



# Weebitnano

The Future Memory

**Delivering to plan**

1 August 2022

# Key Q4 FY22 Highlights

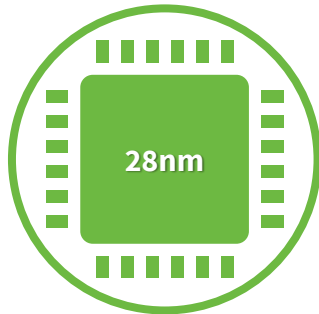


- ◆ Successfully completed technology transfer to SkyWater's production fab, taped-out demo chips
- ◆ Demonstration chips (from Leti) completed functional testing
- ◆ Publicly demonstrated the ReRAM IP module for the first time
- ◆ Very good initial qualification results of Leti wafers
- ◆ Bolstering marketing and sales activities

# Significant progress in last 12 months



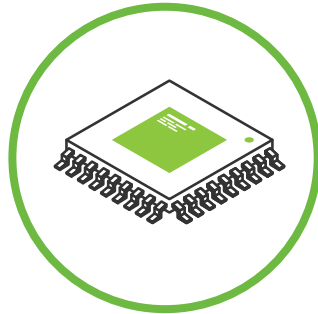
**SEP. 2021**  
Secured commercial deal; qual planned early 2023



**OCT. 2021**  
Demonstrated 1Mb ReRAM arrays in 28nm FDSOI



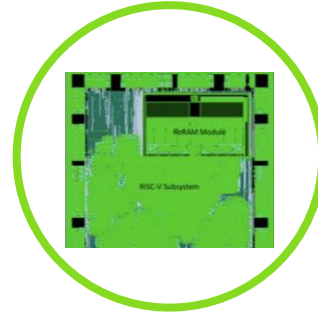
**NOV. 2021**  
Raised additional \$36m in ASX, led by Meitav-Dash, a major Israeli institution



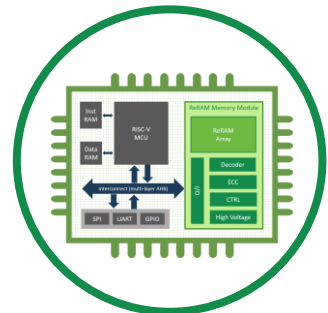
**MAR. 2022**  
Start scaling the technology to 22nm FD-SOI



**June 2022**  
ReRAM IP module fully functional, live demonstration



**June 2022**  
Tape-out of IP module to SkyWater foundry

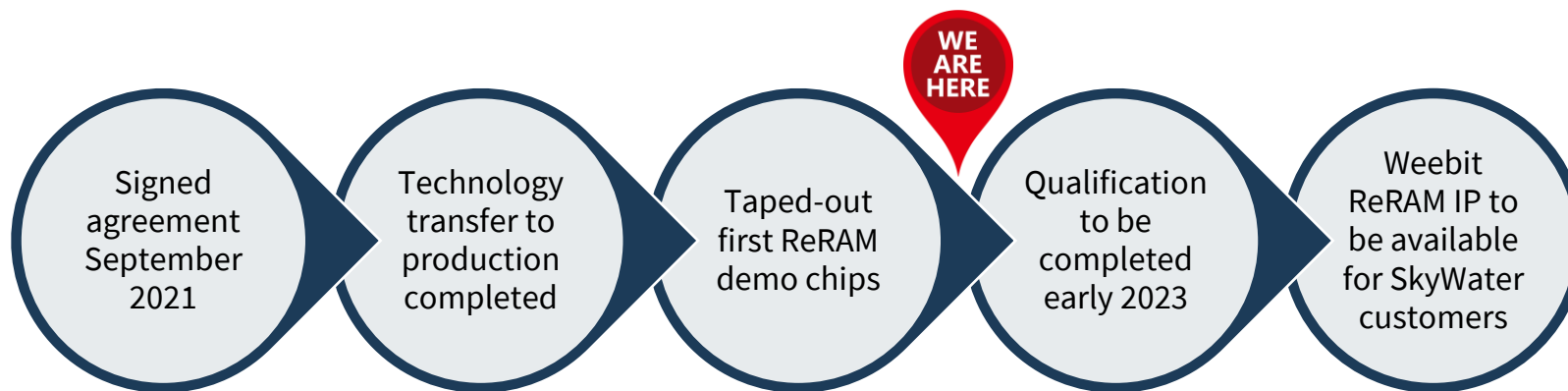


**July 2022**  
Initial qual results of Leti manufactured memory module

# Technology Transfer to SkyWater Fab Complete Taped-out ReRAM Demo Chips

## A significant milestone towards commercialisation

- ◆ Weebit successfully completed the transfer of its embedded ReRAM technology to SkyWater's US production fab
- ◆ The demo chips have been taped-out, released for manufacturing
- ◆ Once the chips have been received back from the fab, SkyWater customers will be able to use the demo chip as a platform for testing and prototyping ahead of qualification
- ◆ Following qualification, Weebit's embedded ReRAM will be available for mass production at SkyWater's fab, allowing SkyWater customers to license Weebit's technology and embed it with new product designs

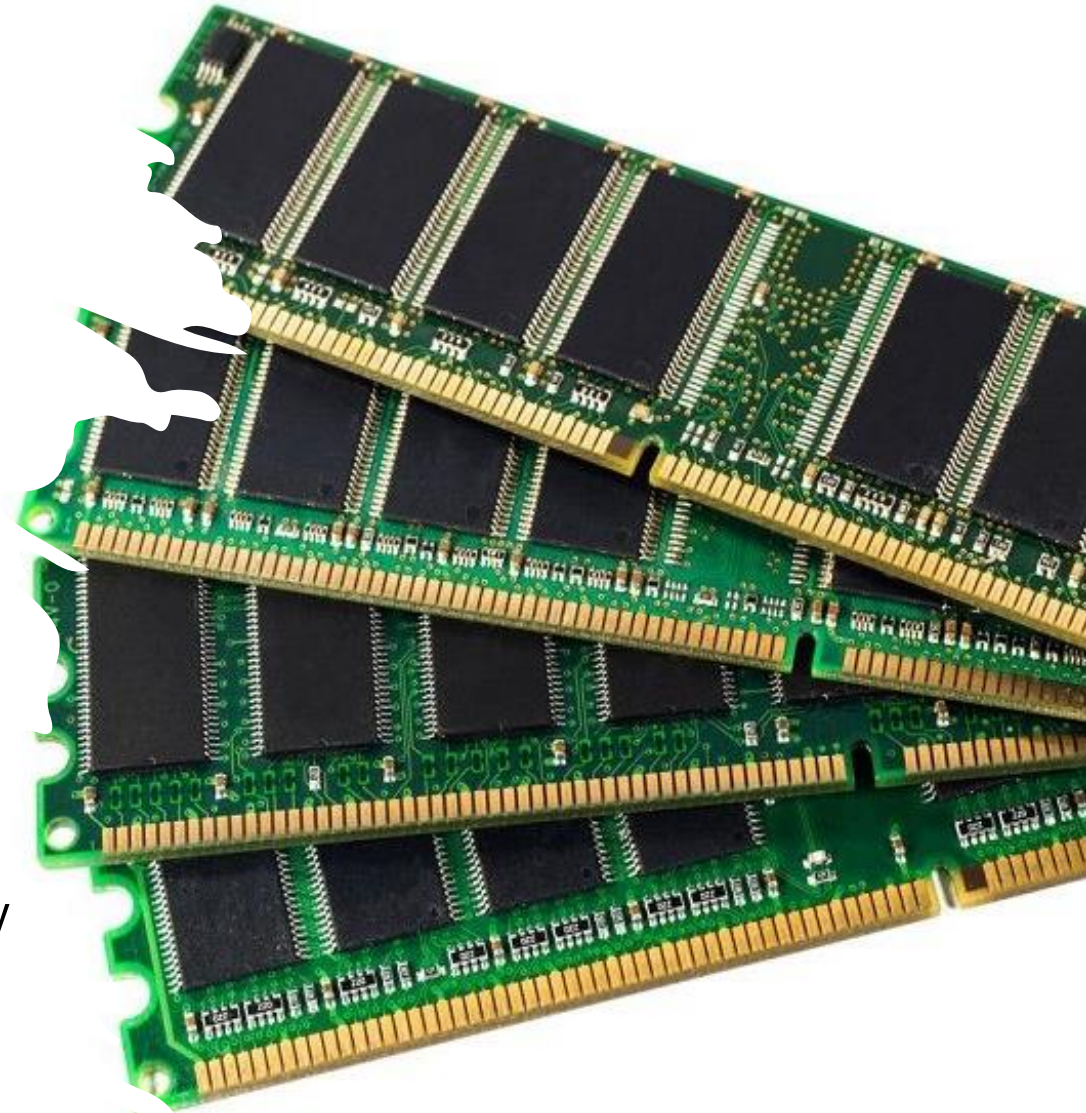


President Biden holding a SkyWater wafer; Source: NBC News, April 12, 2021

# Initial Qualification Progressing

## Very good initial results

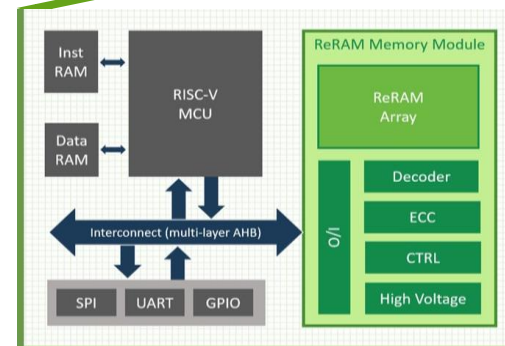
- ◆ Running qualification tests on lots manufactured at Leti
- ◆ Qualification is a long and very organized process
  - ◆ Testing many wafers from several lots
  - ◆ Starting at room temperature and moving up, starting at lower endurance and moving up, ...
- ◆ Very good initial results, including impressive data retention and endurance
  - ◆ VP Tech Development, Amir Regev, will share new test results this week at Flash Memory Summit, August 3<sup>rd</sup>
- ◆ Final qualification results of the Leti lots are expected by the end of 2022



# First Public Demonstration of ReRAM Module

## A key technical milestone as Weebit progresses toward full productisation

- ◆ Demonstration in June 2022, during the Leti Innovation Days event
  - ◆ 128Kb ReRAM array integrated in a complete module in 130nm
- ◆ Highlights the real-world capability of Weebit ReRAM as an NVM integrated into an actual subsystem
  - ◆ Complete subsystem based on a RISC-V processor, peripherals and I/Fs
- ◆ Shows the speed of the ReRAM module, highlighting significantly faster write speed compared to typical flash memory



### Module includes:

- All analog circuitry including optimised voltage & current references
- Smart algorithms (read, set/reset, forming)
- Control logic and data manipulation
- Redundancy, ECC

# Bolstering Marketing and Sales Activities

## Building the sales funnel

- ◆ During the quarter, Weebit's executive team attended several industry leading conferences and events, including

- ◆ Leti Innovation Days (France)
- ◆ International Memory Workshop (Germany), an IEEE event
- ◆ ChipEx (Israel)
- ◆ CIMTEC (Italy)
- ◆ Global Semiconductor Alliance (GSA) European Executive Forum (Germany)
- ◆ Upcoming: In August 2022, Weebit will exhibit at Flash Memory Summit 2022 in California, USA, the largest global conference for the Non-Volatile Memory ecosystem



- ◆ Conferences and other marketing activities provide Weebit with significant exposure to potential customers and partners and generates additional interest in its ReRAM technology
- ◆ Weebit is continuing discussions with potential customers and partners, including several new ones connected with at the various conferences attended



# Our New Website is *Alive and Kicking!!*

[www.weebit-nano.com](http://www.weebit-nano.com)

## INVESTOR CENTER

Building Value Through  
Technology Excellence

Receive Investor News

## SHARE PRICE

LAST PRICE / TODAY'S CHANGE  
A\$2.74 ▲ 0.09 3.2%

VOLUME  
312,676

BID / OFFER RANGE  
A\$2.74 - A\$2.80

MARKET CAPITALISATION  
A\$472M

 Analyst Coverage

 ASX Filings

 Presentations & Interviews

 IR Calendar

 Technical Glossary

## INVESTORS

### Glossary

Search by Keyword ...

E

Embedded Memory

Embedded NVM Memory

Emerging Memory (Emerging NVM)

Endurance

## NEWS

### Blog



#### The Perfect Recipe: Technology Transfer Explained

24 April 2022

What makes a  
of work to ensi  
formed, equal



#### ReRAM Path to Production: An Interview with SkyWater and Weebit

7 June 2022

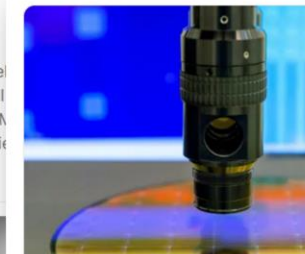
Last fall, Weebit  
SkyWater will  
Memory (NVM)  
A new interview



#### Compressing a Lifetime's Worth of Stress: ReRAM Qualification Explained

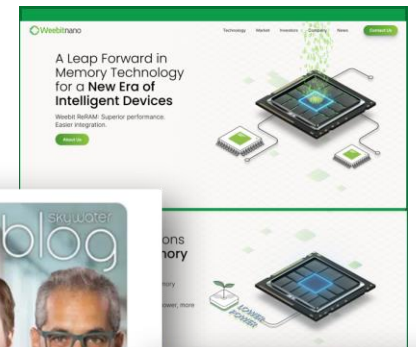
23 April 2022

In our last post, we talked about the technology



#### Weebit ReRAM Results: High Temperature Stability at 28nm

16 June 2022



#### See the Weebit ReRAM IP Module in Action!

26 June 2022

At this week's Leti Innovation Days event, Weebit is showing the first public demonstration of our ReRAM IP module. Just in case you aren't attending

## INVESTORS

### Guide to ReRAM

Semiconductor Memory and ReRAM Technology Explained

#### A Brief Overview of Semiconductor Memory

'Semiconductor memory' generally refers to digital data storage in the form of memory cells which are part of a silicon Integrated Circuit (IC) chip.

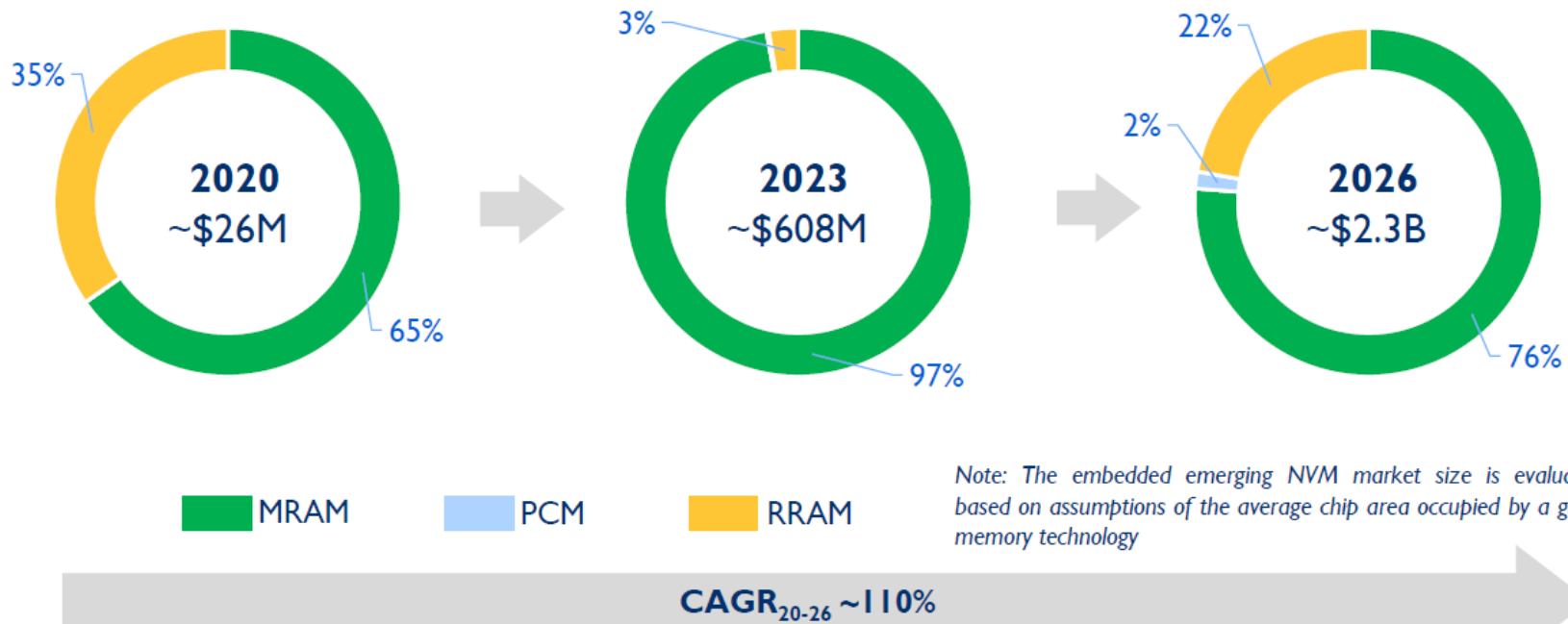
#### Volatile Memory: Working Memory

Imagine if every time you went to sleep, you forgot everything you had done or learned previously. This is the nature of volatile memory – such as DRAM (Dynamic RAM) and SRAM (Static RAM) – where data is only retained so long as a device is connected to a power source.





# Embedded ReRAM Market Growing Fast



Note: The embedded emerging NVM market size is evaluated based on assumptions of the average chip area occupied by a given memory technology

- ◆ Embedded ReRAM market expected to grow from \$18M in 2023 to \$506M in 2026
- ◆ ReRAM will quickly become a leading embedded NVM

\* Source: [Yole Emerging Non-Volatile Memory 2021](#)

**Electronics Weekly.com**

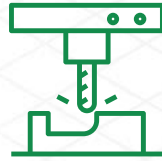
By Steve Bush | 8th July 2022

## Nordic to buy its embedded memory supplier, Mobile Semi

Norwegian RF chip maker Nordic Semiconductor is to acquire US embedded memory IP supplier Mobile Semiconductor.

# Looking Ahead

Milestones by the end of CY22



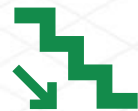
Proceeding with **advanced qualification stages** at SkyWater's U.S. fab



Provide **qualification results** of our embedded ReRAM module



Sign **new licensing agreements** with partners and customers



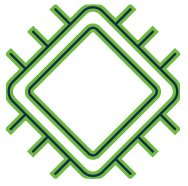
Continue **scaling down technology** to smaller geometries

# Key Takeaways

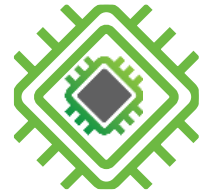
S&P Dow Jones  
Indices



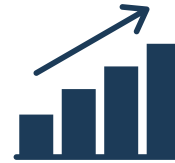
WBT:ASX  
On ASX All Ords Index



The industry  
needs a new  
Non-Volatile  
Memory  
solution



Weebit ReRAM  
has unique  
advantages;  
It is well  
positioned to  
replace eFlash



Progressing  
strongly:  
1<sup>st</sup> commercial  
deal, technology  
proven across  
multiple  
processes



Board  
& management  
team have  
extensive  
semiconductor  
commercialisation  
experience



On track to  
deliver a  
production  
solution across a  
range of  
high-growth  
markets

# Disclaimer

*This presentation contains certain statements that constitute forward-looking statements. Examples of such statements include, but are not limited to, statements regarding the design, scope, initiation, conduct and results of our research and development programs; our plans and objectives for future operations; and the potential benefits of our products and research technologies. In some cases, forward-looking statements can be identified by the use of terminology such as “may,” “will,” “expects,” “plans,” “anticipates,” “estimates,” “potential” or “continue” or the negative thereof or other comparable terminology. These statements involve a number of risks and uncertainties that could cause actual results and the timing of events to differ materially from those anticipated by these forward-looking statements. These risks and uncertainties include a variety of factors, some of which are beyond our control. All forward-looking statements and reasons why actual results may differ are based on information available to us when initially made, and we assume no obligation to update these forward-looking statements or reasons why actual results might differ or the information set forth herein.*

*In addition, we do not make any representations or warranties, express or implied, with regard to the information included in this presentation of any other related document or information disclosed or furnished in connection thereto, including, without limitation, with respect to the accuracy, reliability, completeness or its sufficiency for any particular purpose. This information is proprietary and confidential of Weebit and is provided on a confidential basis and may not be disclosed or used without our prior written consent. You acknowledge that the disclosure and use of the information may be further prohibited under applicable securities or other laws.*

*This presentation is made for informational purposes only and does not constitute an offer to sell any interest in Weebit nor does it form the basis of any contract or agreement between the parties.*

### **Third party data**

*This presentation includes or is otherwise based on information obtained from publicly available information, including data from various independent research firms and industry associations as noted, and other information publicly released by corporations and government departments. Weebit has not independently verified or audited this information or any information. Accordingly, the accuracy and completeness of such information is not guaranteed. This data has been accurately reproduced and, as far as Weebit is aware, no facts have been omitted that would render the information provided inaccurate or misleading. Investors should note that market data is inherently predictive and subject to uncertainty and is not necessarily reflective of actual market, industry and macroeconomic conditions. Specifically, there is no assurance that any of the forecasts or projections will be achieved. Forecasts and projections involve risks and uncertainties and are subject to change based on various factors, including those discussed above.*

A close-up, artistic photograph of a microchip or circuit board. The chip is illuminated with vibrant green and blue light, creating a futuristic, high-tech atmosphere. Numerous thin, vertical lines of light, resembling fiber optics or data streams, extend upwards from the chip, adding to the sense of connectivity and advanced technology. The background is dark, making the glowing elements stand out prominently.

# Thank You!

[weebit-nano.com](http://weebit-nano.com)

