



Weebitnano
The Future Memory

Moving closer to productisation

2 May 2022

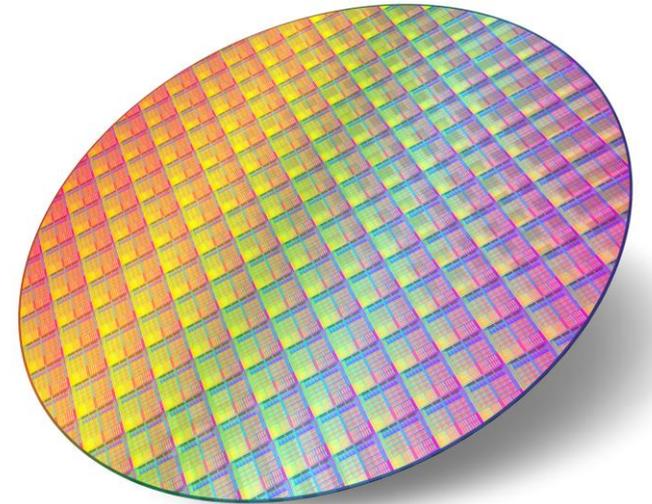
Key Q3 FY22 Highlights

- ◆ Demo chips successfully complete functional testing
- ◆ ReRAM technology scaling down to 22nm
- ◆ Technology transfer to SkyWater's US fab progressing as scheduled
- ◆ First crossbar ReRAM array demonstrated
 - ◆ An important step towards discrete memory
- ◆ Continued discussions with potential partners and customers

Demo chips complete functional testing

A key step in productisation and commercialisation

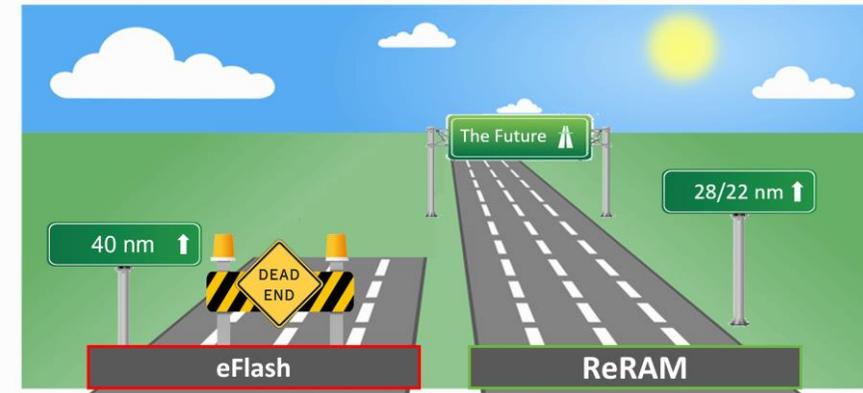
- ◆ Demo chips (manufactured at Leti) with embedded ReRAM module successfully completed functional testing
 - ◆ Moving Weebit closer to delivering a commercial product
- ◆ The first silicon wafers received were sliced into chips, packaged, and extensively tested
- ◆ Testing confirmed that the demo chips performed as expected
- ◆ Next steps (already in process):
 - ◆ Characterisation of the ReRAM module – how to best operate it
 - ◆ Qualification of the module
- ◆ Demo chips are an important commercialisation milestone:
 - ◆ They enable customers to prototype Weebit's ReRAM into their SoCs and test Weebit's technology
 - ◆ Once qualified, this is a solid proof for customers/fabs that the module is ready for mass production (Note this is in Leti so no mass production will actually be done, but we can show this to other fabs)



Embedded ReRAM scaling down to 22nm

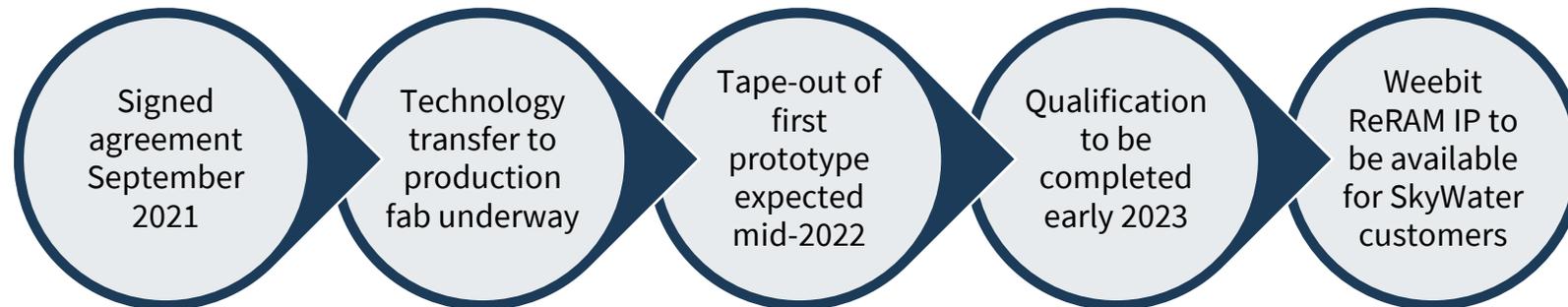
An important milestone in productising the technology for the embedded memory market

- ◆ Weebit commenced scaling its embedded ReRAM technology down to 22nm
 - ◆ The company is working with development partner CEA-Leti to design a full IP memory module targeting an advanced 22nm Fully Depleted Silicon On Insulator (FD-SOI) process
 - ◆ This is a key step towards productisation of embedded Non-Volatile Memory (NVM) for AI, autonomous driving, 5G and advanced IoT
- ◆ The 22nm process node is commonly used by major semiconductor companies
 - ◆ A good compromise between cost-power-performance
 - ◆ Requires a new NVM paradigm, since Flash cannot scale to this level
- ◆ The new 22nm program follows the achievement of production-level parameters at 28nm on 300mm wafers last October
- ◆ Weebit is leveraging its strong balance sheet to accelerate development plans to scale its technology to smaller geometries, where existing embedded flash technology is no longer viable and potential customers can create new products in advanced geometries



Technology transfer to SkyWater's US fab on schedule

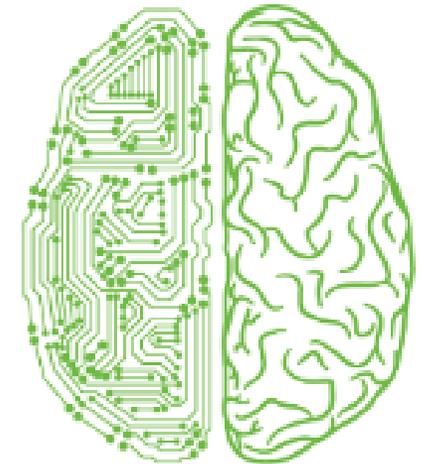
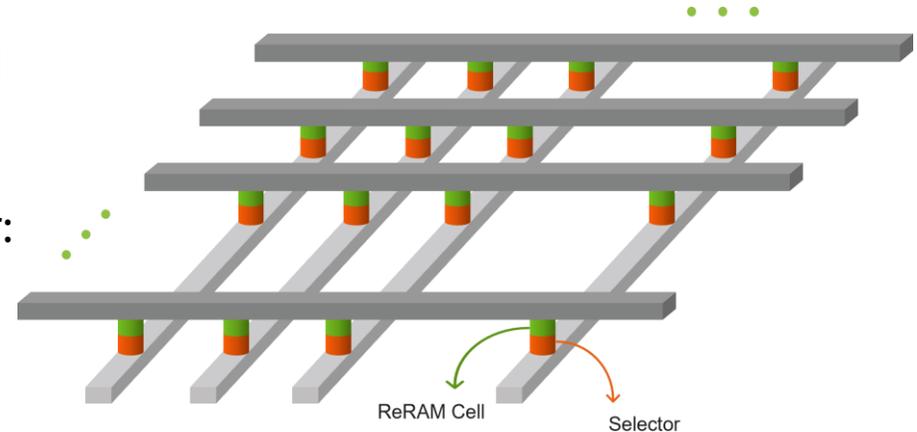
- ◆ Weebit's transfer of its embedded ReRAM technology to SkyWater's US production fab is on track with the first demo ReRAM chips expected to tape-out by mid-year
- ◆ The technology qualification process will then follow, where extensive testing of the manufacturing processes will be undertaken to ensure the repeatability of Weebit's embedded ReRAM at scale
- ◆ Once qualified, SkyWater will add Weebit's ReRAM to its 130nm Process Design Kit, allowing SkyWater customers to license Weebit's technology and embed it with new product designs they develop which can then be mass-produced at SkyWater's fab



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

Other Developments & Updates

- ◆ **Weebit and CEA-Leti demonstrated its first crossbar ReRAM arrays**
 - ◆ Crossbar arrays combine WBT's ReRAM technology with a selector: A key milestone on the Company's path to creating discrete (stand-alone) NVM chips
- ◆ **Ongoing technical evaluations and business discussions with potential partners and customers**
 - ◆ The functional demo chips enable Weebit to demonstrate its embedded ReRAM to potential customers, allowing them to test and evaluate the technology within their applications and designs

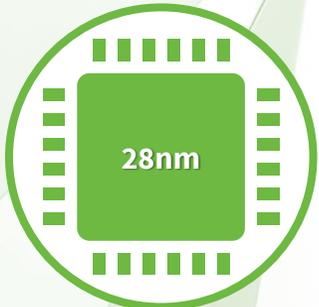


Significant Progress in Last 6 Months



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



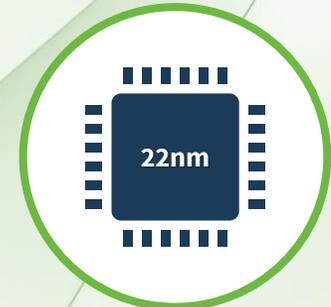
DEC. 2021

Received first module wafers from Leti



JAN. 2022

Demonstrated 1S1R Crossbar Arrays



MAR. 2022

Scaling the technology to 22nm FD-SOI



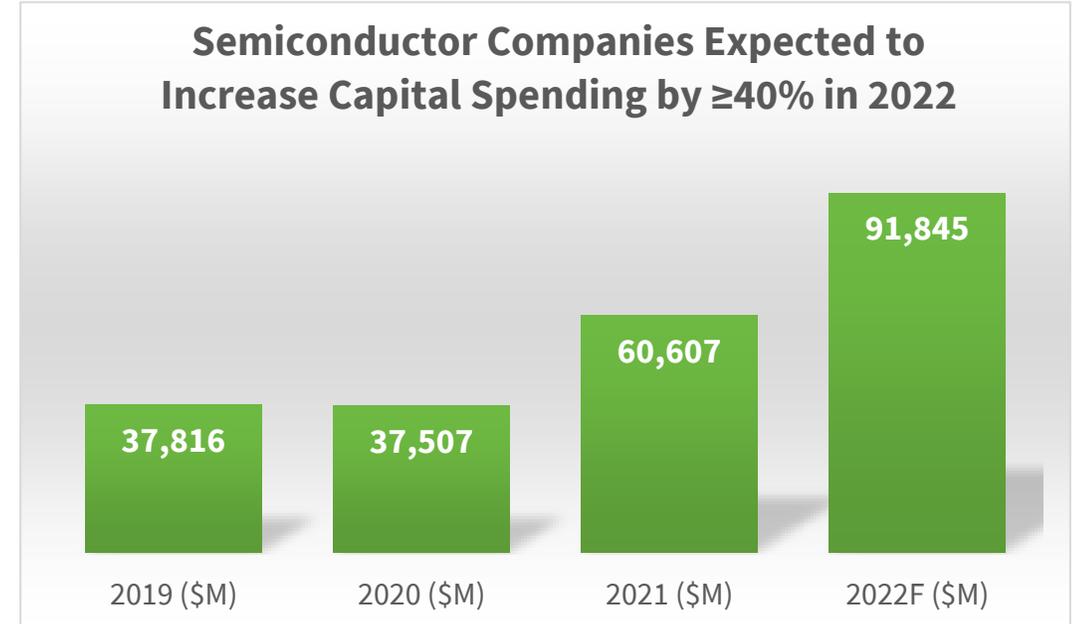
Apr. 2022

ReRAM module successfully completes functional testing

Chip Shortage Leading to Huge Investments to Build Capacity

Government Investments (\$B)		
United States	52B* +	4 new fabs
European Union	\$30-50B+	4 new fabs
Japan	6.8B	5 new fabs
China		10 new fabs
India	\$10B	
Korea	\$452B**	5 new fabs
Taiwan		10 new fabs
Singapore		1 new fab

Source: SIA , 2/2022 *Not yet passed ** through 2030



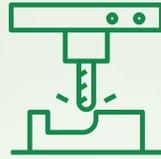
* Includes 13 companies; Source: [IC Insights 2022](#)

- ◆ Memory = 35% of fab equipment spending 2022-2023
- ◆ Memory + foundry represent most of the capacity increases

– SEMI, March 2022

Looking Ahead

Milestones by the
end of CY22



Complete technology transfer to SkyWater's U.S. fab; **be in advanced stages of qualification**



Provide functional test results of our embedded ReRAM module



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



Continue **scaling down technology** to 22nm

Coming Very Soon: Our New Website

◆ Your go-to destination for anything related to ReRAM

- ◆ Educational content
- ◆ Fresh market data
- ◆ Detailed list of applications
- ◆ New investor center
- ◆ New: blog site
 - ◆ Technology Transfer explained
 - ◆ Qualification explained
- ◆ Technical resources for engineers
- ◆ Newsroom site
- ◆ Easy to navigate and explore

Enjoy and spread the word!
www.weebit-nano.com

The Weebit ReRAM Advantage

Today we are seeing an explosion of innovation in electronic devices – with ever-more immersive and intelligent technologies fast becoming integral parts of our lives.

The industry needs a new type of NVM to support this new era of devices and applications.

NVM must be extremely low power to support IoT and battery-operated devices. It must have excellent endurance and retention – even at high temperatures and in harsh conditions – to support long-lifecycle automotive and industrial applications.

And it must be scalable to advanced process nodes to support emerging applications such as AI and advanced IoT.

Our highly scalable ReRAM is an ideal successor to today's NVM solutions. Weebit ReRAM beats flash on key metrics including cost, power consumption, endurance, access time, and more. It also wins on these metrics when compared to other forms of emerging NVM.

High Endurance

Endurance – the number of times a memory can be reliably written in its lifetime – varies significantly between different memory types. Weebit ReRAM typically has 10x-100x better endurance than flash, handling between 100,000 and a million write cycles versus the typical 10,000 program/erase cycles that flash can manage. This means Weebit ReRAM can support applications that require more frequent memory updates such as automotive and security – where frequent updates are typical as well as data logging.



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:
1st commercial
deal, technology
proven across
multiple
processes



Board
& management
team have
extensive
semiconductor
commercialization
experience



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

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A close-up, artistic photograph of a microchip or circuit board. The chip is illuminated with vibrant green and blue light, creating a grid-like pattern of light trails. The background is dark with bokeh light effects in various colors like red, yellow, and blue.

Thank You!

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