

James Canton PhD
Chief Futurist, CEO & Chairman, Institute for Global Futures

Dr. Canton is a global futurist, social scientist, and advisor to business and governments. He is Chairman and CEO of the Institute for Global Futures, a leading San Francisco-based think tank and global advisory firm he founded in 1990. He has worked with three White House Administrations in advancing investments in future science and technologies.

His firm has advised over 100 governments and organizations around the world on global trends, operations, global risks and tech innovations. He directs the Global Risk Analytics and Innovation Strategy practice, which focuses on advanced science and technology innovations that impact markets, society and global security.

He advises the Fortune 100 corporations and governments worldwide on trends and global strategy in innovation, health care, work, climate, energy, security and demographics. The company analyzes advanced and emerging sciences and their impact on security, markets and society. Specific technologies include: Nano science, neuroscience, bioscience, geo-intelligence, convergent technologies, data science, information and network science.

Dr. Canton has conducted forecasting projects, collaborations and advisory work for leading global companies including: HP, Google, Cisco, IBM, Apple, UPS, GE, Siemens, General Mills, Philips and McKinsey.

Dr. Canton has conducted advisory work, forecasting briefings and projects for a wide range of defense, intelligence and state department clients including: USSOCOM, CYBERCOM, SPACECOM, ODNI, Proteus, US Army War College, US Air Force, Pentagon Futures Group, Lawrence Livermore Labs, Sandia Labs, US State Department, The US Navy War College SSG and USSOCOM University.

Areas he has specialized in working with his government clients: The future of artificial intelligence, big data, analytics, cyber war, autonomous systems, dark networks, bio-nano-IT convergence, global threat rogue scenarios, threat finance, emerging science and technology uses for innovations in security, energy, communications, commerce and digital finance.

Dr. Canton was the first private sector advisor for the US Government on Nano science and Nano-engineering when he was appointed to the National Science and Technology Council, NSTC in 1999. These efforts led to the National Nanotechnology Initiative. He has been involved in additional security and

technology projects across US administrations for the President's Council of Advisors on Science and Technology (PCAST) and the White House Office of Science and Technology, (OSTP).

Prior to this he had worked in high tech startups (AI, computing, Internet), investment banking and policy development for the US government between 1978-1980. He was an executive at Apple Computer from 1981-1984 where he worked on the development and introduction of the Macintosh computer, conducted strategic forecasting and business development and forecasted the emergence of artificial intelligence working with government and private sector companies.

From 1985-1990 he was engaged in high tech and investment startups in the Bay Area. He co-founded and was CEO at UmeCorp one of the first artificial intelligence companies working in industrial controls and virtual reality platforms for NASA, Ford and both Asian and European clients. He went on to be serial entrepreneur working with Internet, mobile and AI companies engaged in Silicon Valley.

He was a partner at Swiss Occidental an investment-banking group, where he worked on global investments, cross border transactions and trade finance for multinational clients.

Dr. Canton has been an advisor to The National Science Foundation, the Research Visionary Board, Motorola Research, MIT's Media Lab, EU, the International Advisory Council, Economic Development Board, State of Singapore, Fellow at the Neurotechnology Center at Potomac Institute, Founding Advisory Board and Co-Chairman, Futures Forecasting Track, Singularity University at NASA. He was Senior Fellow, Center for Research in Technology & Innovation at Kellogg School of Management.

He is the author of the books Future Smart, (2015); the Extreme Future (2007) and Technofutures (1998). He is a frequent guest of the media and is a commentator on Fox, CNBC, PBS and CNN. Forbes, Fortune, NY Times, PBS, and CNN.

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Articles, blogs and interviews can be found at:
<http://www.globalfuturist.com>

Strategic Latency and Warnings: Private Sector Perspectives on S&T Challenges for the Intelligence Community

<https://cgsr.llnl.gov/content/assets/docs/StrategicLatencyReport.pdf>

Huffington Post Blog

<http://www.huffingtonpost.com/author/james-canton>

National Defense

<http://www.nationaldefensemagazine.org/archive/2006/July/Pages/WarsGivingBoost2941.aspx>

YouTube

https://www.youtube.com/channel/UCxk_qTog2C-cPndFaMpem1w

Additional Articles and Research

- The Strategic Impact of Nanotechnology on the Future of Business and Economics, published in *Societal Implications of Nanoscience and Nanotechnology*, Kluwer, 2001
- The Impact of Convergent Technologies and the Future of Business and the Economy, *Converging Technologies for Improving Human Performance: Nanotechnology, Biotechnology, Information Technology and Cognitive Science*, Springer, 2003
- Designing the Future: Nano-Bio-Info-Cognitive Technologies and Human Performance Enhancement – published in *The Coevolution of Human Potential and the Converging Technologies*, New York Academy of Sciences Annals, 2004, Volume 1013
- The Emerging Nano economy: Key Drivers, Challenges and Opportunities, published in *Nanotechnology: Societal Implications I – Maximizing Benefits for Humanity*, Springer, 2006
- NBIC Convergent Technologies and the Innovation Economy: Challenges and Opportunities for the 21st Century, published in *Managing Nano-Bio-Info-Cogno Innovations: Converging Technologies in Society*, Springer, 2006