

Compete

HPC4Mfg Industry Engagement Day

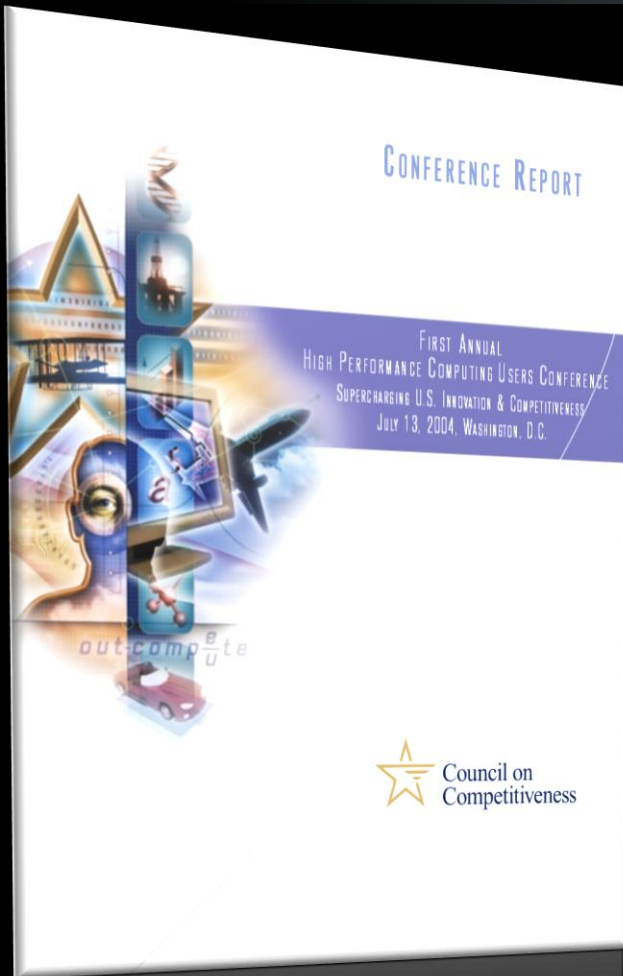
Chad Evans

Executive Vice President
U.S. Council on Competitiveness

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March 3, 2017

The Council's HPC Agenda

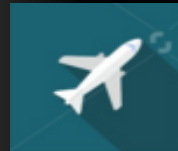


- **Launched in 2003**
- **Focus on:**
 - Maintaining U.S. leadership in the development of HPC hardware and application software
 - Accelerating adoption and effectiveness of HPC across the private sector
- **Advanced its objectives through**
 - Semi-annual member meetings
 - Policymaker engagements & new programs
 - Studies and reports
 - Industry case studies and success stories
 - Issues inhibiting adoption of HPC
- **Led the National Digital Engineering and Manufacturing Consortium**

To Out-compete is to Out-compute



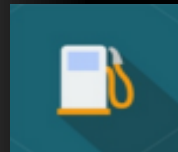
Automotive



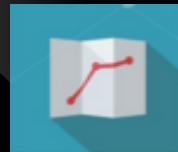
Aerospace



Health Care



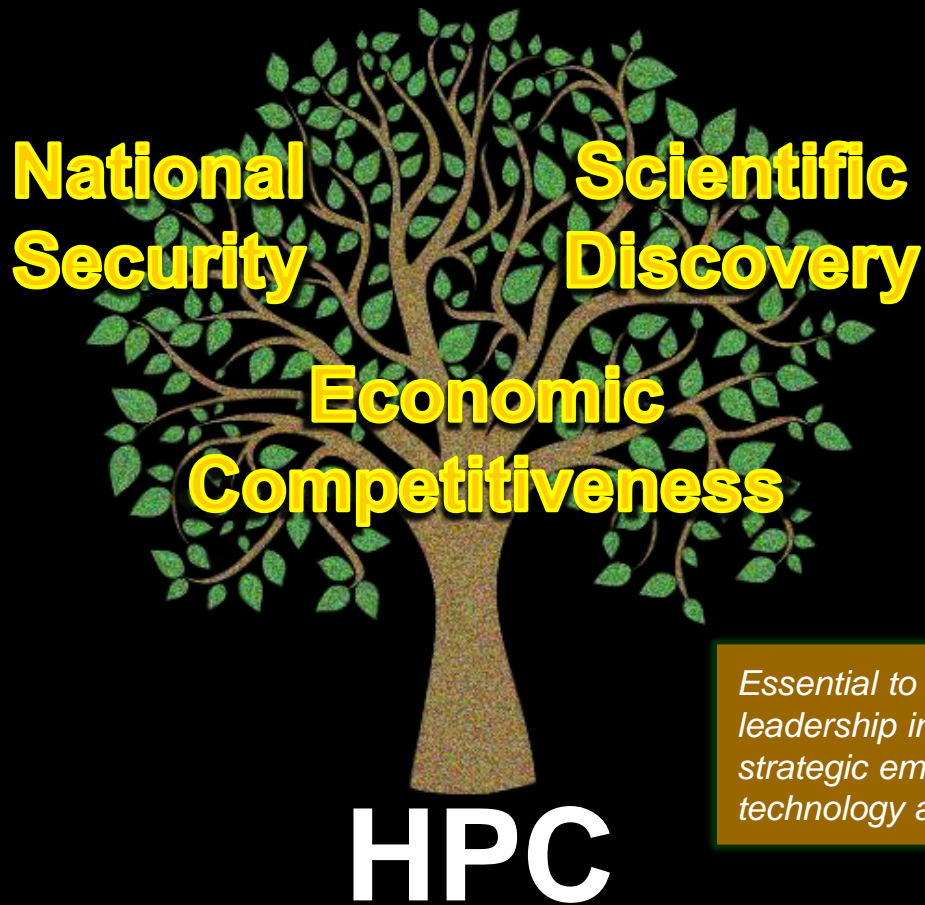
Energy



Finance

- We've successfully made case across major sectors that HPC modeling, simulation & analytics adds tremendous value
- We still need to improve the HPC operating environment so more firms will adopt for more industrial applications
- The emerging technology landscape and the rise of competitors like China requires new approaches – like HPC4Mfg

Changing Technology Landscape



Essential to leadership in many strategic emerging technology areas:



- Artificial Intelligence
- Neuromorphic Computing
- Quantum Computing
- Internet of Things / Big Data
- Transition from Moore's Law
- Virtual and Augmented Reality
- Cybersecurity
- Genomics
- Materials Science