

Weebit Nano investor presentation

18 March 2024 – Weebit Nano Ltd (**ASX: WBT, Weebit or Company**) Weebit Nano Limited (ASX:WBT, Weebit or Company), a leading developer of advanced memory technologies for the global semiconductor industry, has released the attached investor presentation to be delivered by Chair Dadi Perlmutter and CEO Coby Hanoch when meeting with investors in Australia this week, including the retail investor briefings.

Details of the retail investor briefing events are listed below:

Perth (in-person) with Chair Dadi Perlmutter & CEO Coby Hanoch

- Date: Monday, 18 March 2024
- Time: 11:00am (AWST)
- Location: The Vault @Riff, 45 St Georges Terrace, Perth

Melbourne (in-person) with Chair Dadi Perlmutter & CEO Coby Hanoch

- Date: Tuesday, 19 March 2024
- Time: 12:30pm (AEDT)
- Location: KWM, Collins Arch, Level 27, 447 Collins Street, Melbourne

Sydney (in-person & virtual) with Chair Dadi Perlmutter & CEO Coby Hanoch

- Date: Thursday, 21 March 2024
- Time: 3:30pm (AEDT)
- Location: KWM, Level 61, Governor Phillip Tower, 1 Farrer Place, Sydney
- Virtual link: register [here](#)

Places are limited. To attend, investors must RSVP to Christopher Lay at christopher.lay@automicgroup.com.au.

This announcement has been authorised for release by the CEO of Weebit Nano Limited.

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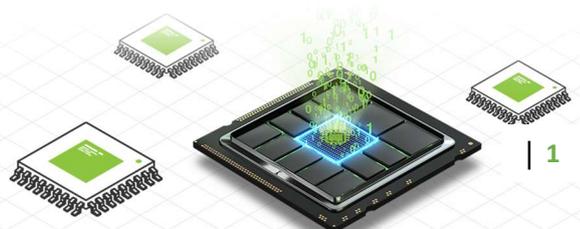
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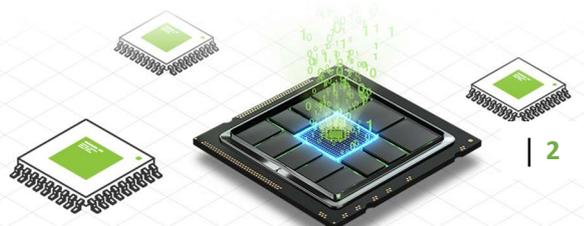
About Weebit Nano Limited

Weebit Nano Ltd. is a leading developer of advanced semiconductor memory technology. The company's ground-breaking Resistive RAM (ReRAM) addresses the growing need for significantly higher performance and lower power memory solutions in a range of new electronic products such as Internet of Things (IoT) devices, smartphones, robotics, autonomous vehicles, 5G communications and artificial intelligence.

Weebit's ReRAM allows semiconductor memory elements to be significantly faster, less expensive, more reliable and more energy efficient than those using existing flash memory solutions. As it is based on fab-friendly materials, Weebit ReRAM can be integrated within existing flows and processes faster and easier than other emerging technologies, without requiring special equipment or large investments.

See: www.weebit-nano.com

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We've Got What it Takes

March 2024 Investor Presentation



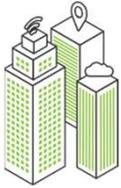


Introduction



Weebit: Leading Vendor of ReRAM IP

Advanced Non-Volatile Memory (NVM) Now Entering Production



Founded: 2015

Located: Israel & France
ASX: WBT



Multiple licensing deals

Licensed to 2 foundries, ongoing discussions & evaluations with other foundries and customers



World-leading team

50 personnel⁽¹⁾
(90% engineers/scientists)



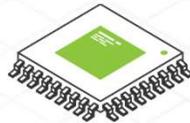
Greener NVM

Lower environmental impact than other types of NVM (GHG footprint, resources, materials)



R&D partner

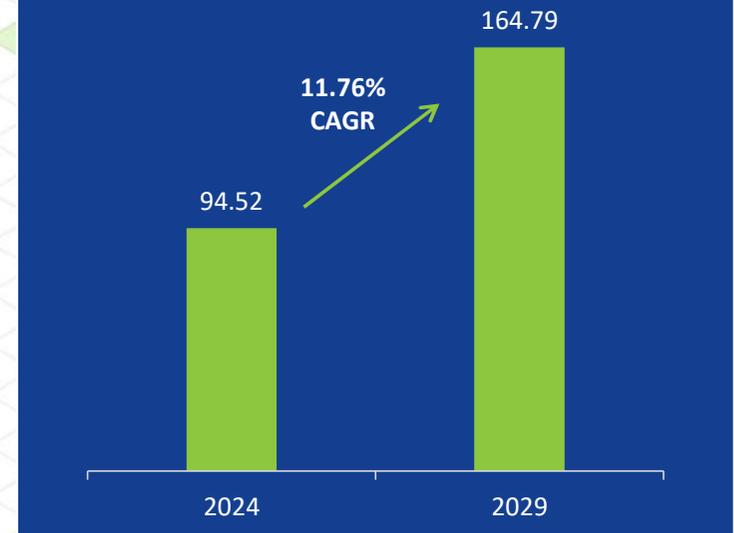
CEA-Leti, a leading microelectronics research institute



Proven, protected technology

Fully qualified per JEDEC; available for chip designers; 50 patents & applications

Global NVM Market* (US \$B)



MSCI 
Global Small Cap Index

S&P/ASX 300

* Source: <https://www.mordorintelligence.com/industry-reports/non-volatile-memory-market>

(1) Includes employees and full-time contractors

Strong Board With World-renowned Semiconductor Industry Experience

**David (Dadi)
Perlmutter**
CHAIRMAN



**Dr. Yoav
Nissan-Cohen**
EXEC. DIRECTOR



Atiq Raza
NON-EXEC.
DIRECTOR



Naomi Simson
NON-EXEC.
DIRECTOR



Ashley Krongold
NON-EXEC.
DIRECTOR



Coby Hanoch
CEO



Strong & Experienced Management

Coby Hanoch
CEO



Ishai Naveh
CTO



Ilan Sever
VP R&D



Amir Regev
VP QUALITY &
RELIABILITY



Issachar Ohana
CRO



Eran Briman
VP MARKETING &
BUSINESS DEV.



Alla Felder
CFO



Introducing Weebit's New Chief Revenue Officer

IP industry veteran Issachar Ohana to drive sales as company focuses on revenue generation

- ❖ Responsible for driving and maximizing growth for Weebit ReRAM with global customers and partners
 - ◆ Will lead the sales organization as Weebit's business continues to expand
 - ◆ Based in Silicon Valley
- ❖ Brings to Weebit 25+ years' experience in sales and business development in IP companies
 - ◆ Previously Managing Partner at Gimmel Ventures; EVP of Worldwide Sales at CEVA and VP of Sales of DSP Group's Core Licensing Division
 - ◆ At NASDAQ-listed company CEVA, built a salesforce from the ground-up into a high-performing team achieving US\$135 million in revenue in 2022



Issachar Ohana, CRO



WeeBit ReRAM Memory Inherent Advantages

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

~100x



Faster programming time than flash

- ✓ Bit/byte addressable

3-4x



Lower added wafer cost vs. flash

- ✓ 2-mask adder
- ✓ Standard materials/tools

≤28nm



Scales to processes far
below limits of flash

- ✓ Proven @ 28nm & 22nm
- ✓ Scalable to lower nodes

150°C



Reliable for
automotive designs

- ✓ Grade-0 conditions and profiles

~350x



Better radiation tolerance vs. flash⁽¹⁾

- ✓ Also tolerant to EMI

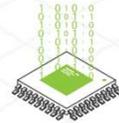
53%



Less minerals and metals
resource use vs. MRAM

- ✓ Greener technology
- ✓ No rare earth materials

Weebit ReRAM Addresses a Broad Range of Application Requirements



Example Applications:

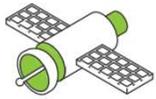
	Mixed-Signal / Power Mgmt Wireless charging; Motor control	IoT / MCUs Wearables; Smart cards	Edge AI Security cameras; Industrial	Automotive ECUs for sensors & controllers	Aerospace & Defense Flight safety systems; Satellites	Medical Implantables; Hearables; Disposable
Back-end-of-line tech for easy analog integration	✓					✓
Cost-efficiency	✓	✓	✓	✓		✓
Ultra-low power consumption	✓	✓	✓			✓
Robustness in high temp / extreme environments	✓	✓		✓	✓	
Scaling advantage at 28nm and below		✓	✓	✓		✓
High endurance	✓	✓		✓	✓	✓
Small footprint	✓		✓	✓		✓
Longevity		✓		✓	✓	✓
Roadmap to neuromorphic computing			✓			



Recent Achievements



Significant Progress in Recent 12 Months



Research shows Weebit ReRAM insensitive to ionizing radiation

MAR 2023

JUL 2023

Weebit ReRAM qualified at 125°C



Licensed ReRAM to Top-tier foundry *DB HiTek*

OCT 2023



Received first *GlobalFoundries 22FDX®* wafers; functional

NOV 2023

Weebit ReRAM fully qualified 125°C in *SkyWater S130*



NOV 2023

Demonstrated extended automotive performance: 150°C; 100K cycles



FEB 2024

Major Operational Advancements in the Last 12 Months

Driving Shareholder Value Creation



Weebit added to MSCI Global Small Cap Index

FEB 2023

MAR 2023

Weebit added to ASX 300

S&P/ASX 300



Raised further AU\$60M; well funded for future growth

APR 2023

JUL 2023

Set up new Board committees

- ✓ Governance
- ✓ Remuneration
- ✓ Finance, Audit & Risk
- ✓ Strategy and Technology



Naomi Simson appointed to Board

AUG 2023

NOV 2023

Received first IP licensing revenue



Robust Performance under Extended Automotive Conditions

Weebit ReRAM demonstrates high reliability and endurance at extreme temperatures and after extensive cycling

- ❖ **Already qualified:** Weebit ReRAM module in SkyWater S130 is fully qualified up to 125°C, temperature specified for Grade-1 automotive
- ❖ **Now:** Weebit is demonstrating:
 - ◆ High-temp stability: **150°C lifetime operation**, including cycling & retention
 - 150°C is specified for Grade-0 automotive
 - ◆ High endurance: **100K cycles***
 - Required for modern vehicle designs



Results reaffirm viability of Weebit ReRAM for use in automotive and other applications requiring high-temp reliability and extended endurance

**flash equivalent*

Second Foundry to Adopt Weebit ReRAM; 1st License to a Tier-1 Foundry



- ❖ A global top-10 foundry HQ in South Korea
- ❖ One of world's top-tier foundries for analog & power ICs
- ❖ Annual revenue of US\$1.3 billion

- ❖ DB HiTek licensed Weebit ReRAM for its customers to integrate as NVM in their designs
 - ◆ Targeting 130nm BCD process – ideal for many analog, mixed-signal and power designs; applications in consumer, industrial and IoT
- ❖ DB HiTek's hundreds of customers will now have access to Weebit ReRAM
 - ◆ DB HiTek customers include Intel, Mitsubishi, Sony and Qualcomm
- ❖ Technology transfer to a DB HiTek production fab is underway
 - ◆ Next step: to qualify technology towards volume production



Above: a DB HiTek plant

Live ReRAM Demo on GlobalFoundries' 22FDX[®] Platform

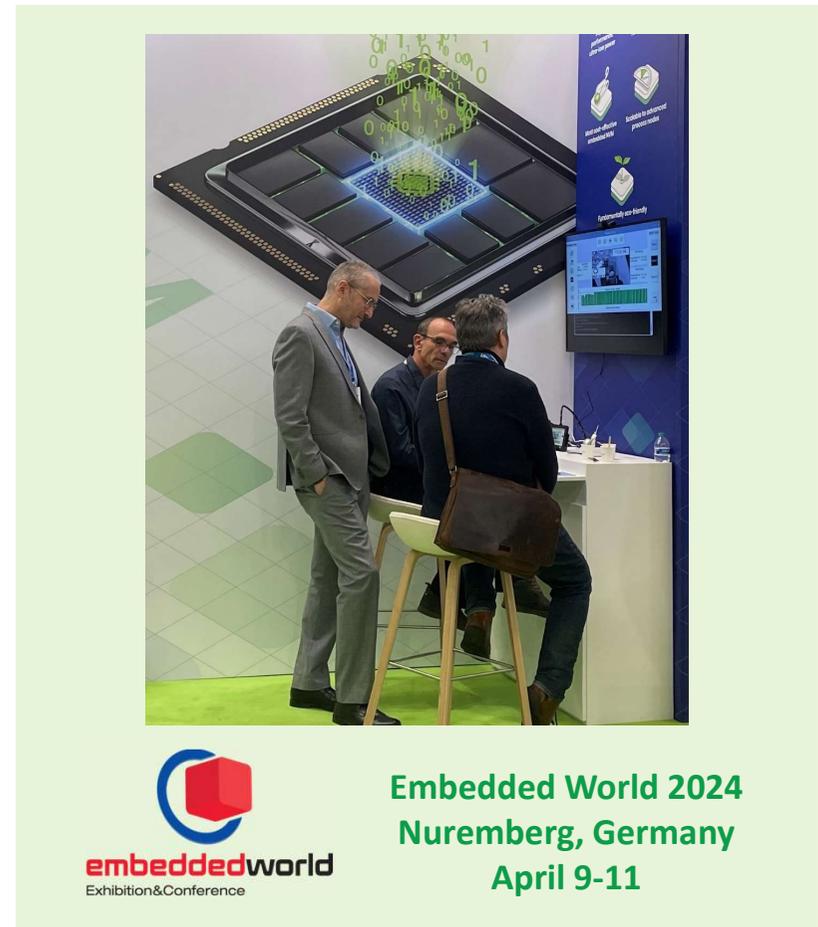
Weebit ReRAM Demo at Embedded World 2024

Weebit will show live ReRAM demo on GlobalFoundries' 22FDX[®] platform

- ◆ Shows ReRAM is a viable solution in this advanced geometry where embedded flash can't scale
- ◆ Highlights some of the many advantages of Weebit ReRAM

Weebit ReRAM module in 22nm FD-SOI process

- ◆ Largest memory capacity of any Weebit module to-date (8Mbit); implemented in the most advanced process so far





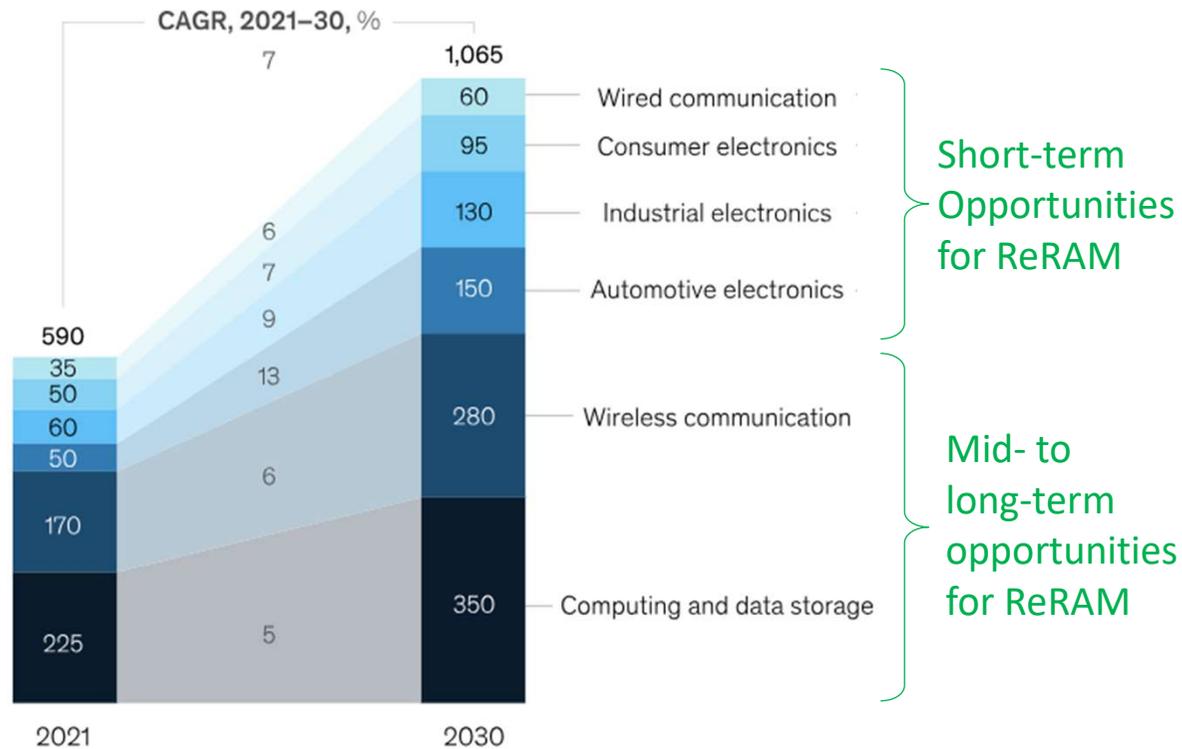
Huge Opportunities Ahead



The Global Semiconductor Industry is Projected to be a Trillion Dollar (USD) Industry by 2030

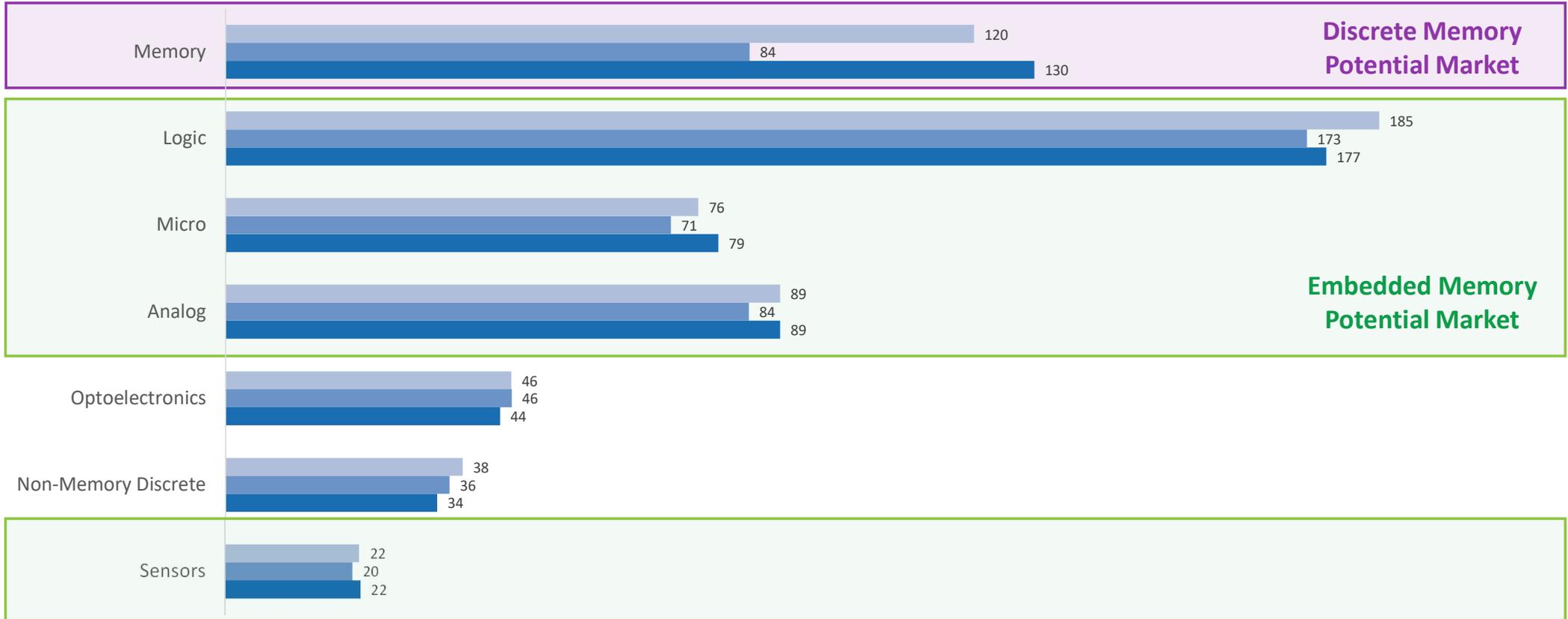
The overall growth in the global semiconductor market is driven by the automotive, data storage, and wireless industries.

Global semiconductor market value by vertical, indicative, \$ billion



Note: Figures are approximate.

Significant Market Opportunity for ReRAM Products



Source: WSTS May 2023

■ 2024 ■ 2023 ■ 2022

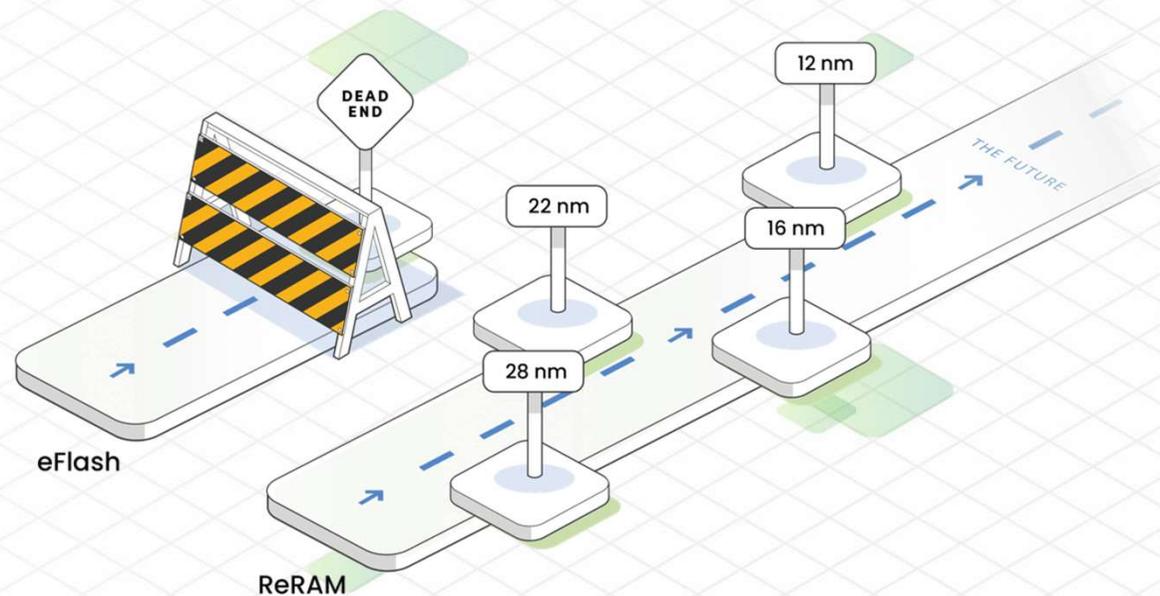
Numbers in Billions USD; Estimated for 2023 and 2024

Embedded NVM Market in Need of New Technology

One challenge is the **need of a new memory technology** that combines the best features of current memories in a fabrication technology compatible with CMOS process flow and **that can be scaled beyond the present limits of SRAM and FLASH.**

– International Roadmap for Devices and Systems, 2022 Edition

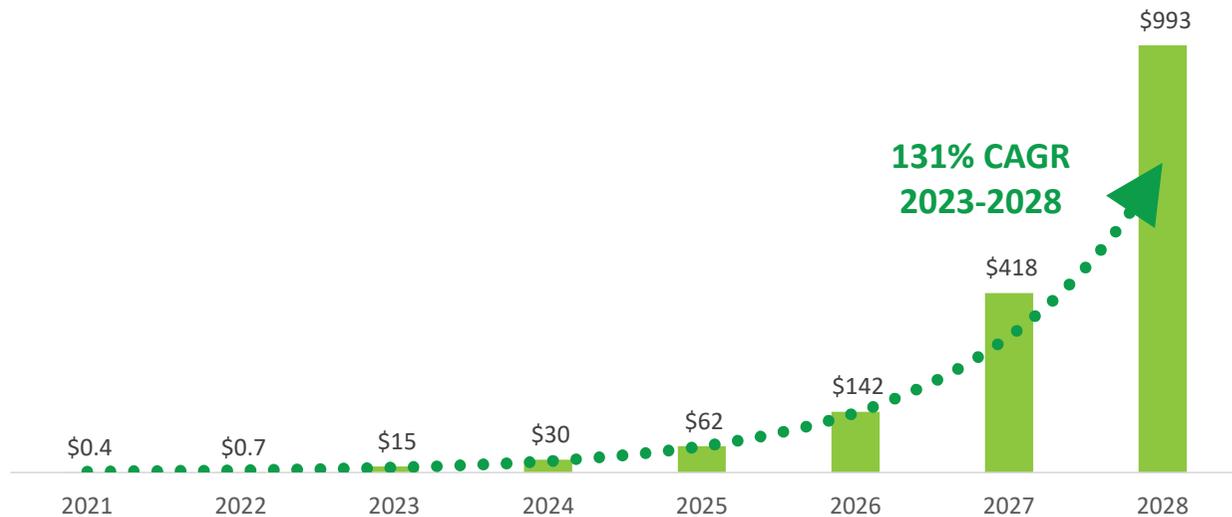
Embedded flash is running out of steam



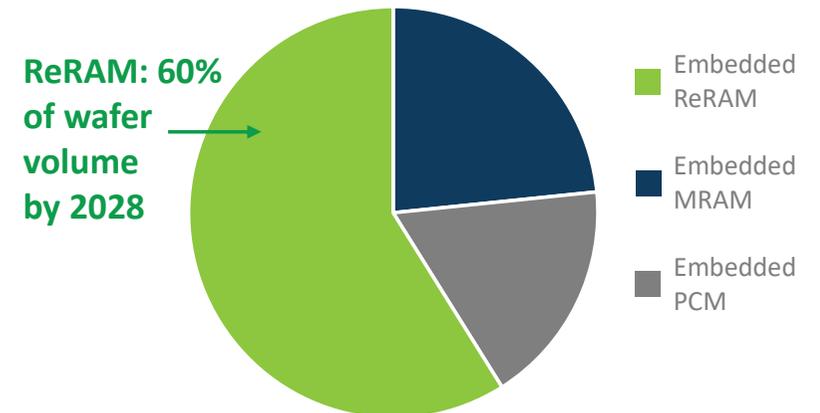
ReRAM is Emerging as The Leading Solution

The embedded emerging NVM market is expected to reach \$2.7B by 2028, with ReRAM expected to represent 37%*

Total Embedded ReRAM Market (in \$M)*



Market Volume in # of Eq. 12" Wafers 2028*



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

* Source: Emerging Non-Volatile Memory report, Yole Intelligence, 2023

ReRAM at the Heart of the Edge AI Revolution

Autonomous Driving



Security/Surveillance



Medical Devices



Industrial IoT



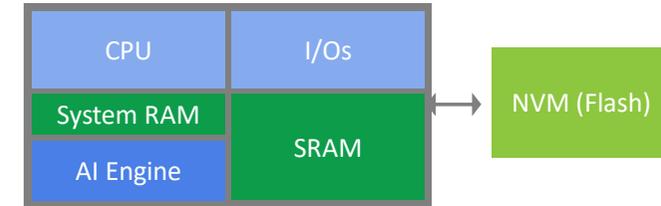
IoT



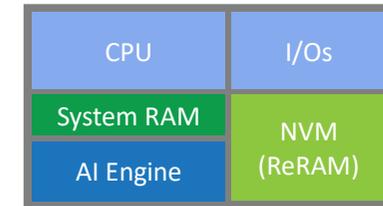
- **Higher performance:** faster response, better endurance
- **Ultra-low power:** significant effect on battery life
- **Higher density:** for code + data, 10s of Mbit
- **Enhanced security,** withstand side-channel attacks
- **Scalability <28nm** (where most new designs start)

Weebit ReRAM

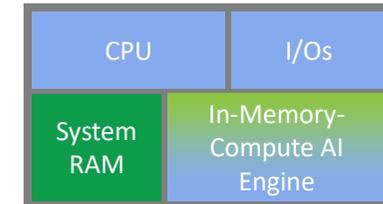
Today's 2 chip solution



1 chip with emb. ReRAM



Neuromorphic computing



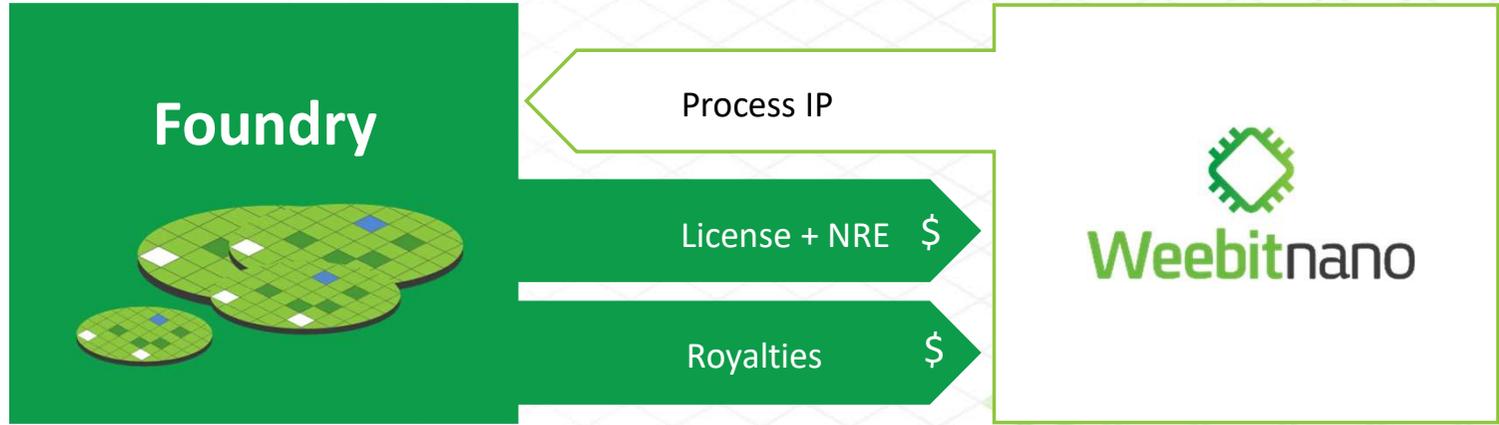
Every Foundry Deal Represents Multiple Customer Opportunities



Every Foundry Deal Represents Multiple Customer Opportunities



| IP Business Model



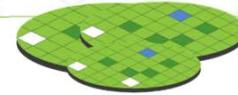


What's coming next?



Progressing with Foundries, IDMs and Product Companies

- ❖ In different levels of evaluation/negotiation with most of the top foundries and IDMs
 - ◆ Increasingly moving from technical evaluations to business discussions
- ❖ Making progress with product companies
- ❖ Increased selective activity with China ecosystem
- ❖ Expect to sign more agreements in 2024
- ❖ CHIPS Act: Applying for government funded projects, as a partner in US & EU ecosystems



Top-10 Foundries*

- ① TSMC
- ② Samsung
- ③ UMC
- ④ GlobalFoundries
- ⑤ SMIC
- ⑥ Hua Hong (HLMC)
- ⑦ PSMC
- ⑧ VIS
- ⑨ Tower
- ⑩ DB HiTek



Top-10 Integrated Device Manufacturers (IDMs)⁽¹⁾

- ① Samsung
- ② Intel
- ③ SK Hynix
- ④ Micron
- ⑤ Texas Instruments
- ⑥ Western Digital
- ⑦ Infineon
- ⑧ STMicroelectronics
- ⑨ NXP
- ⑩ Analog Devices

Weebit Nano Key Targets for FY24

Israeli tech delivers
NO MATTER WHAT



Revenues

Increase revenues from licensing and NRE



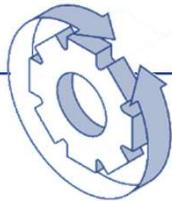
Fab Partners

Sign more agreements; Finalize tech transfer with DB HiTek



Customers

Close licensing agreements



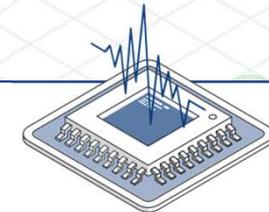
Qualification

Continue drive to qualify at higher endurance and broader temperature range



Continue R&D

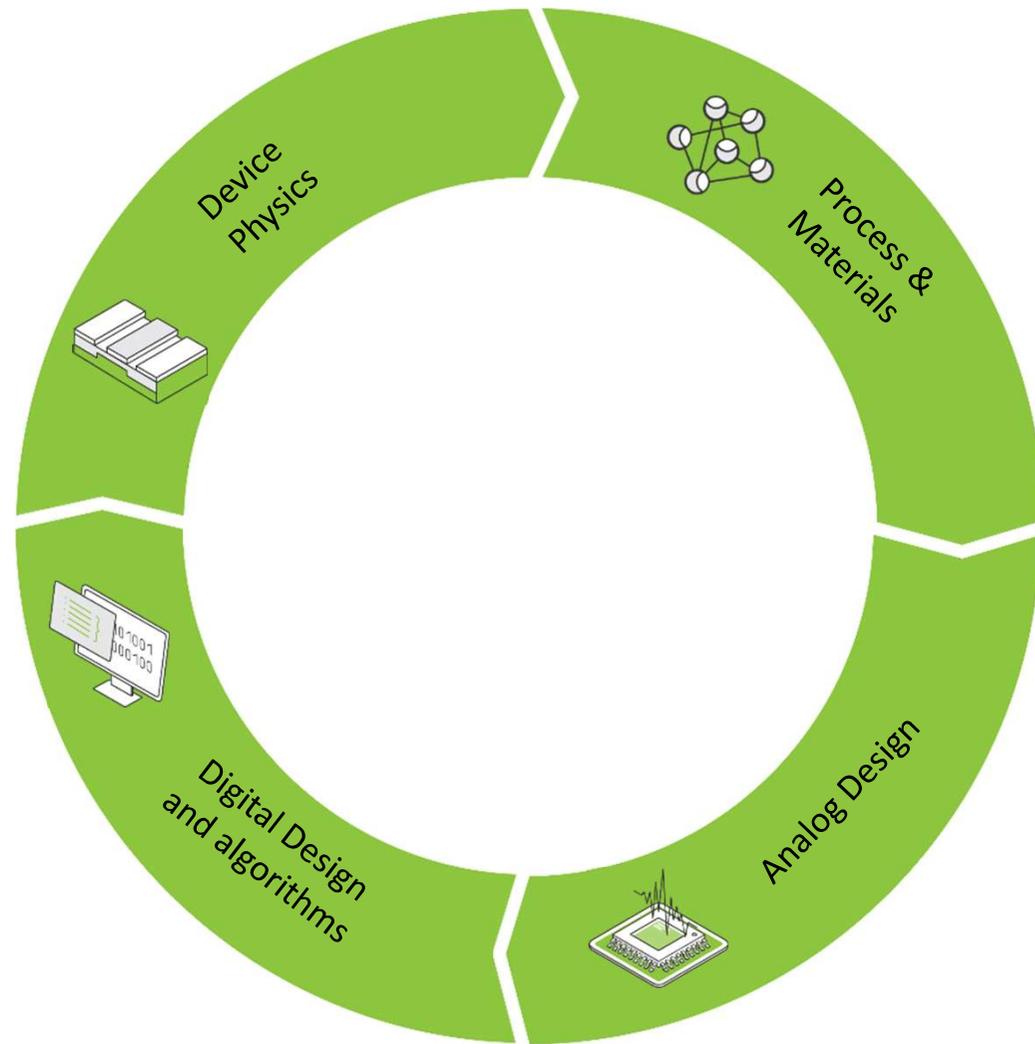
Further technical enhancements to ReRAM cell and selector technologies



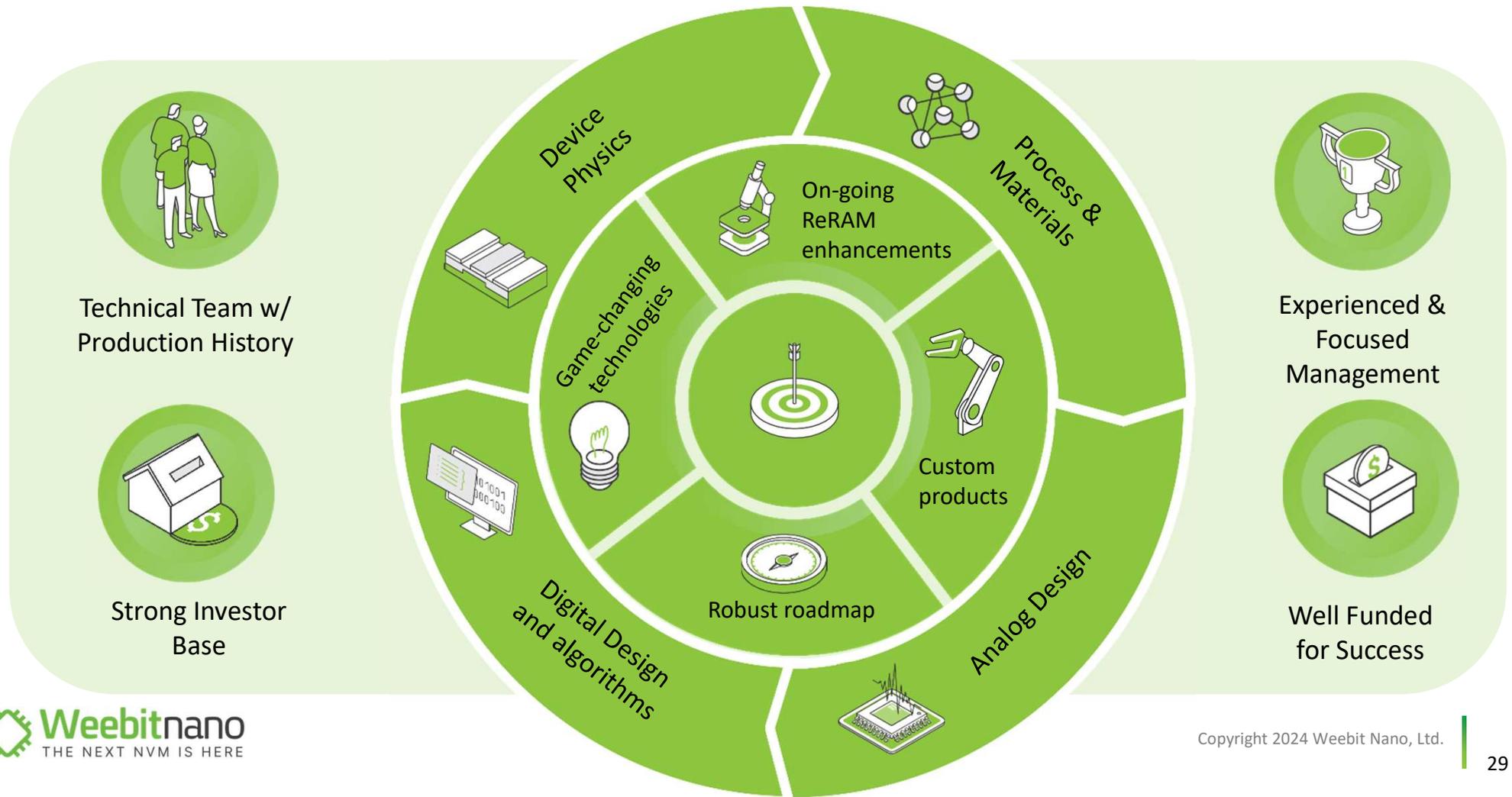
Scaling Technology

Continue scaling to various process nodes, including 22nm

| We've Got What it Takes



We've Got What it Takes



Thank You!

www.weebit-nano.com



 **Weebitnano**
THE NEXT NVM IS HERE