NVIDIA JOINS FEDERAL GOVERNMENT DISCUSSION ON THE FUTURE OF AI

Artificial intelligence (AI) promises to impact the world's geopolitical hierarchy like no other technology in history.

With the most powerful countries in a race to establish AI dominance, Rep. Will Hurd (R-Texas), chairman of the House Subcommittee on Information Technology, presided over a series of hearings aimed at defining the best path for the U.S. to maintain its early lead. NVIDIA was invited to be part of the process.

PRIMARY OBJECTIVE: MAINTAIN AMERICA'S AI LEAD

The first of these hearings sought input from private industry and academia to gain a better understanding of the current state of AI and how the government can best put the technology to use. This included defending our leadership from China and Russia, among other countries.

NVIDIA EXEC OFFERS GUIDANCE ON AI POLICY

Among those Hurd summoned to testify was NVIDIA's Dr. Ian Buck, VP and GM of accelerated computing. As the developer of the most advanced chips powering today's AI applications, NVIDIA is a key player in the discussion.

Buck's testimony was an opportunity for the company to guide the federal government's understanding and use of AI, and to help shape the policies that will fuel innovation and establish regulations. This included lobbying for more access to government data (for training AI models), increased R&D investments, and broader efforts to prepare a future workforce to encourage AI's development and adoption.

> "...IT IS MY GOAL TO ENSURE THAT WE HAVE A CLEAR IDEA OF WHAT IT TAKES FOR THE UNITED STATES TO REMAIN THE WORLD LEADER WHEN IT COMES TO AI."
>
> —WILL HURD

> "AI HOLDS THE BEST PROMISE TO SOLVE...PREVIOUSLY UNSOLVABLE PROBLEMS."
>
> —DR. IAN BUCK

IT'S ALL ABOUT DATA.

Buck told hearing panelists that AI has the potential to unleash the fast-growing and valuable pools of data they've been accumulating during the Internet era. It's clear that Hurd agrees and sees the potential of AI to address the U.S. government's epidemic of waste.

BETTER RESULTS IN LESS TIME AND AT LOWER COST.

1. **CYBER DEFENSE.** It's critical to protect government data centers, our institutions, and our citizens from cyberattack. NVIDIA is working with Booz Allen Hamilton to develop faster cybersecurity systems and train federal employees in AI.
2. **HEALTHCARE.** Nearly two million Americans die each year from disease. The National Cancer Institute and Department of Energy are using AI to accelerate cancer research to diagnose disease earlier and develop more personalized treatments.
3. **TRANSPORTATION.** Congestion cost U.S. drivers over $300 billion last year. NVIDIA is working with more than 300 companies to develop autonomous vehicles to make our roads safer and more efficient.
4. **SUSTAINMENT.** The Army, Air Force, and Navy sustainment costs are about $150 billion. AI could help lower these costs by identifying maintenance issues earlier.

PROJECT MAVEN

This program from the U.S. Air Force converts video surveillance into actionable insight and is a perfect example of how AI can deliver compelling benefits in a hurry.

AI IMPACT

Improving and shortening the timeline for drug discovery. Using satellite imagery to improve mapping for humanitarian efforts and disaster response. Even powering virtual simulations used to train fighter pilots. AI promise tremendous new advances in every industry.

Striking the right balance between innovation and regulation may be the single biggest key to ensuring that AI development in the U.S. can reach its true potential quickly enough to maintain its global leadership status. Dr. Buck called out three key areas of focus.

The United States Government must invest in AI research, put AI experts to work and provide open access to data to maintain a competitive edge.

> "THE INDUSTRY AND GOVERNMENT HAVE SPENT MANY YEARS COLLECTING DATA, AND NOW THERE IS FINALLY A TOOL TO DERIVE INSIGHT FROM IT."
>
> —ALEX HICKEY (ASSOCIATE EDITOR, CIO DIVE)

> "USING AI FOR AERIAL RECONNAISSANCE...ALLEVIATES AIRMEN FROM HAVING TO STARE AT SCREENS FOR 8 HOURS A DAY LOOKING FOR A PROBLEM."
>
> —DR. IAN BUCK

TAKEAWAYS

- **FUND AI RESEARCH.** While other governments are aggressively funding research, the U.S. Government is relatively flat. Investment in agencies like the NSF, NIH, and DARPA are essential for to gain a competitive edge in AI research.
- **DRIVE AGENCY ADOPTION OF AI.** Every major federal agency — just like every major technology company — needs to invest in consultation with policy advisors who have domain expertise to understand the benefits of AI. Start recruiting data scientists and AI experts.
- **OPEN ACCESS TO DATA.** Data is the fuel that drives the AI engine. The federal government has access to vast sources of information. Opening access to that data will help us get insights that will transform the U.S. economy.

> "AI is the biggest economic and technological revolution to take place in our lifetime...We can't afford to allow other countries to overtake us."
>
> —DR. IAN BUCK

Learn more about NVIDIA AI at **www.nvidia.com/deeplearning**

Questions? Contact the NVIDIA Federal Team at **federal@nvidia.com**

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