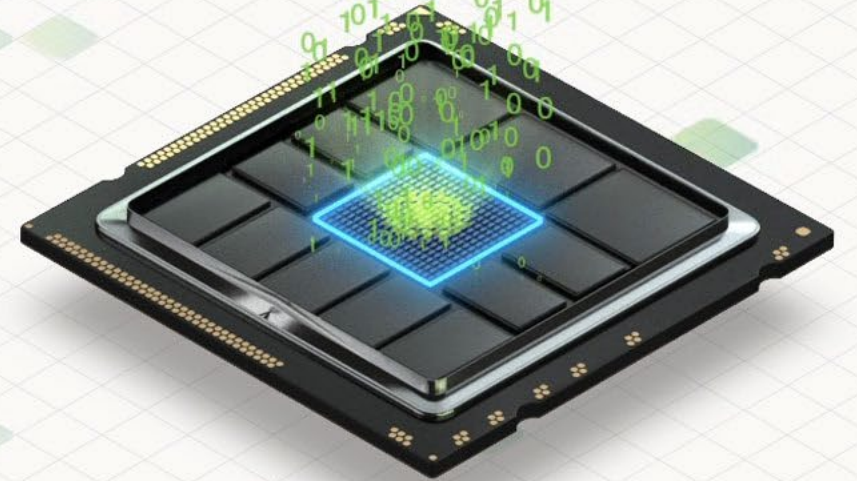




ReRAM: The Next NVM is Here

Investor Meetings

November 2022



Who we are

Leading developer of innovative memory technologies Bringing to market Weebit ReRAM – next-generation NVM technology

Enabling a new era of intelligent connected devices



Founded: 2015

Located in Israel & France
ASX: WBT



Signed 1st commercial deal

Ongoing discussions with
additional fabs and customers



World-leading team

50 personnel* (90%
engineers/ scientists)



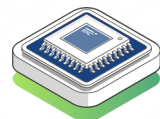
Business model

Product & IP licensing to
semiconductor companies & fabs



R&D partner

CEA-Leti, leading micro-
electronics research institute

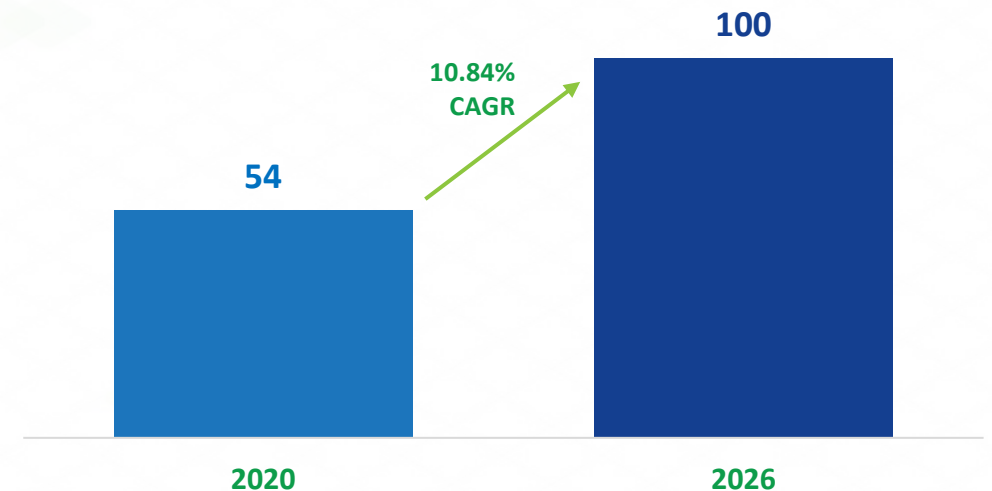


Fully qualified on 130nm & below

Proven on >1000 wafers to-date
Volume production expected 2023

* Includes employees and full-time contractors

Global NVM Market (US\$B)*



NVM = Non-Volatile Memory

* Source: MarketsandMarkets; company data

Strong board with world-renowned semiconductor industry experience

David (Dadi) Perlmutter
CHAIRMAN



Dr. Yoav Nissan-Cohen
EXEC. DIRECTOR



Atiq Raza
NON-EXEC. DIRECTOR



Fred Bart
NON-EXEC. DIRECTOR



Ashley Krongold
NON-EXEC. DIRECTOR



Coby Hanoch
CEO



Strong and experienced management

Coby Hanoch
CEO



Ishai Naveh
CTO



Amir Regev
VP TECH.
DEVELOPMENT



Ilan Sever
VP R&D



Eran Briman
VP MARKETING &
BUSINESS DEV.



Alla Felder
CFO



Increasing global semiconductor R&D investment

- ❖ Geopolitics driving countries to invest locally in semiconductor R&D
 - ◆ US CHIPS Act / EU Chips Act to boost new fab construction & advanced R&D in these regions
 - ◆ NVM a key area of investment globally
- ❖ Semiconductor companies & foundries announce capacity investments over time



Government Investments & Incentives		
United States	\$52B +	8 new fabs
European Union	\$43B +	4 new fabs
China	\$150B +	10 new fabs
Korea	\$260B +	5 new fabs
Taiwan	\$120B +	10 new fabs
Japan	\$6B +	5 new fabs
India	\$10B +	1 new fab
Singapore	\$5B +	1 new fab

TSMC	Intel	Samsung	Micron
\$100B	\$40B	\$345B	\$150B

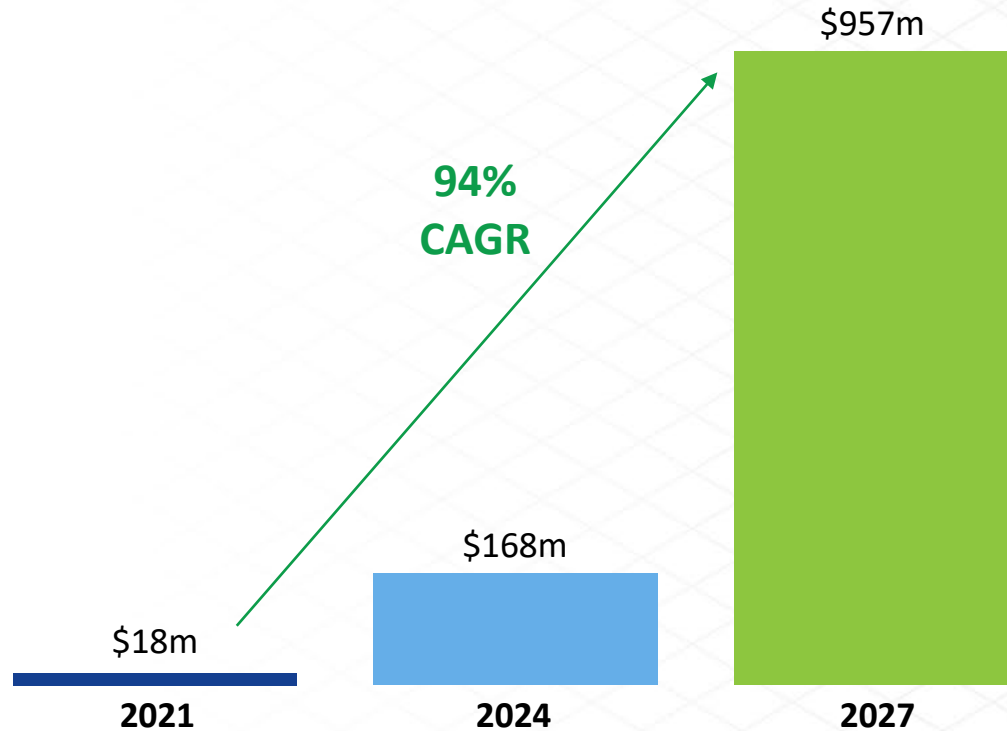
EE Times SkyWater to Build \$1.8 Billion Fab
07.22.2022

IC Insights 08.23.2022 First 3-year period of double-digit CapEx growth in semi industry since 1995

- ◆ **Memory = 35% of fab equipment spending 2022-2023**
- ◆ **Memory + foundry represent most of the capacity increases** – SEMI, March 2022

Embedded ReRAM market – approaching the tipping point

Embedded ReRAM Market Size 2021 - 2027



Embedded emerging NVM market expected to reach \$2.9B by 2027

◆ ReRAM expected market share: 33%

Embedded memory is a clear differentiator for semiconductor companies

Electronics Weekly.com

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.

Source: Yole Emerging Non-Volatile Memory 2022

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

The evolution of ReRAM: The Next NVM is Here



1960s – 2010s

- ReRAM spent decades in research and development until the industry recognized the limitations of flash



2015 – 2016

- Weebit founded
- Partnering with Leti to drive development of innovative NVM based on 10+ years of research



2017 – 2018

- Weebit's first demonstrations of small ReRAM arrays
- Focus on fab-friendly and easy-to-integrate technology



2019 – 2021

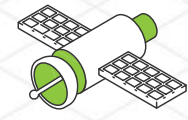
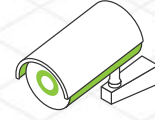
- Weebit's technology matures
- IP productization
- First commercial deal
- Starting to scale technology to smaller process nodes



2022 – onwards

- Customers requesting ReRAM **now**
- Weebit ReRAM is industry-qualified, ready for production
- Multiple fabs considering Weebit ReRAM
- Weebit & Leti continue to innovate

ReRAM addresses a broad range of application requirements



	Mixed-Signal / Power Mgmt	IoT / MCUs	Edge AI	Automotive	Aerospace & Defense
Back-end-of-line tech for easy analog integration	✓				
Cost-efficiency	✓	✓	✓	✓	
Ultra-low power consumption	✓	✓	✓		
Robustness in high temp / extreme environments	✓	✓		✓	✓
Scaling advantage at 28nm and below		✓	✓	✓	
High Endurance		✓		✓	✓
Small footprint to store very large arrays			✓	✓	
Longevity		✓		✓	✓
Roadmap to neuromorphic computing			✓		

The Weebit ReRAM advantage



3-4x

Lower added wafer cost vs. flash

- ✓ 2-mask adder
- ✓ Standard materials



100x

Better endurance vs. flash

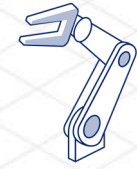
- ✓ 10^5 - 10^6 P/E cycles



~100x

More energy efficient vs. flash

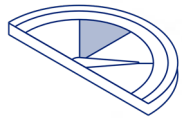
- ✓ Low voltage, low currents
- ✓ Zero standby power



<40nm

Scales to processes far below limits of flash

- ✓ Proven @ 28nm
- ✓ Scaling to 22nm & below



~100x

Faster access time than flash

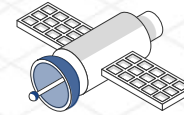
- ✓ Bit/byte addressable



175°C

Reliability for up to 10 years

- ✓ Endures 9 SMT reflow cycles



~350x

Better radiation tolerance vs. flash¹

- ✓ Also tolerant to EMI

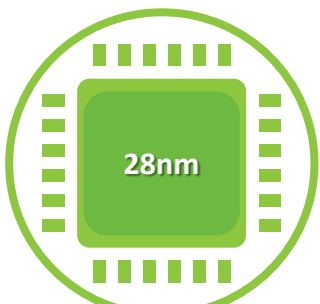


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Interference w/ analog & power devices

- ✓ Best NVM for PMIC & mixed-signal

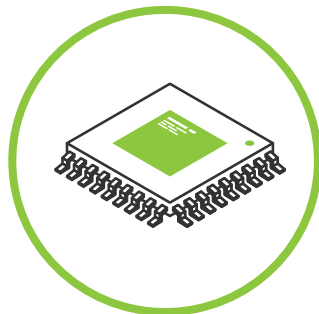
Significant progress in last 12 months



OCT 2021
Demonstrated 1Mb ReRAM arrays in 28nm FD-SOI



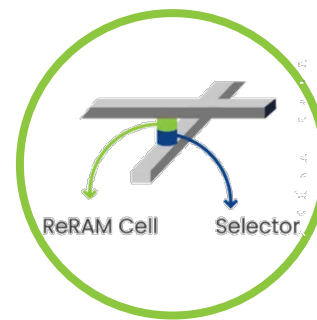
NOV 2021
Raised further A\$35m; well funded to 2024



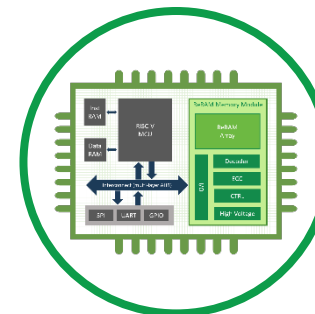
MAR 2022
Started scaling the technology to 22nm FD-SOI



JUN 2022
ReRAM IP module fully functional, live demonstration



OCT 2022
ReRAM selector can achieve high densities needed for discrete & embedded applications



OCT 2022
Final qualification of ReRAM IP module. Industrial-grade temperatures



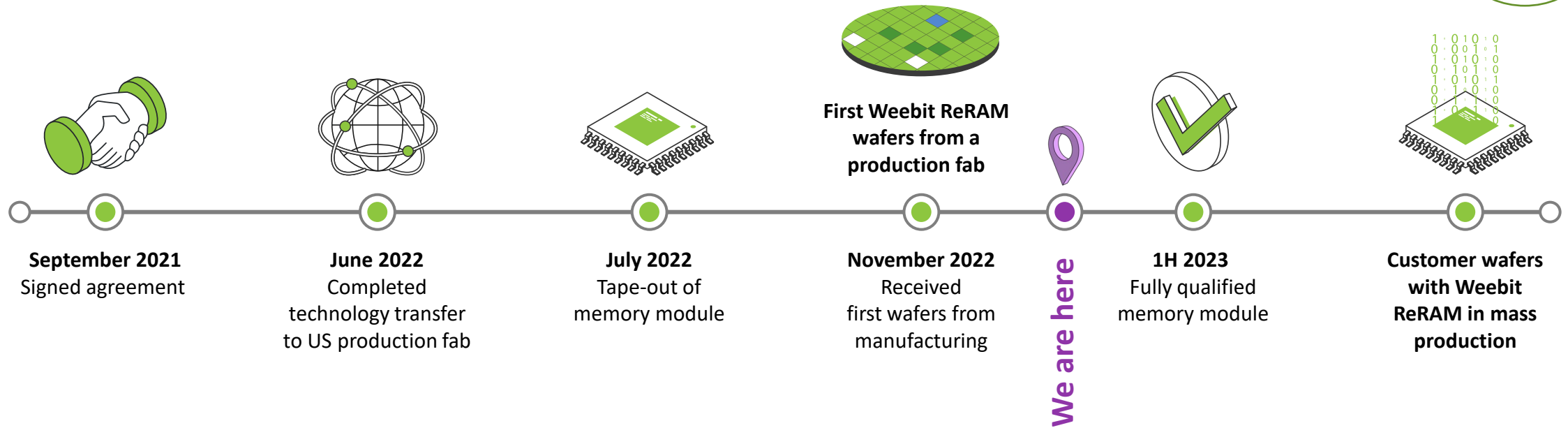
NOV 2022
First production-fab wafers integrating WeeBit IP

On the path towards commercialisation with SkyWater

SkyWater Technology (Nasdaq:SKYT) – the only US-owned pure-play silicon foundry – Taking **Weebit ReRAM** to volume production



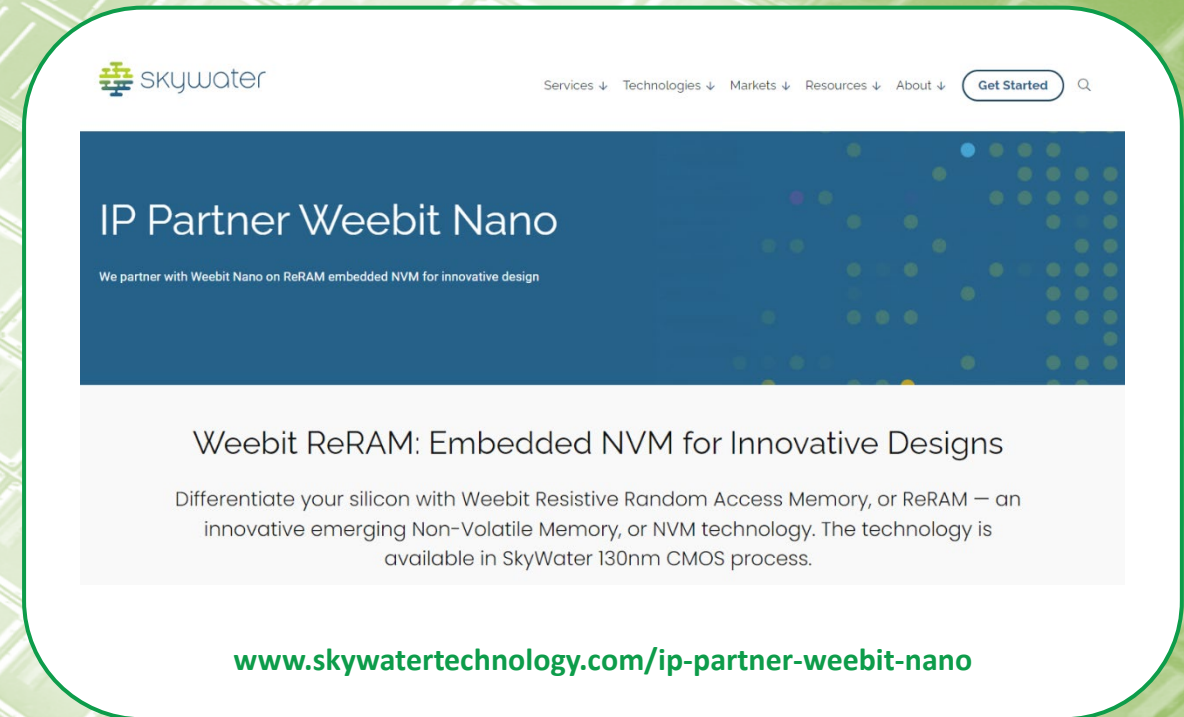
CEO Coby Hanoch holding a SkyWater wafer November 8, 2022



First silicon wafers integrating Weebit ReRAM received from SkyWater's U.S. production fab

Major milestone toward commercialisation of Weebit ReRAM at SkyWater

- ❖ Manufactured in 130nm CMOS: a sweet spot for analog/ mixed-signal designs
- ❖ Wafers will now be sliced into chips, packaged, tested and qualified
- ❖ Discussions with potential customers are ramping up as we approach production; strong interest in IoT, power management and mixed-signal ICs
- ❖ SkyWater customers can now use chips for testing and prototyping ahead of qualification; can embed Weebit ReRAM IP in new product designs



The screenshot shows the SkyWater website page for 'IP Partner Weebit Nano'. The page features the SkyWater logo in the top left, navigation links for Services, Technologies, Markets, Resources, and About, and a 'Get Started' button. The main heading is 'IP Partner Weebit Nano' with a sub-heading 'We partner with Weebit Nano on ReRAM embedded NVM for innovative design'. Below this, the text reads 'Weebit ReRAM: Embedded NVM for Innovative Designs' and 'Differentiate your silicon with Weebit Resistive Random Access Memory, or ReRAM — an innovative emerging Non-Volatile Memory, or NVM technology. The technology is available in SkyWater 130nm CMOS process.' At the bottom, there is a green link: www.skywatertechnology.com/ip-partner-weebit-nano.

Successfully completed ReRAM memory module qualification

Qualification is a key step for every semiconductor product on each new target process

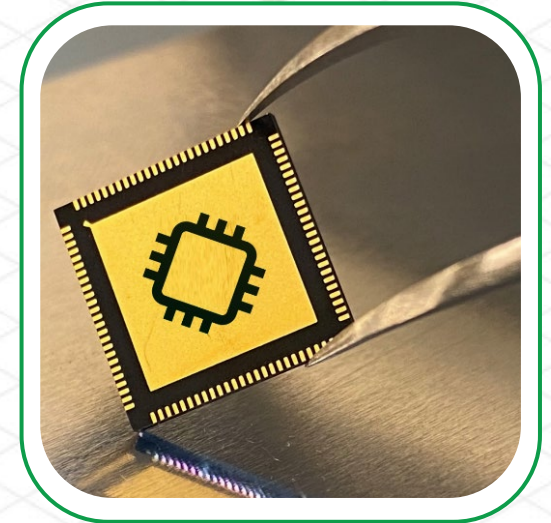
Qualified wafer lots met JEDEC microelectronics standards for endurance, retention, and SMT reflow at industrial temperatures

Results show repeatability, uniformity, and maturity of Weebit's embedded ReRAM
Significant/relevant for other foundries and potential customers

Based on results, Weebit is in various stages of discussion & evaluation with several Tier-1 fabs and potential customers

Weebit and Leti are now qualifying ReRAM module at even higher temperatures and endurance levels – required for some advanced applications

**Major milestone
using ReRAM
memory module
produced
at CEA-Leti**



ReRAM selector further enhanced to increase target applications

Weebit ReRAM selector now suitable for both embedded and discrete applications

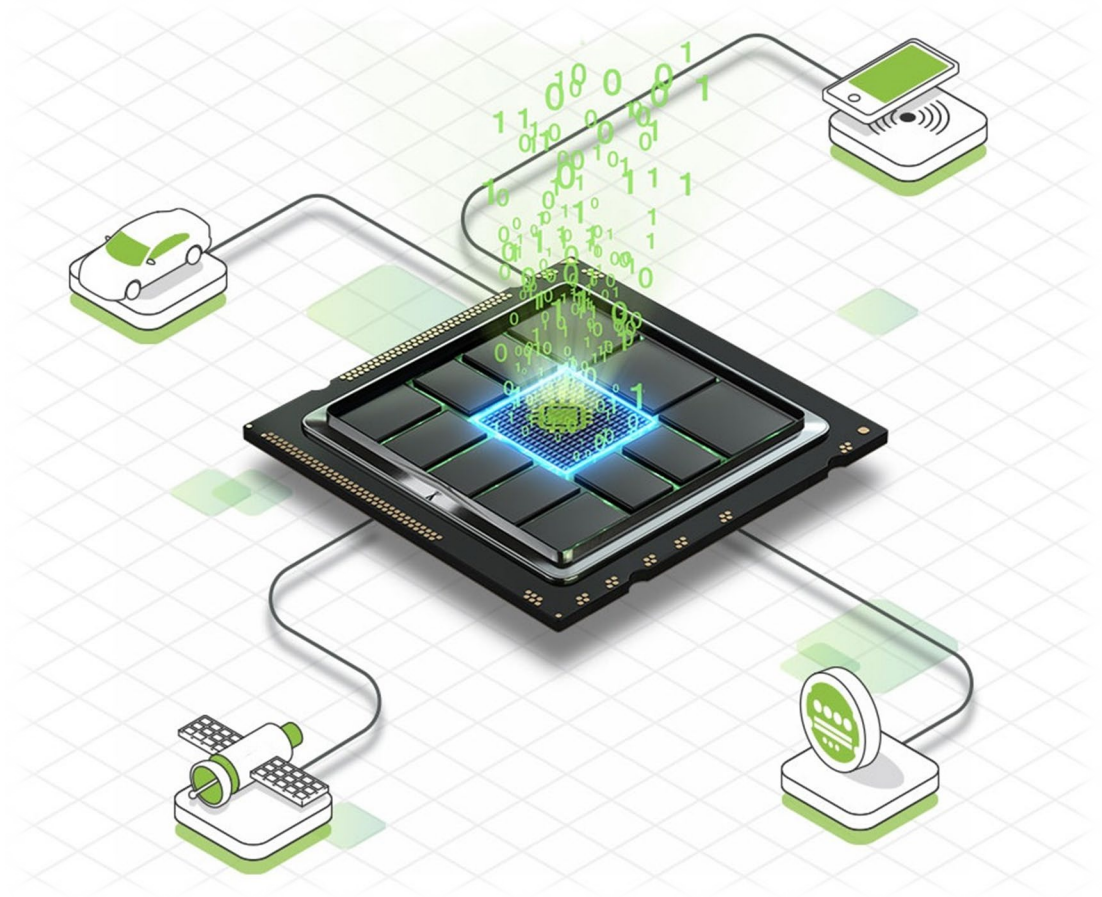
Significantly increases number of target applications

Suitable for future embedded applications that will benefit from higher densities

- ◆ e.g., edge AI and automotive

Able to achieve high densities needed for discrete chips while using fab-friendly materials and standard tools

- ◆ Paves the way for selector to be easily integrated into any CMOS fab
- ◆ Reduces manufacturing costs, complexity
- ◆ Can enable high-capacity memory arrays while keeping size and power requirements to a minimum
- ◆ Will enable 3D ReRAM in the future



Scaling Weebit ReRAM to 22nm

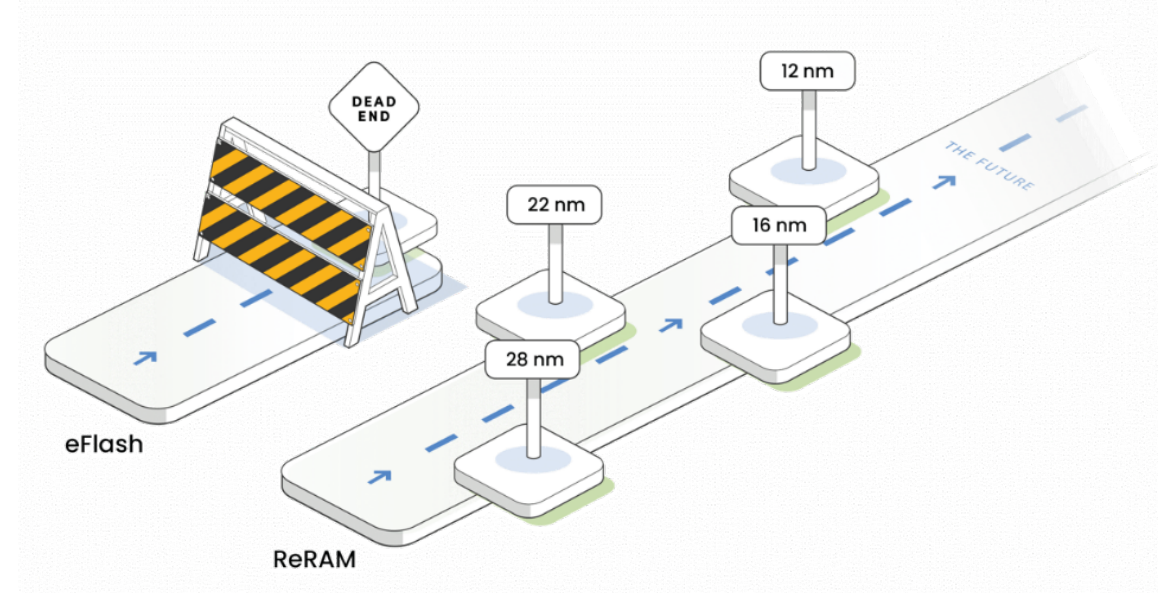
Addresses the need for new NVM at one of the industry's most common process nodes

Designing a full IP memory module targeting an advanced 22nm FD-SOI process

- ◆ FD-SOI: high performance at very low voltage/ low leakage; broadly adopted by the industry
- ◆ Weebit ReRAM + FD-SOI is ideal for low-power embedded devices

Rapidly accelerating plans to scale Weebit ReRAM to advanced nodes

- ◆ Where existing embedded flash technology is no longer a viable option
- ◆ Serving applications including IoT, 5G and AI
- ◆ Weebit is already discussing smaller geometries with Tier-1 fabs



Increasing market engagement

Progressing with Tier-1 fabs and customers

Tier-1 fabs experiencing increasing demand for advanced NVM; actively looking for suitable solutions

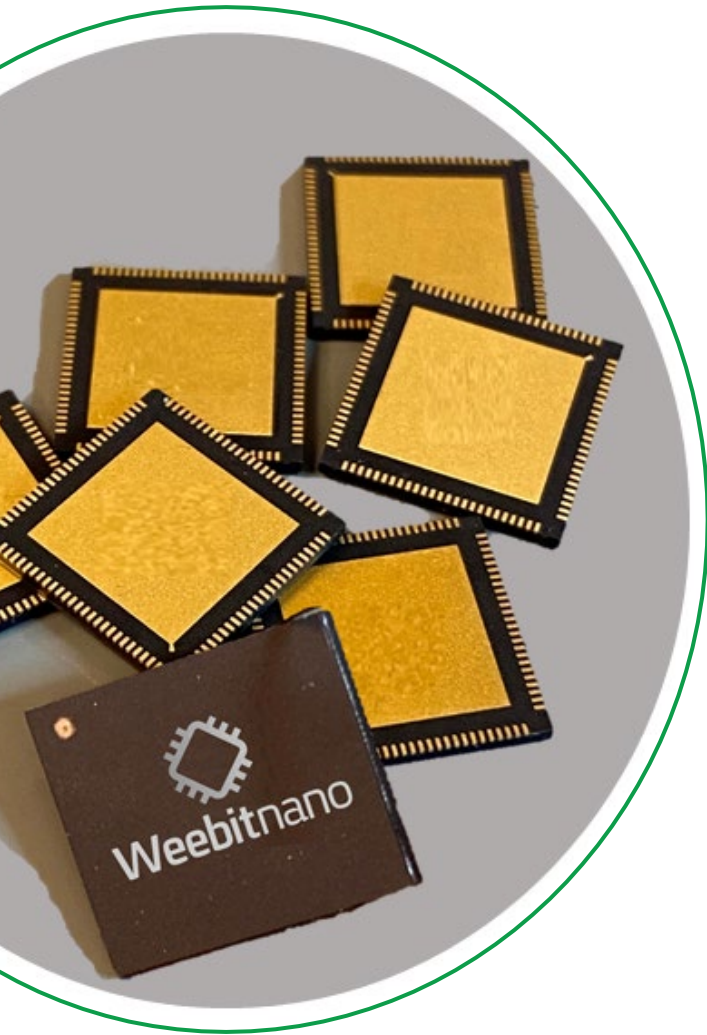
- ◆ Evaluation engagements very detailed and require significant work, but present real potential for expanding Weebit's commercial activities

Weebit exhibited and spoke at the Flash Memory Summit (FMS) 2022 – largest global conference for the NVM ecosystem

- ◆ Featured two live demonstrations of Weebit ReRAM



| Weebit Nano key targets for FY23



SkyWater

Conclude qualification of embedded ReRAM module at SkyWater



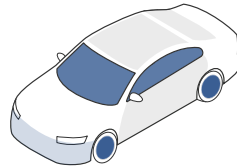
Fab Partners

Sign an agreement with a Tier-1 fab



Customers

Close initial customer agreements



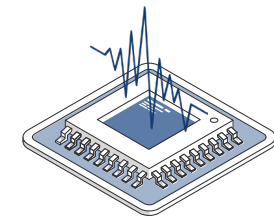
Automotive

Qualify the technology also for automotive operating conditions



Continue R&D

Further technical enhancements to the ReRAM cell and selector technologies



Scaling 22nm

Continue scaling down the technology to 22nm and beyond

Key takeaways

Weebit ReRAM: The Next NVM is Here!



The industry needs a new Non-Volatile Memory solution



Weebit ReRAM has unique advantages; is well positioned to replace flash in various markets



Making strong tech progress: 1st wafers from a production fab; qualified based on JEDEC standards

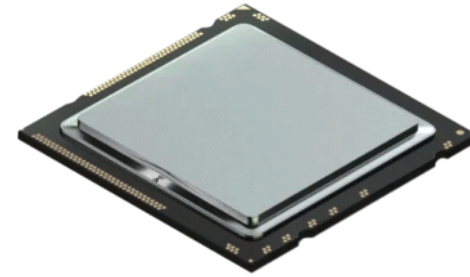


Board & mgmt. have extensive semiconductor commercialisation experience



Weebit is on track to deliver a production solution across a range of high-growth markets

| ReRAM IS HERE



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