

Weebit Nano and Silvaco Form Development Program Partnership to Create ReRAM Models and Design Tools

9 January 2019 – Weebit Nano (ASX: WBT), the Israel-based semiconductor company seeking to develop and commercialise the next generation of memory technology, and Silvaco, a leading global provider of software, IP and services for designing chips and electronic systems for semiconductor companies, today announced their Development Program Partnership to model the electrical behavior of SiO_x ReRAM devices. This collaboration will accelerate the incorporation of Weebit Nano’s ReRAM modules into advanced semiconductor designs.

ReRAM (Resistive RAM) is an emerging technology which is non-volatile, extremely fast, cost effective and can endure significantly higher number of Program/Erase cycles compared to Flash memory technology.

Weebit Nano and Silvaco will work together to develop a Technology Computer-Aided Design (TCAD) solution to accurately model the electrical behavior of Weebit Nano’s ReRAM devices. The models, based on Weebit Nano’s physical samples and data, will be the basis for creating a Silvaco TCAD solution for joint customers employing ReRAM technology. Silvaco’s TCAD simulation will dramatically speed up the design, fabrication and commercial use of ReRAM technology through the elimination of expensive and time-consuming experimental wafers during technology adoption by OEMs.

Eric Guichard, VP & GM of Silvaco TCAD Business Unit, said “We’re seeing a dramatic rise in the use of new devices for big data, artificial intelligence and neuromorphic computing in which ReRAM technology will play a key role. Weebit Nano is a key player in the ReRAM market, and we are proud to develop these new models with them. This will enable the semiconductor industry to embed ReRAM technology in their designs in a much more efficient manner.”

Coby Hanoch, CEO of Weebit Nano, said: “Silvaco provides state-of-the-art device models and TCAD tools that are widely used by semiconductor companies. We are excited to establish this joint development program with Silvaco so customers will have early access to our ReRAM technology on the most powerful simulation tools in the industry and can fast-track the release of their next-generation products. This is another key step by Weebit Nano to accelerate the incorporation of ReRAM technology by a larger number of OEM customers.”

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About Weebit Nano Limited

Weebit Nano is a leader in the development of next generation computer memory technology, and plans to become the new industry standard in this space. Its goal is to address the growing need for a significantly higher performance and lower power computer memory technology. Weebit Nano's ReRAM technology is based on fab-friendly Silicon Oxide, allowing the company to rapidly execute, without the need for special equipment or preparations. The company secured several patents to ensure optimal commercial and legal protection for its ground-breaking technology.

Weebit Nano's technology enables a quantum leap, allowing semiconductor memory elements to be significantly cheaper, faster, more reliable and more energy efficient than the existing Flash technology. Weebit Nano has signed an R&D agreement with Leti, an R&D institute that specialises in nanotechnologies, to further develop SiOx ReRAM technology.

For more information please visit: www.weebit-nano.com

About Silvaco, Inc.

Silvaco Inc. is a leading EDA tools and semiconductor IP provider used for process and device development for advanced semiconductors, power IC, display and memory design. For over 30 years, Silvaco has enabled its customers to develop next generation semiconductor products in the shortest time with reduced cost. We are a technology company outpacing the EDA industry by delivering innovative smart silicon solutions to meet the world's ever-growing demand for mobile intelligent computing. The company is headquartered in Santa Clara, California and has a global presence with offices located in North America, Europe, Japan and Asia.

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