

ASX RELEASE

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## UPDATE ON IMEC COLLABORATION

4DS Memory Limited (ASX:4DS) (**4DS** or the **Company**) advises that it has analysed the first lot of 300mm wafers from imec which were made using the same multi-million dollar state-of-the-art production equipment used by high volume manufacturers of memory. This was the first of a number of planned iterations.

Based on imec and 4DS' extensive technical analysis, both parties have rapidly identified and will now validate some process modifications required to enhance the development of the second 300mm wafer lot. It is expected that the planning and development strategy for this wafer lot will begin in the coming weeks and these wafers will be available for analysis in Q1 2019.

Iterations of, and refinements to, any new memory production compatible process are typical in the semiconductor industry and were planned for under the detailed schedule of work in the collaboration agreement with imec.

Chief Executive Officer and Managing Director, Dr Guido Arnout, commented "In the Company's transition to production equipment, identical to that utilised by high volume memory manufacturers, imec and 4DS have learnt to rapidly identify necessary modifications in order to de-risk the latter development cycles which we plan to undertake. A major benefit of this early identification is that we can accelerate the whole collaboration process."

Chairman, Mr Jim Dorrian, further stated "4DS remains confident that it will demonstrate a production compatible process for its unique Interface Switching ReRAM technology for Storage Class Memory on imec's megabit test chip on budget and on time (during 2019) as originally envisioned."

**ENDS**

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### About 4DS

4DS Memory Limited (ASX: 4DS), with facilities located in Silicon Valley, is a semiconductor development company of non-volatile memory technology, pioneering Interface Switching ReRAM (Non-Filamentary ReRAM), for next generation gigabyte Storage Class Memory. Established in 2007, 4DS owns a patented IP portfolio, comprising 20 granted US patents and 3 patents pending, which has been developed in-house to create high density Storage Class Memory. 4DS has a joint development agreement with Western Digital subsidiary HGST, a global storage leader, which accelerates the evolution of 4DS' technology. 4DS also collaborates with imec, the world's #1 independent semiconductor development institute.

For more information, please visit [www.4dsmemory.com](http://www.4dsmemory.com).

## About imec

imec is the world-leading research and innovation hub in nanoelectronics and digital technologies. The combination of our widely acclaimed leadership in microchip technology and profound software and ICT expertise is what makes us unique. By leveraging our world-class infrastructure and local and global ecosystem of partners across a multitude of industries, we create ground breaking innovation in application domains such as healthcare, smart cities and mobility, logistics and manufacturing, energy and education.

As a trusted partner for companies, start-ups and universities we bring together close to 3,500 brilliant minds from over 75 nationalities. Imec is headquartered in Leuven, Belgium and also has distributed R&D groups at a number of Flemish universities, in the Netherlands, Taiwan, USA, China, and offices in India and Japan. In 2016, imec's revenue (P&L) totalled 496 million euro. Further information on imec can be found at [www.imec-int.com](http://www.imec-int.com).

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For more information, please visit [www.imec.be](http://www.imec.be).

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