Alliance for Transformational Computing

Compete.
Council on Competitiveness

"To out-compete is to out-compute."

The Alliance for Transformational Computing (ATC) seeks to enable and expand the ethical and secure use of current computational capabilities, while continuing to advocate for investment in the leading edge of computing in concert with our allies globally.

Policy Priorities of the ATC

Enabling and expanding the ethical and secure use of current computational capabilities: The ATC proposes to democratize the use of existing advanced computing tools and technologies developed for National missions such as the Exascale Computing Project (ECP) to further leverage these capabilities to accelerate and expand U.S. innovation geographically and demographically. Previous Council efforts demonstrated the economic development potential of advanced computing clusters across the country. As the tools and technologies for dual-use become more pervasive, the need for focus on public private partnerships together with ethical and security considerations needs to be taken into greater account to foster a vibrant ecosystem.

Advocacy for transformational computing in concert with global allies: The ATC will advocate at the technological frontiers to maintain U.S. leadership in the next generation of transformation computing and its applications. While the United States remains the world leader in supercomputing with distinctive focus on advanced scientific computing, China has made significant progress on developing a strategic capability—including national supercomputing centers—to drive economic growth and industry transformation.

Further, U.S. leadership in transformation computing is critical to addressing the following:

- Advanced computing as a national security and economic imperative;

- Advanced computing as an enabler to AI, cyber, biotech, healthcare, agriculture, cosmology, quantum, fusion, climate, and hyperconnectivity;

- Redesigning transformational computing that are Size, Weight and Power (SWaP) efficient to enable a plethora of dual-use applications;

- Advocacy for fostering and retaining of a skilled and diverse STEM workforce; and

- Support for the role of data as the "energy" that will feed transformational computation.

Leadership

Richard Arthur
GE Research

Tommy Gardner
HP—Federal

M. Michael McQuade
Carnegie Mellon University

Rob Neely
Lawrence Livermore National Laboratory

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About the Council on Competitiveness

For more than three decades, the Council on Competitiveness (Council) has championed a competitiveness agenda for the United States to attract investment and talent, and spur the commercialization of new ideas.

While the players may have changed since its founding in 1986, the mission remains as vital as ever—to enhance U.S. productivity and raise the standard of living for all Americans.

The members of the Council—CEOs, university presidents, labor leaders and national lab directors—represent a powerful, nonpartisan voice that sets aside politics and seeks results. By providing real-world perspective to Washington policymakers, the Council's private sector network makes an impact on decision-making across a broad spectrum of issues—from the cutting-edge of science and technology, to the democratization of innovation, to the shift from energy weakness to strength that supports the growing renaissance in U.S. manufacturing.

The Council's leadership group firmly believes that with the right policies, the strengths and potential of the U.S. economy far outweigh the current challenges the nation faces on the path to higher growth and greater opportunity for all Americans.