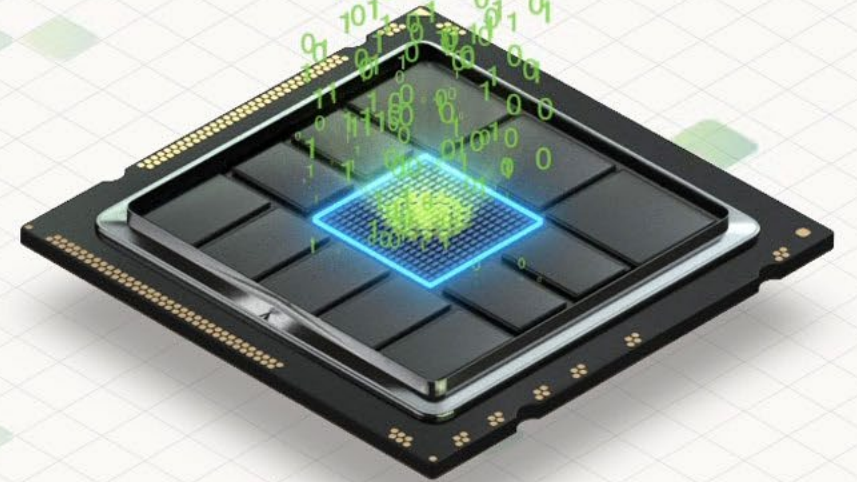




# Accelerating Progress with Commercial Deals

October 2024 Investor Presentation



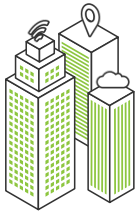


# Introduction



# Weebit: Leading Vendor of ReRAM IP

## Advanced Non-Volatile Memory (NVM) Now Entering Production



### Founded: 2015

Located: Israel & France  
50 personnel<sup>(1)</sup> (90% engineers/scientists; 13 PhDs)



### Multiple commercial deals

AU \$1million revenues received  
Ongoing discussions & evals with >12 foundries & customers



### Business model

IP licensing to semiconductor companies & fabs



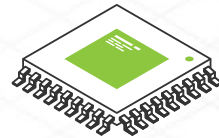
### Fast-growing markets

Edge AI, automotive, microcontrollers, power management/analog ICs...



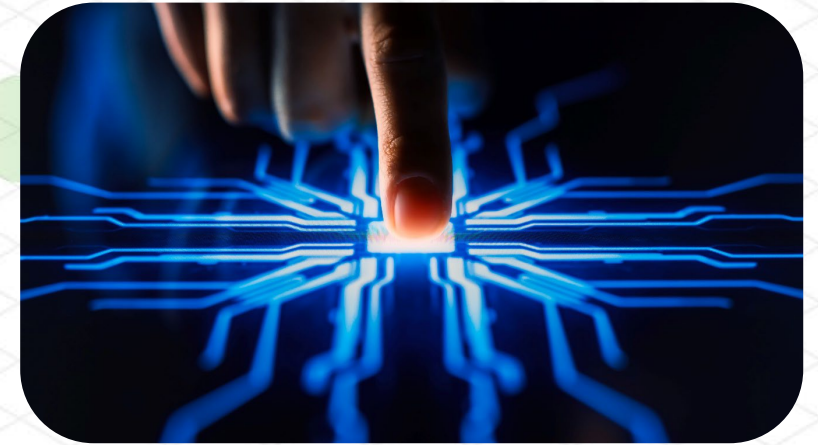
### R&D partner

CEA-Leti, a leading microelectronics research institute



### Proven, protected technology

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



ASX: WBT

S&P/ASX 300

MSCI  
Global Small Cap Index

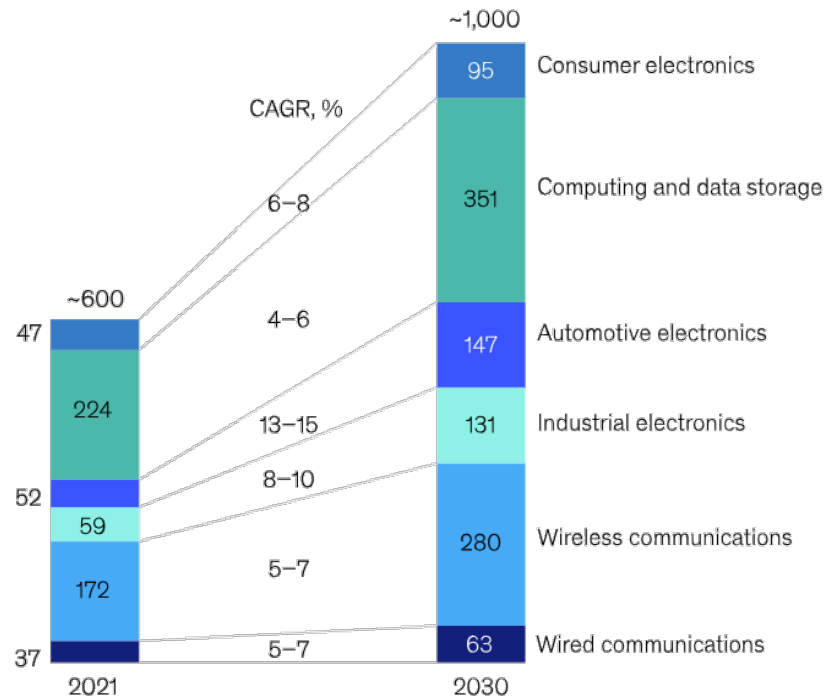
\* Source: <https://www.mordorintelligence.com/industry-reports/non-volatile-memory-market>  
(1) Includes employees and full-time contractors

# Semiconductors Represent an Incredible Opportunity

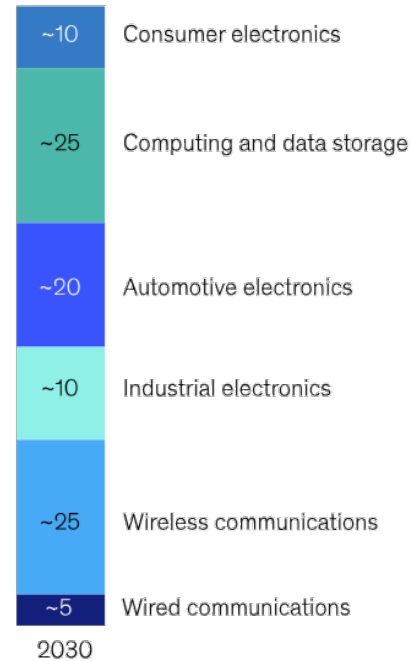
Semiconductors are everywhere, driving world markets

The semiconductor market is expected to reach \$1 trillion in value by 2030.

Global semiconductor market, \$ billion



Growth contribution per vertical, %



## Most of the world's top companies design or make semiconductors<sup>2</sup>

1. Microsoft
2. Apple
3. Nvidia
4. Alphabet
5. Amazon
6. Meta
7. TSMC
8. Berkshire Hathaway
9. Eli Lilly
10. Broadcom

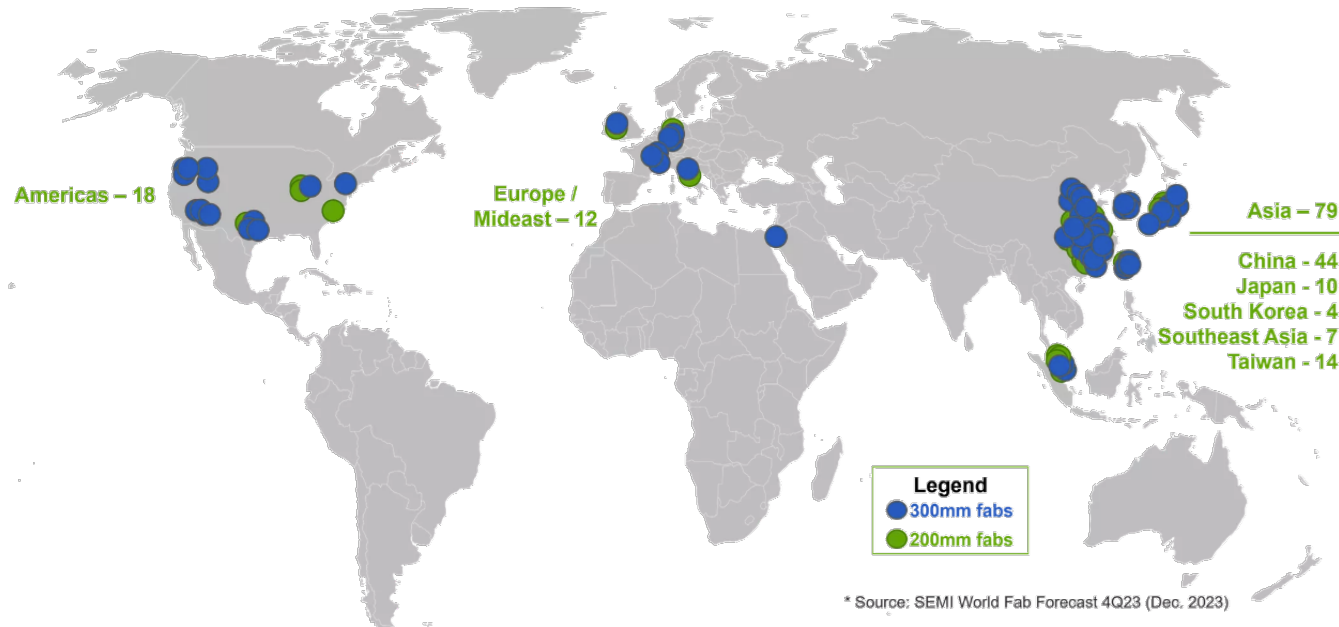
McKinsey & Company

(1) [https://www.mckinsey.com/~media/mckinsey/industries/semiconductors/our%20insights/mckinsey%20on%20semiconductors%202024/mck\\_semiconductors\\_2024\\_webpdf.pdf](https://www.mckinsey.com/~media/mckinsey/industries/semiconductors/our%20insights/mckinsey%20on%20semiconductors%202024/mck_semiconductors_2024_webpdf.pdf)  
 (2) By market cap as of June 30, 2024. [https://en.wikipedia.org/wiki/List\\_of\\_public\\_corporations\\_by\\_market\\_capitalization](https://en.wikipedia.org/wiki/List_of_public_corporations_by_market_capitalization)

# Investment in Semiconductors Ramping up Globally

A growing opportunity for IP solutions

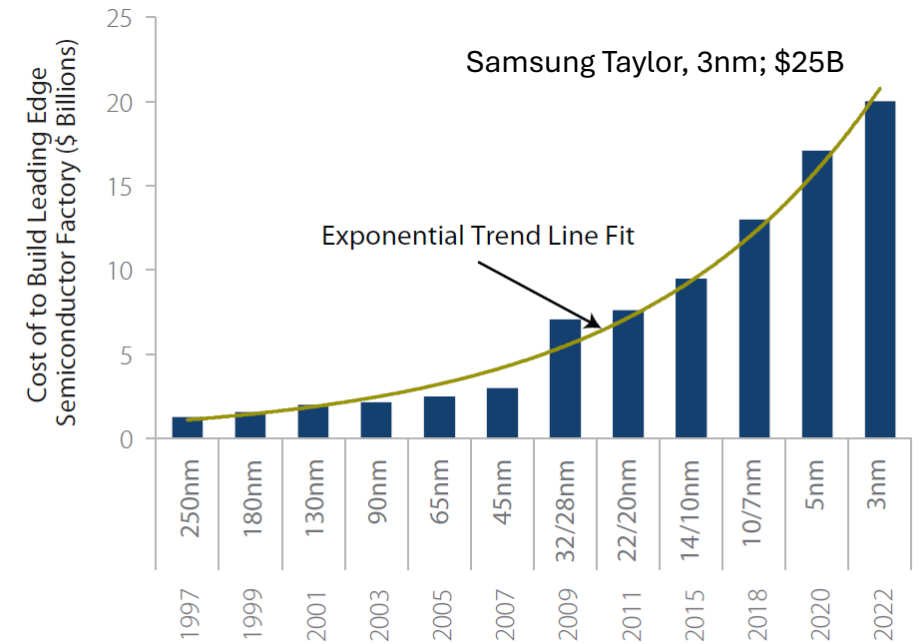
A record number of new fabs are coming online over the next couple of years<sup>1</sup>



SEMI World Fab Forecast: **109 new fabs worldwide** expected to come online 2022-2026

**\$800B** semiconductor fab investments 2021-2023<sup>2</sup>

Fab costs are skyrocketing; even the largest product companies license IP and use foundries<sup>3</sup>



Samsung Taylor, 3nm; \$25B

Exponential Trend Line Fit

# Strong Board With World-renowned Semiconductor Industry Experience

**David (Dadi) Perlmutter**  
CHAIRMAN



**Dr. Yoav Nissan-Cohen**  
NON-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

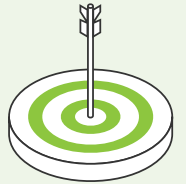


# The ReRAM Difference

ReRAM is the Emerging Memory Best Positioned to Lead the Next NVM Wave

		eFlash	MRAM	PCM	ReRAM
<b>Reliability</b>	High-temp reliability	●	●	●	●
	Radiation immunity	●	●	●	●
	EMI immunity	●	●	●	●
<b>Performance</b>	Low power consumption	●	●	●	●
	Fast programming	●	●	●	●
	High endurance	●	●	●	●
<b>Cost</b>	Production cost	●	●	●	●
	Contaminating materials	●	●	●	●
	Small module size	●	●	●	●
<b>Maturity</b>	Mature technology	●	●	●	●

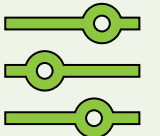
Weebit is the only independent provider of qualified ReRAM



We can license our technology to any fab\*



We can customize Weebit ReRAM per customer requirements



\* Except US blacklisted



# Recent Achievements



# Significant Progress in Last 12 Months

## As of Sept. 2023

- 1 commercial deal
- Engaged with a few foundries and IDMs

### Business Engagements

- 2 commercial deals
- Evals with **>20 foundries/IDMs/fabless cos worldwide**
- Partnering with **Efabless**
- Extending **China ecosystem**

## As of Sept. 2024

- Pre-revenue

### Revenue

- **>A\$1million revenues** received
- Added CRO Issachar Ohana and expanding sale org.

- 130nm: 2 full qual
- 28nm: demo
- 1xnm: Several FinFET nodes demonstrated
- Automotive Grade 1 qual

### Process Nodes/Qualifications

- **Only independent provider with qualified ReRAM**
- **130nm: 4 full quals; 1 new tape-out (DB HiTek)**
- **28nm/22nm: Demos and reliability results, ongoing**
- **1xnm: Evaluations continue**
- **Automotive: Grade 1 qual; Grade 0 demo**

# Proceeding Towards Qual with Second Foundry to Adopt Weebit ReRAM



- ❖ A global top-tier 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 customer integration
  - ◆ Targeting 130nm BCD process– ideal for many analog, mixed-signal and power designs; applications in consumer, industrial and IoT
- ❖ DB HiTek's 100s of customers will have access to Weebit ReRAM
  - ◆ Customers include Intel, Mitsubishi, Sony and Qualcomm
- ❖ **Taped-out ReRAM module** as part of technology transfer process
  - ◆ Weebit ReRAM is available now to select DB HiTek customers for design prototyping ahead of production
- ❖ Next step: **Qualify towards volume production in mid-2025**



Above: a DB HiTek plant

# Weebit ReRAM on GF 22nm FD-SOI Wafers

## Live demo of ReRAM module prototype on GlobalFoundries' 22FDX® wafers

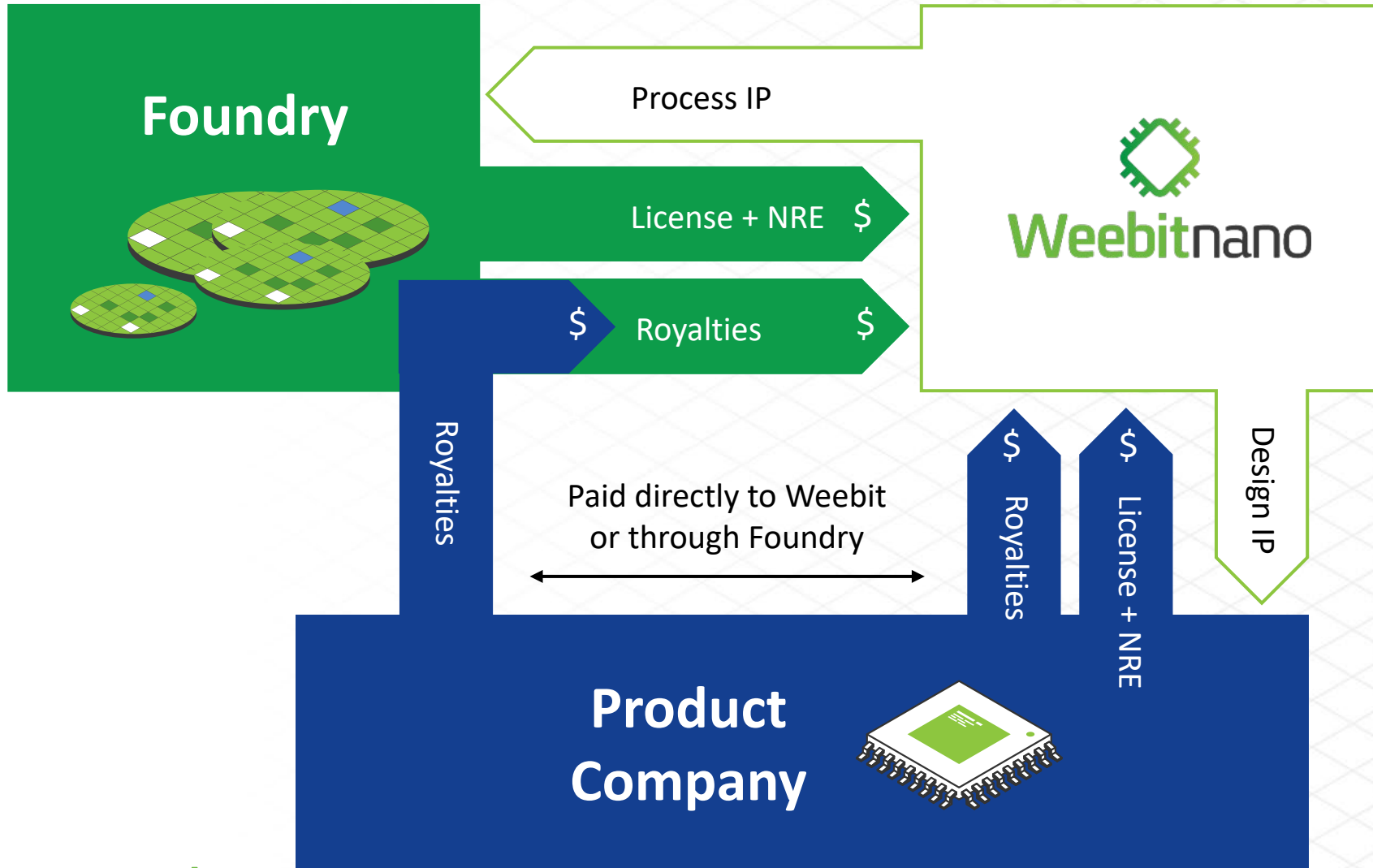
- ❖ Highlights some of the many advantages of Weebit ReRAM
  - ◆ E.g., scalability, low power, speed
- ❖ Shows ReRAM is a viable solution in this advanced geometry where embedded flash can't scale
- ❖ Demo very well received by the market
- ❖ Showing positive pre-qual performance results
- ❖ Characterization and qualification activities continue



**Watch the live demo!**

<https://www.youtube.com/watch?v=sEHRQVueS-s&t=6s>

# IP Business Model



## Benefits of IP Model

- ❖ Low COGS
  - ◆ Direct costs are associated with supporting and maintaining IP
  - ◆ No inventory
- ❖ High gross and operating margins
  - ◆ Once IP is created, it gets sold multiple times
  - ◆ Royalties go directly to the bottom line

# Every Foundry Deal Represents Multiple Customer Opportunities



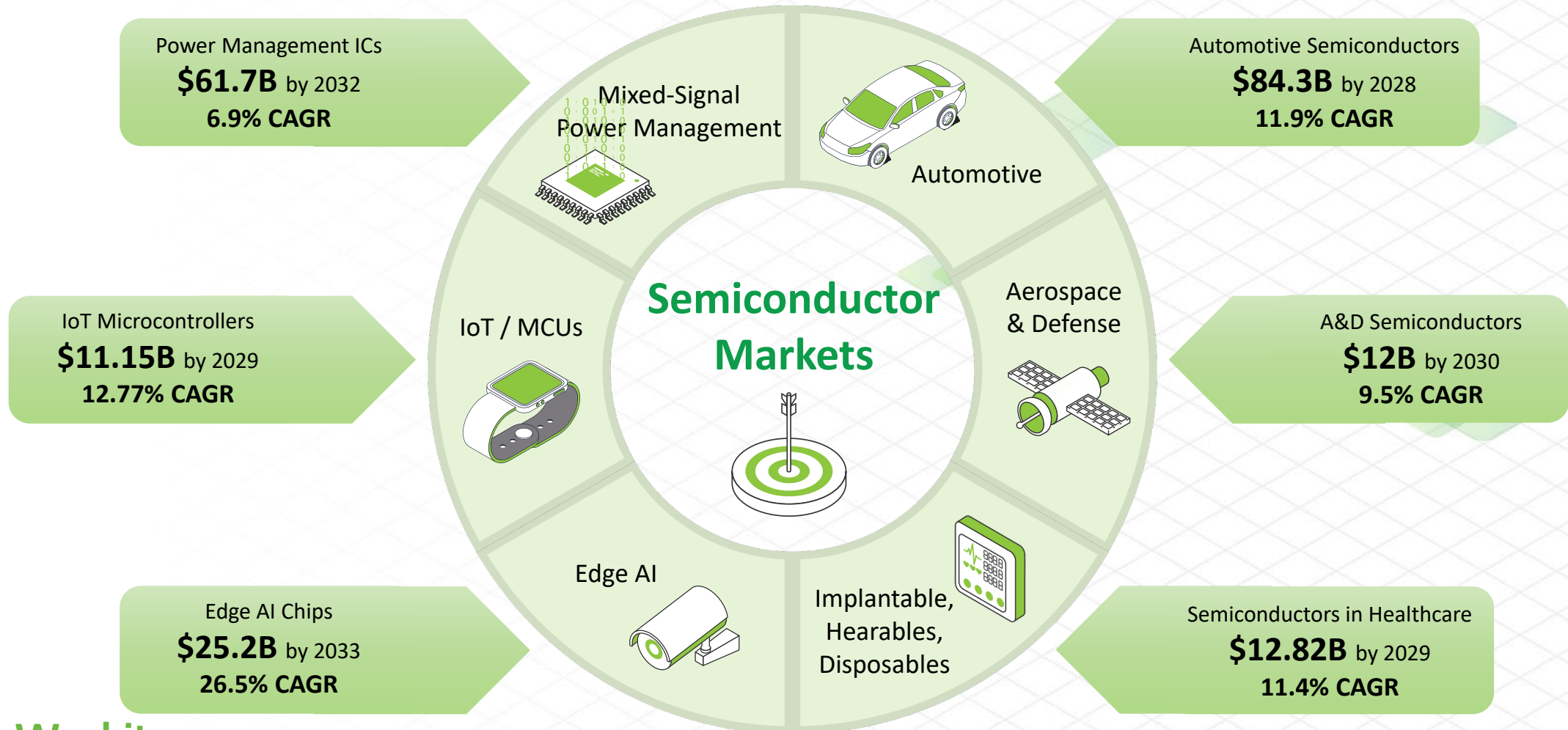


# Huge Opportunities Ahead



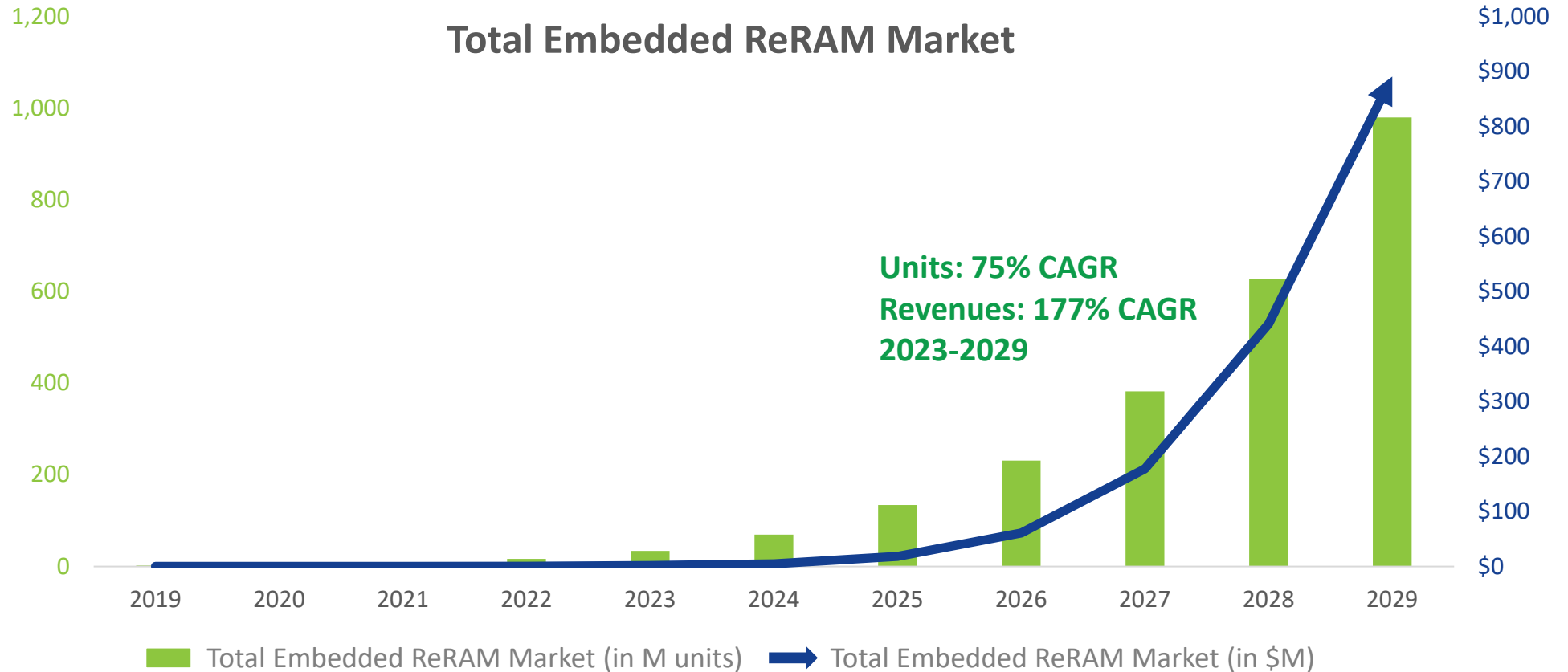
# Addressing Fast-Growing Semiconductor Markets

\$207.17 Billion TAM in Customer Markets



# The Growing Opportunity for ReRAM

Embedded ReRAM growing rapidly across numerous applications

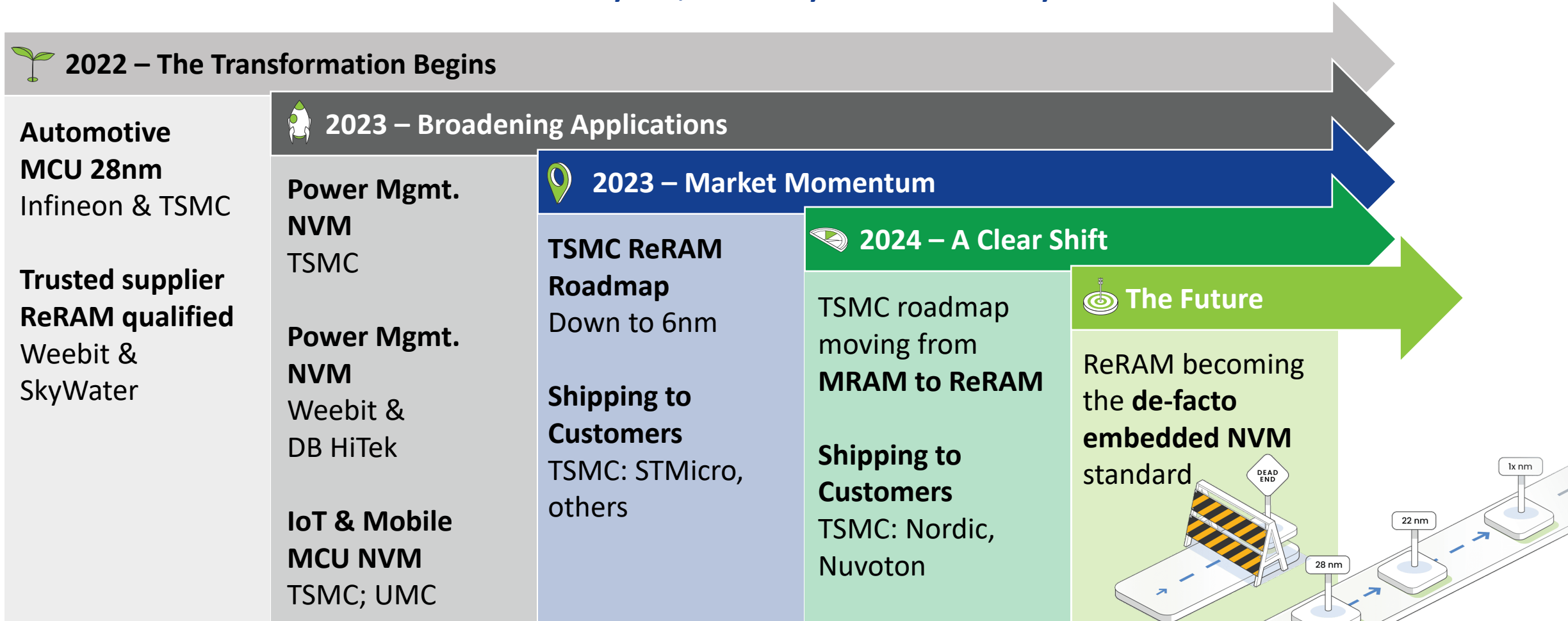


*Note: The embedded emerging NVM market size is evaluated based on assumptions of the average chip area occupied by a given memory technology (Yole)*

\* Source: Emerging Non-Volatile Memory report, Yole Intelligence, 2024

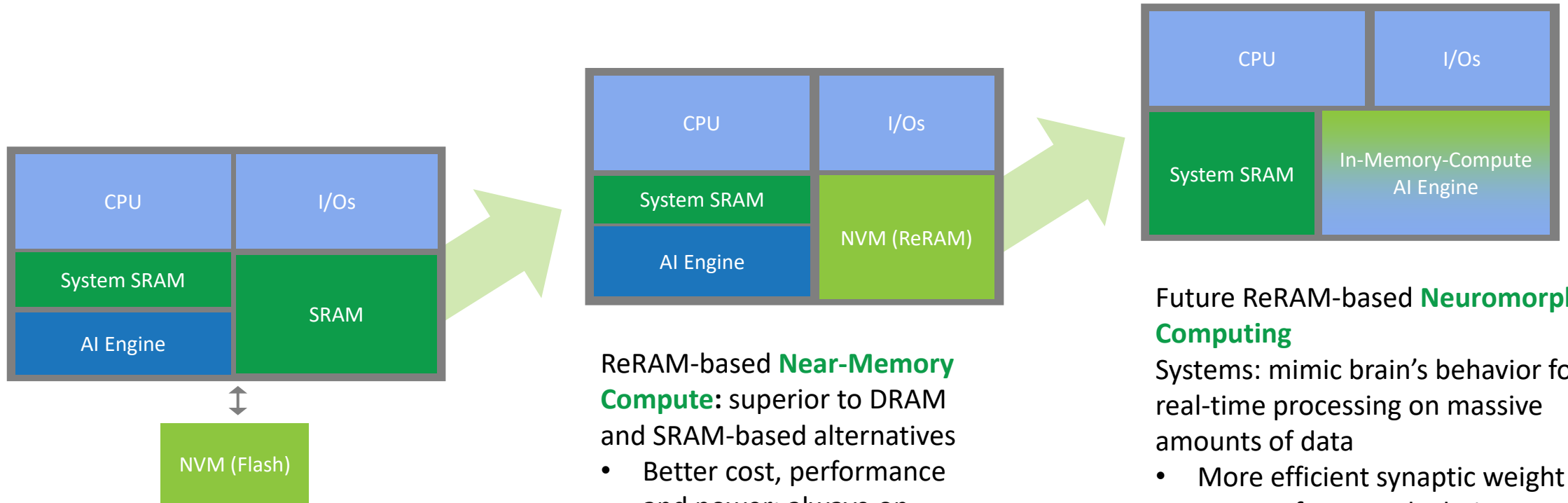
# The Transformation of the Embedded NVM Market

The market has transitioned over the last 1-2 years, and today it is clear to everyone that ReRAM is it!



\* Source: Emerging Non-Volatile Memory report, Yole Intelligence, 2023 and 2024; Internal company information

# ReRAM to Drive Innovation for Edge AI and Future Neuromorphic Compute



## Today's **2-chip solution**

External NVM holds weights

Weights copied into SRAM

- Wasteful in terms of size & cost
- Prohibitive power

ReRAM-based **Near-Memory Compute**: superior to DRAM and SRAM-based alternatives

- Better cost, performance and power; always-on availability
- Eliminates external NVM

## Future ReRAM-based **Neuromorphic Computing**

Systems: mimic brain's behavior for fast real-time processing on massive amounts of data

- More efficient synaptic weight storage for NN calculations: **4X greater capacity** than SRAM
- Three orders of magnitude (**x1000**) **better energy efficiency**

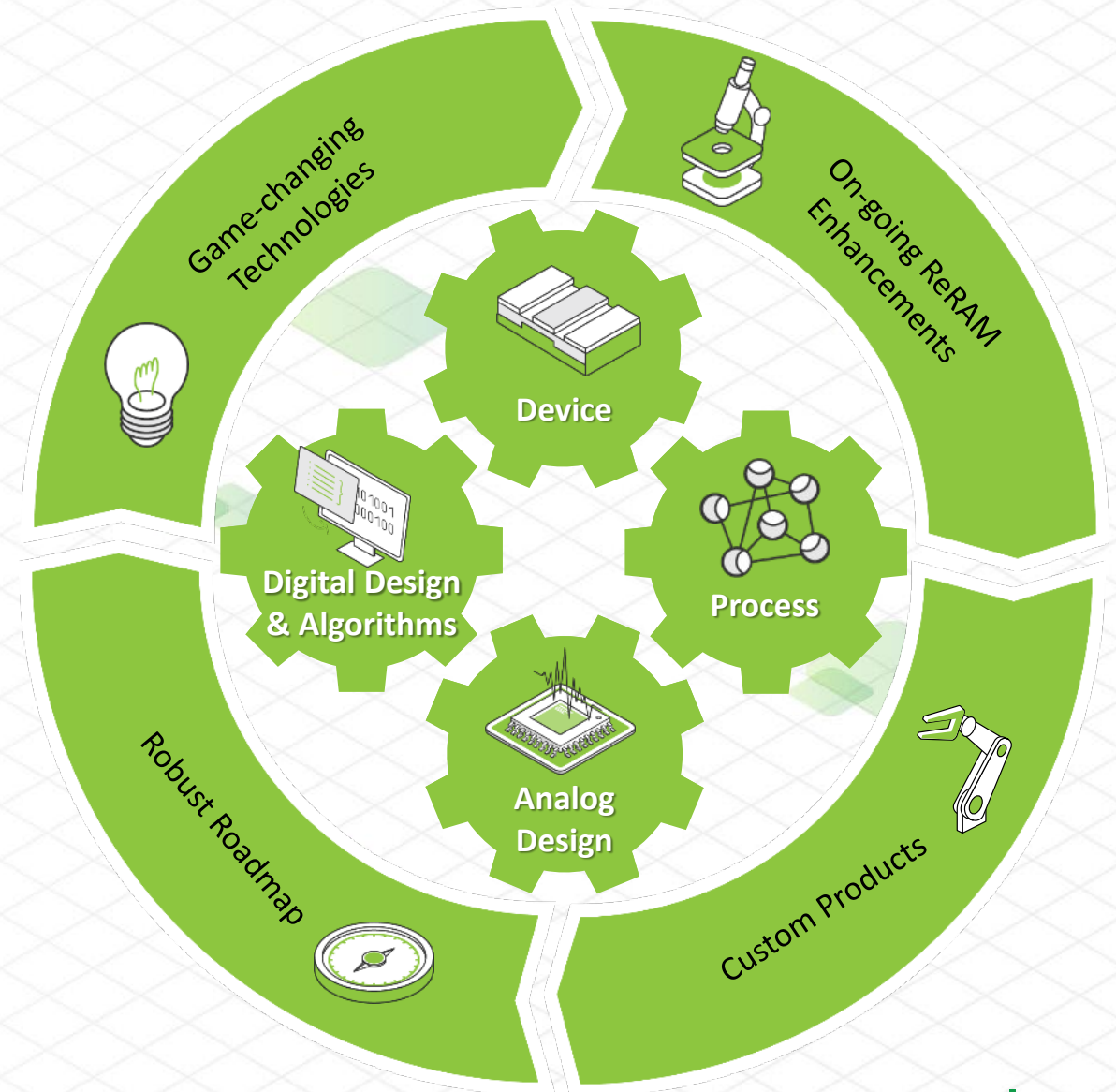
# We've Got What it Takes

State-of-the-art ReRAM requires intimate cooperation between the different disciplines

Precise characterization and rigorous testing ensure continuous improvements

- ❖ Test and characterization team enables fast adjustments → higher reliability/yield
- ❖ Advanced lab in-house enables very short loop

A focused, experienced, management team is critical





# 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

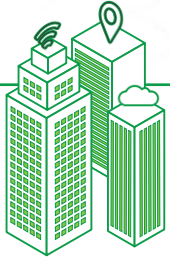
Expect to sign more agreements in 2025

Applying as a partner for government funded projects

## Leading Foundries and Integrated Device Manufacturers\*

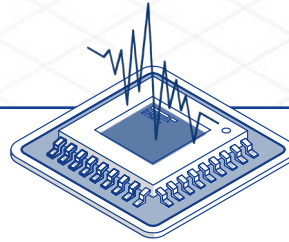
Infineon XMC STMicroelectronics Samsung  
TSMC Analog Devices Intel Hua Hong Group  
DB HiTek Tower PSMC onsemi Nexchip  
VIS UMC NXP Denso Bosch SMIC  
Sony Microchip Renesas Texas Instruments Winbond  
GlobalFoundries

# Weebit Nano Key Targets for CY 2025



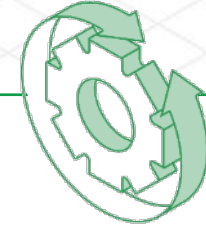
## Fabs

Three new  
licensing  
agreements



## Products

Three new  
agreements with  
product companies



## Qualification

Complete  
qualification at  
DB HiTek

**Delivering on these milestones will continue to cement Weebit's position as the leading independent provider of ReRAM technology**

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# Thank You!

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



 **Weebitnano**  
THE NEXT NVM IS HERE