Intelligent Future Emerging Technology and AI Trends

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Thailand Enterprise Country Lead, NVIDIA

21 July 2026

Evolution of AI

Agentic AI Enables More Powerful AI Applications

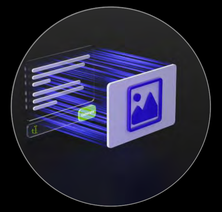


2012 ALEXNET



PERCEPTION AI

SPEECH RECOGNITION
DEEP RECSYS
MEDICAL IMAGING



GENERATIVE AI

DIGITAL MARKETING
CONTENT CREATION



AGENTIC AI

CODING ASSISTANT
CUSTOMER SERVICE
PATIENT CARE



AUTONOMOUS AGENTS

SELF EVOLVING
CONTINUOUS DEVELOPMENT

NVIDIA

The Evolution of AI Agents

From LLMs and multi-turn prompts to long-running agents that modify themselves

ChatGPT

Nov 2022



Foundation LLMs,
Multi-turn Prompts

DeepSeek

Jan 2025



Reasoning Enables Reflection
For Better Outcomes

100x

OpenClaw

Jan 2026

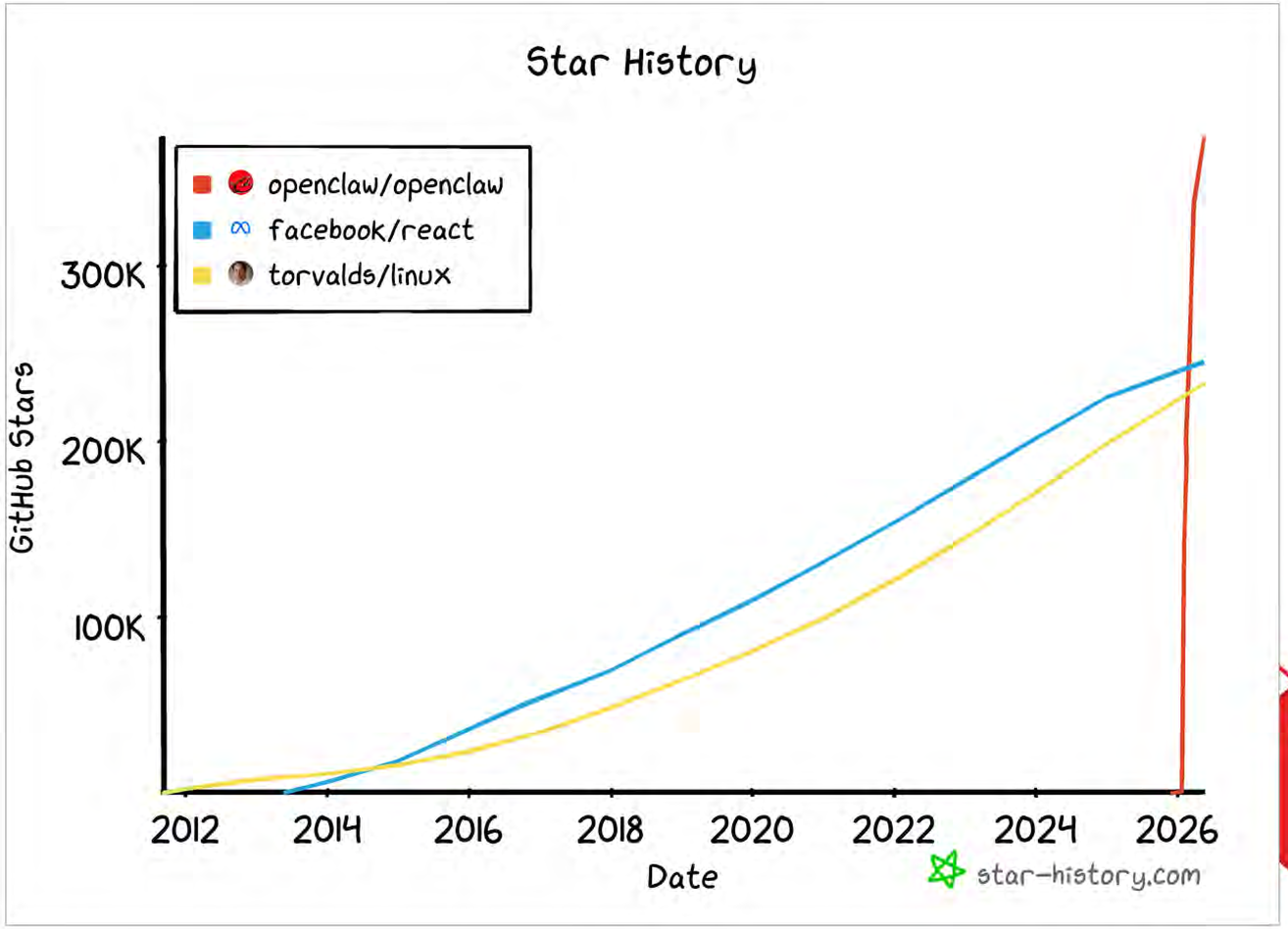


Self Evolving Agents
Working on Your Behalf

1000x

NVIDIA

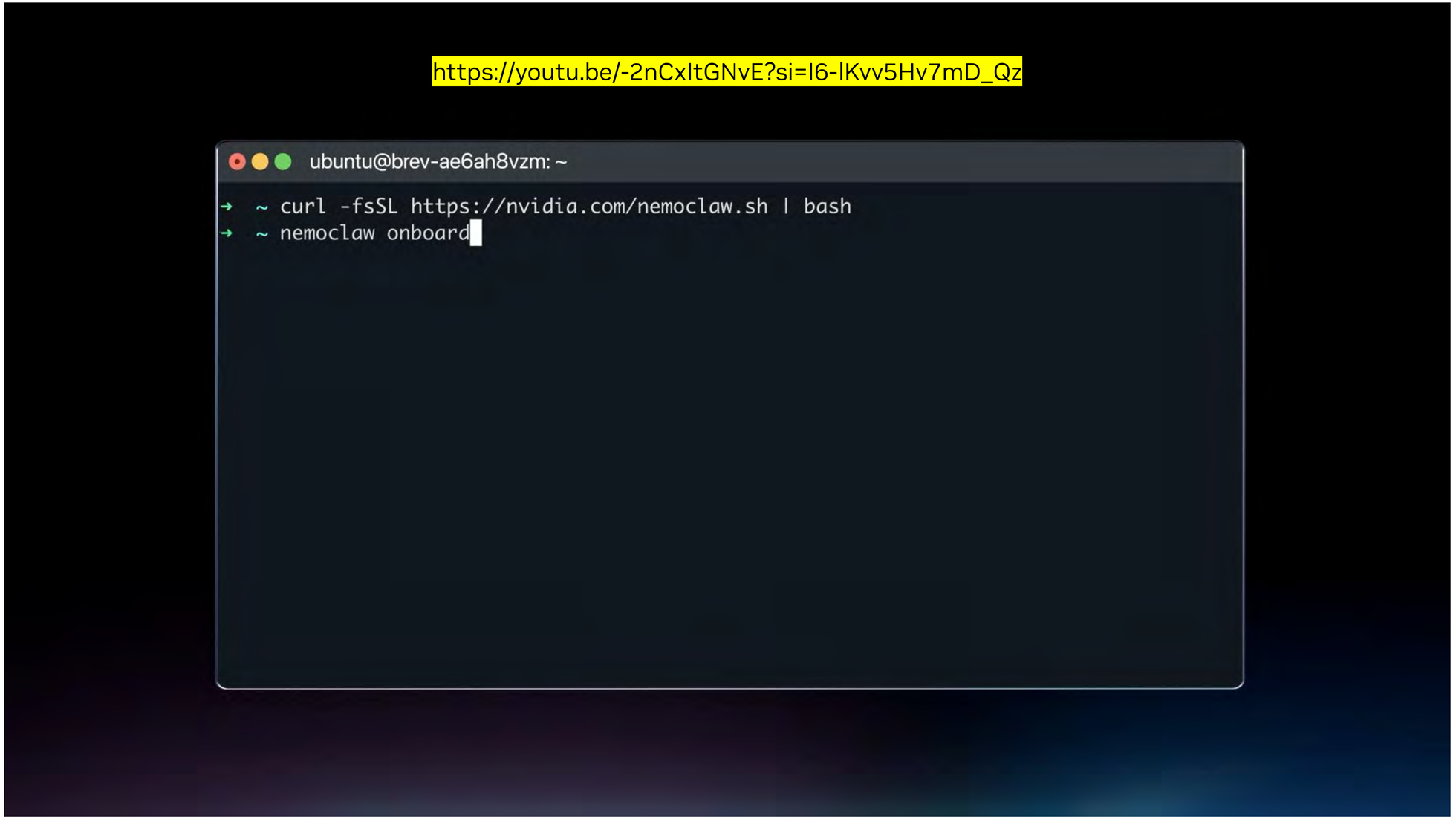
The ChatGPT Moment of Agents is Here





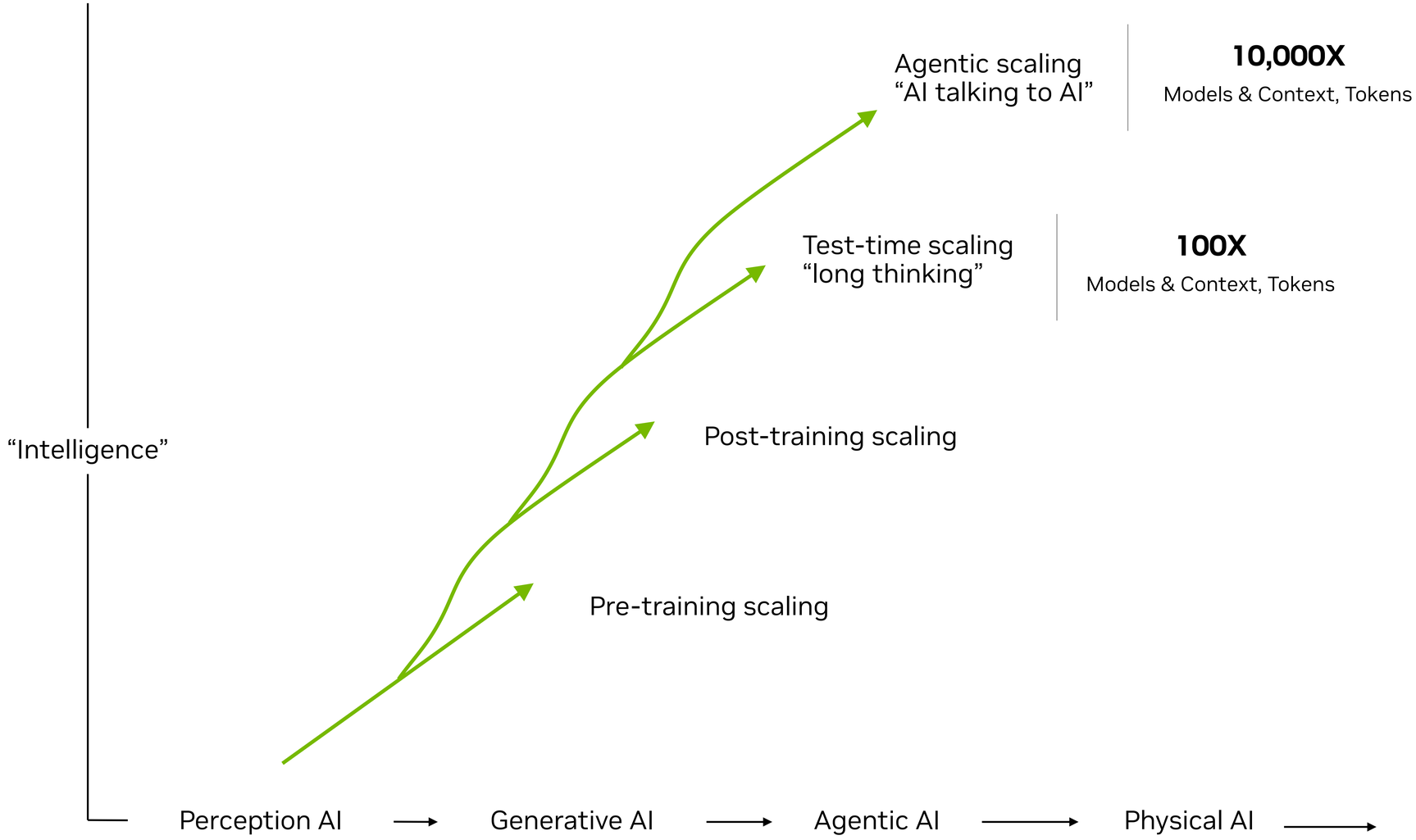
OpenClaw: The ChatGPT Moment for Long-Running, Autonomous Agents

https://youtu.be/-2nCxItGNvE?si=I6-lKvv5Hv7mD_Qz



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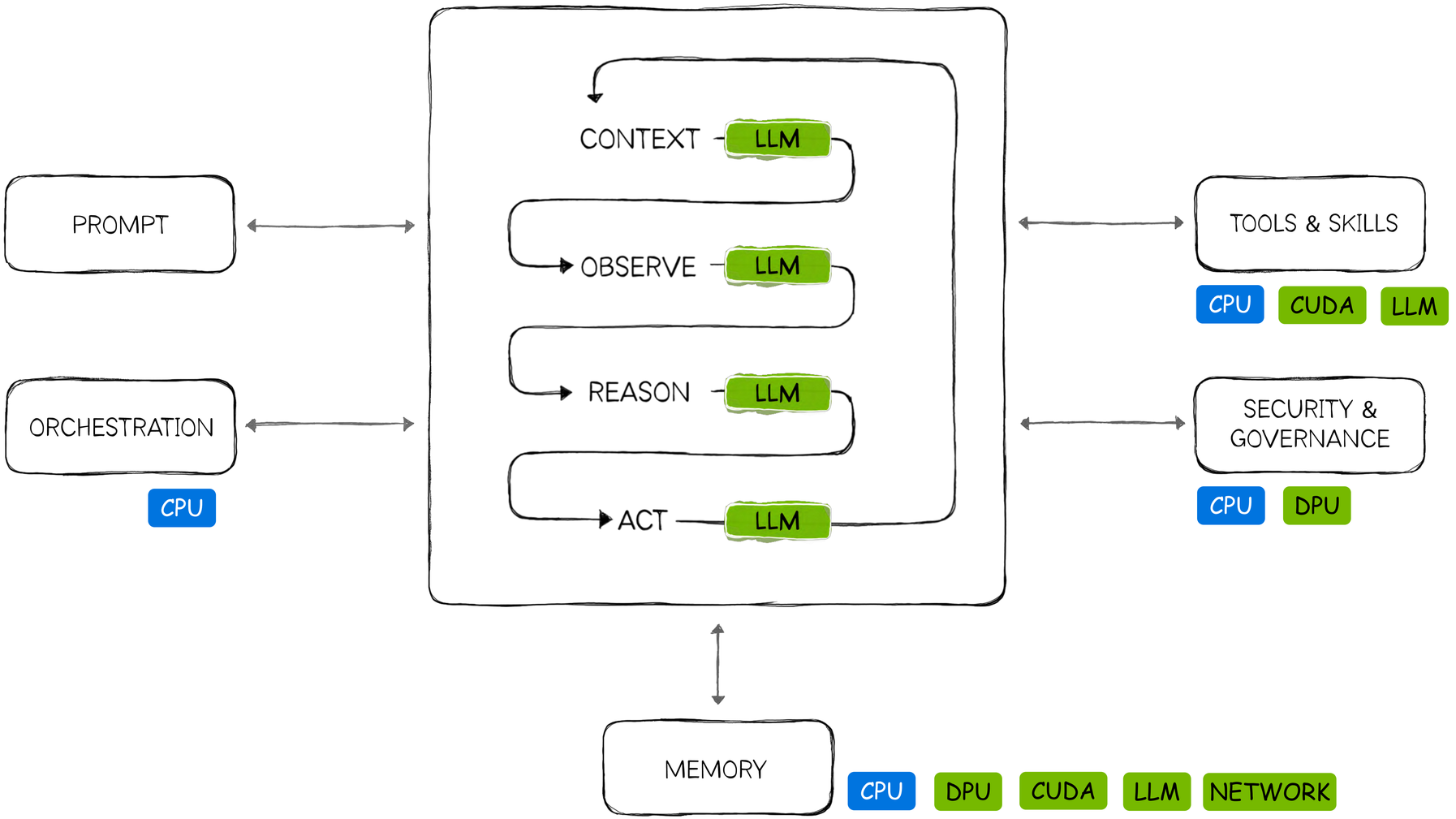
AI Scaling Laws Drive Exponential Demand for Compute



Extreme Co-Design Drives Agentic Performance

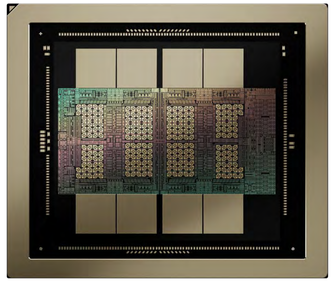


Agents Require a New End-to-End Computing Platform



Agentic AI and Reinforcement Learning Need Fast CPUs

Training & Inference



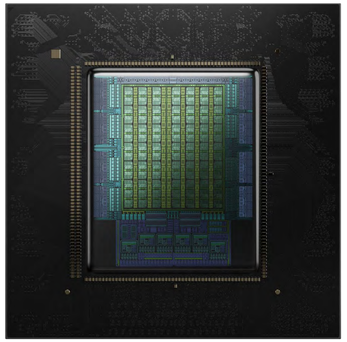
12,000 GPUs

Reinforcement Learning
Training
Agent Inference

Tokens:
Code & Queries

Evaluations:
Results & Data

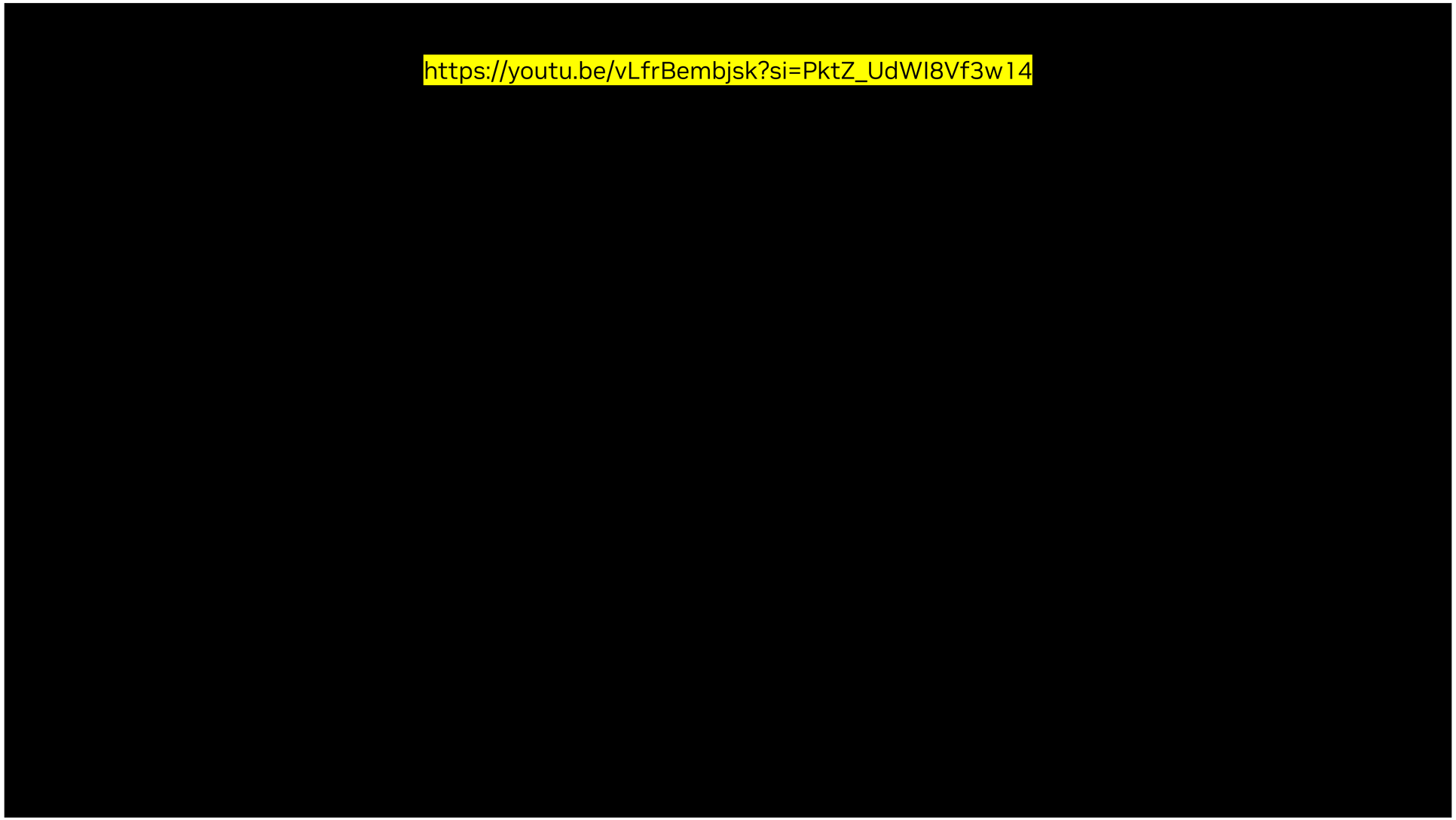
Sandbox Execution



400,000 CPU Cores

SQL Queries
Compile Code
Python Execution

NVIDIA Vera—The CPU for Agents



NVIDIA DSX AI Factory Platform

Extreme Co-Design at Infrastructure Scale

Reference Designs, Best Practices, Methodologies

Rubin DSX Reference Designs



DSX Ecosystem



Omniverse DSX Blueprint



DSX Libraries, APIs, Software

DSX Max-Q



DSX Flex



DSX Exchange

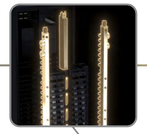


DSX Sim



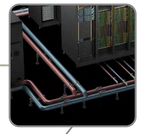
Chips, Systems, Facilities

Power





Liquid Cooling





NVIDIA

AI is a “Five-Layer Cake”

Where nations are investing domestically

Applications	Practical software products and services built on top of AI models for real-world use.
Models	LLMs, VLMs, Physical AI models
Infrastructure	Data centers, networking, cooling, and full AI supercomputer facilities built on top of chips and energy.
Chips	GPUs that run AI workloads.
Energy	Physical electricity generation and grid capacity that powers data centers and AI

NVIDIA.

NVIDIA DSX

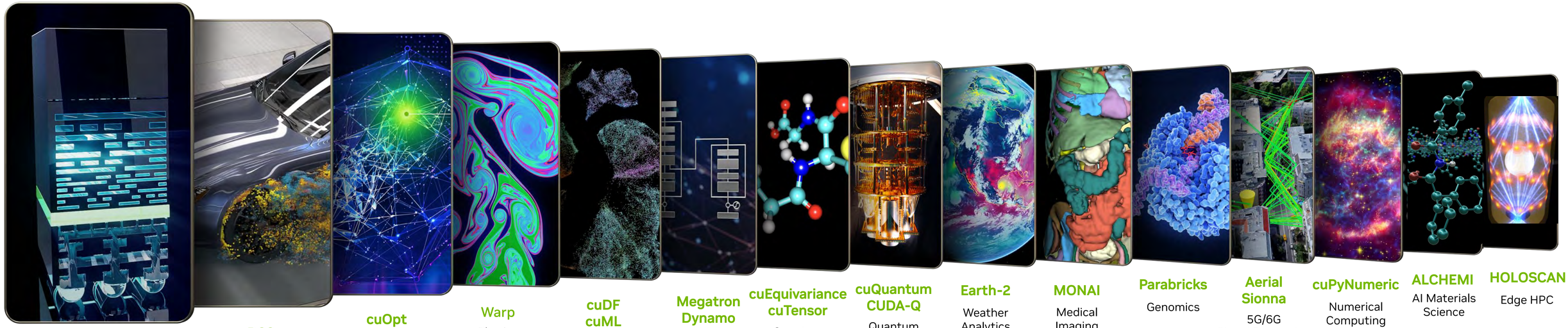
AI Factory Reference Design | Optimizes Across All 5 Layers

5 Layer Cake of AI Factories	**DSX Data Center Reference Design:** Modular codesign from rack to factory scale Facilities, Hardware and Software for fastest time to production token, maximizing token per megawatt
Applications	Optimized by DSX for all Third-Party Applications
AI Models	Optimized by DSX for all Third-Party Models
Infrastructure	Software libraries, Ecosystem integration, Power, Cooling, Controls systems
Chips & Compute	Compute, Network, Storage - Vera-Rubin and SPX6
Energy	Connectivity to the Grid and onsite Power generation

NVIDIA DSX Powers Gigawatt-Scale AI Factories at Maximum Efficiency

https://youtu.be/cf40vNN5_Js?si=kOSFRNuHz4brby0-

Accelerated Computing Begins with CUDA Libraries



cuLitho
Computational Lithography

cuDSS cuSPARSE cuFFT AmgX
Computer Aided Engineering

cuOpt
Decision Optimization

Warp
Physics

cuDF cuML
Data Science and Processing

Megatron Dynamo NIXL cuDNN CUTLASS
Deep Learning

cuEquivariance cuTensor
Quantum Chemistry

cuQuantum CUDA-Q
Quantum Computing

Earth-2
Weather Analytics

MONAI
Medical Imaging

Parabricks
Genomics

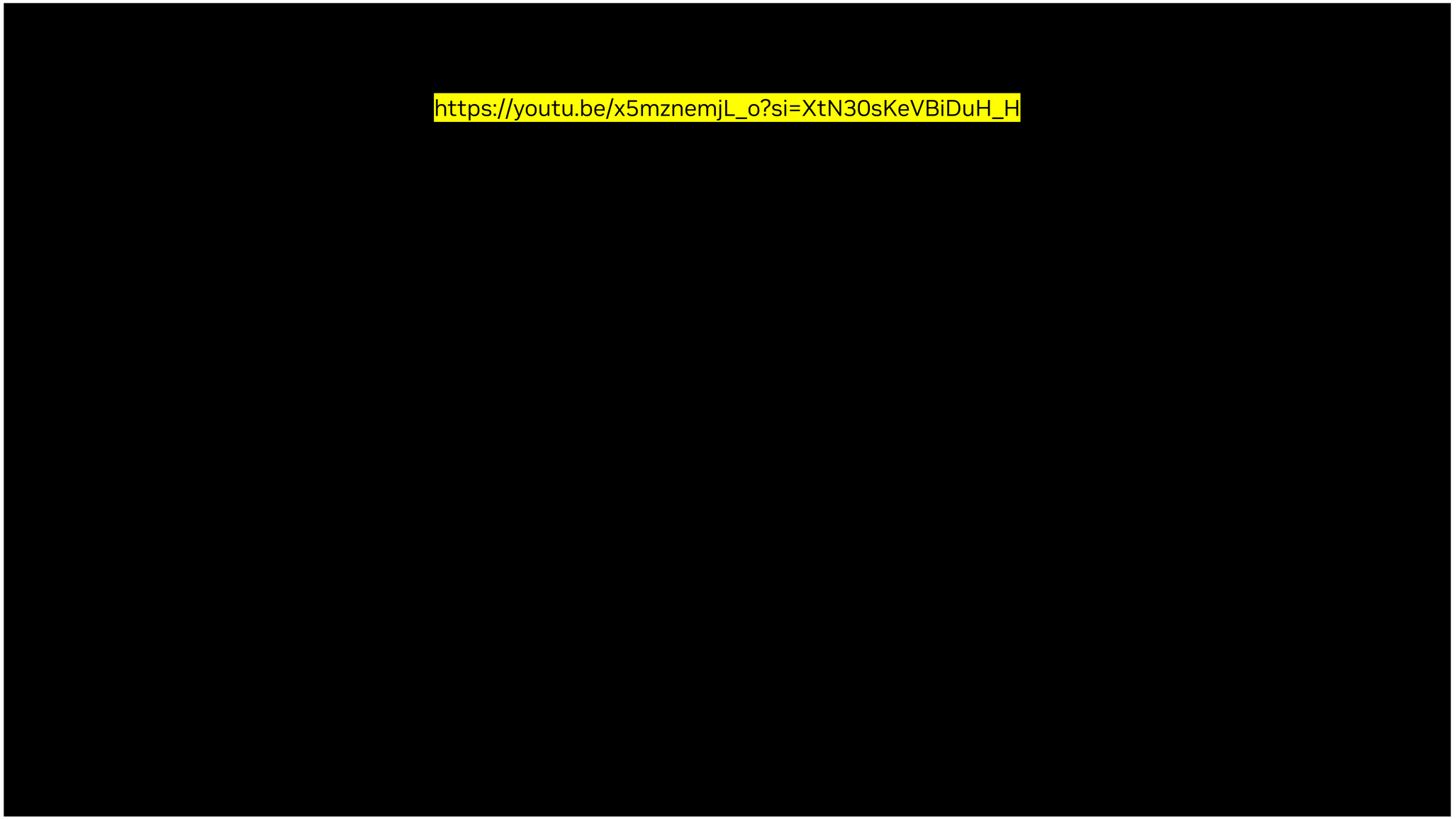
Aerial Sionna
5G/6G Signal Processing

cuPyNumeric
Numerical Computing

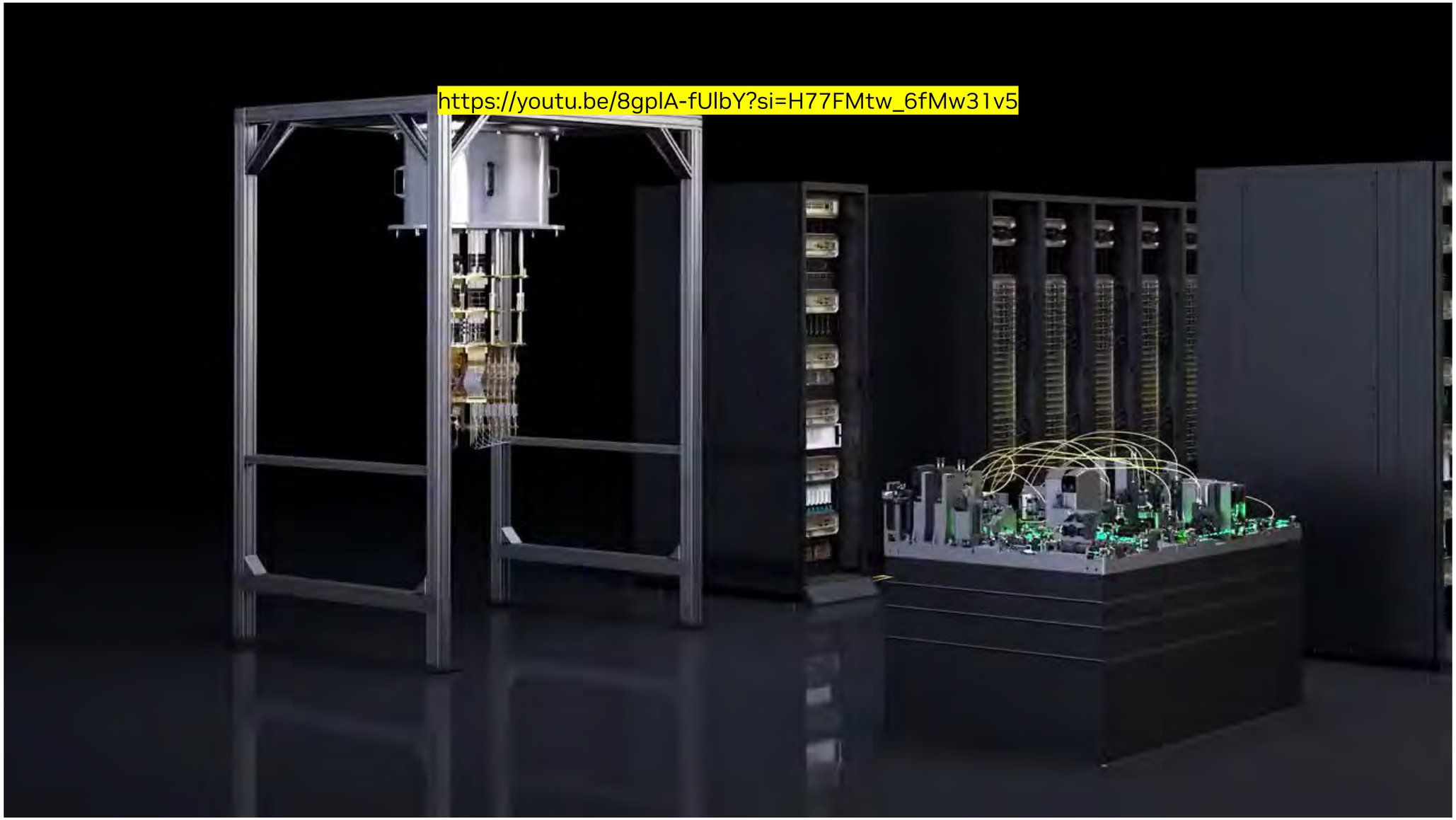
ALCHEMI
AI Materials Science

HOLOSCAN
Edge HPC

NVIDIA Foundational Technology Montage I GTC 2026 Edition



NVQLink: Unlocking Quantum-GPU Supercomputing



NVIDIA CUDA-Q
Quantum-GPU Classical Computing



QPU

GB200 NVL72

Speedup
vs. CPU

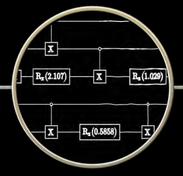
800X

1,200X

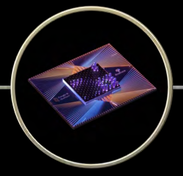
4,000X

1,300X

500X



cuQuantum
Quantum Algorithm
Development



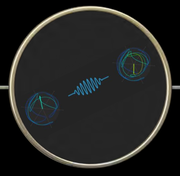
cuQuantum
Qubit Design
EDA



cuQuantum
Quantum Data
Generation



CUDA-Q
Hybrid
Applications

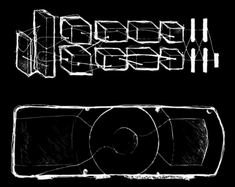


CUDA-Q
Quantum Error
Correction

Evolution of AI

Agentic AI enables more powerful AI applications

2012 ALEXNET



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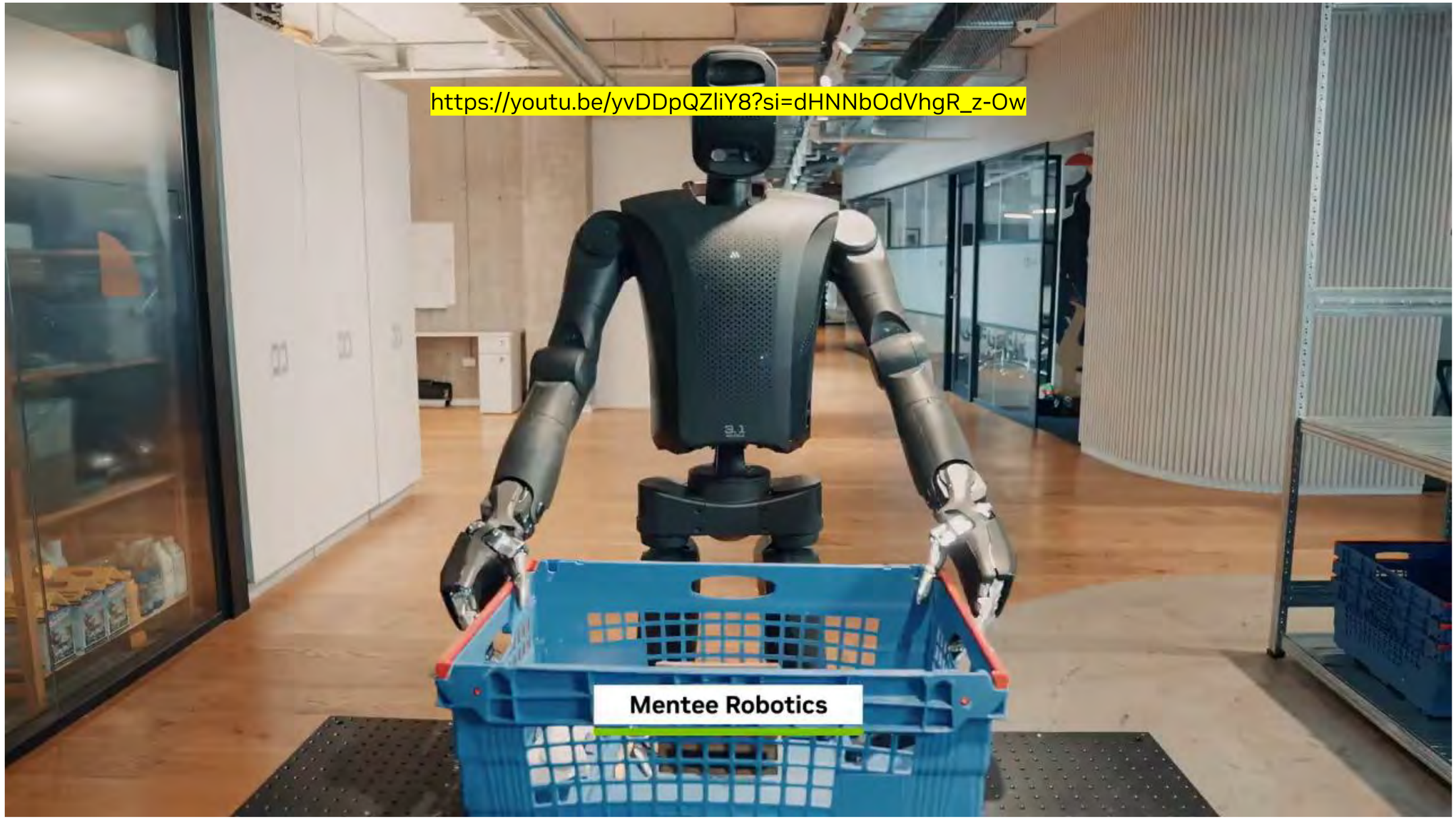
CODING ASSISTANT
CUSTOMER SERVICE
PATIENT CARE

PHYSICAL AI

SELF-DRIVING CARS
GENERAL ROBOTICS

NVIDIA

Accelerating Humanoid Robot Development With NVIDIA Isaac GR00T



This is NVIDIA Alpamayo Thinking Out Loud

