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Introduction of Q-STAR -Create industries & businesses with quantum technology-

Taro Shimada

Quantum STrategic industry Alliance for Revolution

Biography

Taro Shimada began his career in 1990, working on aircraft design at ShinMaywa Industries Ltd.
In 1999 he joined Structural Dynamics Research Corporation, a part of Siemens, which led to a series of progressively senior posts in Japan and at Siemens HQ in Germany.
After serving as Managing Executive Officer of Siemens K.K, he joined Toshiba in October 2018 as Corporate Digital Business Chief Strategy Officer, and in April 2019 became Chief Digital Officer, responsible for Toshiba's digital transformation and for strategic business creation and promotion. He was appointed CEO & Representative Director of Toshiba Data Corporation in February 2020, and President and CEO of Toshiba Digital Solutions Corporation in April 2020. In March 2022, Mr. Shimada was appointed to take the reins at Toshiba, as President & CEO.

Mr. Shimada's diverse experience in hardware development includes commercial aircraft; process consultation for industry; and product life cycle management. An expert in factory automation and digitization, he has advised many of Japan's leading manufacturers. He is also an advisor to the Robot Revolution & Industrial IoT Initiative and the IoT Acceleration Lab, and has contributed to Industrie 4.0 in Germany and Connected Industries in Japan.

Mr. Shimada has been a guest professor at Otemon Gakuin University in Osaka, Japan, since April 2020.
In September 2021, he was appointed Chair of the Executive committee for the establishment of Q-STAR (Quantum STrategic industry Alliance for

Revolution), a consortium to promote business creation through quantum technology, and was appointed Chair of the board in May 2022.

Mr. Shimada relaxes by playing the drums, and enjoys all genres of music.

Abstract

The presentation will look at current trends in the practical application of quantum technology, including in logistics, manufacturing, finance, and medicine. It will also emphasize the accelerating industrialization of the Ising model, which many of Q-STAR's member companies are developing. To date, Q-STAR has discussed over 50 quantum-technology use cases and selected 16 of them to be followed up on as the next step and made their industry roadmap.

In addition, Q-STAR member companies, representatives of academia, and national institutes outside the council, are discussing an open software platform that is not dependent on the type of quantum computer. The plan here is to visualize a hierarchy extending from customer issues to the various calculation methods, and to build a hypothesis for practical use as a platform.

Beyond this, the presentation will also look at the current status of international cooperation in establishing a global quantum market.