

The World in 2025

8 Predictions for the Next 10 Years

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The World in 2025

1.A \$1,000 Human Brain

In 2025, \$1,000 should buy you a computer able to calculate at 10^{16} cycles per second (10,000 trillion cycles per second), the equivalent processing speed of the human brain.

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2. A Trillion-Sensor Economy

The Internet of Everything describes the networked connections between devices, people, processes and data. By 2025, the IoE will exceed 100 billion connected devices, each with a dozen or more sensors collecting data. This will lead to a trillion-sensor economy driving a data revolution beyond our imagination. Cisco's recent report estimates the IoE will generate \$19 trillion of newly created value.

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3. Perfect Knowledge

We're heading towards a world of perfect knowledge. With a trillion sensors gathering data everywhere (autonomous cars, satellite systems, drones, wearables, cameras), you'll be able to know anything you want, anytime, anywhere, and query that data for answers and insights.

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4. 8 Billion Hyper-Connected People

Facebook (Internet.org), SpaceX, Google (Project Loon), Qualcomm and Virgin (OneWeb) are planning to provide global connectivity to every human on Earth at speeds exceeding one megabit per second.

They're coming online with a 1 Mbps connection and access to the world's information on Google, cloud 3D printing, Amazon Web Services, artificial intelligence with Watson, crowdfunding, crowdsourcing, and more.

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5. Disruption of Healthcare

Biometric sensing (wearables) and AI will make each of us the CEOs of our own health. Large-scale genomic sequencing and machine learning will allow us to understand the root cause of cancer, heart disease and neurodegenerative disease and what to do about it. Robotic surgeons can carry out an autonomous surgical procedure perfectly (every time) for pennies on the dollar. Each of us will be able to regrow a heart, liver, lung or kidney when we need it, instead of waiting for the donor to die.

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6. Augmented and Virtual Reality

The screen as we know it — on your phone, your computer and your TV — will disappear and be replaced by eyewear. Not the geeky Google Glass, but stylish equivalents to what the well-dressed fashionistas are wearing today. The result will be a massive disruption in a number of industries ranging from consumer retail, to real estate, education, travel, entertainment, and the fundamental ways we operate as humans.

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7. Early Days of JARVIS

Next decade's generation of Siri will be much more like JARVIS from Iron Man, with expanded capabilities to understand and answer. Companies like IBM Watson, DeepMind and Vicarious continue to hunker down and develop next-generation AI systems. In a decade, it will be normal for you to give your AI access to listen to all of your conversations, read your emails and scan your biometric data because the upside and convenience will be so immense.

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8. Blockchain

You might have heard of bitcoin, which is the decentralized (global), democratized, highly secure cryptocurrency based on the blockchain. This is a protocol that allows for secure, direct (without a middleman), digital transfers of value and assets (think money, contracts, stocks, IP). Investors like Marc Andreessen have poured tens of millions into the development and believe this is as important of an opportunity as the creation of the Internet itself.

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