COMPANY UPDATE

NOVEMBER 2021

AUTHORISED FOR RELEASE BY THE BOARD



4DS memory

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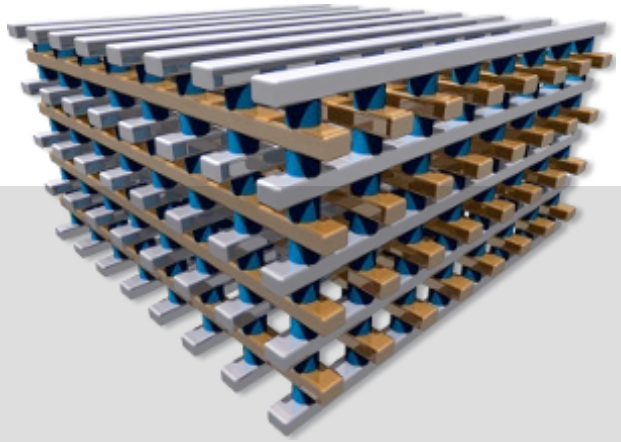
THE OPPORTUNITY

- Semiconductor demand at an all time high
- Production facilities cannot keep up with demand
- Billions are being invested into new production facilities
- Limited memory innovation over many years: SRAM, DRAM and NAND remain the dominant memories
- Existing memory solutions have become the limiter in computing for both mobile and data centers

Lack of innovation and high demand provide an opportunity for new technologies

COMPANY OVERVIEW

4DS memory INTERFACE SWITCHING ReRAM



World-leading Silicon Valley based Interface Switching ReRAM developer	4DS is the most advanced Interface Switching ReRAM	Targeting Storage Class Memory with focus on augmenting DRAM
Joint development agreement with Western Digital subsidiary HGST since 2014	Strategic collaboration with imec since 2017	32 granted US patents wholly owned (4 non-core patents dropped)

Board and management have the requisite skills to create value

STORAGE CLASS MEMORY

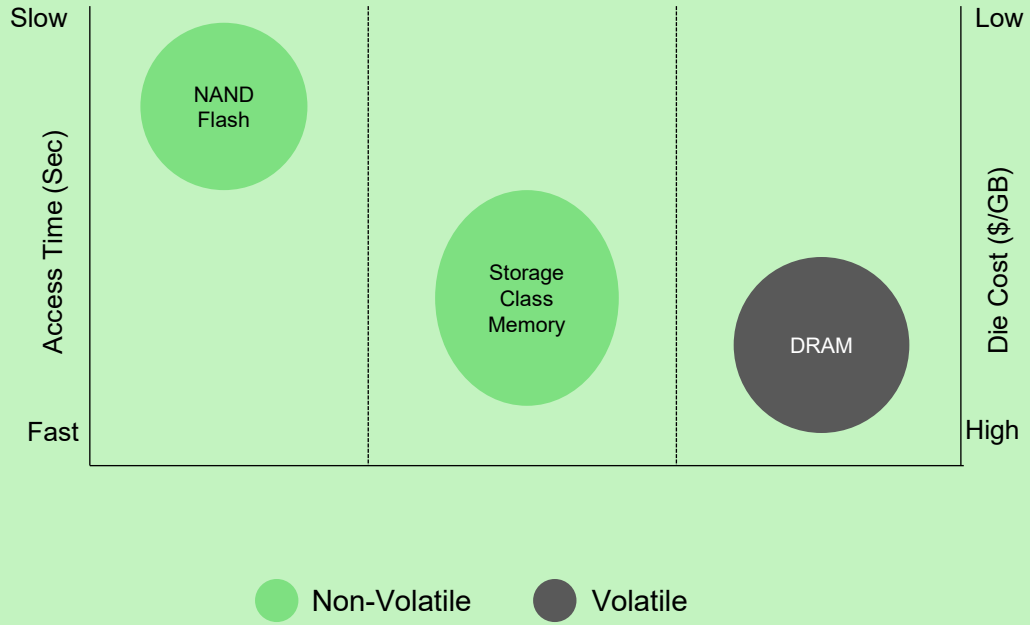
4DS Interface Switching ReRAM is a unique ReRAM being developed specifically for Storage Class Memory applications.

Battleground for next generation memory technology.

- **Faster:** DRAM - like read speed
- **Cheaper than DRAM** cost per bit
- **Non-volatile -** retains data when power is off

STORAGE CLASS MEMORY

Attempts to combine the best characteristics of DRAM and NAND Flash



THE CURRENT MARKET

In 2020 the total semiconductor market achieved ~US $470 billion in sales.*

DRAM and NAND Flash markets had a combined annual revenue of US$ 120 billion in 2020 or approximately 25% of world-wide semiconductor revenue.*

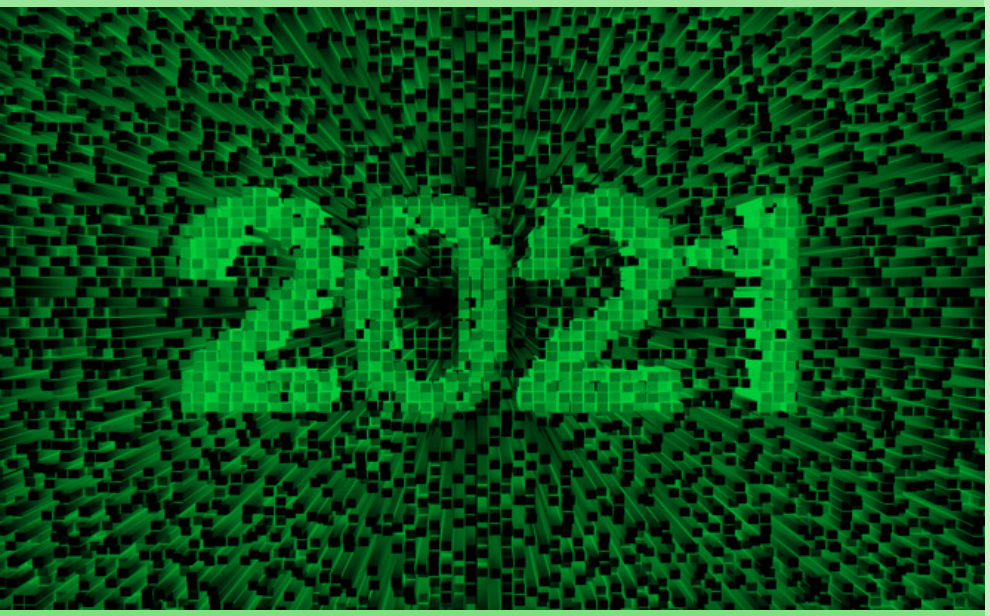
DRAM & NAND are a significant influence on the overall semiconductor market.*

Storage Class Memory will supplement not replace DRAM & NAND revenue or potential growth.

It's estimated that more than 5 billion people have a mobile device

*https://www.semiconductors.org/wp-content/uploads/2021/02/Highest-Volume-Mainstream-Memory_Omdia.pdf

SNAPSHOT



Todays Market Cap* – A$72.5 million (@A$0.048)

Peak Market Cap – A$370 million

*Assumes fully diluted on completion of placement and SPP – doesn't include oversubscriptions

- ✓ Completed analysis of multiple lots of imec wafers
- ✓ Demonstrated ability to replicate results in speed, endurance and retention – twice during 2021
- ✓ While 4DS memory endurance continues to be orders of magnitude better than NAND endurance, recent results showed a potential degradation in endurance using the latest version of polycrystalline PCMO
- ✓ Strategic collaboration with imec; recently extended to end of 2022
  - Negotiating the extension and defining the future development plans were the reason for suspension from the ASX
- ✓ Western Digital / HGST JDA extended till 30 June 2022
- ✓ 3 additional patents granted
- ✓ Recently placed A$ 2.5 mil to institutions and high-net-worth individuals
- ✓ SPP for up to A$ 2.5 mil is open, with ability to take additional A$1 mil

WORLD # 1 AND 4DS PARTNER



- imec is the **world's #1** independent semiconductor development institute
- In 2020 total revenue of 680 million euro
- Unique infrastructure that includes a 2.5 billion euro 300mm semiconductor pilot line
- More than 5000 expert scientists from over 95 countries
- Collaborates with the who's who of electronic products and systems – over 600 world leading industry players and a global academic network
- Collaborates with makers of high-volume high-density memories
- Uses the same tools as industry for high-volume production of high-density memories
- Has a proven Megabit memory platform to fast-track development of Gigabit memories, using a Megabit memory test chip

COLLABORATION OBJECTIVES 2022



imec

Complete	Complete process optimization in Q1 2022
Commence	Commence Lot production in Q2 2022
Deliver	Out of Fab Lot delivered to 4DS early Q3 2022
End Goal	End goal is to demonstrate the ability to fabricate a 4DS Interface Switching megabit memory array in 2022

EIGHT YEAR PARTNERSHIP WITH HGST

HGST is a subsidiary of Western Digital Corporation (US$ 17.5 billion market cap), one of the largest global leaders in digital storage

- ✓ Strategic innovator in emerging high growth technologies
- ✓ Commenced Joint Development Agreement in 2014 – **Renewed in 2015, 2016, 2017, 2018, 2019, 2020 and 2021**
- ✓ Insight into what is important in a data-centric world



BOARD AND MANAGEMENT

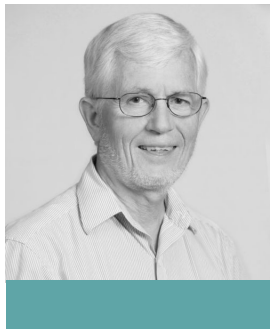
Global expertise in founding and building high-tech companies.



Drs. Wilbert van den Hoek

Non-Executive Chairman

- Served as CEO and Board member of Silicon Valley companies
- Previously CTO /EVP at Novellus Systems and was a board member of Cypress semiconductor



Dr Guido Arnout

CEO & Managing Director

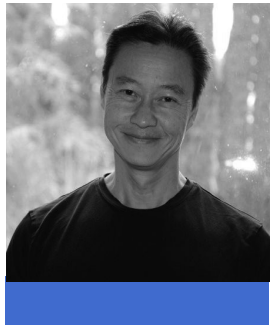
- 30+ years in commercialising electronics technology
- Successes include, Power-Escape, CoWare, CrossCheck Technology and Silvar-Liso



Howard Digby

Non-Executive Director

- Former senior roles at IBM, Adobe, Gartner and the Economist Group
- Director of Cirralto Ltd, Elsight Ltd and Singular Health Ltd
- Advisor to a number of technology companies



Ting Yen

VP Processing Intergration

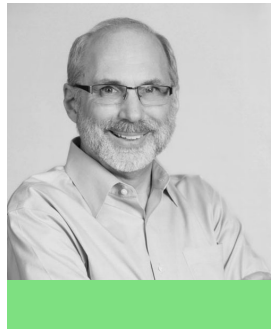
- 30 years experience in commercializing memory technologies
- Various roles at Integrated Memory, Netlogic, Integrated Device, Cypress, Paradigm and Philips Research



David McAuliffe

Executive Director

- Experienced company director
- Involved in numerous capital raisings and in-licensing of technologies
- Founder of several companies in Australia, France and the UK, many of which are now ASX listed. Non-Executive of Invex Therapeutics Ltd

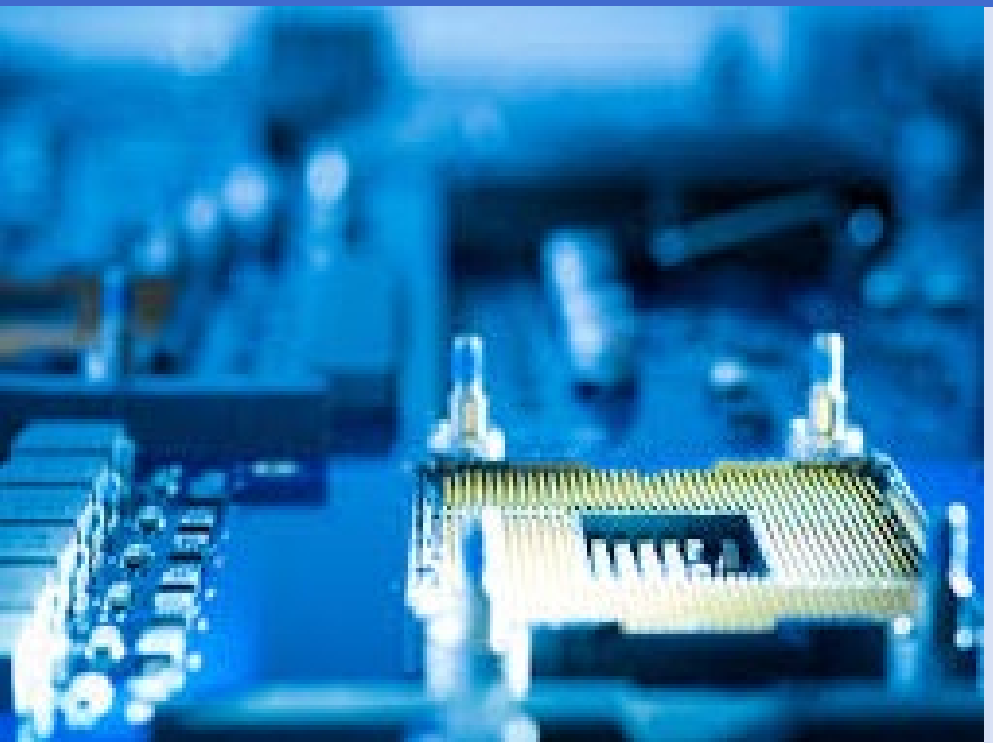


Michael Van Buskirk

Chief Engineering Officer

- Executive roles with a number of leading memory companies in Silicon Valley
- These include Adesto Technologies Corporation, Innovative Silicon Inc and Spansion Inc.

CAPITAL STRUCTURE*



ASX Code	4DS
Market Cap (Fully Diluted)	A$ 72.5 million**
Ordinary Shares on Issue	1,426,241,507
Unlisted Options	84,360,600
Cash	~A$ 6.5 million – November 2021

*Assumes on completion of placement and SPP – doesn't include oversubscriptions

**At placement price of A$0.048

VALUE PROPOSITION

4DS is developing a breakthrough Interface Switching ReRAM Storage Class Memory solution

Produced pivotal data applicable for Storage Class Memory - best results to date were replicated twice in 2021

HGST – eight-year strategic partnership with global leader in digital storage

imec – strategic collaboration to develop megabit memory macro with the world # 1 developer

Strong patent portfolio with 32 granted patents wholly owned and developed in-house (4 have expired)

World-class team of memory specialists and test engineers

Board experienced in founding, building and exiting high tech companies

Sufficient cash to meet 2022 objectives

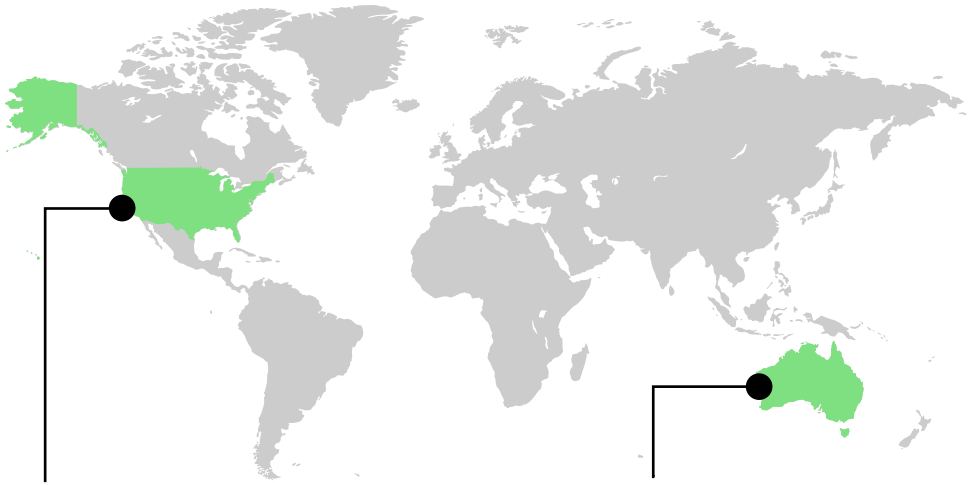
4DS is addressing the massive memory demands of tomorrow



THANK YOU

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