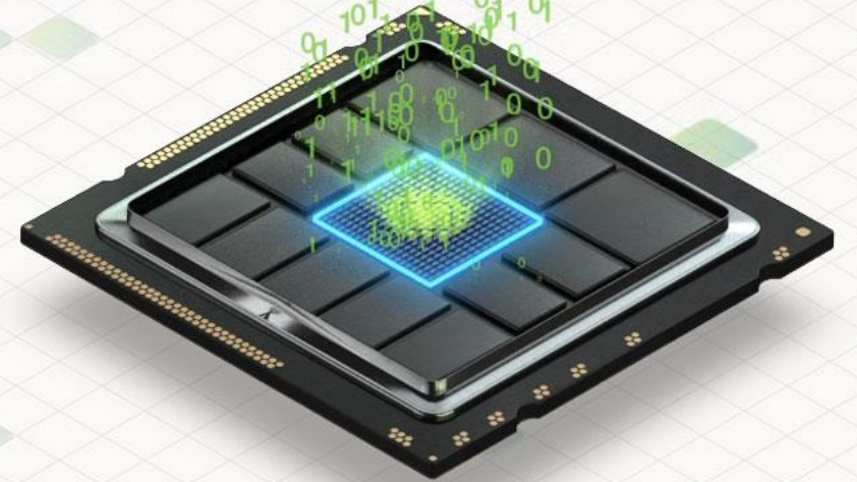




2025: Preparing for Rapid Growth

March 2025



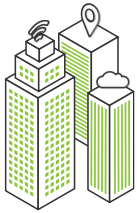


Introduction



| Weebit Overview: Leading Vendor of ReRAM IP

Advanced Non-Volatile Memory (NVM) Now Entering Production



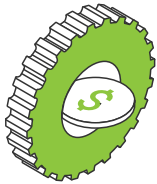
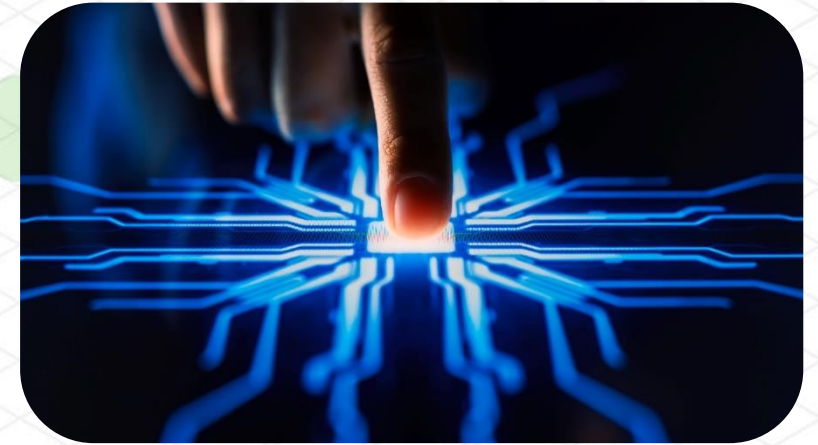
Founded: 2015

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



Multiple commercial deals

Including tier-1 IDM onsemi;
ongoing discussions/evals with >20 foundries/IDMs/product companies



Business model

IP licensing to semiconductor companies & fabs



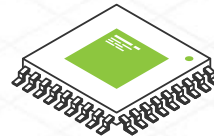
Fast-growing markets

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 and AEC-Q100; available for chip designers; 80+ patents/applications

ASX: WBT

S&P/ASX 300

MSCI
Global Small Cap Index

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

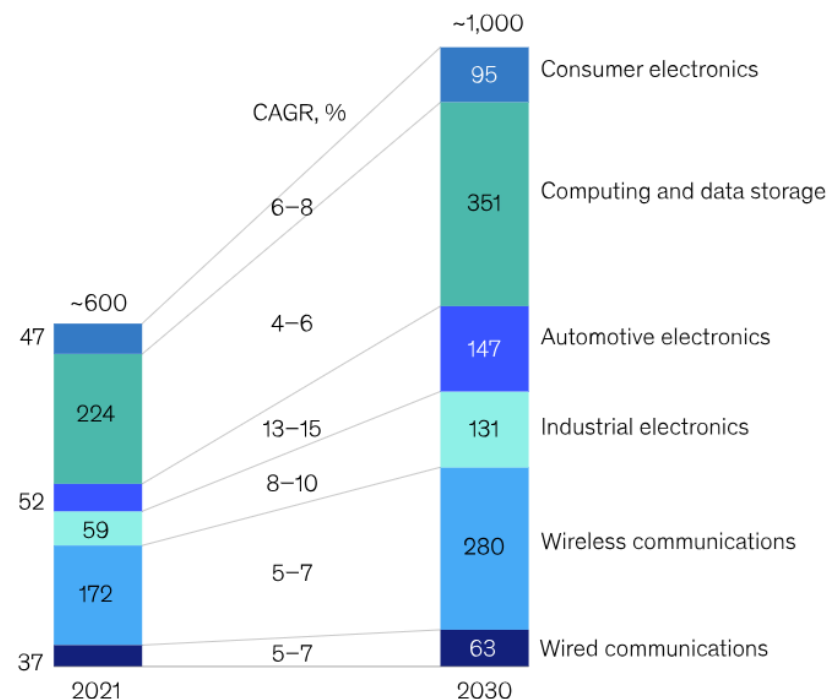
(1) Includes employees and full-time contractors

Semiconductors Represent an Incredible Global Opportunity

Semiconductors are everywhere, driving world markets

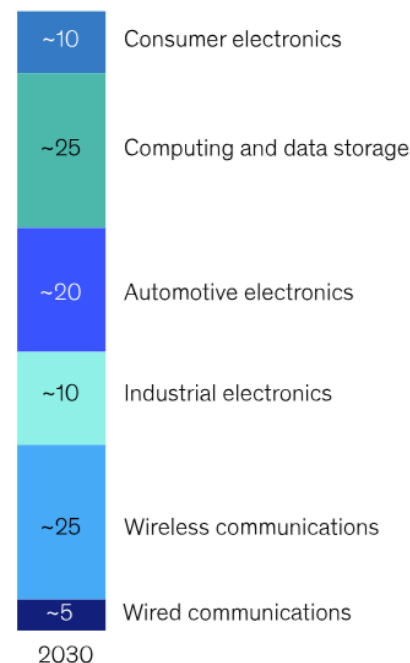
The semiconductor market is expected to reach \$1 trillion in value by 2030.*

Global semiconductor market, \$ billion



McKinsey & Company

Growth contribution per vertical, %



Most of the world's top companies design or make semiconductors²

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

(1) https://www.mckinsey.com/~/media/mckinsey/industries/semiconductors/our%20insights/mckinsey%20on%20semiconductors%202024/mck_semiconductors_2024_webpdf.pdf

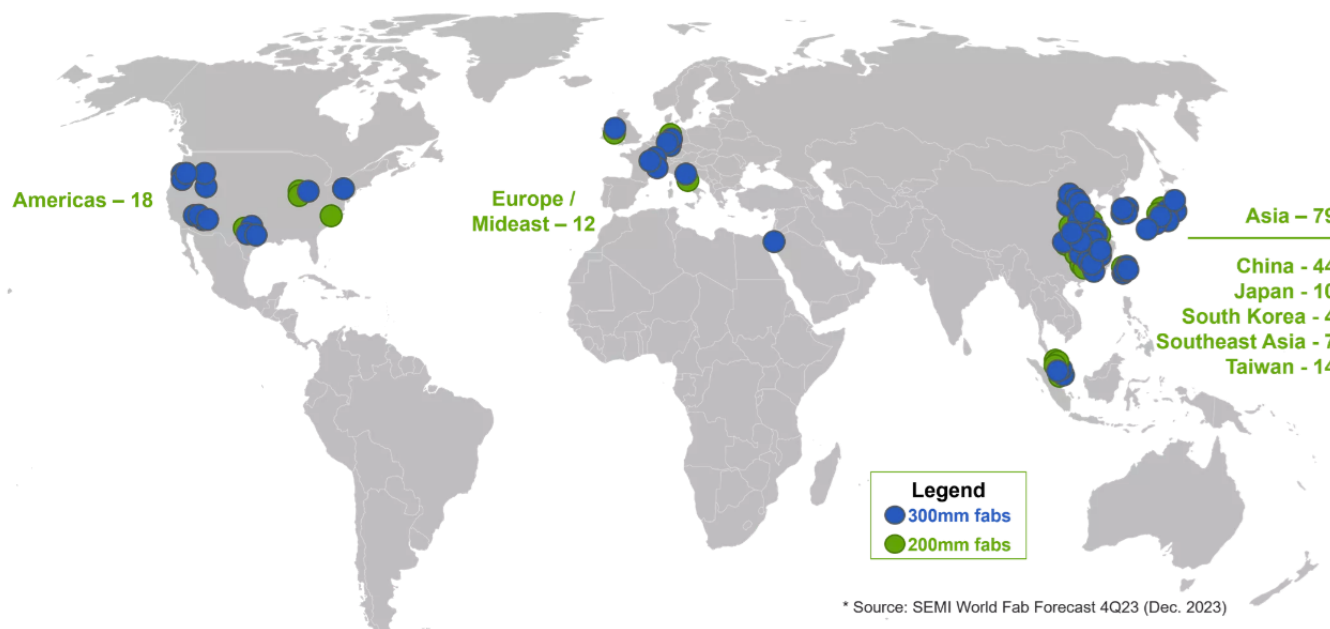
(2) By market cap as of December 30, 2024. https://en.wikipedia.org/wiki/List_of_public_corporations_by_market_capitalization

* \$USD

Investment in Semiconductors Ramping up Globally

A growing opportunity for IP solutions

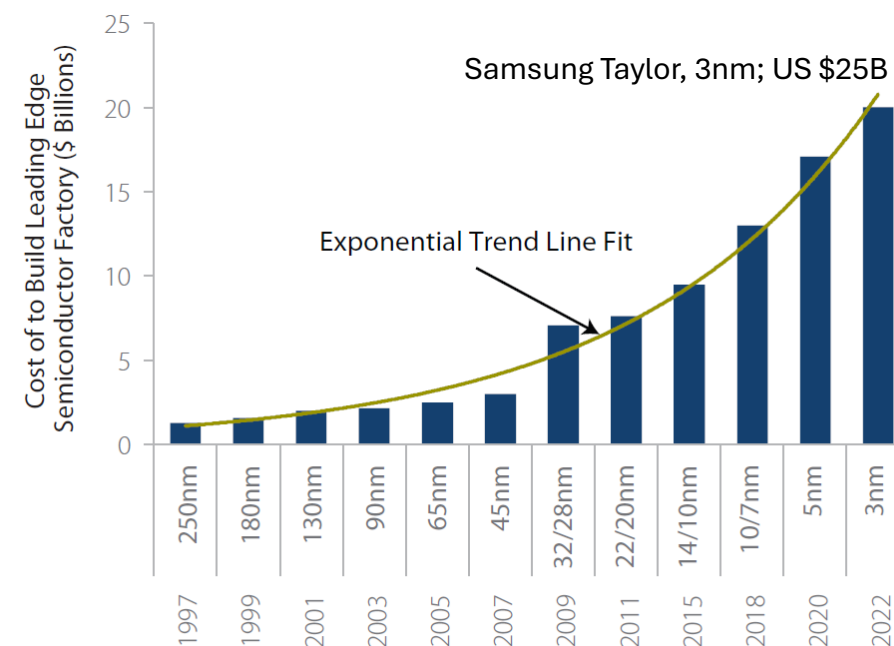
A record number of new fabs are coming online over the next couple of years¹



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

US \$800B semiconductor fab investments 2021-2023²

Fab costs are skyrocketing; even the largest product companies license IP and use foundries³



Source: Jefferies LLC

A Brief History of Non-Volatile Memory (NVM)

~2010

Flash Scaling Issues
Known

Alternatives Emerge

~2020

Choices Narrow

2024

Superior
Tech Wins

Today

ReRAM is Chosen
Flash Replacement



Microelectronic Engineering
Volume 86, Issue 3, March 2009, Pages 283-286



Future challenges of flash memory
technologies



The Memory Guy Blog

Jim Handy, Objective Analysis, on Semiconductor Memories

Home About Jim Handy Privacy Policy

Month: June 2012

The End of Flash Scaling

FeRAM

MRAM

CBRAM

ReRAM

PCM

3Dxpoint

Optane

Too expensive
Difficult to implement
Exotic materials

MRAM

Mass
Production

ReRAM

Multiple
Companies
Developing

MRAM

Magnetic
Issues

ReRAM

In Production;
Vendors
Shake Out

TSMC redirects its
roadmap from MRAM
to ReRAM



Weebitnano
THE NEXT NVM IS HERE

**The only
independent
ReRAM
supplier**

 **Weebitnano**
THE NEXT NVM IS HERE

Weebit Nano Proprietary

Weebit ReRAM Advantages



3-4x

Lower added wafer cost vs. embedded flash

- ✓ 2-mask adder (vs. ~10)
- ✓ Shorter CT, fewer steps



10x

Better endurance vs. embedded flash

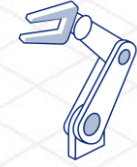
- ✓ Demo 100K-1M write cycles



~100x

More energy efficient vs. embedded flash

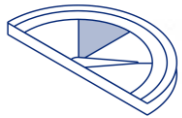
- ✓ Low voltage, low current write operations



<28nm

Scales to processes far below limits of flash

- ✓ Proven @ 28nm and 22nm
- ✓ Scalable **below**



>10x

Faster program time than embedded flash

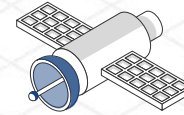
- ✓ Bit/byte addressable
- ✓ No sector erase



150°C

Reliable for Automotive designs

- ✓ Grade-0 conditions and profiles



~350x

Better radiation tolerance vs. flash¹

- ✓ Also tolerant to EMI

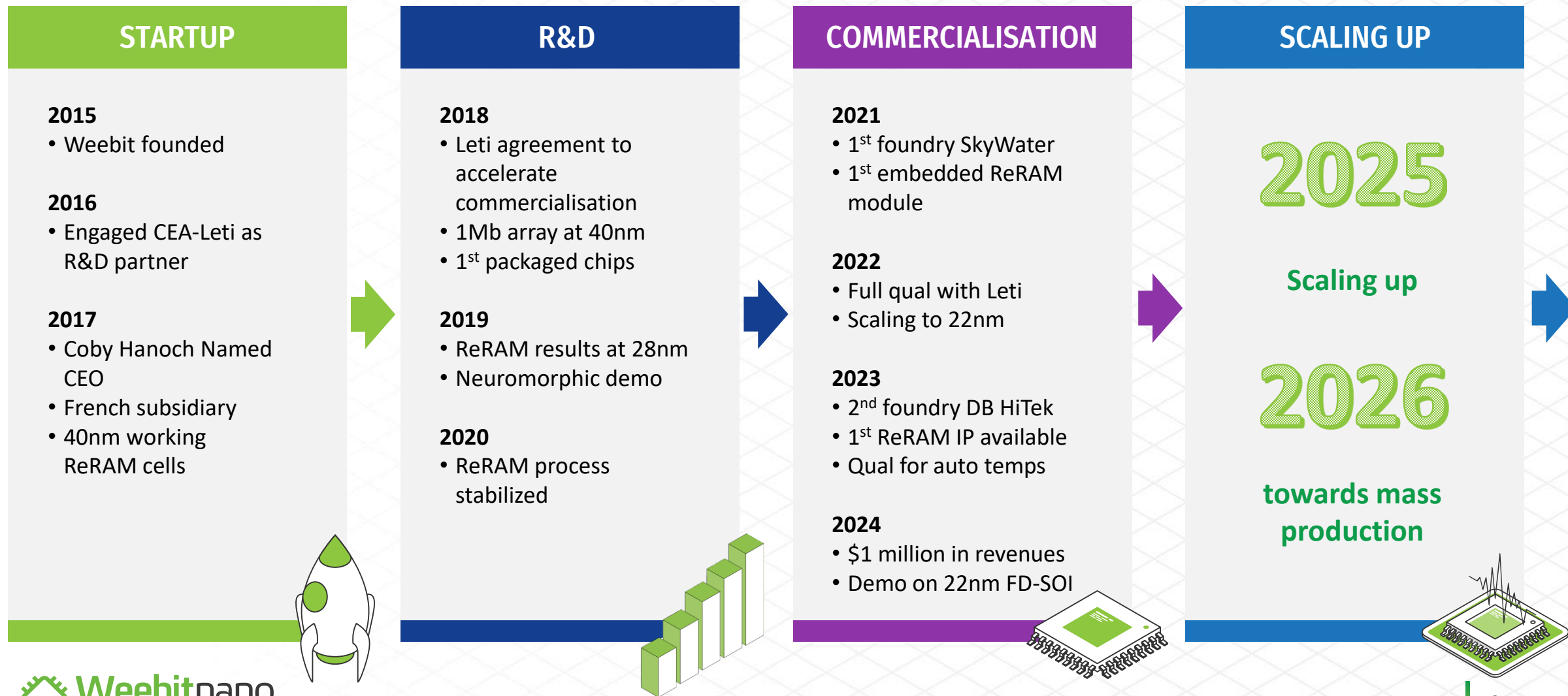


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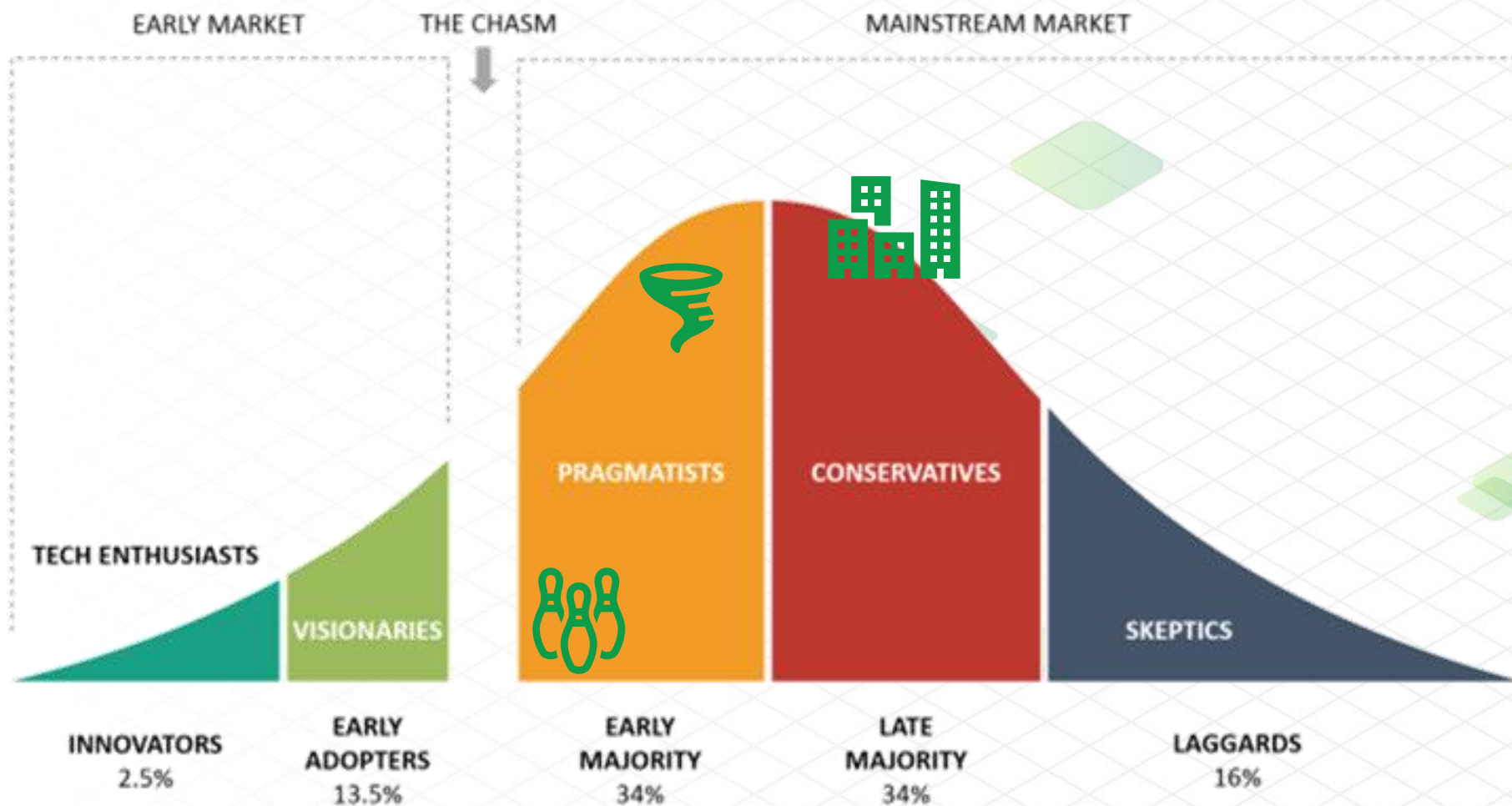
Interference w/ analog & power devices

- ✓ Best NVM for PMIC & mixed-signal

The Weebit Journey



Heading for the Tornado



Base image courtesy of <https://www.business-to-you.com/crossing-the-chasm-technology-adoption-life-cycle/>

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



**Anne Templeman-
Jones**
NON-EXEC.
DIRECTOR



Coby Hanoch
CEO



Strong and Experienced Management

Coby Hanoch
CEO



Alla Felder
CFO



Ishai Naveh
CTO



Ilan Sever
VP R&D



Lilach Zinger
VP CUSTOMER
SUCCESS



Issachar Ohana
CRO



Eran Briman
VP MARKETING &
BUSINESS DEV.



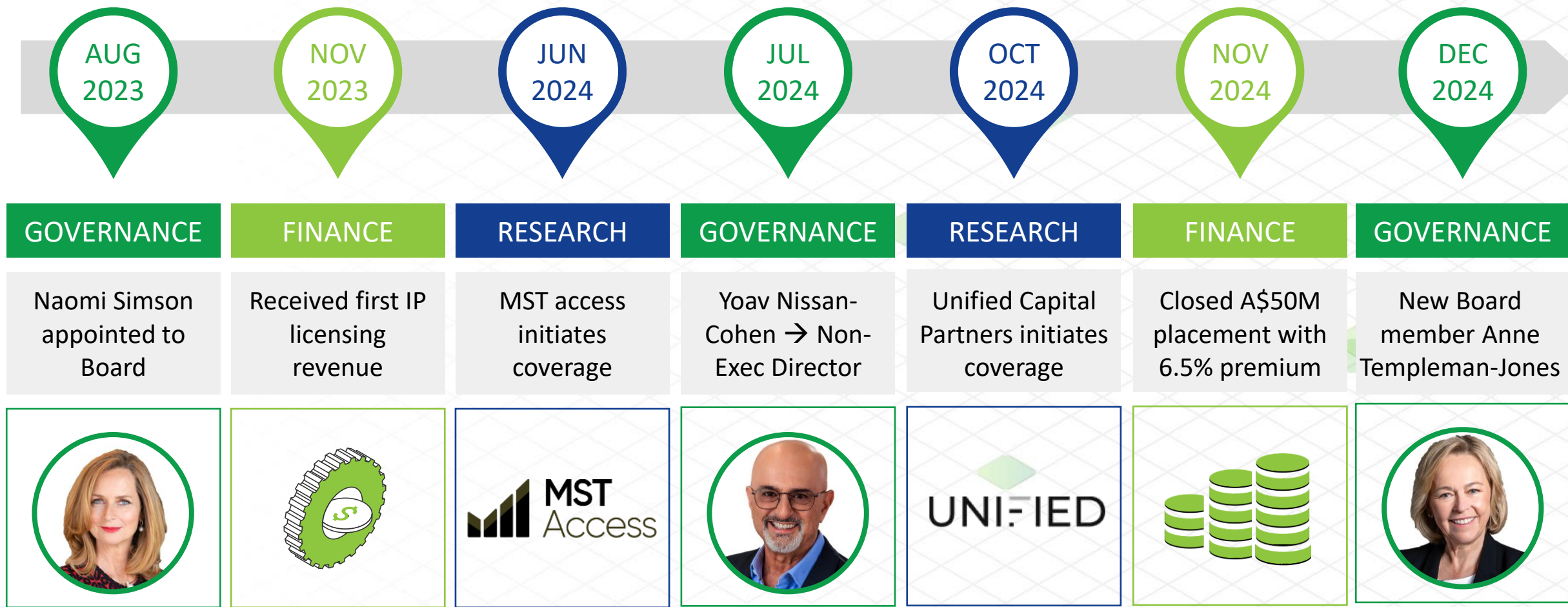


Recent Achievements

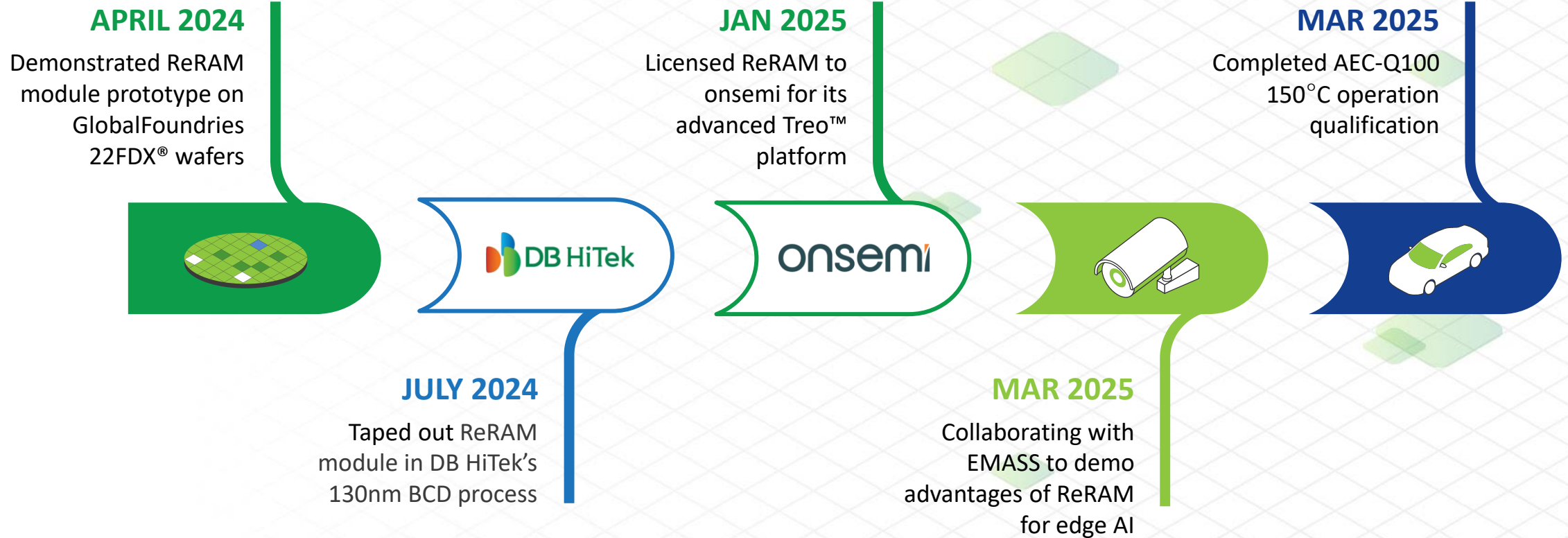


Major Recent Corporate Advancements

Think like an ASX100 company



Continued Technical Progress in Last 12 Months



onsemi Licenses Weebit ReRAM IP

Another proof point that ReRAM is the leading NVM choice for foundries/IDMs



onsemi provides intelligent power and sensing solutions with a focus on automotive and industrial

500

Fortune 500®
company
S&P 500® index

#2

Global position in
silicon power
solutions

100

Nasdaq 100®
company

\$7.1B

2024 revenue
(USD)

onsemi was spun out of Motorola as ON Semiconductor in 1999

onsemi data from the onsemi Quarterly Investor Presentation Fourth Quarter 2024

First Weebit ReRAM license to a top-tier Integrated Device Manufacturer (IDM)

- ❖ Currently being integrated into onsemi's Treo™ platform
 - ◆ Targets most advanced automotive and industrial applications
 - ◆ Combines Power Management, Compute and Sensing on a single die
 - ◆ Manufacturing 65nm BCD in a 300mm US production fab
- ❖ Weebit ReRAM will enable high-density NVM
 - ◆ Brings more intelligence to a range of onsemi's power products
 - ◆ Provides power-efficiency and cost-effectiveness
- ❖ The companies started working together on technology transfer to an onsemi US production facility

**IDMs manufacture their own products,
shortening time-to-production and potentially
accelerating time-to-royalties**

Weebit ReRAM in Automotive

Increasing number of semiconductors per car

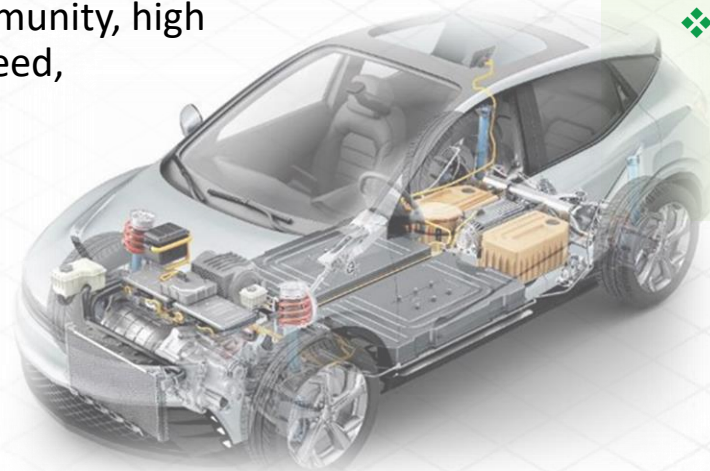
- ❖ ~1,000 - 3,000 per car; an electric Audi or Volkswagen contains up to 8,000*

Automotive in need of new NVM technologies

- ❖ Growing needs for emerging NVM: code storage, trimming, data logging...
- ❖ Can effectively scale to advanced process nodes, <28nm

Parameters of Weebit ReRAM align with automaker specifications

- ❖ High-temp reliability, EMI immunity, high endurance, fast switching speed, longevity, secured



Completed AEC-Q100 150°C Operation Qualification

Key to getting designed into automotive MCUs & other components

- ❖ Demonstrated **stability at 150°C operation for up to 100K endurance cycles****
- ❖ Including cycling and post-cycling high-temp data retention

Beyond Automotive

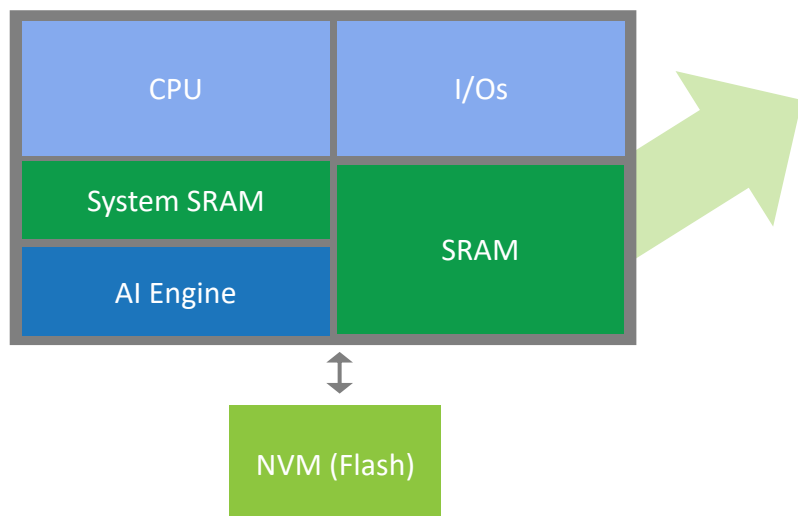
- ❖ Many **industrial** and **IoT** applications require high-temp and extended endurance
- ❖ With AEC-Q100 we can service over 99% of applications

Completed qual in SkyWater S130 using module with 1T1R cell architecture

* <https://www.audi-mediacycenter.com/en/press-releases/semiconductors-are-becoming-the-neurons-of-our-cars-16053>

** Flash equivalent

ReRAM Driving Innovation for Edge AI and Future Neuromorphic Compute

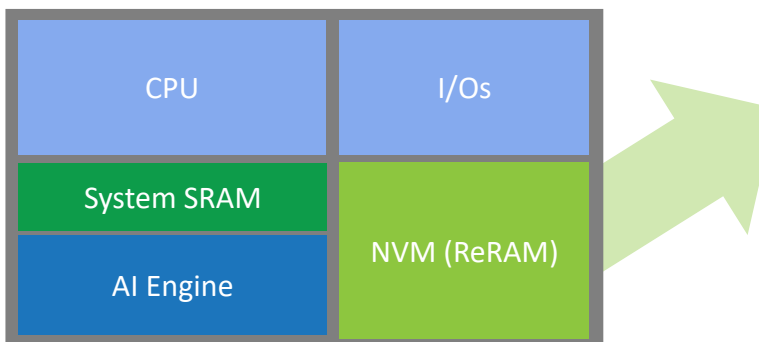


Today's **2-chip solution**

External NVM holds weights

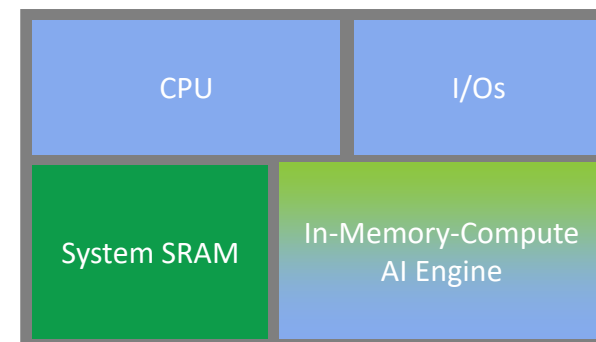
Weights copied into SRAM

- 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**

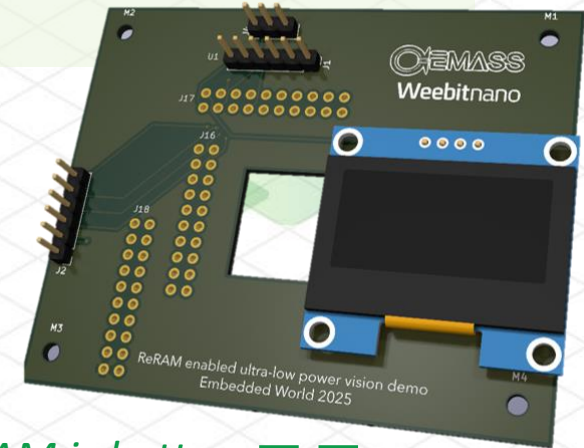
New Demo Shows Advantages of ReRAM for Edge AI

Embedded AI Systems (EMASS) demonstrated ReRAM advantages via ultra-low-power system for gesture recognition

- ❖ Potential applications: wearables, smart home, human-machine interfaces
- ❖ Combination of Weebit ReRAM + EMASS' ultra-low power AI SoC, at a 22nm process node
 - ◆ Enhanced energy efficiency, reduced power consumption; instant system wake-up
- ❖ Collaboration proves the potential of a monolithic edge AI solution integrating ReRAM
 - ◆ Potential to deliver unprecedented performance and efficiency for smart edge-enabled devices

ReRAM Advantages for AI

- ❖ >50X power advantage
- ❖ >10X memory bandwidth
- ❖ Significant cost savings
 - ◆ Eliminating external NVM components
 - ◆ Reducing SRAM size



“EMASS has recently transitioned away from MRAM technology because ReRAM is better able to support next-generation systems in IoT, automotive, and consumer electronics.”

– Mohamed M. Sabry Aly, Founder of EMASS

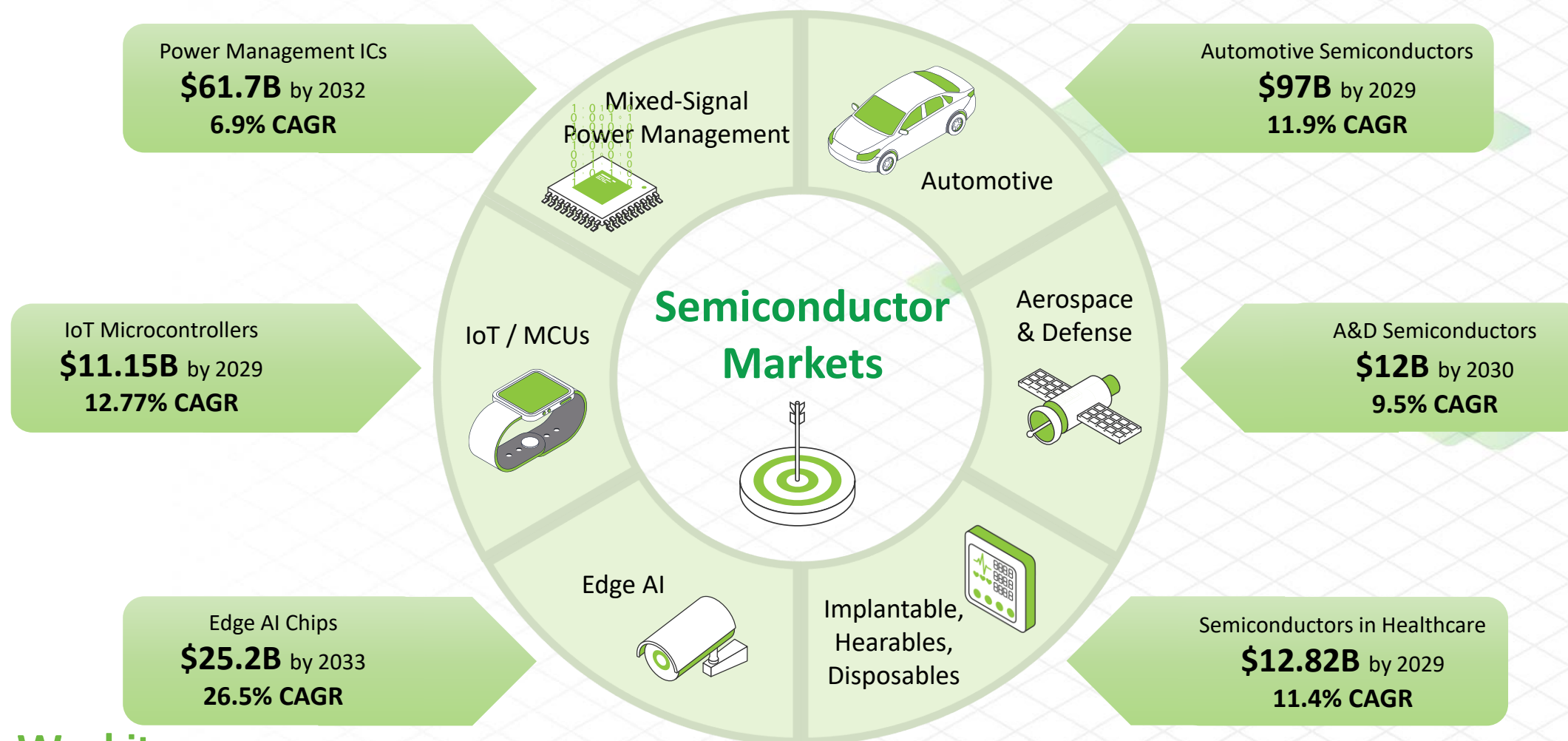


Huge Opportunities Ahead

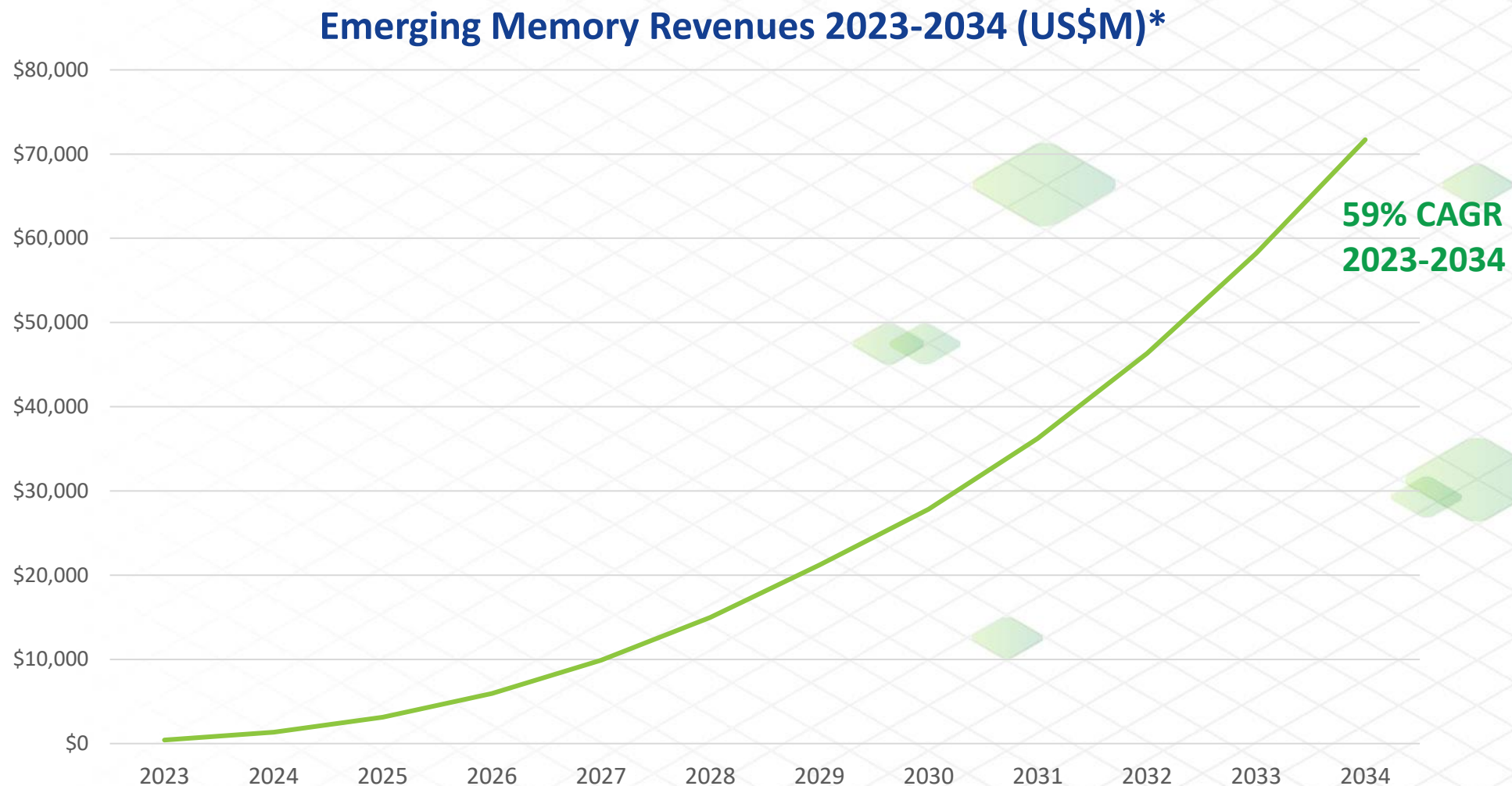


Addressing Fast-Growing Semiconductor Markets

>US\$200 Billion TAM in Customer Markets

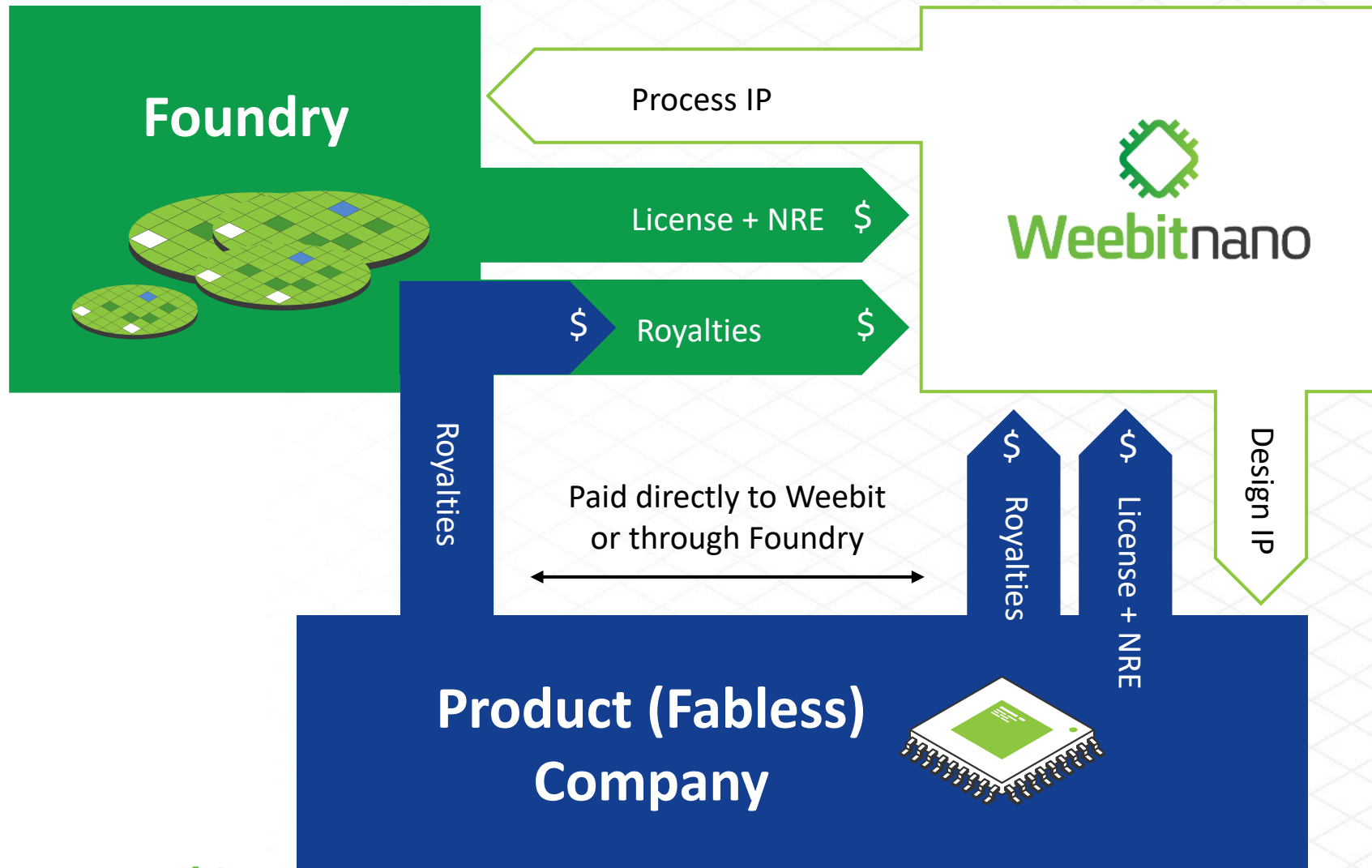


Emerging NVMs Growing Steadily



* Source: A Deep Look at New Memories, Objective Analysis & Coughlin Associates, 2024
Baseline projection

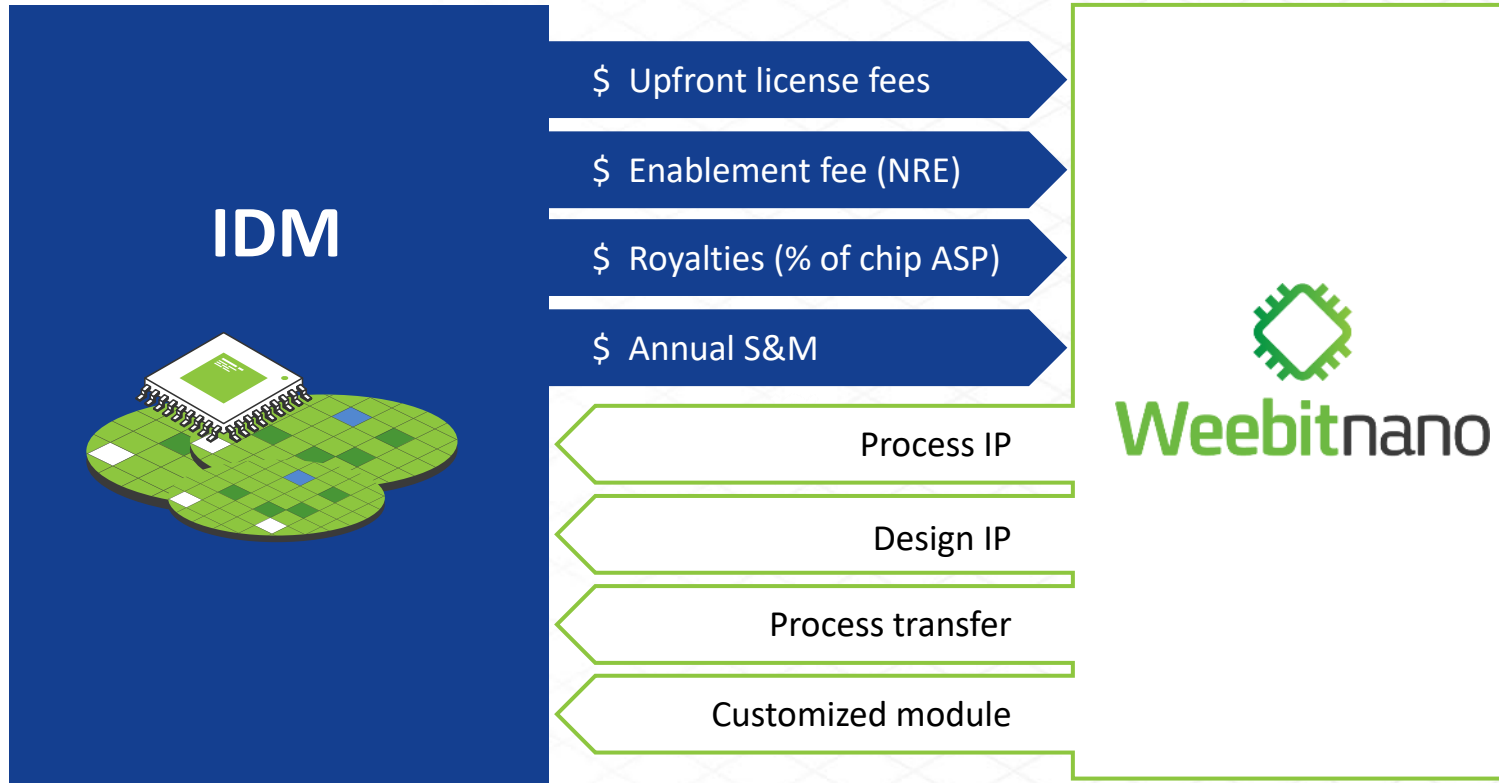
IP Business Model – Foundries & Fabless



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

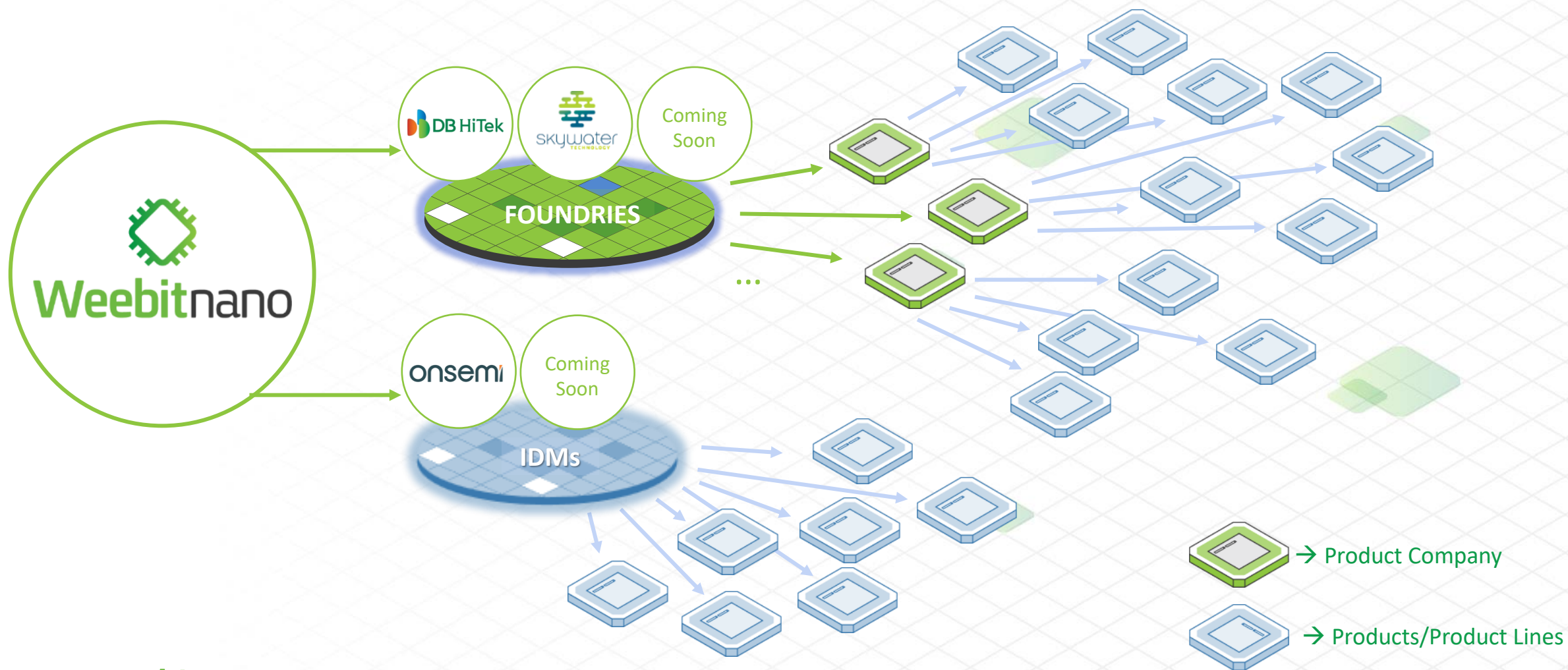
IP Business Model – Benefits with IDMs



- ❖ IDMs design, manufacture and sell their own devices
- ◆ Develop products quickly for target end markets
- ◆ Can integrate IP in multiple designs / products

Accelerated
time-to-market and
time-to-revenue

| Every Foundry Deal Represents Multiple Customer Opportunities





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

Expect to sign more agreements in 2025

Increased selective activity with China ecosystem

Participating as a partner in two 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

GlobalFoundries Winbond

Scaling to Support Multiple Customers

New VP Customer Success – team created to fill a vital need in coming years

The coming few years are pivotal for Weebit

- ❖ Support multiple fab projects in parallel
- ❖ Support rapidly growing number of product companies
- ❖ Constantly improve cost-effectiveness and efficiency

Requires centralised project management and streamlined infrastructure

Scaling up critical support infrastructures

- ❖ Enhanced tools, procedures and methodologies
- ❖ Automation
- ❖ Growing the sales team
- ❖ New Customer Success team

Introducing Lilach Zinger – VP Customer Success



- ❖ Lilach promoted to lead **critical new effort**
- ❖ Lilach has a wealth of expertise in managing complex industrial activities and recognising transformative technologies
- ❖ 20+ years at Tower, most recently as VP of Operations overseeing fab operations; enhancing customer relations and yield management
- ❖ 4+ years at PCB Technologies Ltd. as COO managing a large workforce and significant revenue

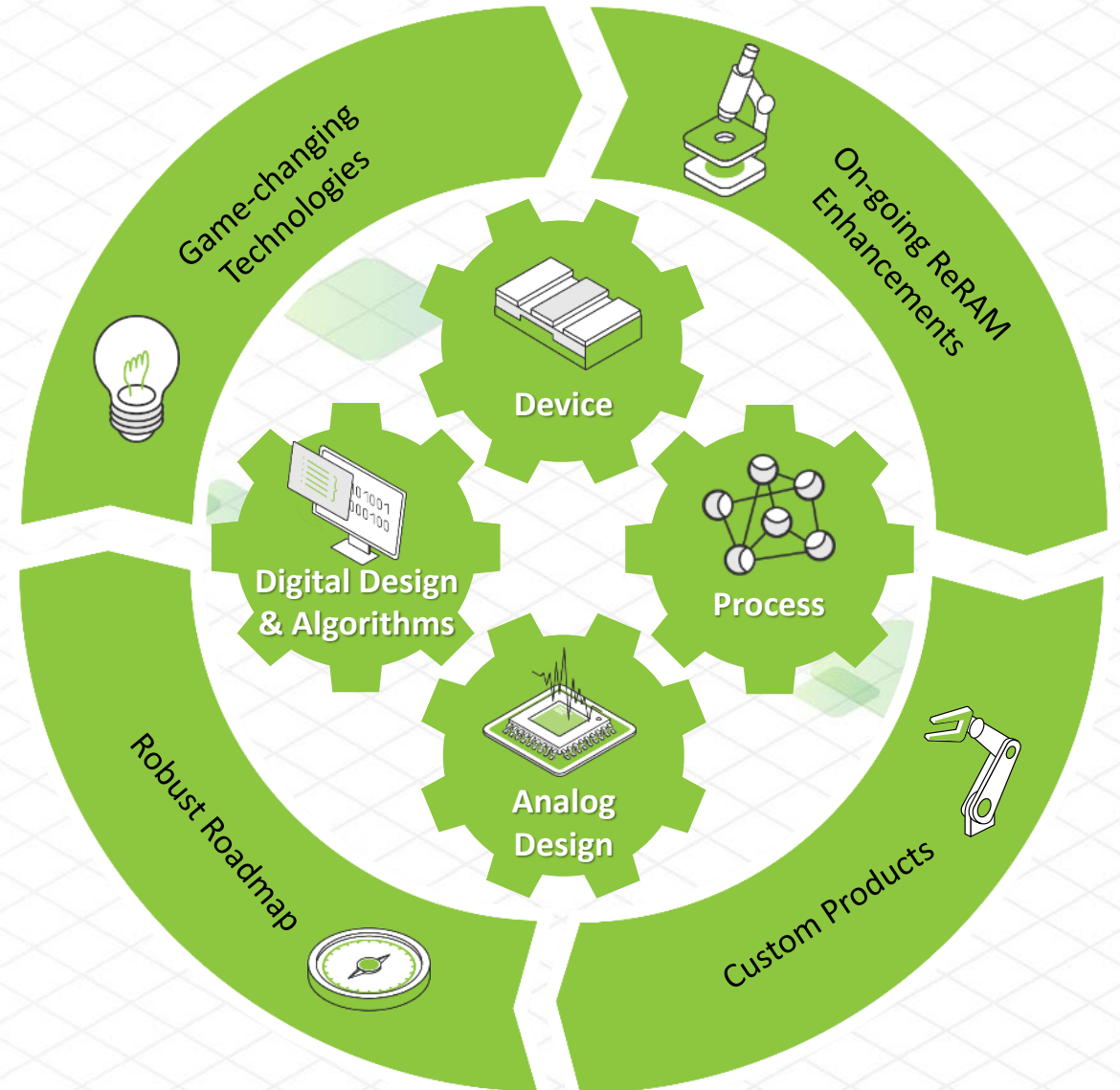
We've Got What it Takes

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

Precise characterization and rigorous testing ensure continuous improvements

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

A focused, experienced, management team is critical

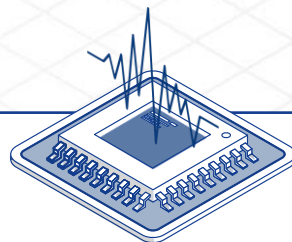


Weebit Nano Key Targets Until End CY 2025



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**

These goals were set at the 2024 AGM.

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