Quantum Computing – Here Sooner, not Someday

"Q Day" is the day when a quantum computer will be available to break the highest levels of encryption known today. When this "Q-Day" occurs, which Forbes and the WSJ report is closer than most think, it will render the world's markets and government institutions open to unparalleled intrusion and attacks by "bad actors".

Several Fortune 100 companies, at the cost of $250,000 for 60-minutes of quantum computational time, have demonstrated to themselves the ability to break all the encryption methods they use today. For them Q Day has already arrived. It's just a matter of time before quantum computers cracking encryption is viable and in the wild being used against governments, financial markets, critical infrastructure, and much more. Below are some of the milestones accelerating toward Q Day.

June, 2021 – Forbes

Q Day is coming sooner than we think

"There's a growing consensus that this quantum threat is real…." The ramifications to national security, financial security, infrastructure, political stability, and personal privacy are beyond measure as this capability becomes economically available to nation states, bad actors, and large multi-national conglomerates.

May, 2023 – DARPA Broad Agency Announcement: Quantum Augmented Network (QuANET)

"The DARPA Information Innovation Office (I2O) is soliciting innovative research proposals for the development of a hybrid quantum-classical communication network architecture to enable quantum enhancements to security and covertness on today's classical networks."

February 13, 2024 – Wall Street Journal

The sub-heading to this article and interview state the opportunity "A technology that feels like it's 'always five years away' may suddenly be two years away—but businesses are a little preoccupied" WSJ Feb 13 article

August, 2024 – NIST (National Institute of Standards and Technology)

NIST releases post quantum encryption standards. Researchers around the world are racing to build quantum computers that would operate in radically different ways from ordinary computers and could break the current encryption that provides security and privacy for just about everything we do online.

December, 2024 – Google Willow Chip

On Dec. 9, 2024, Google announced its latest quantum advancement, the Willow chip. This new quantum chip represents a breakthrough in quantum error correction, an essential step toward practical and scalable quantum systems being commercially available.

February, 2025 – Microsoft Introduces Majorana 1

On Feb 19, 2025, Microsoft Announced the world's first quantum chip powered by a new Topological Core architecture that it expects will realize quantum computers capable of solving meaningful, industrial-scale problems in years, not decades.