

ASX RELEASE

27 February 2023

## RENEWED TECHNICAL PROGRESS UPDATE

4DS Memory Limited (ASX:4DS) (**4DS**) (the **Company**), is pleased to provide shareholders with information regarding renewed technical progress.

In an ASX announcement released on 5 October 2022, 4DS stated that the etch process had induced damage to the crystallinity of the 4DS PCMO layer resulting in the write voltage needed to program the cell exceeding the write voltage that the circuitry of the imec megabit memory array could provide. Since prior wafers had shown successful programming of cells of the same size as present in the megabit memory array, the focus would be on further optimizing the etch process to ensure both residue-free etching and no crystalline damage to the 4DS PCMO layer.

In the same ASX announcement, 4DS stated that the goal of the next Platform Lot remained the demonstration of the cell operation in a megabit memory array environment and to explore optimized programming conditions to improve both the endurance and retention of 4DS Interface Switching ReRAM cells. Access to the write circuitry of the megabit memory array remains critical to achieve these goals.

Since that ASX announcement on 5 October 2022, 4DS has undertaken a number of optimization changes which are currently being incorporated into the schedule for manufacturing of the Fourth Platform Lot at imec.

During the same period the Company has significantly enhanced its test capabilities and re-tested the Third Platform Lot in preparation for the Fourth Platform Lot.

The Company is pleased to report that it has now achieved cell operation in the megabit memory array of the Third Platform Lot utilising the improved test capabilities. This allows further exploration of optimized programming conditions with the access transistors and write circuitry of imec's megabit memory platform.

These results indicate that the 4DS Interface Switching ReRAM cells are potentially more likely to be compatible with imec's megabit memory platform which de-risks the testing of the Fourth Platform Lot expected to be received by 4DS in late Q2 2023 as previously guided.

Interim Executive Chairman Mr David McAuliffe commented "I would like to thank all the USA based 4DS management team and imec for the significant effort they continue to display in trying to achieve an important outcome for 4DS with the manufacture of the Fourth Platform Lot and potential successful analysis of the same."

**ENDS**

Authorised for release by the Board.

### Contact information

**Investors:** David McAuliffe  
Interim Executive Chairman  
4DS Memory  
+61 408 994 313  
[david@4dsmemory.com](mailto:david@4dsmemory.com)

## 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 for next generation gigabyte storage in mobile and cloud. Established in 2007, 4DS owns a patented IP portfolio, comprising 33 USA patents granted and 1 patent application, which have 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, a world-leading research and innovation hub in nanoelectronics and digital technologies. The combination of imec's widely acclaimed leadership in microchip technology and profound software and information and communication technology expertise makes them unique.

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

### Disclaimer

This release contains certain forward-looking statements that are based on the Company's management's beliefs, assumptions and expectations and on information currently available to management. Such forward looking statements involve known and unknown risks, uncertainties, and other factors which may cause the actual results or performance of 4DS to be materially different from the results or performance expressed or implied by such forward looking statements. Such forward looking statements are based on numerous assumptions regarding the Company's present and future business strategies and the political and economic environment in which 4DS will operate in the future, which are subject to change without notice. Past performance is not necessarily a guide to future performance and no representation or warranty is made as to the likelihood of achievement or reasonableness of any forward-looking statements or other forecast. To the full extent permitted by law, 4DS and its directors, officers, employees, advisers, agents and intermediaries disclaim any obligation or undertaking to release any updates or revisions to information to reflect any change in any of the information contained in this release (including, but not limited to, any assumptions or expectations set out in the release).

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