GLOBALFOUNDRIES Introduces Certified Design Flows for Multi-Die Integration Using 2.5D IC technology

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STT-MRAM offers enhanced performance and scalability for embedded and standalone applications

Leuven (Belgium) — May 21, 2013 —Imec and GLOBALFOUNDRIES announced today that they have expanded joint development efforts to advance STT-MRAM (spin-transfer torque magnetoresistive random access memory) technology.

The first IC manufacturer to join imec's R&D program on emerging memory technologies, GF completes the value chain of imec's research platform, which fuels industry collaboration from technology up to the system level. GF is joining a team with a leading fabless company *(http://www2.imec.be/be_en/press/imec-news/qualcomm2013.html)* and several worldwide equipment suppliers providing the complete infrastructure necessary for R&D on STT-MRAM.

STT-MRAM technology is a promising high-density alternative to existing memory technologies, like SRAM and DRAM. Together, imec and the program members aim to explore the potential of STT-MRAM, including performance below 1nanosecond (ns) and scalability beyond 10 nanometers (nm) for embedded and standalone applications.

"We are elated to intensify our collaboration with GF and the other program members on advanced memory technologies—a true testament to the value we offer our industrial partners," stated Luc Van den hove, president and CEO at imec. "Our unique research environment harnesses the collective expertise and knowledge of the entire value chain, bringing together foundries, IDMs, fabless and fablite companies, packaging and assembly companies, and equipment and material suppliers to drive innovation and the development of new, competitive products."?

"Innovation in next-generation memory is required to give chip designers new options to continue to deliver leading-edge products with higher performance, lower power-consumption, and better bandwidth," said GF chief technology officer Gregg Bartlett. "This new partnership with imec will enable close collaboration with customers, partners, and the supplier community to help reduce the risk in bringing this new memory technology to market."?

About imec

Imec performs world-leading research in nanoelectronics. Imec leverages its scientific knowledge with the innovative power of its global partnerships in ICT, healthcare and energy. Imec delivers industry-relevant technology solutions. In a unique high-tech environment, its international top talent is committed to providing the building blocks for a better life in a sustainable society. Imec is headquartered in Leuven, Belgium, and has offices in Belgium, the Netherlands, Taiwan, US, China, India and Japan. Its staff of close to 2,000 people includes more than 600 industrial residents and guest researchers. In 2011, imec's revenue (P&L) was about 300 million euro. Further information on imec can be found at www.imec.be.

Imec is a registered trademark for the activities of IMEC International (a legal entity set up under Belgian law as a "stichting van openbaar nut"), imec Belgium (IMEC vzw supported by the Flemish Government), imec the Netherlands (Stichting IMEC Nederland, part of Holst Centre which is supported by the Dutch Government), imec Taiwan (IMEC Taiwan Co.) and imec China (IMEC Microelectronics (Shangai) Co. Ltd.) and imec India (Imec India Private Limited).

About GF

GF is the world's first full-service semiconductor foundry with a truly global footprint. Launched in March 2009, the company has quickly achieved scale as the second largest foundry in the world, providing a unique combination of advanced technology and manufacturing to more than 160 customers. With operations in Singapore, Germany and the United States, GF is the only foundry that offers the flexibility and security of manufacturing centers spanning three continents. The company's three 300mm fabs and five 200mm fabs provide the full range of process technologies from mainstream to the leading edge. This global manufacturing footprint is supported by major facilities for research, development and design enablement located near hubs of semiconductor activity in the United States, Europe and Asia. GF is owned by the Advanced Technology Investment Company (ATIC). For more information, visit http://www.globalfoundries.com.

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