

## **DENSO's Global Support to Combat COVID-19: DENSO Delivers Technical Support using Quantum Systems to Combat COVID-19**

DENSO mobilizes its quantum computing expertise and collaborative spirit

**Kariya, Japan (March 31, 2020)** DENSO Corporation today announced it is joining a project from D-Wave Systems Inc., the leader in quantum cloud service "Leap2", to give anyone working on problems related to the COVID-19 free, immediate access to the company's quantum computer.

As researchers in every industry such as medical care and infection prevention are trying to find solutions, the initiative comes in response to a request from the Canadian government for solutions to the pandemic across industries. Unrestricted, free access to D-Wave's quantum computers via "Leap2" is available immediately to not only Canadian users, but also anyone working on COVID-19 response in the 35 countries across North America, Europe, and Asia where access is available to the Leap quantum cloud service. Hybrid quantum and classical solutions could help these researchers, but they require both free, unfettered access to the hybrid quantum systems and quantum expertise.

DENSO has rich background in quantum computing such as research on efficiency improvement of factory. To utilize the experiments and philosophy of collaboration guided it to join the coalition, and to do what it can to help overcome COVID-19 crisis, DENSO will help others to translate real-world problems into those that can be solved by quantum formulation and support to develop faster solution algorithms.

Koji Arima, President & CEO of DENSO, stated:

"Computing technology has long contributed to the development of science and industry. Quantum computing now has the potential to further this development, and we were one of the first to start research in this field in the auto industry. We are honored to join the project, which will leverage this experience, mobilize our global expertise and activate our spirit of collaboration. We believe we can overcome this crisis through the collaboration of humankind."

Alan Baratz, CEO of D-Wave, stated:

"We are facing an unprecedented crisis that affects almost all industries and nations. We believe that we can offer powerful resources to help individuals, organizations, and governments around the world collaborate on developing solutions quickly by combining the expertise of customers and partners with hybrid quantum computing. DENSO's research team is skilled at using our quantum computer. Together, we believe we can bring our expertise and

knowledge of the quantum system to assist businesses, entrepreneurs, and researchers responding to COVID-19.” “Users will have full access to the recently launched Leap 2, which includes the hybrid solver service designed to provide both classical and quantum resources to solve highly complex problems quickly and precisely, with up to 10,000 fully connected variables.”

### **About DENSO Corporation**

DENSO is a \$48.3 billion global mobility supplier that develops advanced technology and components for nearly every vehicle make and model on the road today. With manufacturing at its core, DENSO invests in its 211 facilities in 35 countries to produce thermal, powertrain, mobility, electrification, & electronic systems, to create jobs that directly change how the world moves. The company’s 170,000+ employees are paving the way to a mobility future that improves lives, eliminates traffic accidents, and preserves the environment. Globally headquartered in Kariya, Japan, DENSO spent 9.3 percent of its global consolidated sales on research and development in the fiscal year ending March 31, 2019. For more information about global DENSO, visit: <https://www.denso.com/global>

### **DENSO in North America**

In North America, DENSO is headquartered in Southfield, Michigan, and employs 27,000+ engineers, researchers and skilled workers across 51 sites in the U.S, Canada and Mexico. In the United States alone, DENSO employs 17,700+ employees across 14 states (and the District of Columbia) and 41 sites. In fiscal year ending March 31, 2019, DENSO in North America generated \$10.9 billion in consolidated sales. DENSO is committed to advancing diversity and inclusion inside the company and beyond – a principle that brings unique perspectives together, bolsters innovation and pushes DENSO forward. Join us, and craft not only how the world moves, but also your career: [www.densocareers.com](http://www.densocareers.com).

### **About D-Wave Systems Inc.**

D-Wave is the leader in the development and delivery of quantum computing systems, software, and services and is the world’s first commercial supplier of quantum computers. Our mission is to unlock the power of quantum computing for the world. We do this by delivering customer value with practical quantum applications for problems as diverse as logistics, artificial intelligence, materials sciences, drug discovery, cybersecurity, fault detection, and financial modeling. D-Wave’s systems are being used by some of the world’s most advanced organizations, including NEC, Volkswagen, DENSO, Lockheed Martin, USRA, USC, Los Alamos National Laboratory, and Oak Ridge National Laboratory. With headquarters near Vancouver, Canada, D-Wave’s US operations are based in Palo Alto, CA and Bellevue, WA. D-Wave has a blue-chip investor base including PSP Investments, Goldman Sachs, BDC Capital, DFJ, In-Q-Tel, PenderFund Capital, 180 Degree Capital Corp., and Kensington Capital Partners Limited. For more information, visit: <https://www.dwavesys.com/>

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