NVIDIA ENTERPRISE
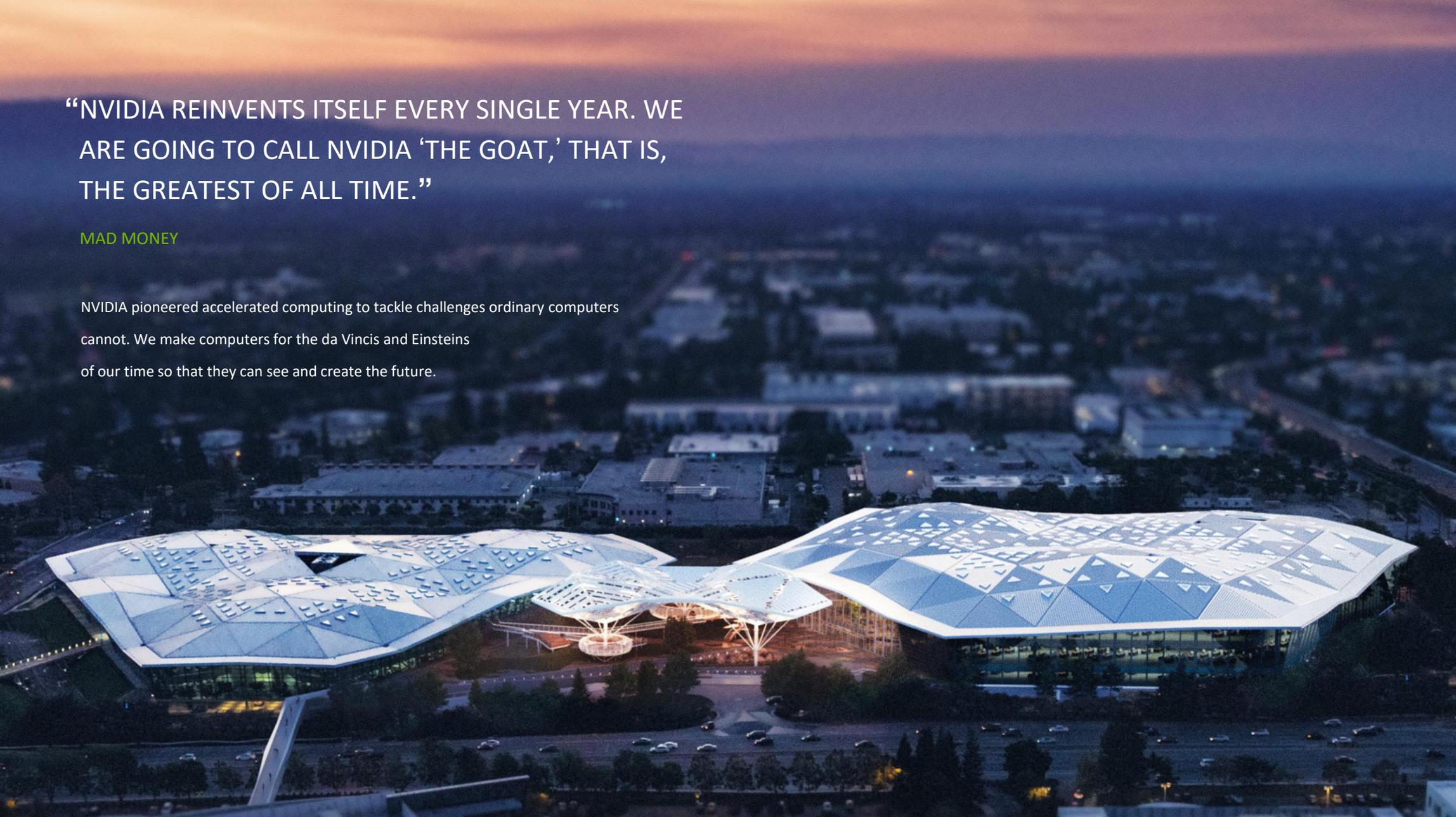## TECNOLOGÍA AVANZADA PARA LA EDUCACIÓN SUPERIOR Y CENTROS DE INVESTIGACIÓN

EMILIO TAMEZ, ENTERPRISE BUSINESS

"NVIDIA REINVENTS ITSELF EVERY SINGLE YEAR. WE ARE GOING TO CALL NVIDIA 'THE GOAT,' THAT IS, THE GREATEST OF ALL TIME."
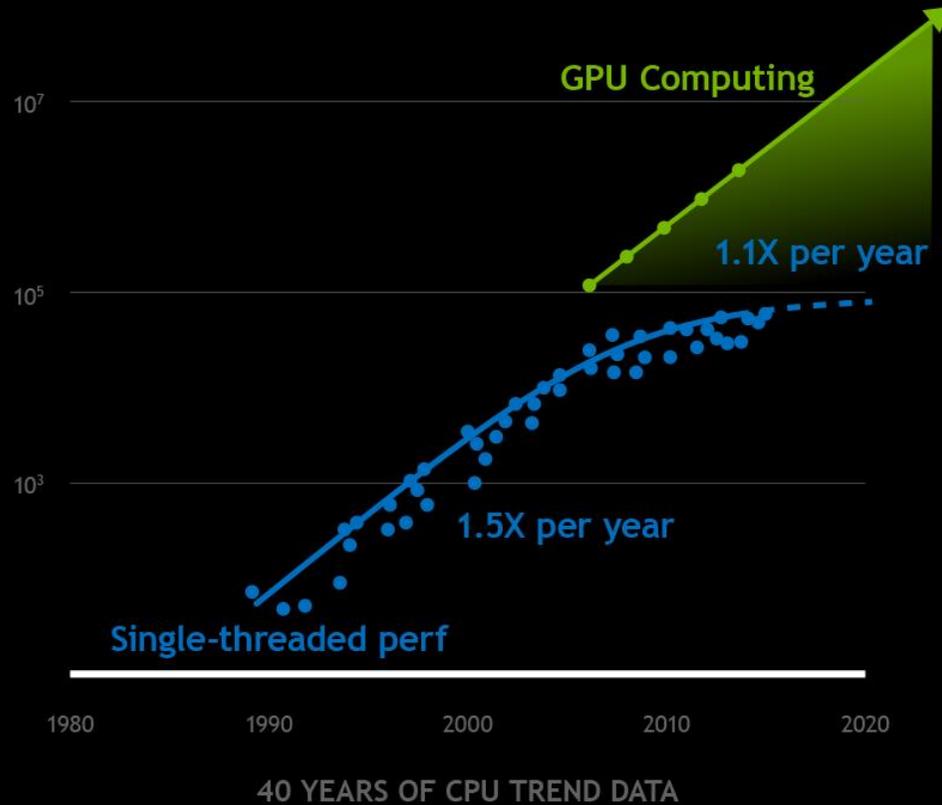
MAD MONEY

NVIDIA pioneered accelerated computing to tackle challenges ordinary computers cannot. We make computers for the da Vincis and Einsteins of our time so that they can see and create the future.

THE TIME HAS COME FOR GPU COMPUTING

For 30 years, the dynamics of Moore's law held true. Microprocessor performance advanced at a rate of 50 percent per year as more and more transistors were fit onto a single chip. But that approach is hitting the limits of semiconductor physics, and, today, CPU performance only grows by 10 percent per year. NVIDIA GPU computing has given the industry a path forward — and will provide a 1,000X speed-up by 2025.
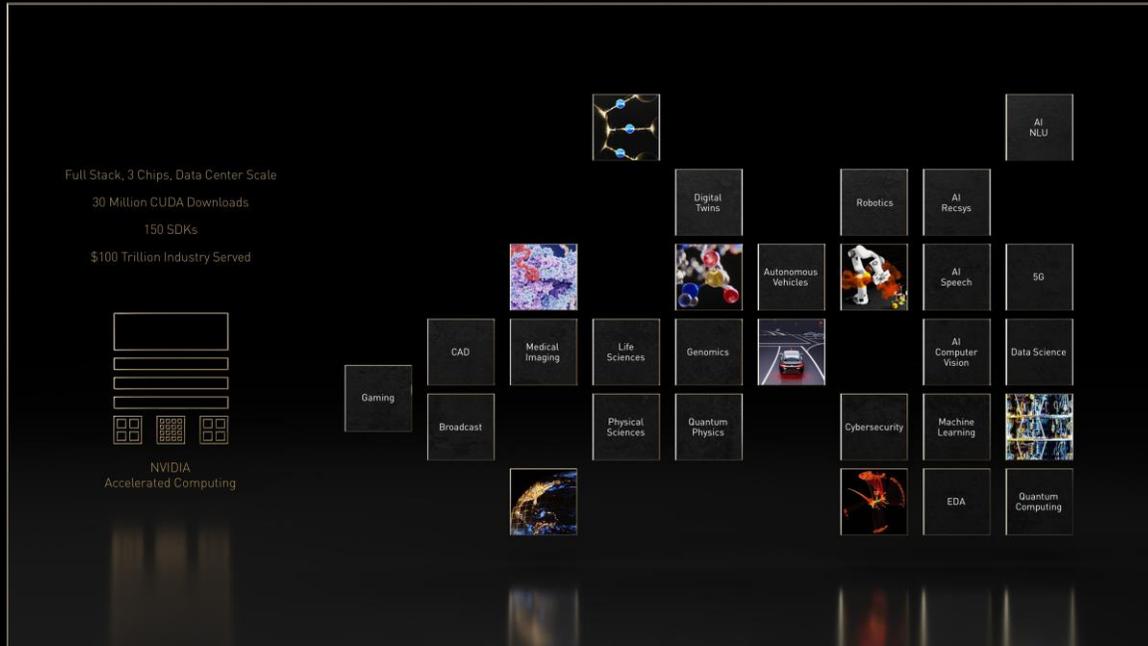

GPU Computing

10^7

1.1X per year

10^5

10^3

1.5X per year

Single-threaded perf

1980   1990   2000   2010   2020

40 YEARS OF CPU TREND DATA

"NVIDIA has steadily put in place the pieces to create a platform that enables AI in a broad range of uses and to make it widely accessible to developers and enterprises. At the GTC conference this week, the company is continuing this steady drumbeat, showing how its offerings will enable AI in everything from robots and avatars to virtual worlds, supply chains and the emerging field of quantum computing."

NEW STACK

"THE MOST IMPORTANT THING TO UNDERSTAND ABOUT NVIDIA IS THAT IT IS NOT A HARDWARE COMPANY, AND NOT A SOFTWARE COMPANY. IT IS A COMPANY THAT INTEGRATES BOTH."

Full Stack, 3 Chips, Data Center Scale

30 Million CUDA Downloads

150 SDKs

$100 Trillion Industry Served

NVIDIA Accelerated Computing

" The magic of accelerated computing comes from the combination of CUDA, the acceleration libraries of algorithms that speed up applications, and the distributed computing systems and software that scale processing across entire data centers.
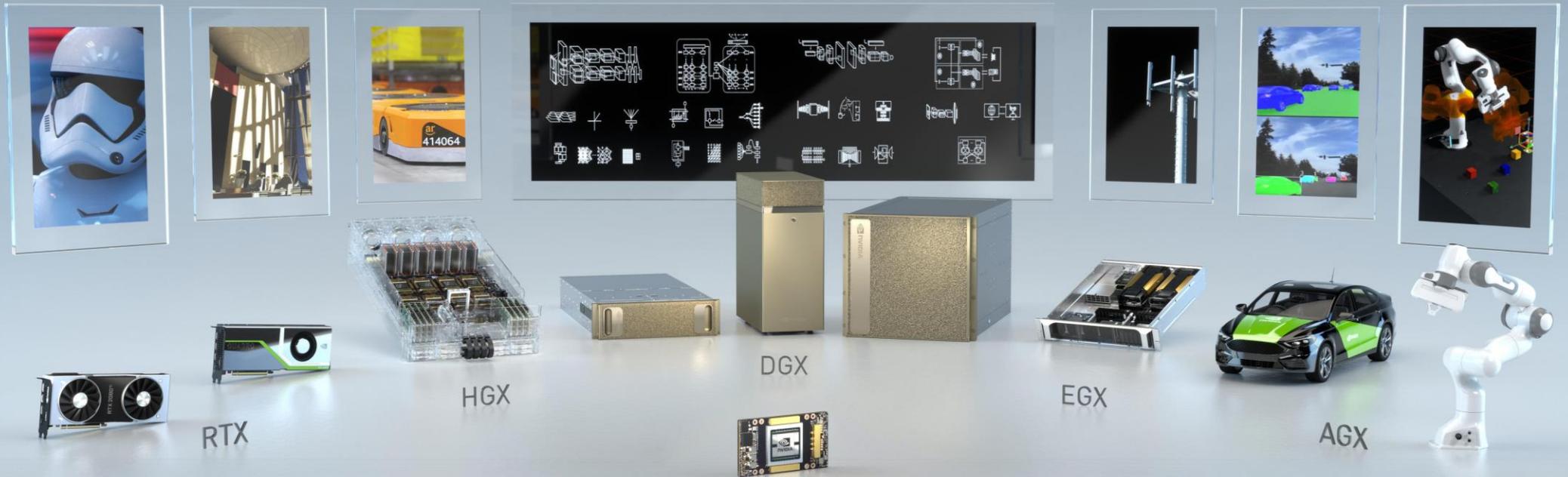
" We have been advancing CUDA and the ecosystem for 15 years and counting. We optimize across the 'full stack,' iterating between GPU, acceleration libraries, systems, and applications, continuously, all the while expanding the reach of our platform by adding new application domains that we accelerate."

"Hemos recorrido un largo camino desde la invención de la GPU para acelerar los juegos hasta la reinvención de la GPU para que sea el coprocesador más diverso y poderoso que hayamos visto".

LA PRÓXIMA PLATAFORMA

NVIDIA fue pionera en el procesamiento acelerado para hacer frente a los desafíos que las computadoras comunes no pueden resolver. Hacemos computadoras para que los da Vincis y Einsteins de nuestro tiempo puedan ver y crear el futuro.

El procesamiento acelerado requiere algo más que un chip potente. Logramos aceleraciones increíbles a través de la invención del conjunto completo, desde el chip y los sistemas hasta los algoritmos y las aplicaciones que ejecutan.

RTX

HGX

DGX

EGX

AGX

TODAY'S AI DATA CENTER

- ▸ 50 DGX-1 systems for AI training
- ▸ 600 CPU systems for AI inference
- ▸ $11M
- ▸ 25 racks
- ▸ 630 kW

DGX A100
DATA CENTER

▸ 5 DGX A100 systems for AI training and inference

▸ $1M

▸ 1 rack

▸ 28 kW

$1M   28 kW

1/10th
COST

1/20th
POWER

ADOPTED BY LEADING COMPANIES ACROSS INDUSTRIES

DGX Station Delivers AI Supercomputing to More Teams, From Anywhere

6
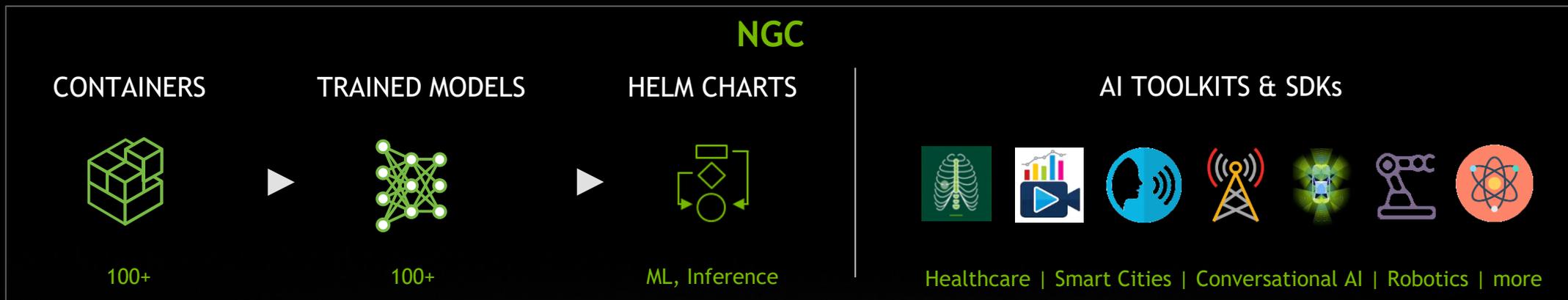Of the Top 10 US Government Institutions

6
Of the Top 10 Global Car Manufacturers

7
of the Top 10 US Hospitals

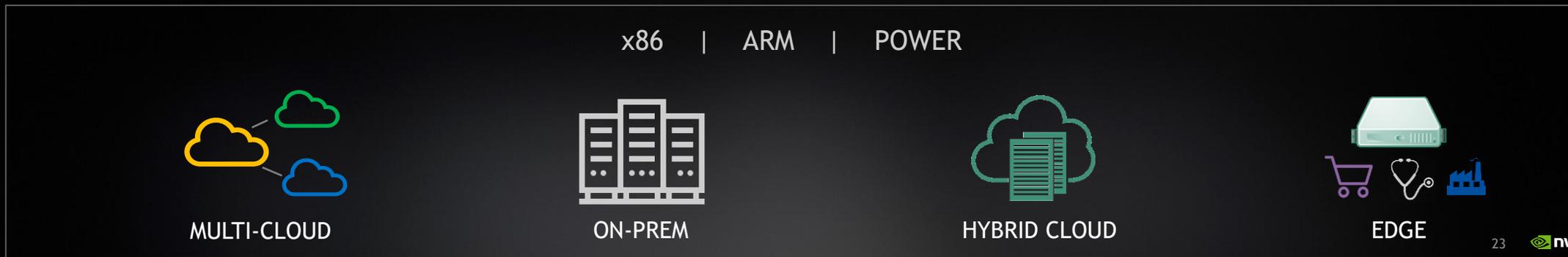**10**
Of the Top 10 Aerospace & Defense Companies

NGC – GPU-OPTIMIZED SOFTWARE
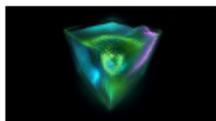## Build AI Faster, Deploy Anywhere

NGC

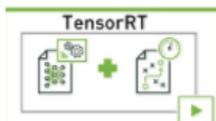| CONTAINERS	TRAINED MODELS	HELM CHARTS	AI TOOLKITS & SDKs
100+	100+	ML, Inference	Healthcare | Smart Cities | Conversational AI | Robotics | more

ENCRYPTED

x86 \| ARM \| POWER

MULTI-CLOUD   ON-PREM   HYBRID CLOUD   EDGE

23

What's New

OptiX 5.0 Available OptiX 5 SDK features built-in support for motion blur, deep-learning based denoiser and more.

VRWorks 360 Video 1.1 Available This release bring many improvements listed below including new calibration technologies.

CUDA 9.1 Available New NPP functions for augmentation, multi-GPU enhancement in cuFFT, cuBLAS updates for Volta GPUs and more.

TensorRT 3 Available New TensorFlow model optimization, faster mixed-precision for CNNs and RNNs used for vision, speech & NLP.

See More

Developer News

AI Helps Farmers Distinguish Crop Data in Real Time
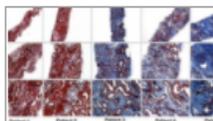April 9, 2018

MIT Researchers Use AI to Capture Silent Speech
April 9, 2018

Drink up! Beer Tasting Robot Uses AI to Assess Quality
April 6, 2018

Researchers Develop AI System for License Plate Recognition
April 5, 2018

Boston University Researchers Use AI to Detect Kidney Disease
April 4, 2018

See More

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DLI UNIVERSITY TRAINING

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www.nvidia.com/dli**

UNIVERSITY AMBASSADOR PROGRAM

- Qualified faculty and researchers can get certified to teach DLI workshops to their students at no cost.

- Hundreds of universities certified around the world, including:

TEACHING KITS

- Qualified university educators can download courseware across deep learning, accelerated computing, and robotics.

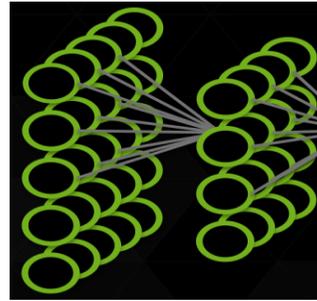- Kits include lecture materials, GPU cloud resources, access to self-paced DLI courses, and more.

NVIDIA DEEP LEARNING INSTITUTE

Hands-on self-paced and instructor-led training in deep learning and accelerated computing for developers

Request onsite instructor-led workshops at your organization: **www.nvidia.com/requestdli**

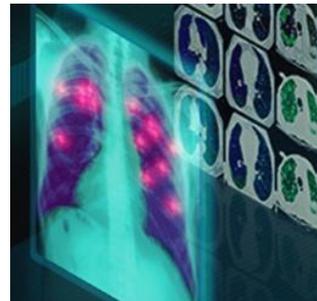Take self-paced labs online:
www.nvidia.com/dlilabs

Download the course catalog, view upcoming workshops, and learn about the University Ambassador Program: **www.nvidia.com/dli**
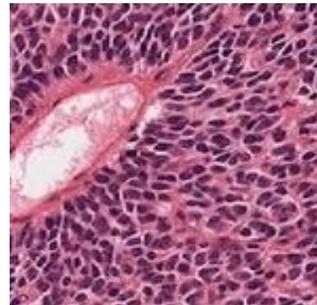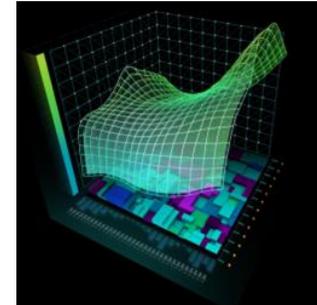

Deep Learning Fundamentals
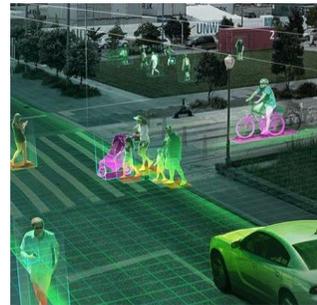
Autonomous Vehicles

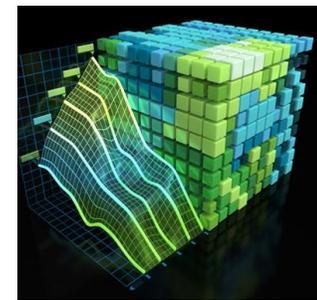Medical Image Analysis

Genomics

Finance

Intelligent Video Analytics

Game Development & Digital Content

Accelerated Computing Fundamentals

More industry-specific training coming soon...

NVIDIA INCEPTION PROGRAM

Accelerating AI startups with powerful GPU tools, tech, and deep learning expertise.
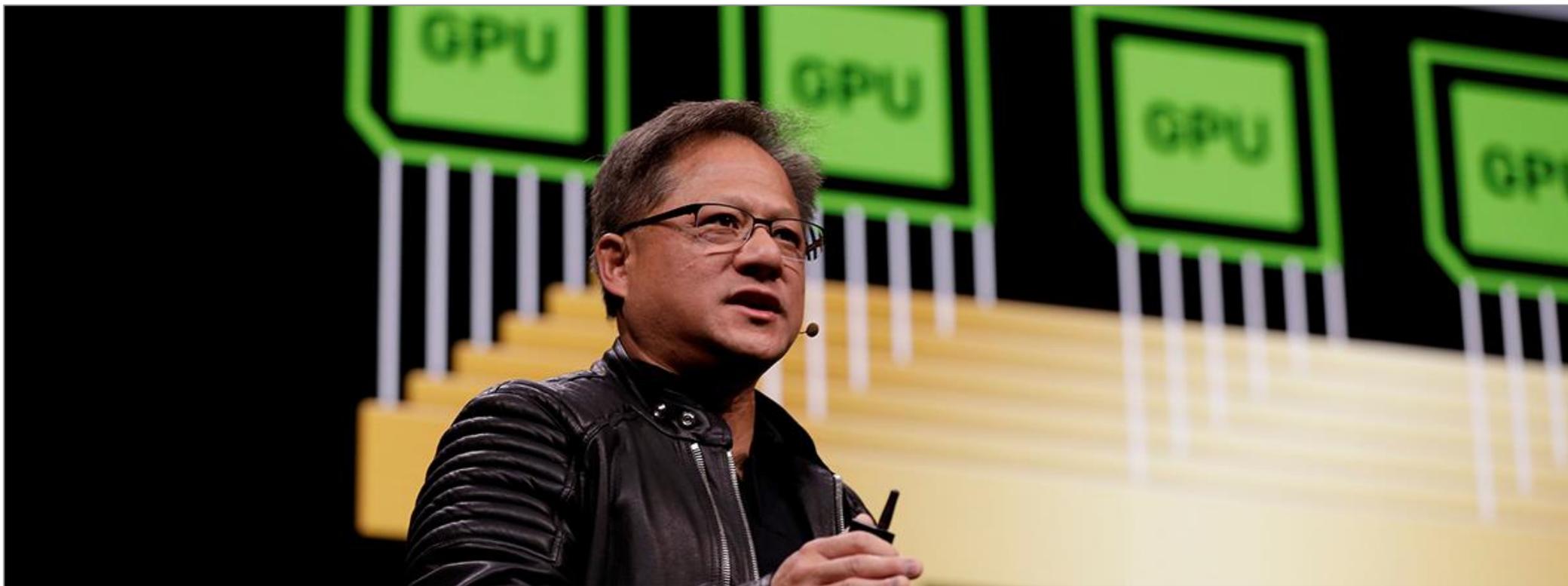
APPLY NOW

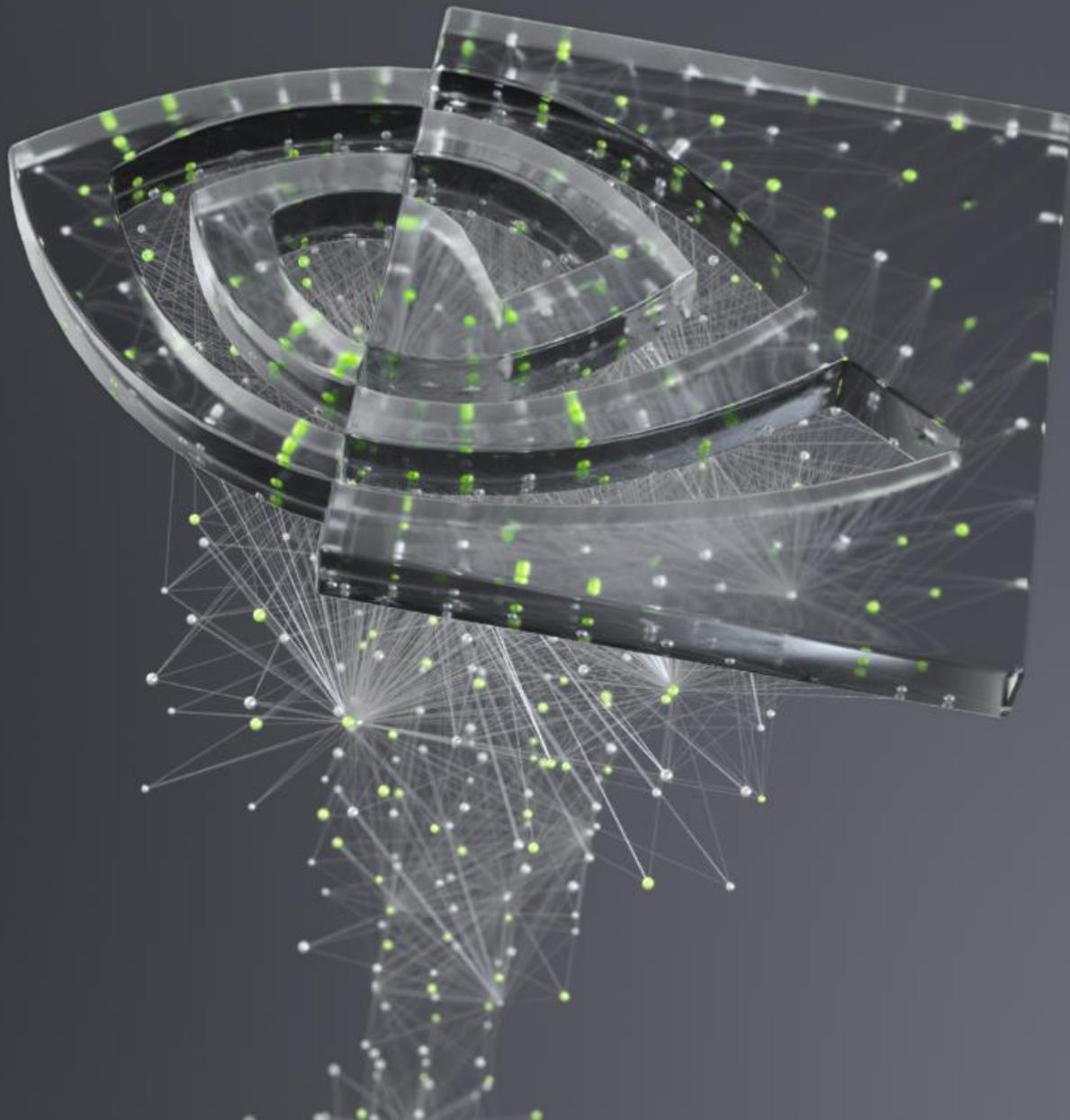http://www.nvidia.com/object/inception-program.html

GPU TECHNOLOGY CONFERENCE

GTC is the premier AI Conference providing training, insights, and direct access to experts on the hottest topics in computing today.

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