

VIVEK WADHWA

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He was named Silicon Valley Forum's 2018 VISIONARY AWARD-WINNER. Past honorees include Bill Gates and Elon Musk

Has held appointments as Distinguished Fellow at Harvard Law School's Labor and Worklife Program, Carnegie Mellon University, and Emory University

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One of TIME magazine's "40 Most Influential People in Tech" (2013)

Vivek Wadhwa is an academic, entrepreneur, and author of five best-selling books: From Incremental to Exponential; Your Happiness Was Hacked; The Driver in the Driverless Car; Innovating Women; and The Immigrant Exodus.

He has been a globally syndicated columnist for The Washington Post and has held appointments as Distinguished Fellow at Harvard Law School's Labor and Worklife Program, Carnegie Mellon University, and Emory University; adjunct professor at Carnegie Mellon and Duke University; fellow at Stanford Law School and UC Berkeley; and head of faculty at Singularity University.

Vivek is based in Silicon Valley and researches, speaks, and writes about advancing technologies that are transforming our world. These advances – in fields such as robotics, artificial intelligence, computing, synthetic biology, 3D printing, medicine, and nanomaterials – are making it possible for small teams to do what was once possible only for governments and large corporations to do: solve the grand challenges in education, water, food, shelter, health, and security.

In 2012, the U.S. Government awarded Wadhwa distinguished recognition as an “Outstanding American by Choice” for his “commitment to this country and to the common civic values that unite us as Americans”.

He was also named one of the world's “Top 100 Global Thinkers” by Foreign Policy magazine in that year; in June 2013, he was on TIME magazine's list of “Tech 40”, one of forty of the most influential minds in tech; and in September 2015, he was second on a list of “ten men worth emulating” in The Financial Times. In 2018, he was awarded Silicon Valley Forum's Visionary Award, a list of luminaries “who have made Silicon Valley synonymous with creativity and life-changing advancements in technology”.

Earlier in his academic career, Wadhwa studied remedies for the effect of globalization on U.S. competitiveness. His team's report on engineers' education, in 2005, dispelled myths that India's and China's graduation rates were ten times U.S. ones. Though both India and China graduate many more “engineers” than the U.S. does, their definitions of those terms include everyone from mechanics to trade-school graduates. Elite institutions in both countries do turn out world-class engineers, but their numbers are small. Wadhwa's subsequent research revealed why companies were going off shore and highlighted new trends in the globalization of R&D and innovation. To explain how India was achieving success despite its weak education system, Wadhwa published a seminal research report

that analyzed its surrogate education system and workforce-development practices. Indian companies, in particular, have become global centers of excellence in high-skill areas, including software development, chip design, pharmaceutical research, and advanced engineering tasks such as aircraft-engine design. Wadhwa found that the best Indian companies more than compensated for the inadequacy of the country's education system by developing their own, highly innovative, training programs.

Wadhwa's teams' research on American competitive advantages focused on entrepreneurship, skilled immigration, and university-research commercialization. It revealed key insights into the ages, education backgrounds, and motivations of tech entrepreneurs, and documented that more than one in four U.S. technology startups from 1995 to 2005 was founded by an immigrant. These immigrants tended to be highly educated, with strong backgrounds in science, technology, engineering, and mathematics. Wadhwa found that a flawed immigration system had created a backlog of more than a million skilled workers who were waiting for permanent-resident visas and that this backlog had the potential to cause a sizable brain drain of talent from the U.S. to other countries and a weakening of U.S. competitiveness. His research then tracked returnees to India and China and determined that they were having greater success back home.

Wadhwa has also researched Silicon Valley's diversity, or the lack of it. He documented that women entrepreneurs have the same backgrounds and motivations as men do, but are rare in the ranks of technology CEOs and CTOs.

Wadhwa has collaborated with highly regarded academics from Stanford, Harvard, Duke, NYU, UC-Berkeley, and other universities. His research, which has been supported by several grants from the Kauffman Foundation and by the Sloan Foundation, has been cited in thousands of national and international media outlets since 2007, and has gained the attention of policy makers. Wadhwa has delivered keynote speeches at hundreds of conferences, including those of the National Governors Association and the National Academy of Sciences.

Before becoming an academic, Wadhwa was a technology executive known for pioneering change and innovation. He started his career as a software developer and gained a deep understanding of the challenges in building computer systems. His quest to help solve some

of I.T.'s most daunting problems began at New York-based investment banking powerhouse CS First Boston (CSFB), where he was Vice President of Information Services. There he spearheaded the development of technology for creating computer-aided software-writing systems that was so successful that CSFB decided to spin off that business unit into its own company, Seer Technologies. As its Executive Vice President and Chief Technology Officer, Wadhwa helped grow the nascent startup into a \$118 million publicly traded company.

With the explosive growth of the Internet, Wadhwa saw an even greater opportunity to help businesses adapt to new and fast-changing technologies, and founded Relativity Technologies. As a result of his vision, Forbes.com named Wadhwa a "Leader of Tomorrow", and Fortune magazine declared Relativity one of the 25 coolest companies in the world.

Wadhwa holds a B.A. in Computing Studies from the University of Canberra, in Australia, and an MBA from New York University. He is founding president of the Carolinas chapter of The IndUS Entrepreneurs (TIE), a non-profit global network intended to foster entrepreneurship. He has been featured in thousands of articles in publications world wide, including the Wall Street Journal, The Economist, Forbes magazine, The Washington Post, The New York Times, U.S. News and World Report, and Science Magazine, and has made many appearances on U.S. and international TV stations, including CBS 60 Minutes, PBS, CNN, ABC, NBC, CNBC, and the BBC.

TEMAS

Vivek tailors each presentation to the needs of his audience and is not limited to the topics listed below. Please ask us about any subject that interests you;

- Innovation
- Technology
- Disruption
- Corporate Reinvention
- Strategy
- Global Markets
- Talent

Workforce Development
Healthcare
Future of Work
Manufacturing
Robotics
Artificial Intelligence
Quantum Computing

PROGRAMAS

NAVIGATING TECHNOLOGICAL CHANGE AT LIGHT SPEED

Unprecedented advances in technology have now made science fiction a reality. In only a handful of years, we've moved to the near worldwide use of handheld computing, the full mapping the human genome, and the advent of drones and driverless cars, to name just a few life-changing developments. This trajectory of technological advancement is only getting faster.

Based on his critically acclaimed new book *The Driver in the Driverless Car: How Our Technology Choices Will Create the Future*, Vivek Wadhwa not only explores the amazing technologies that are just now being integrated into our lives and work, but he also shares both the dilemmas and the solutions of technology advancement. Using his wonderfully vivid storytelling skills, he examines how Artificial Intelligence, Autonomous Machines, Robotics, Synthetic Biology, etc. are impacting fields of healthcare, education, transportation, energy development, investment management and more, analyzing the huge benefits as well as the economic and social consequences. He shares a three-pronged assessment that gauges whether a new technology will benefit everyone equally; whether the re-wards outweigh the risks; and whether it promotes autonomy or leads to dependency.

Alongside a balanced evaluation of the impacts of both recently arrived technology or developments just around the corner, Vivek examines:

- How driverless cars are a perfect metaphor for our anxiety over where technology is headed

- What conditions make services or sectors ripe for a giant leap into the future
- Which industries stand to benefit most, and which will be upended
- Why Artificial Intelligence is both the most important breakthrough and the most dangerous technology ever created by man
- When, and if, society will accept robotic caregivers, housekeepers, and even warriors
- Whether cybersecurity can begin to keep up with our ubiquitous connectivity

This might be the most fascinating speech you will ever experience regarding our future.

DISRUPTION AND OPPORTUNITY

Not long ago, you could see your competition coming. Management guru Clayton Christensen coined the term "disruptive innovation" to describe how the competition worked: a new entrant attacked a market leader by launching low-end, low-priced products and then relentlessly improving them. Now Christensen's frame-works have themselves been disrupted...because you can no longer see the competition coming. Technologies are no longer progressing in a predictable linear fashion, but are advancing exponentially and converging. Fields such as computing, medicine, artificial intelligence, 3D printing, robotics, nanomaterials, and syn-thetic biology are advancing simultaneously, and combining these allows one industry to rapidly disrupt another before market leaders even know what has hit them.

Practically every industry will be disrupted over the next few years, including finance, insurance, healthcare, manufacturing, transportation, education, I.T. services, and communications. Very few of today's Fortune 500 companies will be on that list by the early 2020s. They will go the way of Blockbuster, Kodak, RIM, Compaq, and Nokia.

This is not all bad news, because disruption creates opportunities. New industries will emerge, and companies that lead the change will have the trillion dollar market capitalizations. Business executives need to understand that:

- Trillion dollar opportunities happen at the intersections of exponential technologies
- Disruptions are happening in every industry where technology can be applied
- Entrepreneurs can now do what only governments and big corporations could do before

- If they don't disrupt themselves, they will be disrupted by startups from other industries

Businesses must learn the new rules of the innovation game and transform their employees into intrapreneurs who think and act like the Silicon Valley entrepreneurs who are gunning for Goliath.

Vivek Wadhwa will teach the basics of exponential technologies and convergence, provide examples of the disruptions that are underway in several industries, discuss the new rules of the innovation game, and challenge his audience members to think like today's technology entrepreneurs, and to build the new billion-dollar businesses within their companies.

HOW TECHNOLOGY WILL EAT MEDICINE

When Apple announced that it was developing a watch that had the functions of a medical device, it became clear that the company was eyeing the \$3 trillion healthcare industry; that the tech industry sees medicine as the next frontier for exponential growth. Apple isn't alone. Companies such as Google, Microsoft, and Samsung and hundreds of startups also see the market potential and have big plans. They are about to disrupt health care in the same way in which Netflix decimated the video rental industry and Uber is changing transportation.

This is happening because several technologies such as computers, sensors, robotics, and artificial intelligence are advancing at exponential rates. Their power and performance are increasing dramatically as their prices fall and their footprints shrink.

We will soon have sensors that monitor almost every aspect of our body's functioning, inside and out. By combining these data with our electronic medical records and the activity and lifestyle information that our smartphones observe, artificial intelligence-based systems will monitor us on a 24x7 basis. They will warn us when we are about to get sick and advise us on what medications we should take and how we should improve our lifestyle and habits. And with the added sensors and the apps that tech companies will build, our smartphone will become a medical device akin to the Star Trek tricorder.

Technologies such as Apple ResearchKit are also going to change the way in which clinical trials are done. Data that our devices gather will be used to accurately analyze what

medications patients have taken, in order to determine which of them truly had a positive effect; which simply created adverse reactions and new ailments; and which did both.

Combined with genomics data that are becoming available as plunging DNA-sequencing costs approach the costs of regular medical tests, a healthcare revolution is in the works. By understanding the correlations between genome, habits, and disease - as the new devices will facilitate - we will get closer and closer to an era of Precision Medicine, in which disease prevention and treatment are performed on the basis of people's genes, environments, and lifestyles.

Vivek Wadhwa will give you a crash course in exponential technologies - such as computing, Artificial Intelligence, sensors, synthetic biology, and robotics - and describe how they will converge and help turn our sick-care system into one that can truly focus on health care.

HOW AMERICA IS REINVENTING ITSELF AND INNOVATION IS GLOBALIZING

A common belief is that the sun is setting on the U.S. empire and that China is about to leapfrog the U.S. in economic terms—and in innovation. In addition to economic disadvantages, naysayers have long cited graduation data purporting to show that the U.S. is falling behind in mathematics and science education and have predicted that the U.S. will lose its global advantage because China and India graduate more engineers than does the U.S.

China, India, and the rest of the world are now innovating as never before. But it isn't their governments or education systems that are giving them the advantage—it is their nascent entrepreneurs. They are leading the way in innovation and helping the countries transform themselves.

And contrary to popular belief, America is getting further ahead in innovation, it isn't lagging. The U.S. is reinventing itself, just as it does every 30 or 40 years.

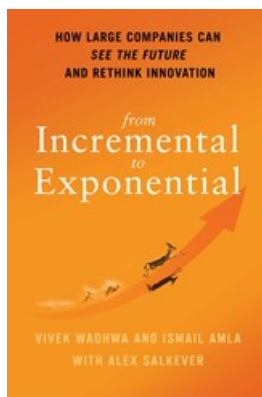
In this talk, Vivek Wadhwa will explain how Exponential technologies are about to cause major disruption in several U.S. industries—but they will wreak havoc on the economies of countries such as China and Russia and the Middle East. That is because manufacturing is

once again becoming a local industry and is coming back to the U.S., thanks to robotics and 3D printing; because energy prices, which fell temporarily because of fracking, will fall permanently because of advances in alternative, clean energies such as solar, wind, and geothermal; and because advances in artificial intelligence and computing are automating knowledge work.

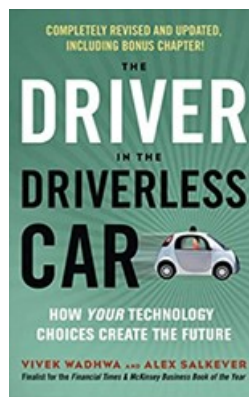
Some countries will win in a big way and others will lose. Wadhwa will discuss his research on education and innovation in countries such as India and China and put this in the context of today's exponential technology advances. He will discuss the opportunities and perils for countries that these technologies are introducing.

PUBLICACIONES

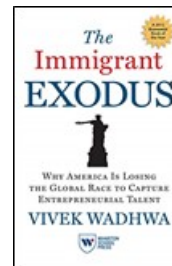
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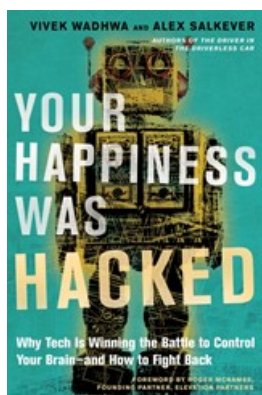
FROM INCREMENTAL TO
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THE DRIVER IN THE
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EXODUS



YOUR HAPPINESS WAS
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INNOVATING
WOMEN

CONDICIONES

- **Travels from:** California, USA
 - **Fee Range:** USD 40.000 to USD 50.000
 - **Virtual:** USD 20.000 to USD 30.000
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