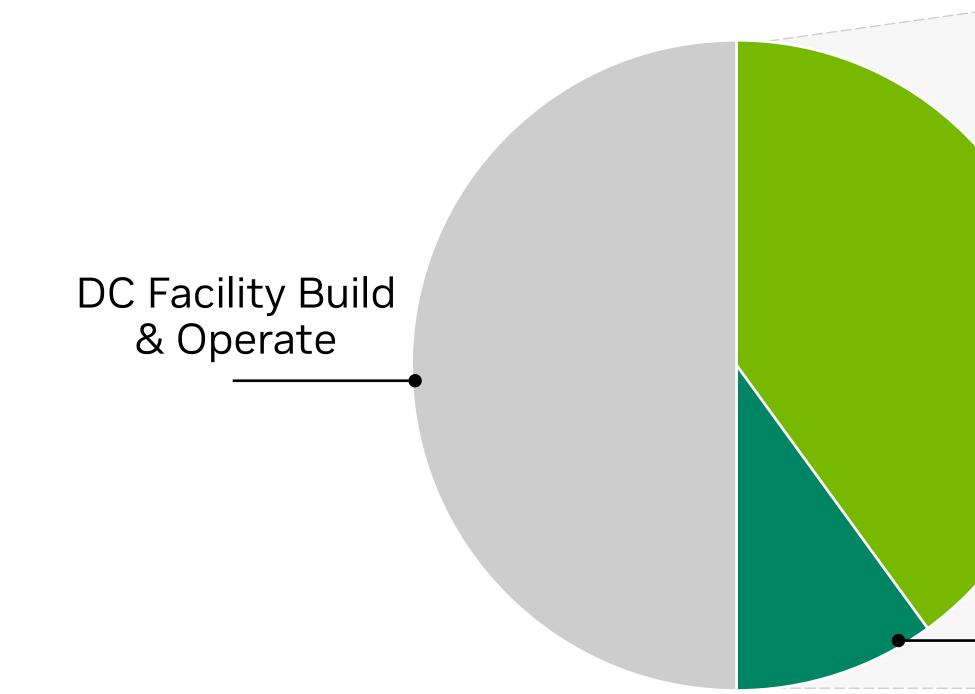
25X lower cost 84X better energy-efficiency



## The High ROI of High Compute Performance

#### 4-Year Cost of AI Infrastructure ~\$1B

16K GPU

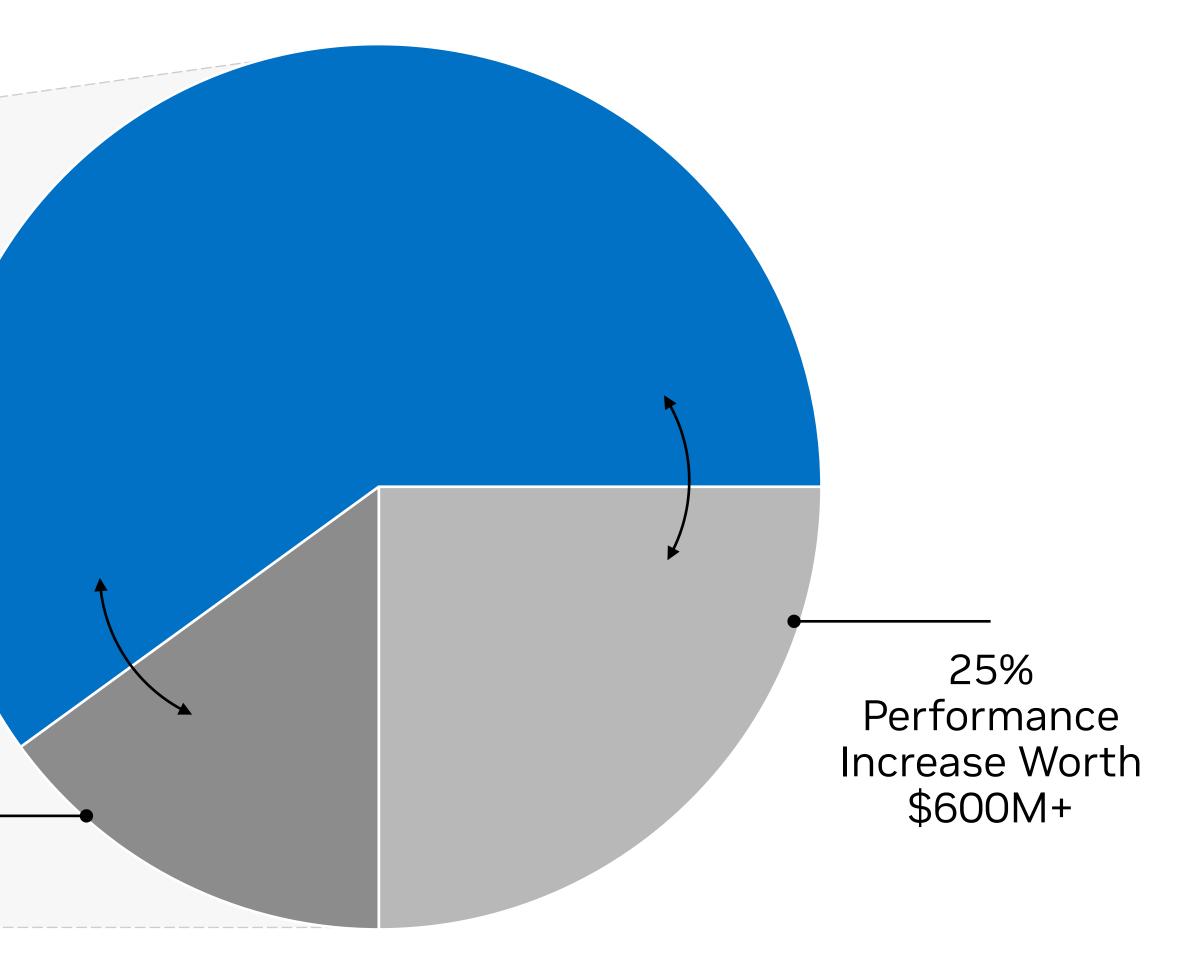


**GPU** Compute

Networking

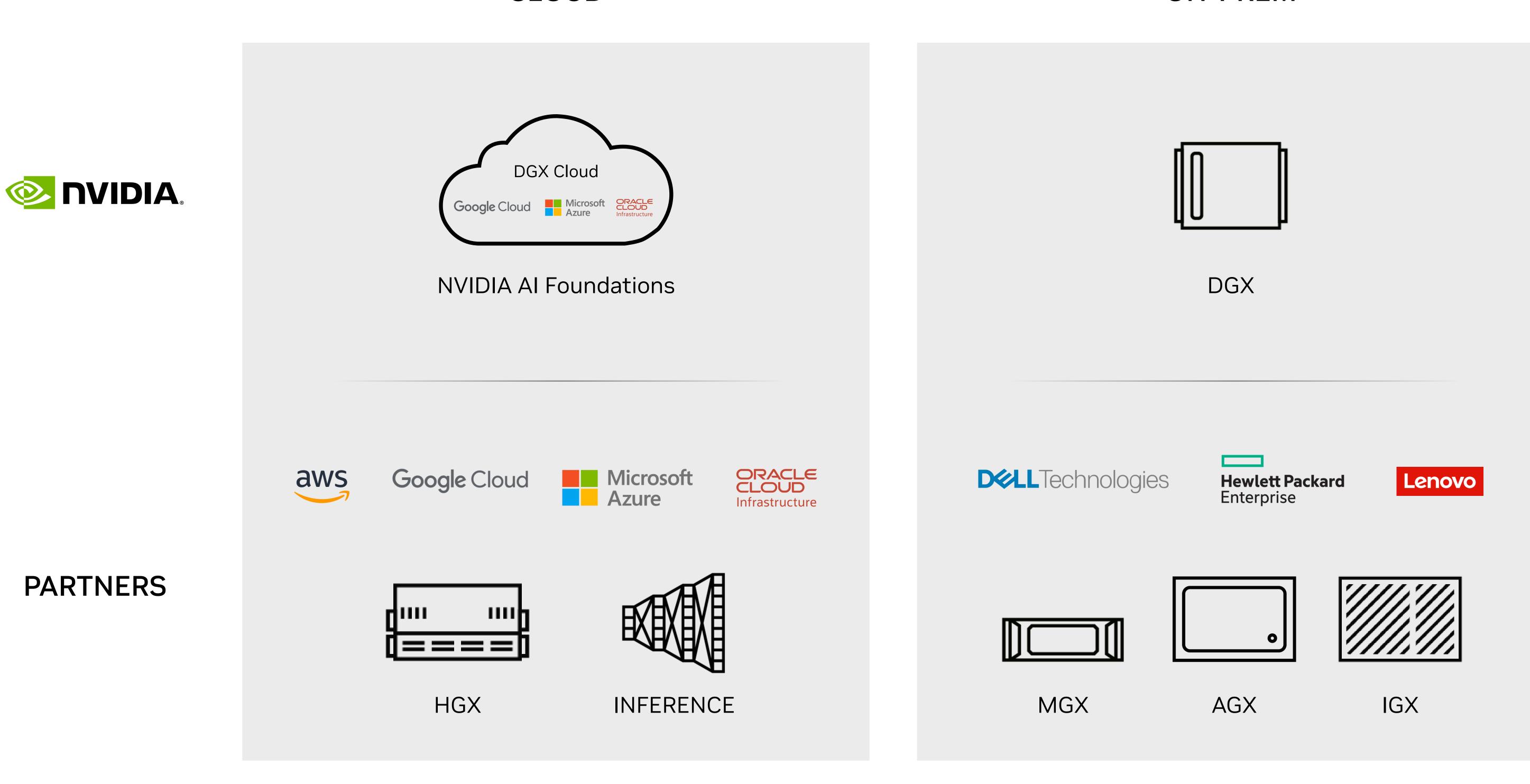
15% Utilization Increase Worth \$350M+

# 4-Year Rental Opportunity @\$4 per GPU-HR ~\$2.5B









# **NVIDIA Go-to-Market Across Cloud and On-Premises**

Reaching customers everywhere

### CLOUD

**ON-PREM** 

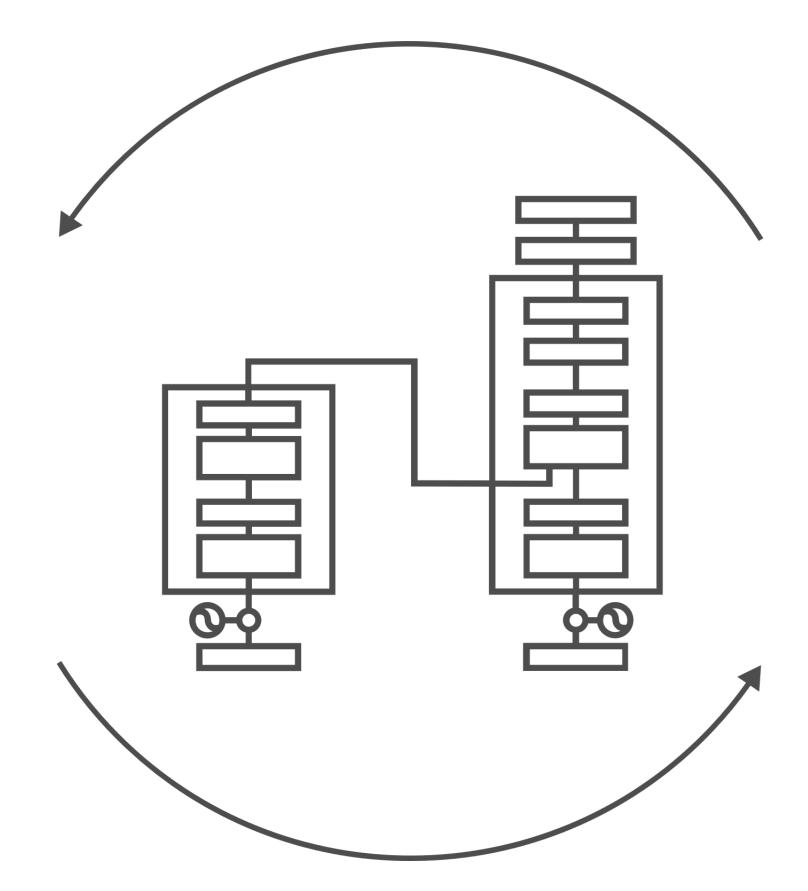


#### TRAINING



### **Training & Inference — One Architecture** Cloud | On-Prem | Edge





### INFERENCE

IN THE DATA CENTER

NVIDIA L40 Image Generation

> NVIDIA L4 Al Video

NVIDIA H100 | L40S Universal GPUs

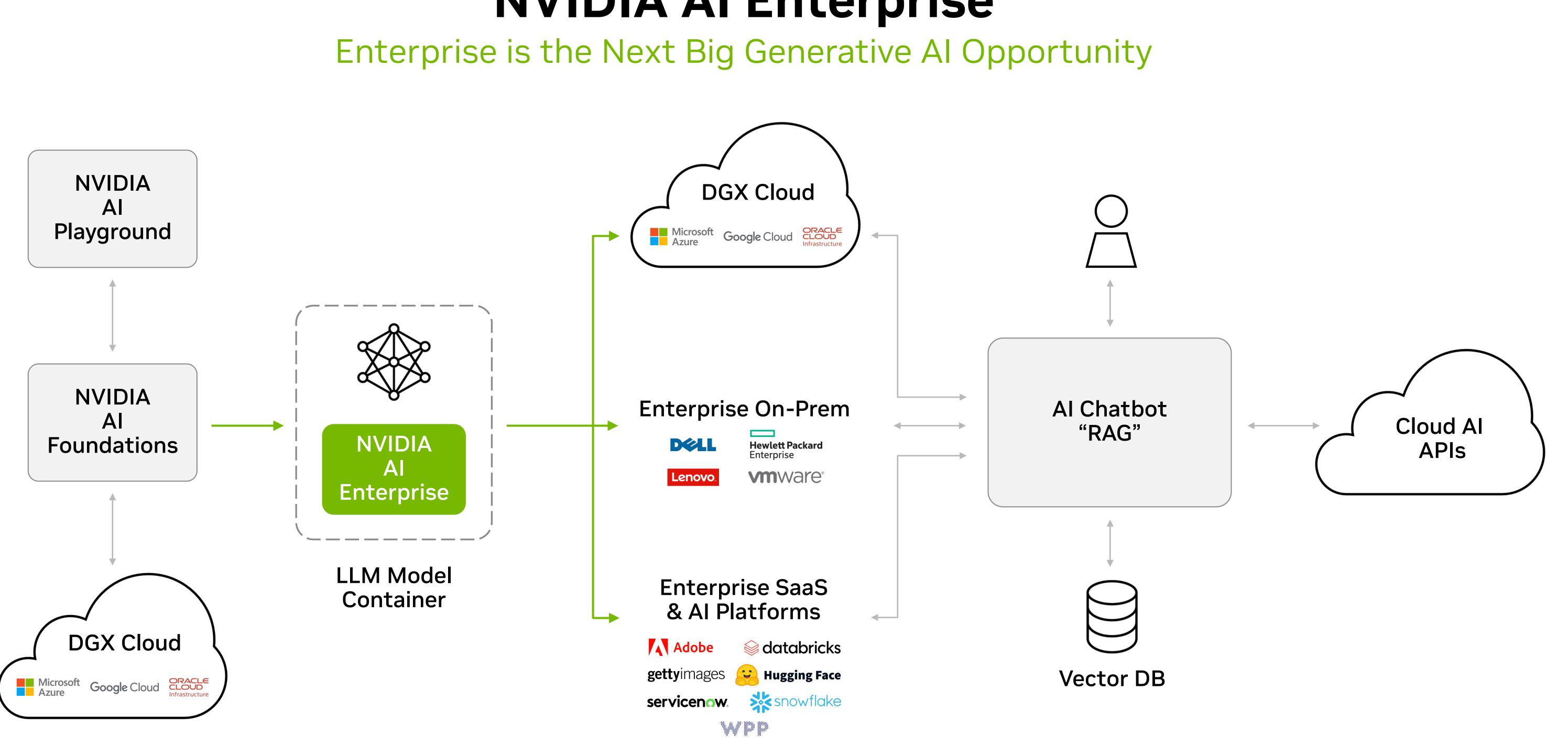
**NVIDIA Grace Hopper** RecSys, Gen Al

AT THE EDGE

IGX Industrial-Grade System for Healthcare, Logistics, Manufacturing

AGX Functionally-Safe System for Autonomous Vehicles





Enterprise AI Chatbots are built as Retrieval Augmented Generation (RAG) workflows, which augment the knowledge in the LLM with vectorized Enterprise data. These Chatbots serve as apprentices, improving the productivity of every employee in every Enterprise company.

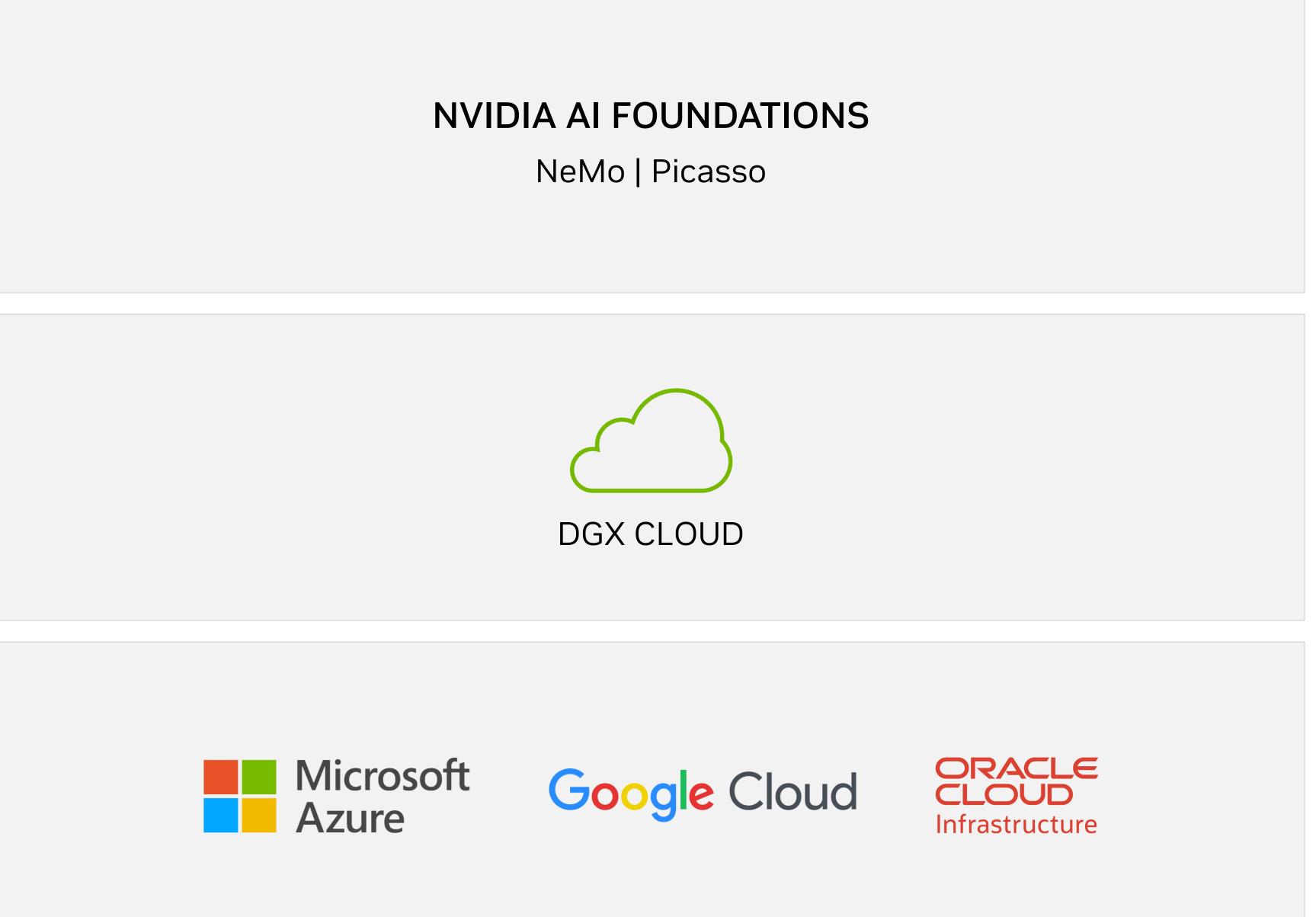
NVIDIA delivers this capability to Enterprises by packaging LLMs with NVIDIA AI Enterprise, the runtime for hosting the LLMs, into containers that can be deployed anywhere – on any cloud, on premises, or within Enterprise SaaS applications.

## **NVIDIA AI Enterprise**









### **NVIDIA DGX Cloud** Al-training-as-a-service platform for the era of generative Al

NVIDIA DGX Cloud is a cloud service that allows enterprises immediate access to the infrastructure and software needed to train advanced models for generative AI and other groundbreaking applications.

DGX Cloud provides dedicated clusters of NVIDIA DGX AI supercomputing, paired with NVIDIA AI software.

Enterprise customers can also use the NVIDIA AI Foundations model making service, which includes NVIDIA NeMo for training custom LLMs and NVIDIA Picasso for custom generative AI models for visual design.

The service is equipped with models, tools, and accelerated computing for training, customizing, optimizing, and deploying AI.



### **NVIDIA AI Enterprise**

NVIDIA AI Enterprise is software for deploying and running AI with enterprise-grade security, API stability, manageability and support.

Cloud-native and available in every major cloud marketplace — AWS, Microsoft Azure, Google Cloud Platform and Oracle Cloud.

Certified to run on servers and workstations from all major OEMs.

AI Use Cases and Workflows





Medical Imaging



Speech Al

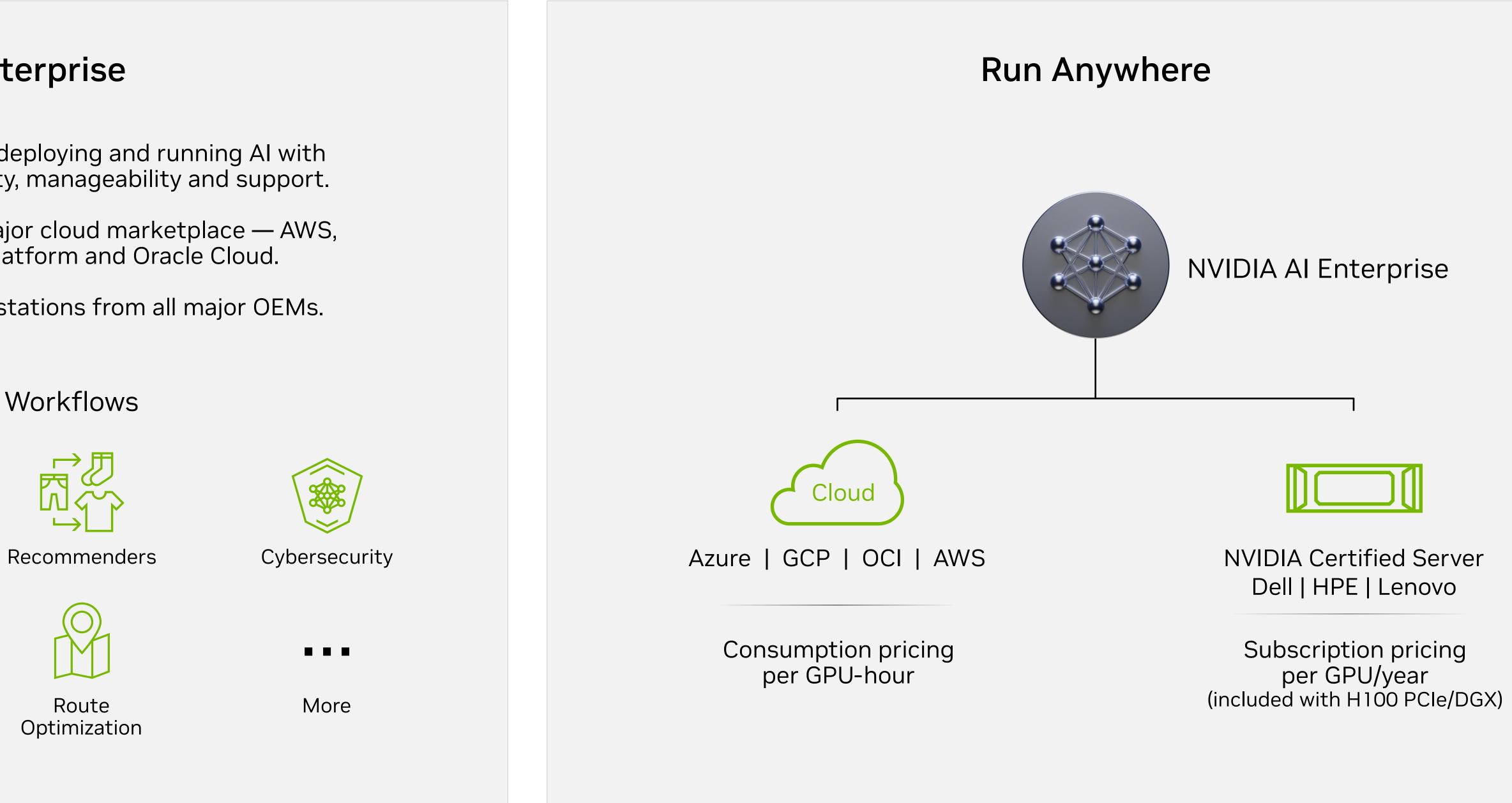


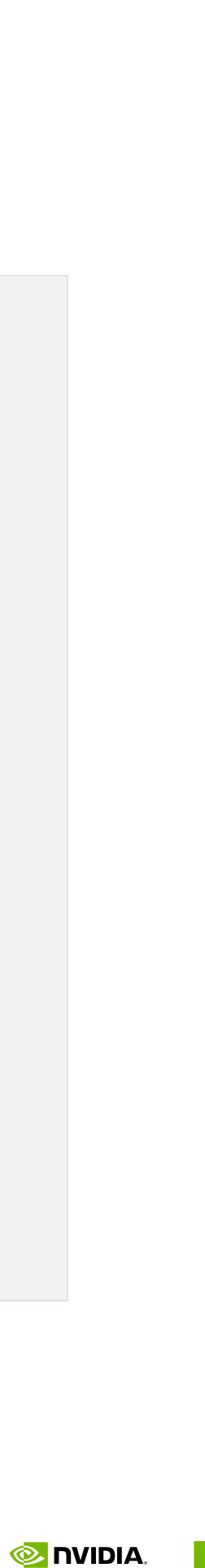
Video Analytics

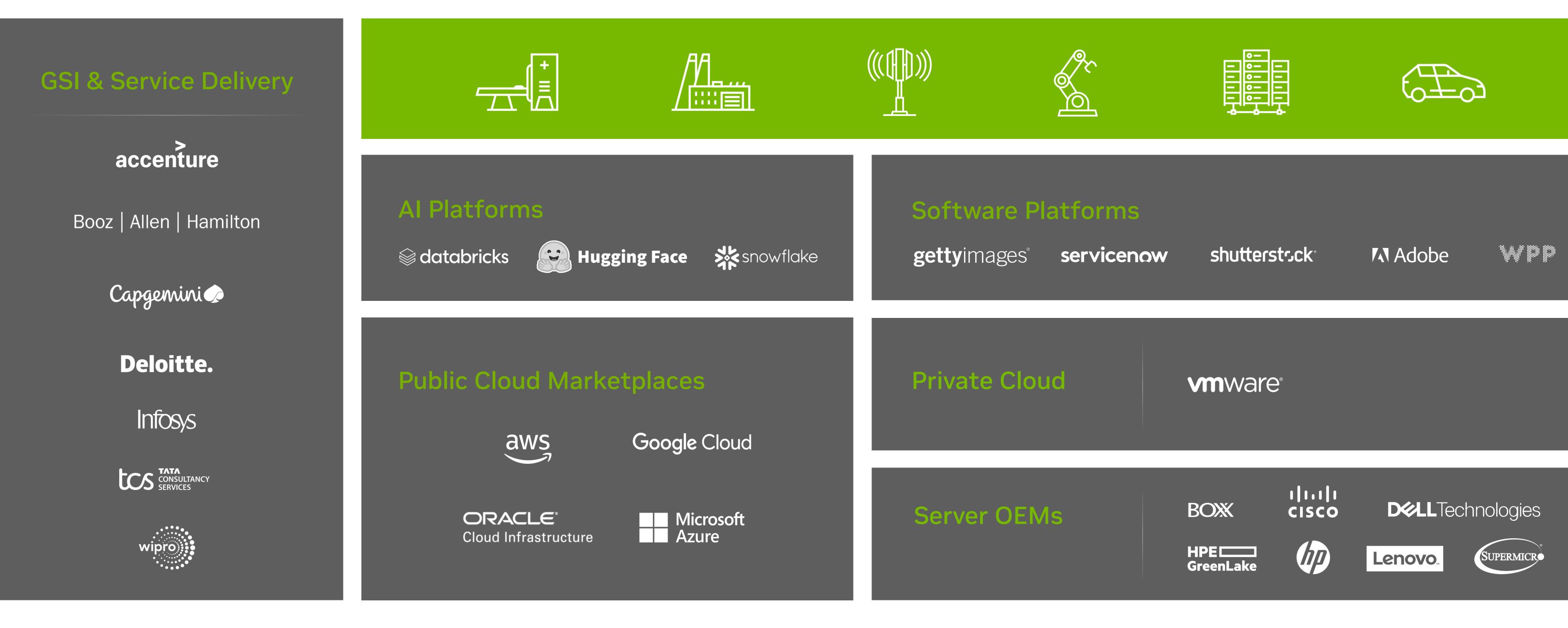




### **NVIDIA AI Enterprise** The operating system for enterprise AI



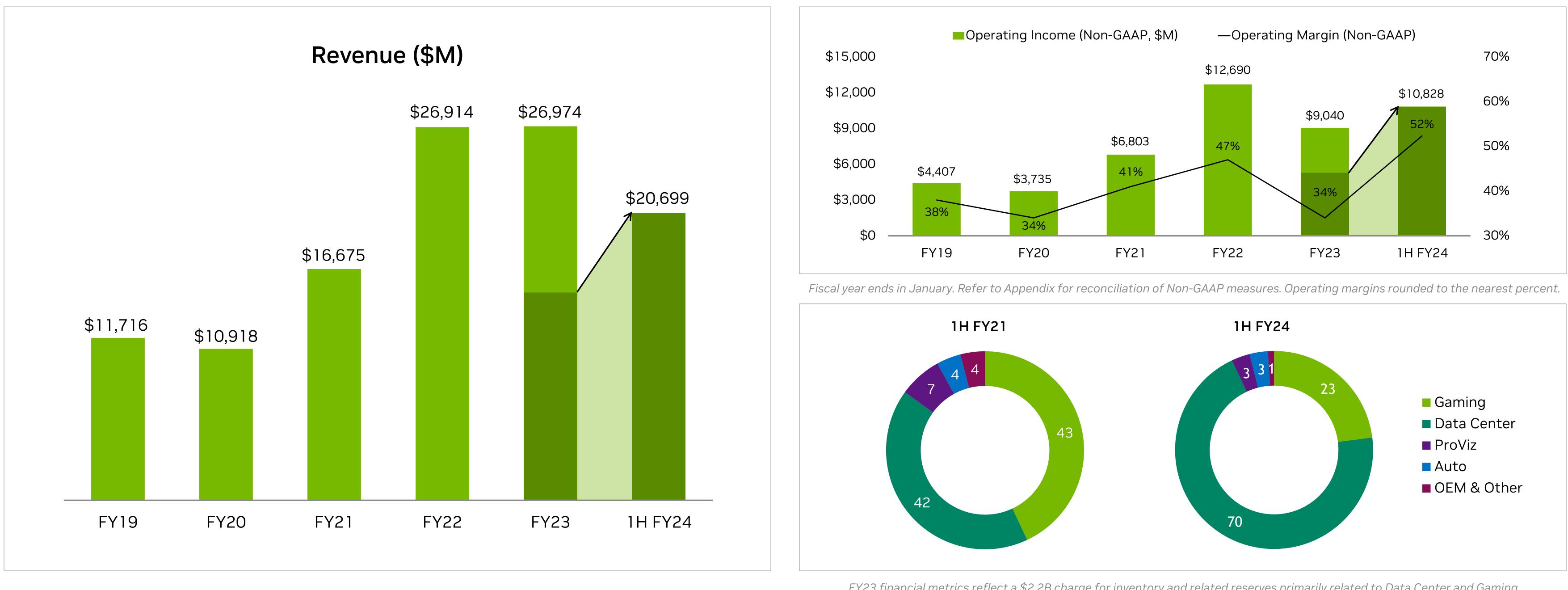




### **NVIDIA AI Enterprise** Broad and deep ecosystem and distribution to reach every enterprise







## **Driving Strong & Profitable Growth**

FY23 financial metrics reflect a \$2.2B charge for inventory and related reserves primarily related to Data Center and Gaming.



## **NVIDIA Gross Margins Reflect Value of Acceleration**

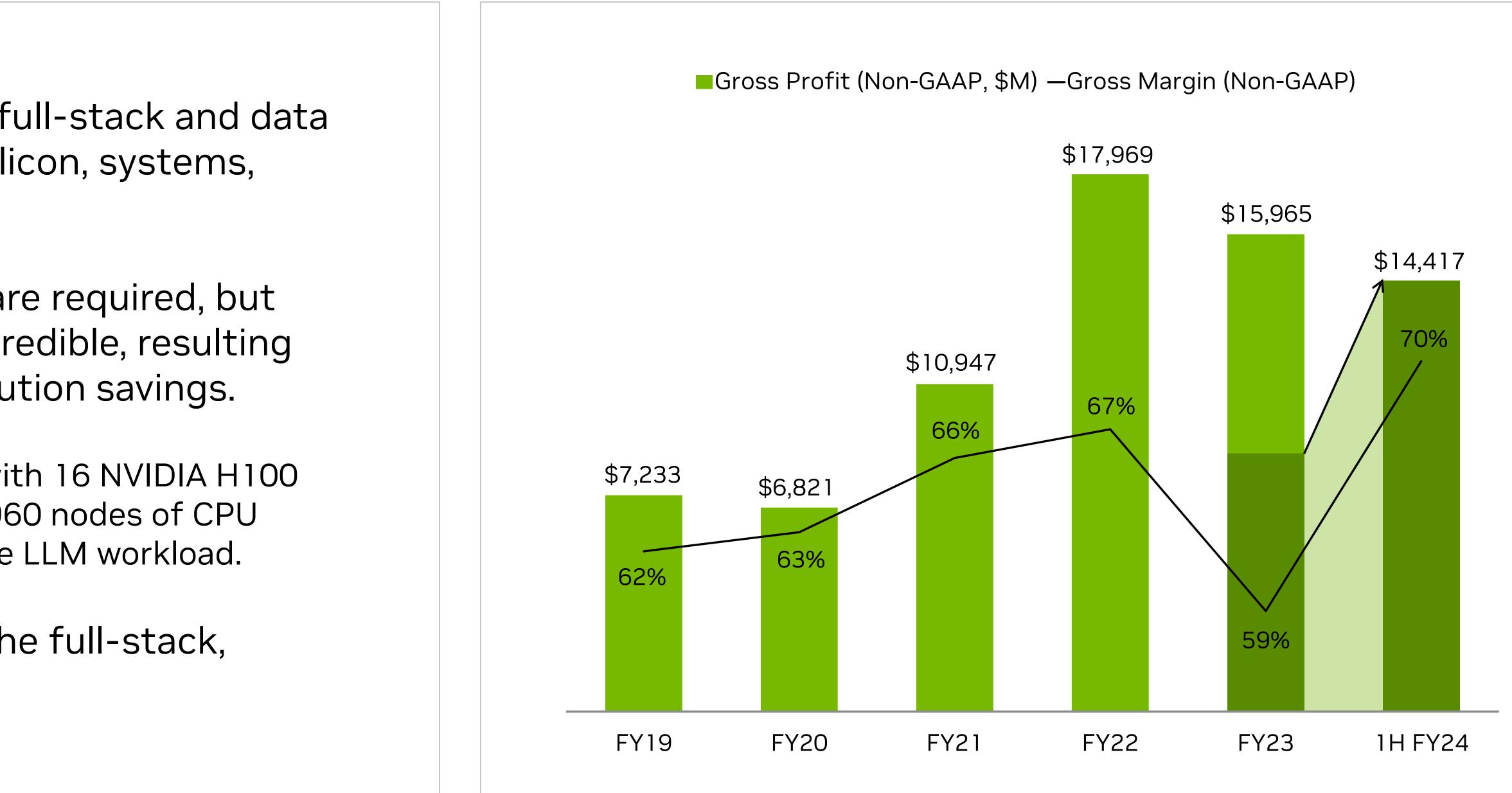
Accelerated computing requires full-stack and data center-scale innovation across silicon, systems, algorithms and applications.

Significant expertise and effort are required, but application speed-ups can be incredible, resulting in dramatic cost and time-to-solution savings.

For example, 2 NVIDIA HGX nodes with 16 NVIDIA H100 GPUs that cost \$400K can replace 960 nodes of CPU servers that cost \$10M for the same LLM workload.

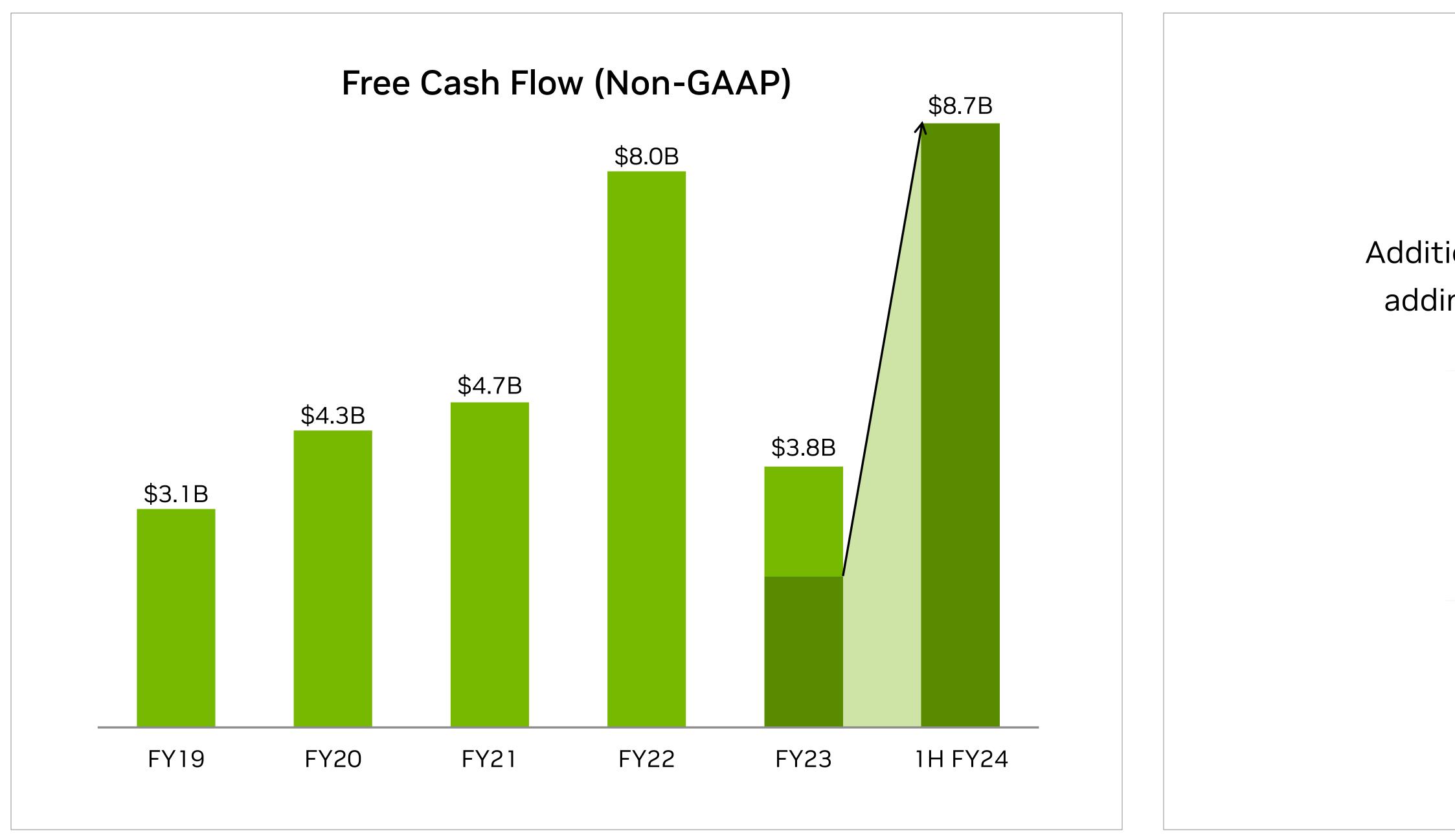
NVIDIA chips carry the value of the full-stack, not just the chip.

Cost comparison example based on latest available NVIDIA A 100 GPU and Intel CPU inference results in the commercially available category of the MLPerf industry benchmark; includes related infrastructure costs such as networking.



FY23 financial metrics reflect a \$2.2B charge for inventory and related reserves primarily related to Data Center and Gaming. Fiscal year ends in January. Refer to Appendix for reconciliation of Non-GAAP measures. Gross margins are rounded to the nearest percent.





Fiscal year ends in January. Refer to Appendix for reconciliation of Non-GAAP measures. <sup>1</sup> Subject to continuing determination by our Board of Directors.

### **Strong Cash Flow Generation**

### **Capital Allocation**

#### Share Repurchase

\$10B repurchased in FY23 Additional \$25B in stock repurchases authorized, adding to \$4B which remained as of end of Q2

Dividend

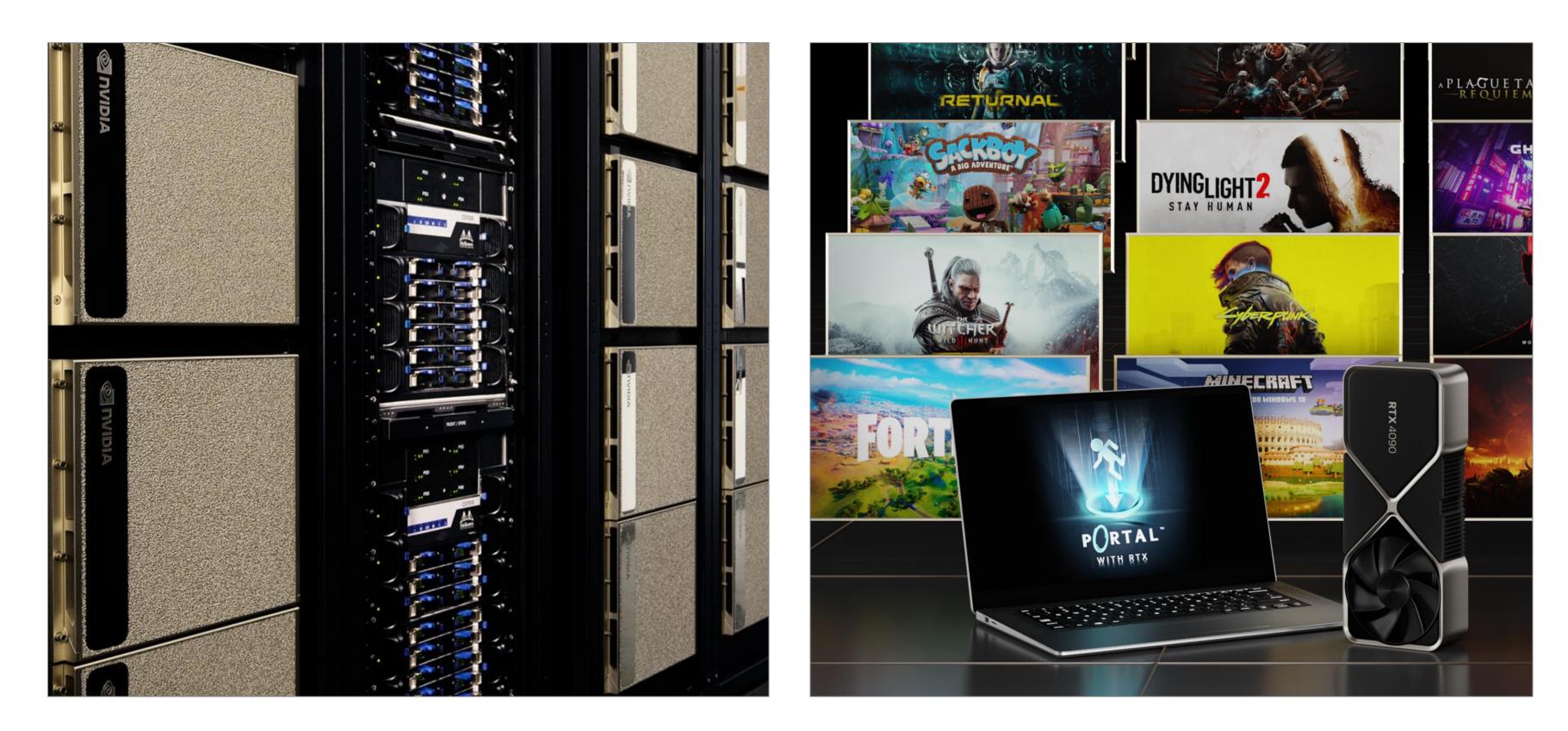
\$398M in FY 2023 Plan to Maintain<sup>1</sup>

#### Strategic Investments

Growing Our Talent Platform Reach & Ecosystem







#### Data Center

56% of FY23 revenue

FY23 Revenue \$15.0B 5-yr CAGR 51%

DGX/HGX/MGX/IGX systems

GPU | CPU | DPU | Networking NVIDIA AI software

### **Our Market Platforms at a Glance**



Gaming 33% of FY23 revenue

FY23 Revenue \$9.1B 5-yr CAGR 10%

GeForce GPUs for PC gaming GeForce NOW cloud gaming

**Professional Visualization** 

6% of FY23 revenue

FY23 Revenue \$1.5B 5-yr CAGR 11%

NVIDIA RTX GPUs for workstations

Omniverse software



Automotive

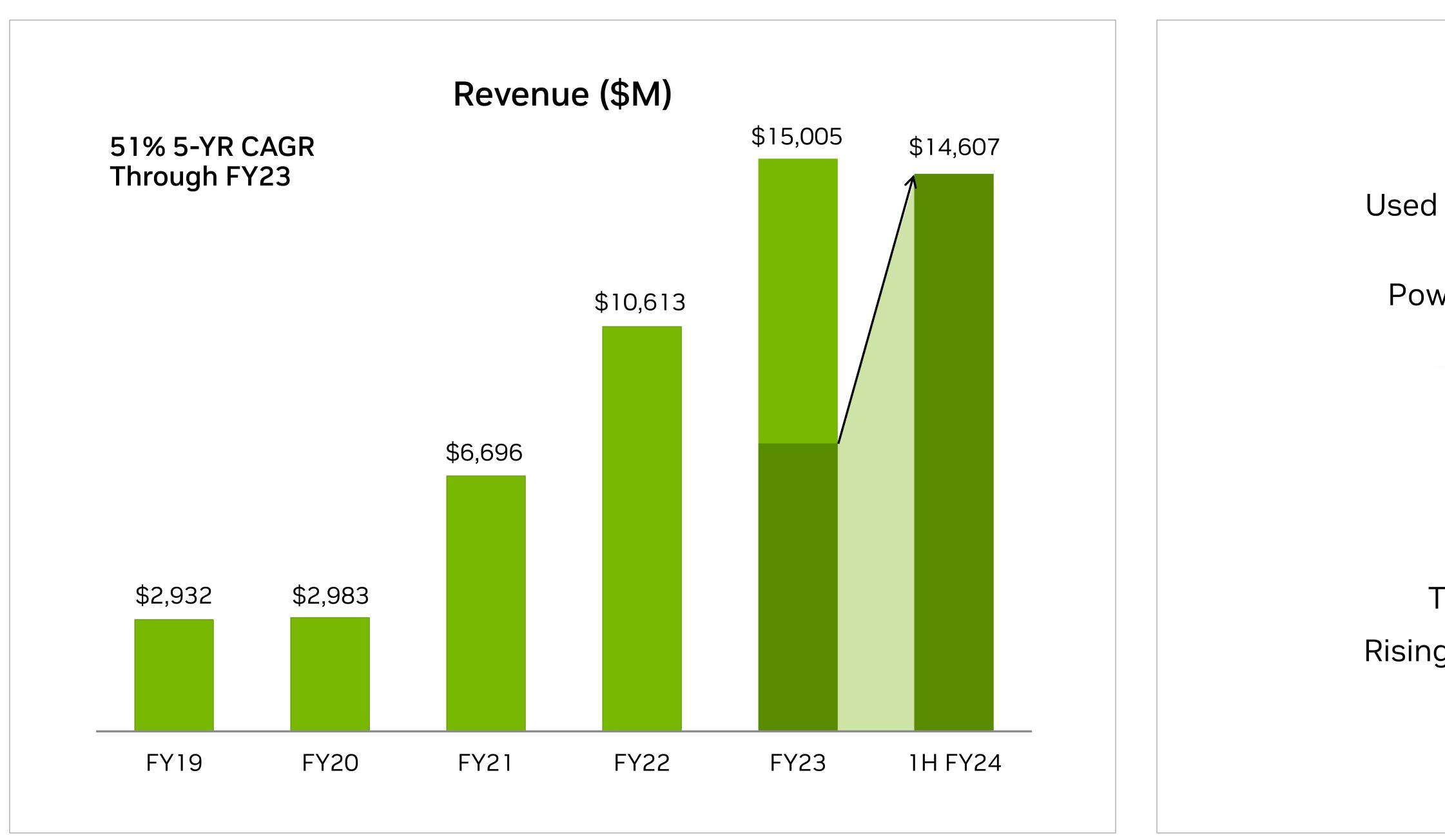
3% of FY23 revenue

FY23 Revenue \$0.9B 5-yr CAGR 10%

DRIVE Hyperion sensor architecture with AGX compute

DRIVE AV & IX full stack software for ADAS, AV & AI cockpit





### **Data Center**

The leading computing platform for AI, HPC & graphics

#### Leader in AI & HPC

#1 in AI training and inference

Used by all hyperscale & major cloud computing providers and 40,000 enterprises

Powers 74% of the TOP500 supercomputers

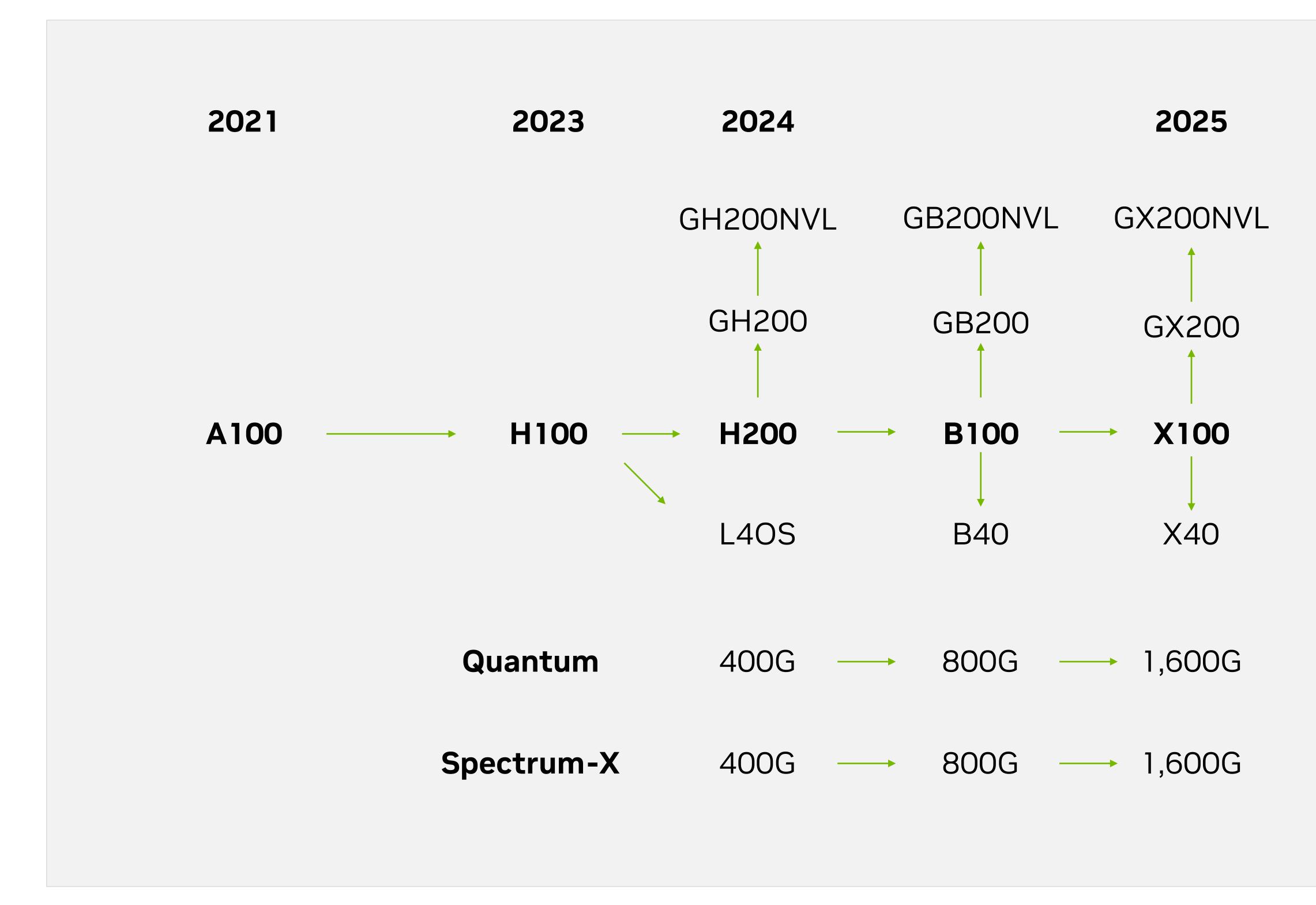
#### **Growth Drivers**

Rapid AI adoption across industries Full-stack AI | Software Three chip strategy — GPU | CPU | DPU Rising computation requirements for modern AI Data-center scale innovation Omniverse



# From Two-Year Rhythm to

# NVIDIA AI – One Architecture | Train and Deploy Everywhere One-Year Rhythm | Training & Inference | x86 & Arm | Hyperscale & Enterprise



Arm Training & Inference

Arm Inference

X86 Training & Inference

X86 Enterprise & Inference

InfiniBand Al Infrastructure

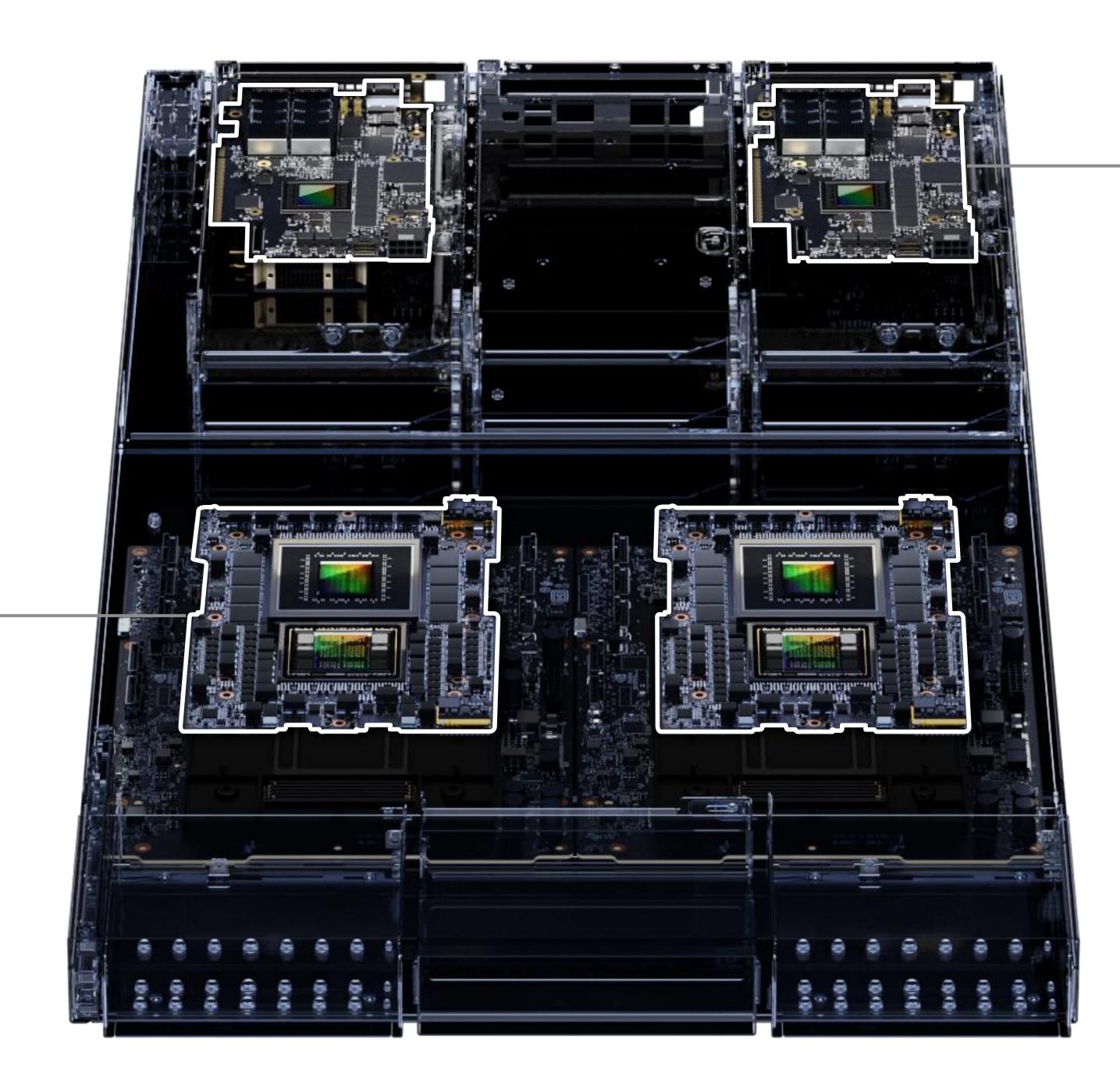
Ethernet-X Enterprise & Hyperscale AI Infrastructure



### NVIDIA GH200

72-Core Grace CPU 500 GB LPDDR5X 4 PFLOPS Hopper GPU 141 GB/5 Tbps HBM3e

### **NVIDIA Grace Hopper Superchip**

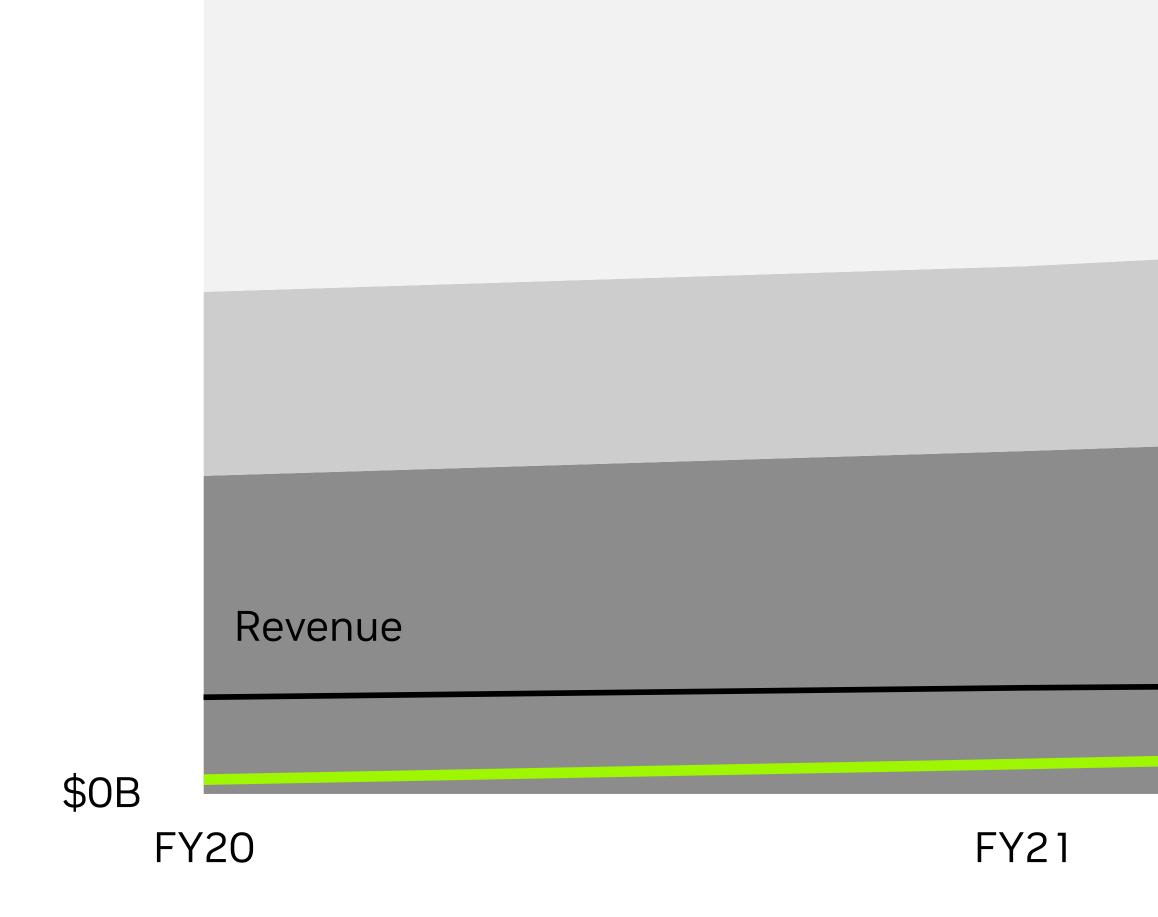


### **NVIDIA BlueField-3**





\$250B



## Addressing the Entire Data Center

\$1T+ data center infrastructure installed base

#### FY22

Source: Mercury Research, Dell'Oro Assumes NVIDIA Fiscal Year aligns to Calendar Year (e.g. FY23 = CY22)



Network Infrastructure

Servers

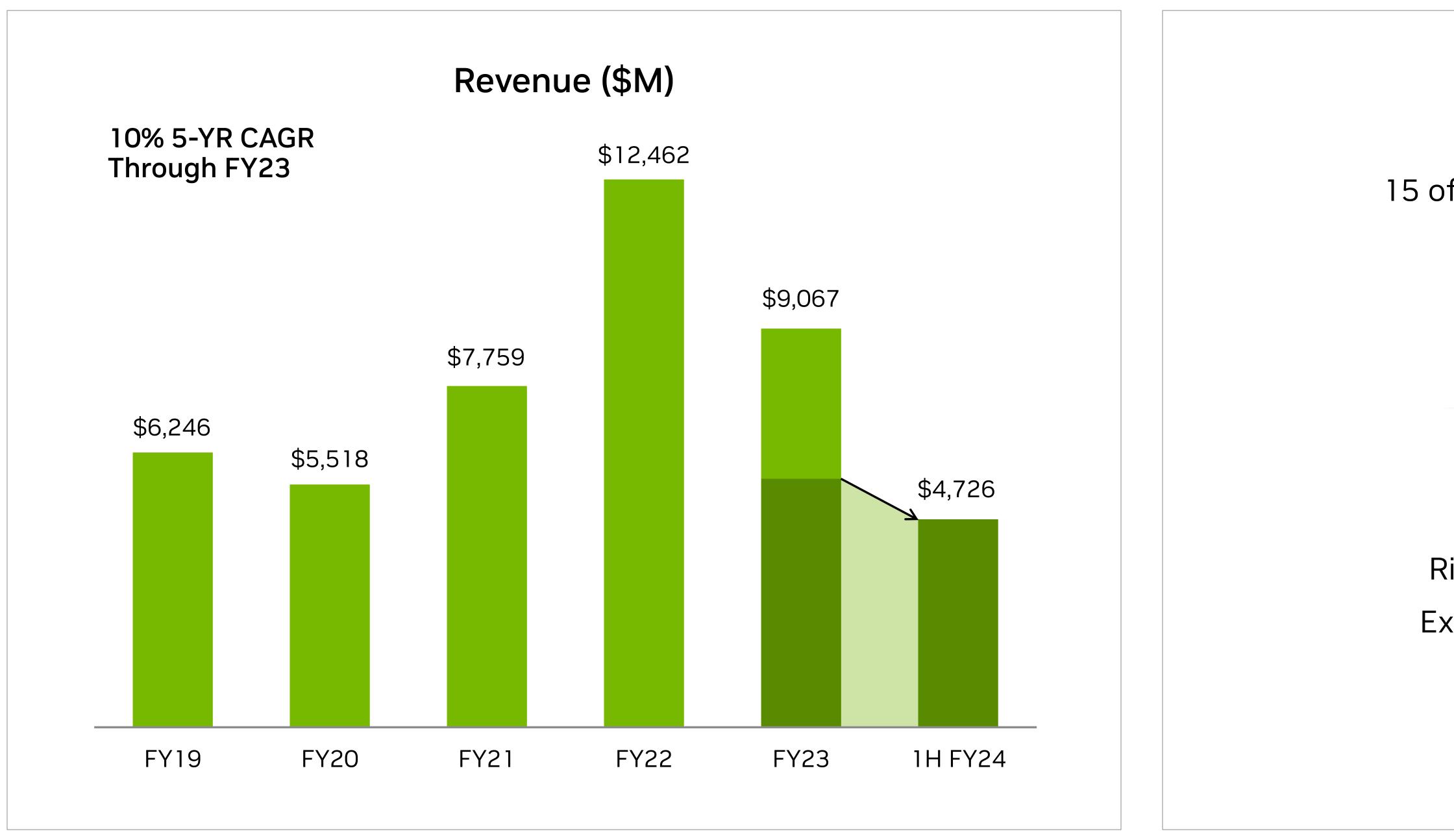
NVIDIA Data Center

Server CPU

Q2 FY24 Annualized







## Gaming

GeForce — the world's largest gaming platform

### Leader in PC Gaming

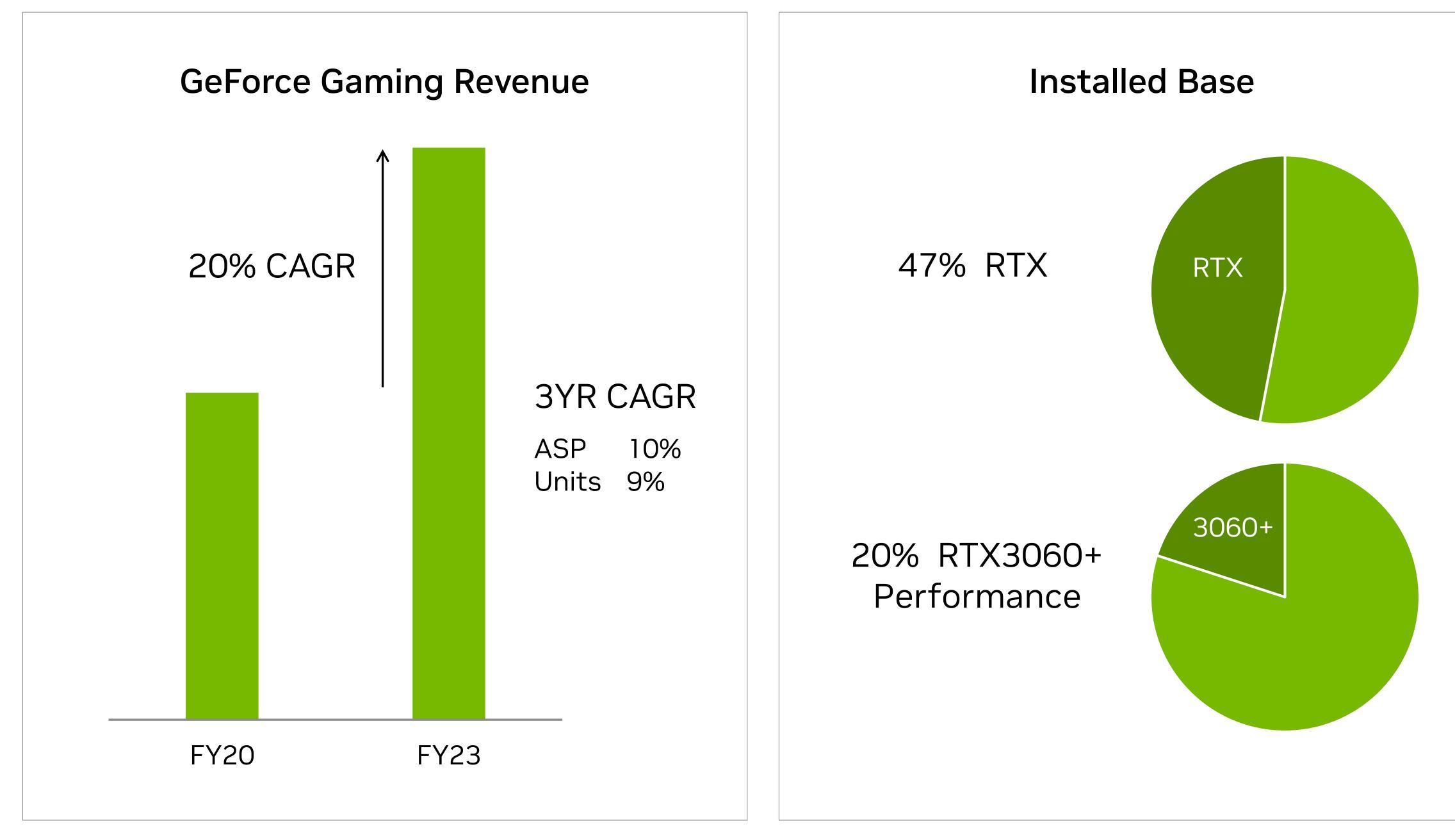
Strong #1 market position 15 of the top 15 most popular GPUs on Steam Leading performance & innovation 200M+ gamers on GeForce

#### **Growth Drivers**

Rising adoption of NVIDIA RTX in games Expanding universe of gamers & creators Gaming laptops & Gen Al on PCs GeForce NOW Cloud gaming



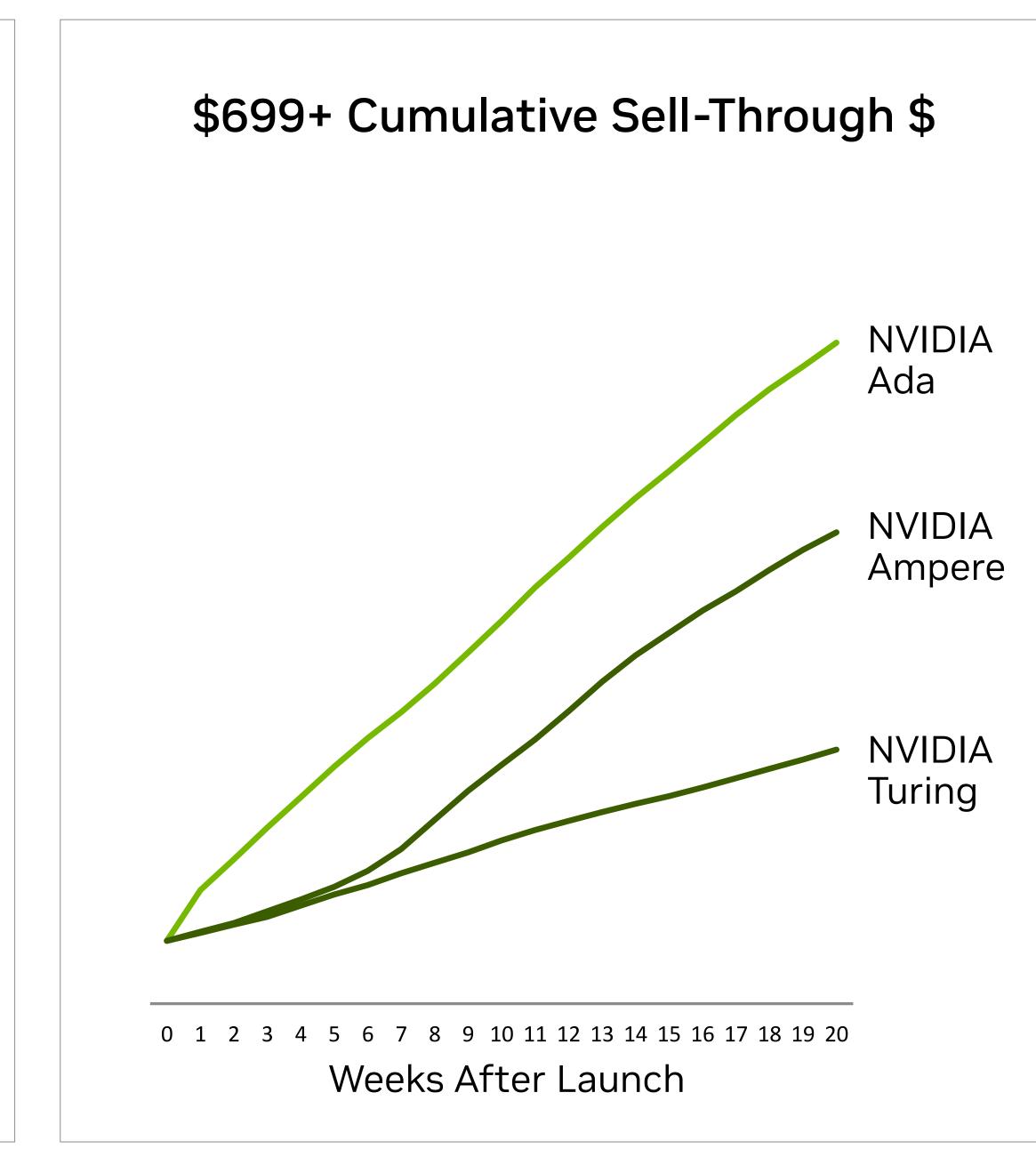
### GeForce Extends Growth, Large Upgrade Opportunity



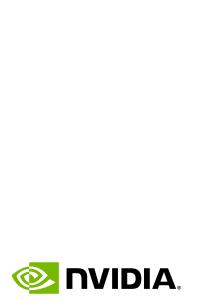
#### More Gamers, Richer Mix

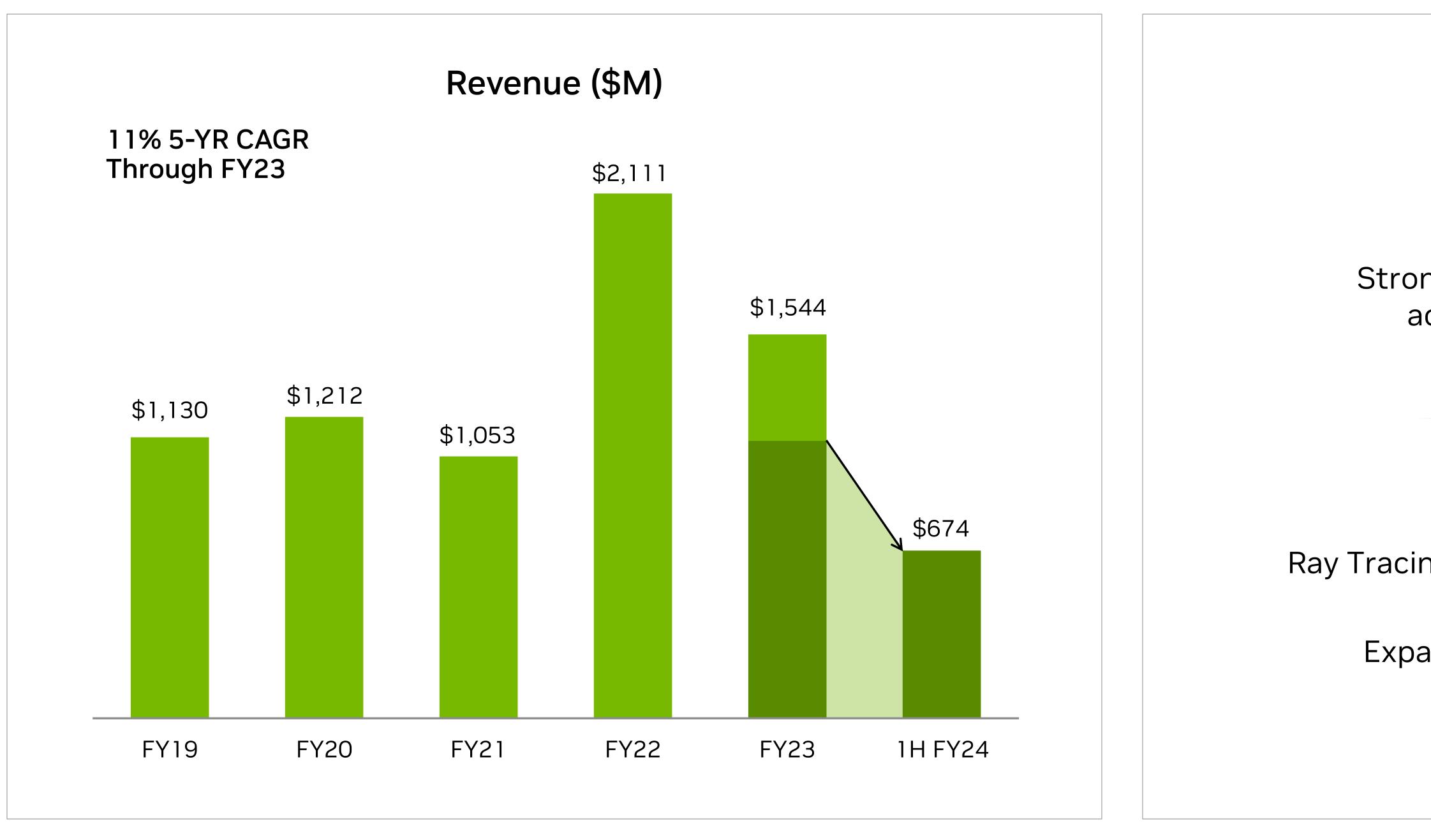
### Installed Base Needs Upgrade

Source: NVIDIA estimates



Ada: 3X Turing Ramp at \$699+





### **Professional Visualization**

Workstation graphics

### Leader in Workstation Graphics

95%+ market share in graphics for workstations

45M Designers and Creators

Strong software ecosystem with over 100 RTX accelerated and supported applications

#### **Growth Drivers**

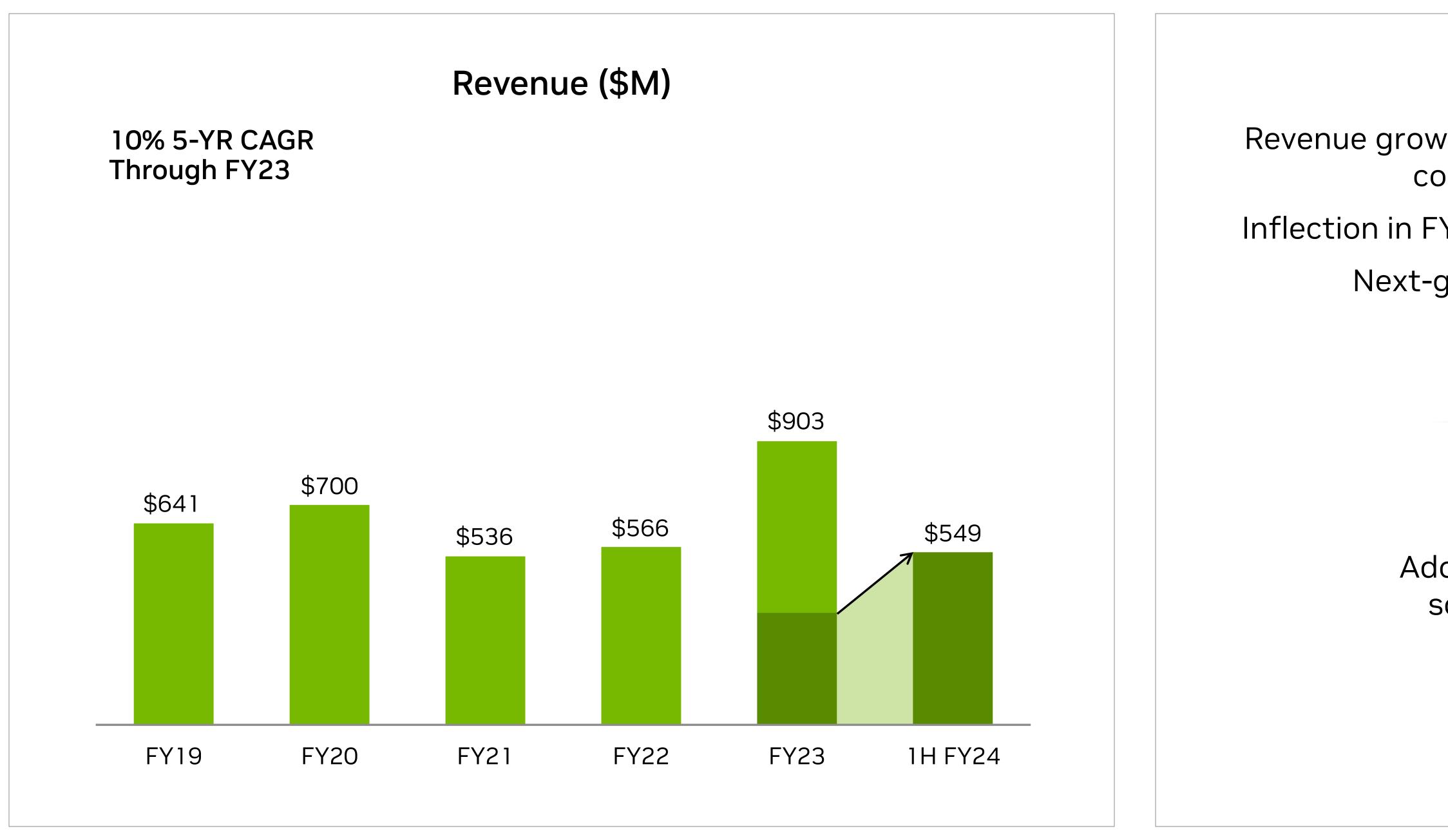
Ray Tracing and generative AI revolutionizing design and content creation

Expanding universe of designers and creators

Collaborative 3D design / Omniverse

Hybrid work environments





### Automotive

Autonomous Vehicles (AV) & Al Cockpit

\$14B Design Win Pipeline Through FY29

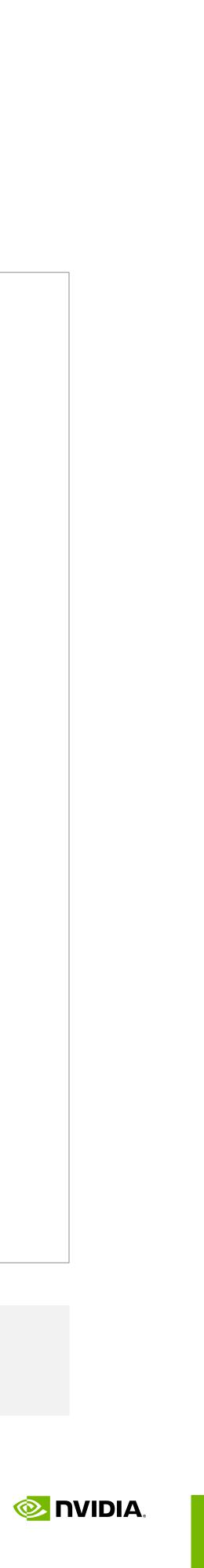
#### Leader in Autonomous Driving

Revenue growth primarily fueled by NVIDIA DRIVE, our AV and AI cockpit platform with full software stack Inflection in FY23 driven by AV as DRIVE Orin SoC began to ramp Next-generation DRIVE Thor SoC to ramp in FY26

#### **Growth Drivers**

Adoption of centralized car computing and software-defined vehicle architectures

> AV software and services: Mercedes Benz Jaguar Land Rover



### **\$1 Trillion Long-Term Annual Market Opportunity**

Enterprise

Cloud Service Providers & Consumer Internet Industrial Digitalization

Autonomous Vehicles & Robotics

> Gaming \$100B

Omniverse Enterprise \$150B

Autonomous Machines \$300B

NVIDIA AI Enterprise & DGX Cloud \$150B

Data Center Systems \$300B



Al is the new software and Accelerated Computing the new hardware

Huge ROI from Gen AI – from new revenue or dramatically lower costs - is driving a powerful new investment cycle

NVIDIA's accelerated computing platform delivers unmatched performance and TCO savings

### Summary

Gen AI is the tipping point for the new computing era

Strong revenue, operating profit, and cash flow growth

\$1T market opportunity



## **Reconciliation of Non-GAAP to GAAP Financial Measures**



### **Reconciliation of Non-GAAP to GAAP Financial Measures**

Gross Margin (\$ in Millions & Margin Percentage)	Non-GAAP	Acquisition-Related and Other Costs (A)	Stock-Based Compensation (B)	<b>IP-Related Costs</b>	GAAP
FY 2019	\$7,233		(27)	(35)	\$7,171
	61.7%		(0.2)	(0.3)	61.2%
FY 2020	\$6,821		(39)	(14)	\$6,768
	62.5%		(0.4)	(0.1)	62.0%
FY 2021	\$10,947	(425)	(88)	(38)	\$10,396
	65.6%	(2.6)	(0.5)	(0.2)	62.3%
FY 2022	\$17,969	(344)	(141)	(9)	\$17,475
	66.8%	(1.4)	(0.5)		64.9%
FY 2023	\$15,965	(455)	(138)	(16)	\$15,356
	59.2%	(1.7)	(0.5)	(0.1)	56.9%
1H FY 2023	\$8,636	(214)	(76)		\$8,346
	57.6%	(1.4)	(0.5)		55.7%
1H FY 2024	\$14,417	(239)	(58)	(10)	\$14,110
	69.7%	(1.2)	(0.3)		68.2%

A. Consists of amortization of intangible assets and inventory step-up
B. Stock-based compensation charge was allocated to cost of goods sold



## **Reconciliation of Non-GAAP to GAAP Financial Measures (contd.)**

Operating Income and Margin (\$ in Millions & Margin Percentage)	Non-GAAP	Acquisition Termination Cost	Acquisition-Related and Other Costs (A)	Stock-Based Compensation (B)	IP-Related Costs	Other (C)	GAAP
FY 2019	\$4,407		(2)	(557)	(35)	(9)	\$3,804
	37.6%			(4.7)	(0.3)	(0.1)	32.5%
FY 2020	\$3,735		(31)	(844)	(14)		\$2,846
	34.2%		(0.3)	(7.7)	(0.1)		26.1%
FY 2021	\$6,803		(836)	(1,397)	(38)		\$4,532
	40.8%		(5.0)	(8.4)	(0.2)		27.2%
FY 2022	\$12,690		(636)	(2,004)	(9)		\$10,041
	47.2%		(2.5)	(7.4)			37.3%
FY 2023	\$9,040	(1,353)	(674)	(2,710)	(16)	(63)	\$4,224
	33.5%	(5.0)	(2.5)	(10.0)	(0.1)	(0.2)	15.7%
1H FY 2023	\$5,280	(1,353)	(324)	(1,227)		(9)	\$2,367
	35.2%	(9.0)	(2.2)	(8.2)			15.8%
1H FY 2024	\$10,828		(311)	(1,576)	(10)	10	\$8,941
	52.3%		(1.5)	(7.6)			43.2%

A. Consists of amortization of acquisition-related intangible assets, inventory step-up, transaction costs, compensation charges, and other costs
B. Stock-based compensation charge was allocated to cost of goods sold, research and development expense, and sales, general and administrative expense

C. Comprises of legal settlement costs, contributions, restructuring costs and assets held for sale related adjustments



### **Reconciliation of Non-GAAP to GAAP Financial Measures**

(\$ in Millions)	Free Cash Flow	Purchases Related to Property and Equipment and Intangible Assets	Principal Payments on Property and Equipment and Intangible Assets	Net Cash Provided by Operating Activities
FY 2019	\$3,143	600		\$3,743
FY 2020	\$4,272	489		\$4,761
FY 2021	\$4,677	1,128	17	\$5,822
FY 2022	\$8,049	976	83	\$9,108
FY 2023	\$3,750	1,833	58	\$5,641
1H FY 2023	\$2,171	794	36	\$3,001
1H FY 2024	\$8,691	537	31	\$9,259





