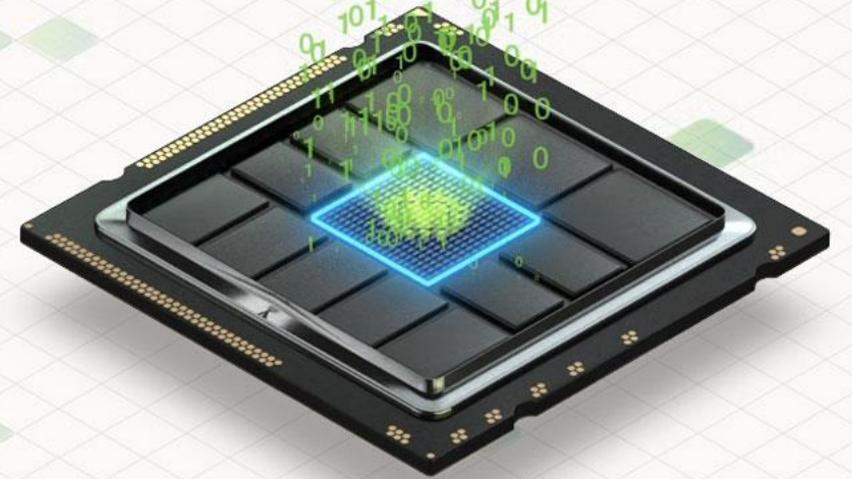




# We've Got What it Takes

November 2023 Investor Presentation



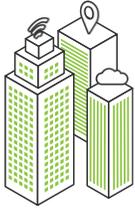


# Introduction



# 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<sup>(1)</sup>  
(90% engineers/scientists)



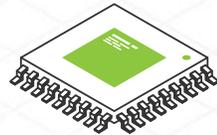
**Greener NVM**

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



**R&D partner**

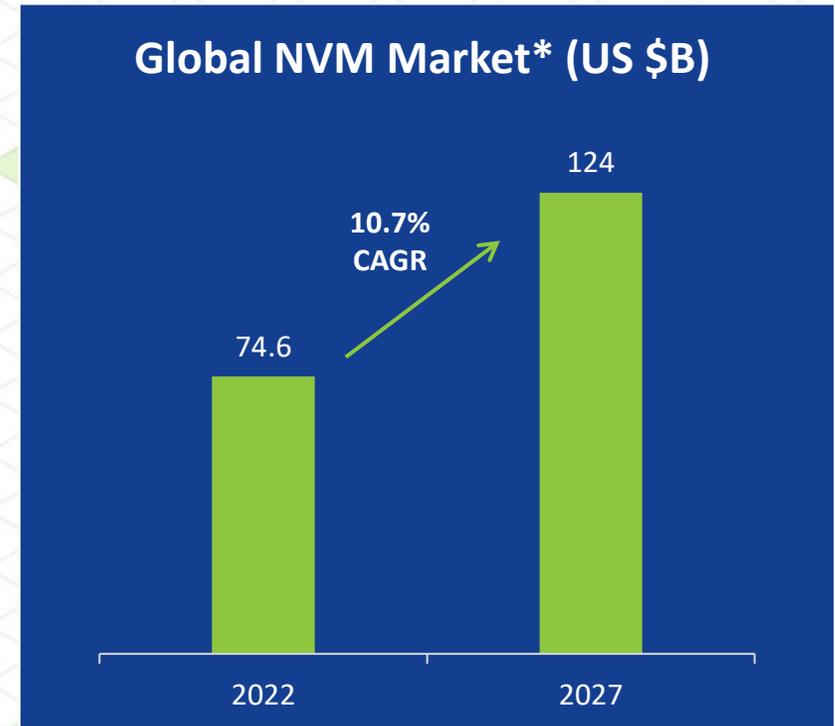
CEA-Leti, a leading microelectronics research institute



**Proven, protected technology**

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

### Global NVM Market\* (US \$B)



Recently added to

**MSCI**   
Global Small Cap Index

**S&P/ASX 200**

\* Source: MarketsandMarkets, December 2022  
(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



**Amir Regev**  
VP QUALITY &  
RELIABILITY



**Ilan Sever**  
VP R&D



**Eran Briman**  
VP MARKETING &  
BUSINESS DEV.



**Alla Felder**  
CFO



# Weebit ReRAM Memory Inherent Advantages

**100x**

Better **endurance**  
vs. flash

- ✓  $10^5$ - $10^6$  P/E cycles



**~100x**

More **energy efficient**  
vs. flash

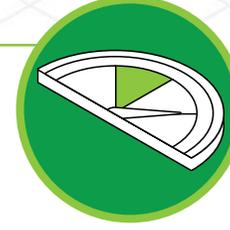
- ✓ Low voltage, low currents
- ✓ Zero standby power



**~100x**

Faster **programming time** than flash

- ✓ Bit/byte addressable



**3-4x**

**Lower added wafer cost** vs. flash

- ✓ 2-mask adder
- ✓ Standard materials



**≤28nm**

**Scales** to processes far  
below limits of flash

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



**150°C**

**Reliability** for up to  
10 years

- ✓ Endures 9 SMT reflow cycles



**~350x**

Better **radiation tolerance** vs. flash<sup>(1)</sup>

- ✓ 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	IoT / MCUs	Edge AI	Automotive	Aerospace & Defense	Medical
	Wireless charging; Motor control	Wearables; Smart cards	Security cameras; Industrial	ECUs for sensors & controllers	Flight safety systems; Satellites	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 on the Commercialisation Path



# 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 US\$40M; 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

SEP 2023

Weebit added to ASX 200

S&P/ASX 200

## 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

# Weebit ReRAM Scaling to Advanced Nodes

## Received first wafers manufactured in GlobalFoundries' 22nm FD-SOI (fully depleted silicon on insulator) platform

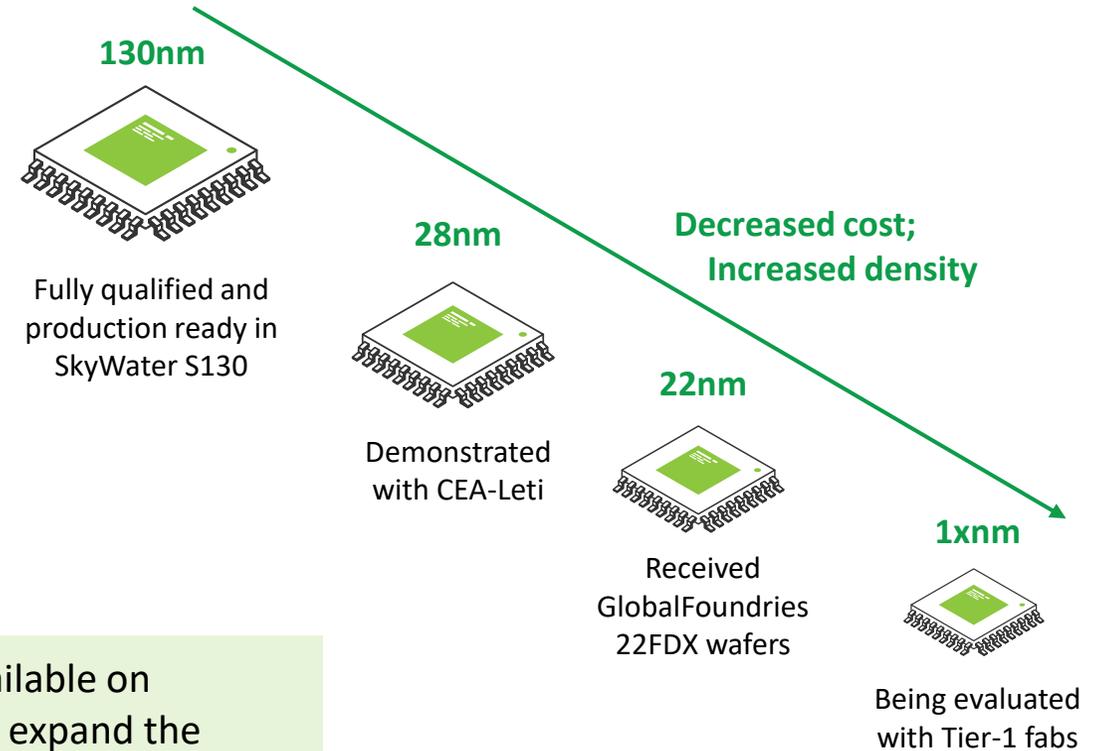
- ❖ Wafers are functional, going through further testing
- ❖ Weebit ReRAM + FD-SOI is ideal for low-power embedded devices

## Clear opportunities for NVM at 22nm and below

- ❖ Existing embedded flash technology is not a viable option
- ❖ Serving various applications including IoT, 5G and AI

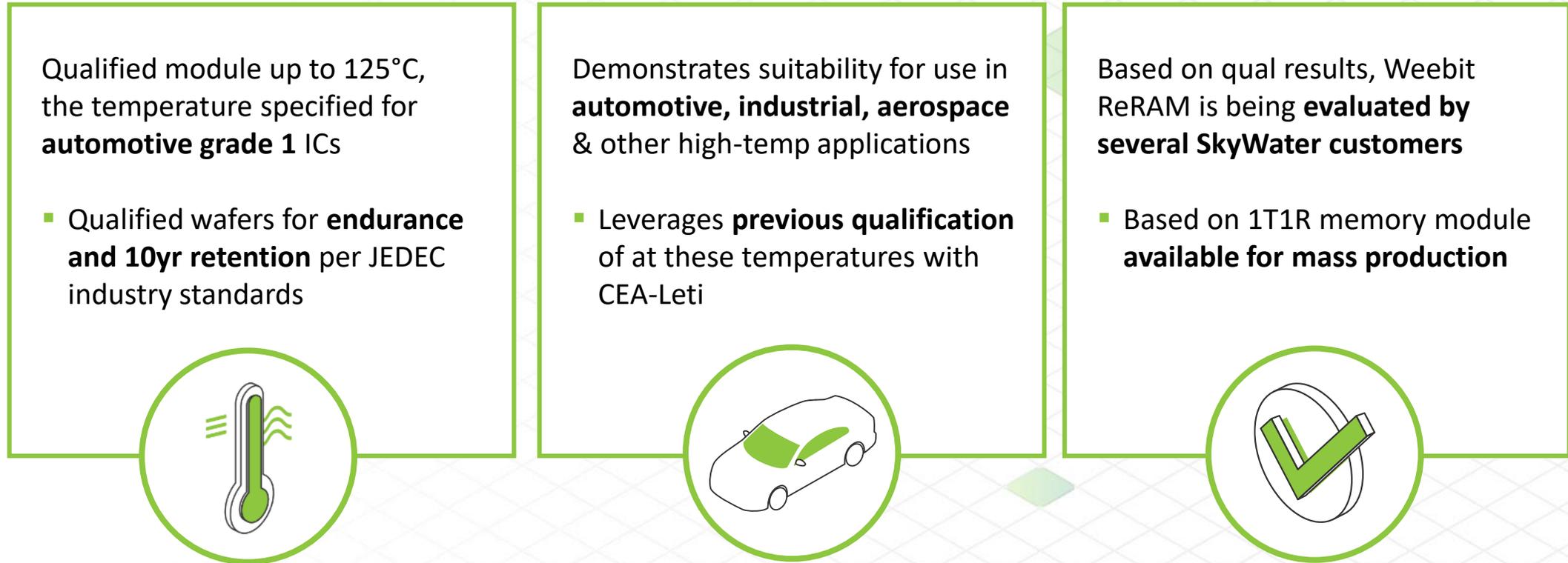
“The work Weebit and CEA-Leti are doing to make Weebit ReRAM available on GlobalFoundries' 22FDX is a welcome development as we continue to expand the ecosystem around this platform. Embedded NVM is a key element of our customers' designs, but since embedded flash is difficult to scale below 28nm, many customers are looking to NVM solutions such as embedded ReRAM.”

– Mike Hogan, Chief Business Officer



# Weebit ReRAM Achieves High-Temp Qualification in SkyWater's S130 Process

ReRAM module fully qualified for automotive grade 1 temperatures  
Opens a broad range of new opportunities



**Demonstrates repeatability, uniformity and maturity of Weebit's embedded ReRAM**



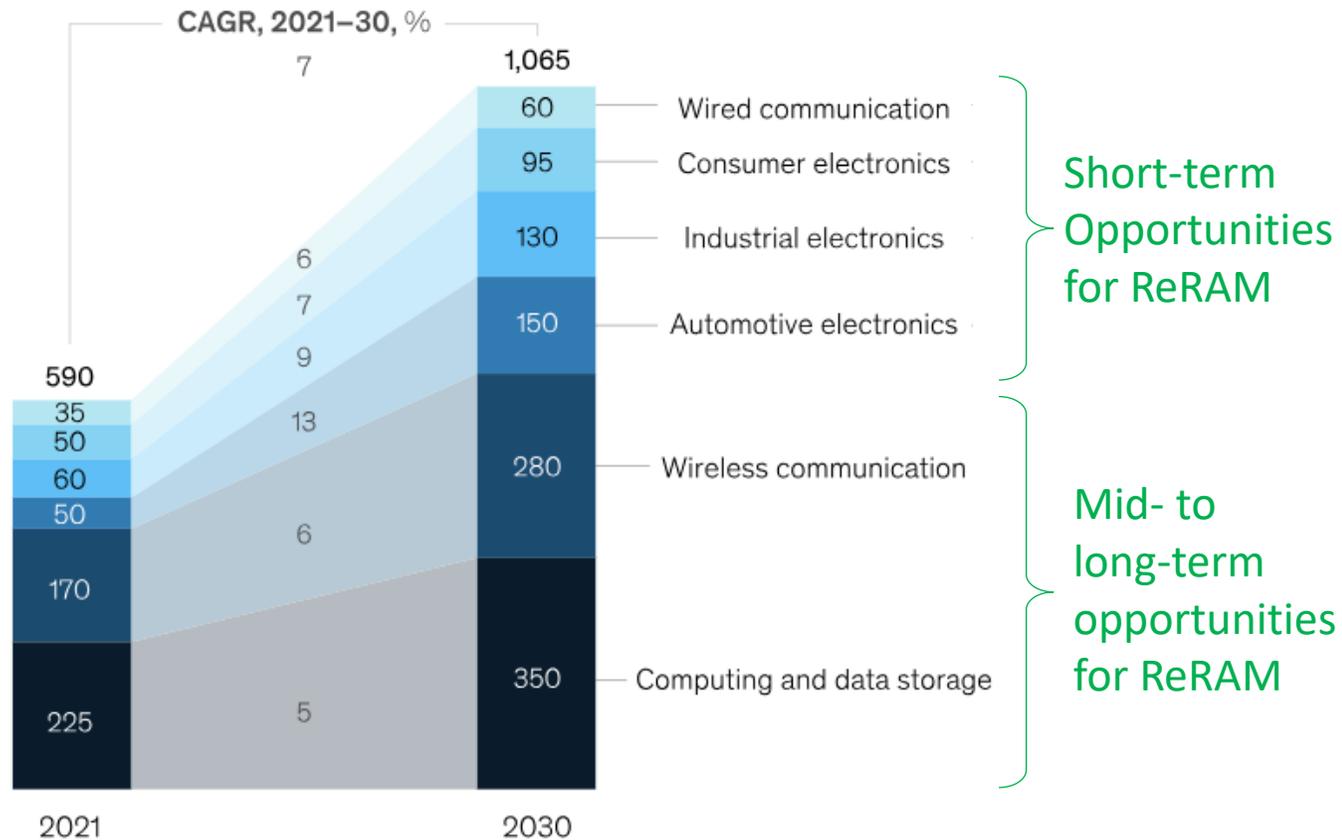
# Huge Opportunities Ahead



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

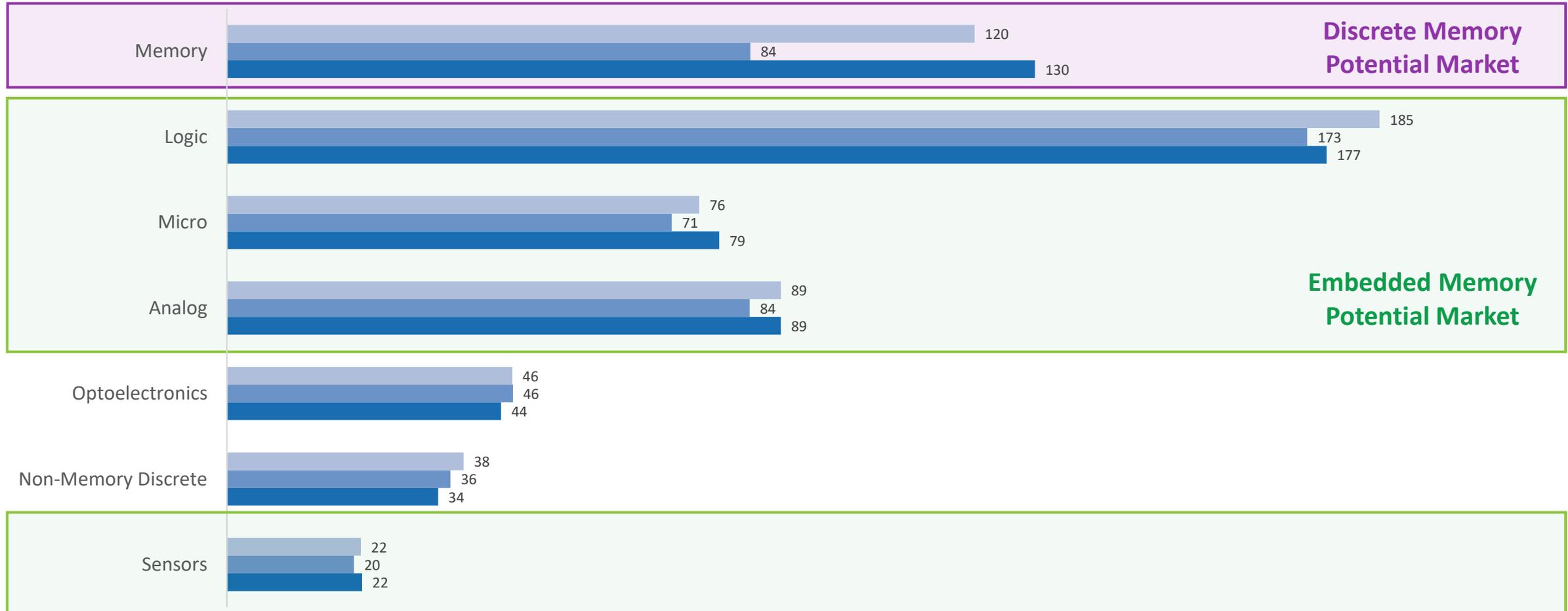
The overall growth in the global semiconductor market is driven by the automotive, data storage, and wireless industries.

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



Source:  
<https://www.mckinsey.com/industries/semiconductors/our-insights/the-semiconductor-decade-a-trillion-dollar-industry>

# Significant Market Opportunity for ReRAM Products



Source: WSTS May 2023

■ 2024 ■ 2023 ■ 2022

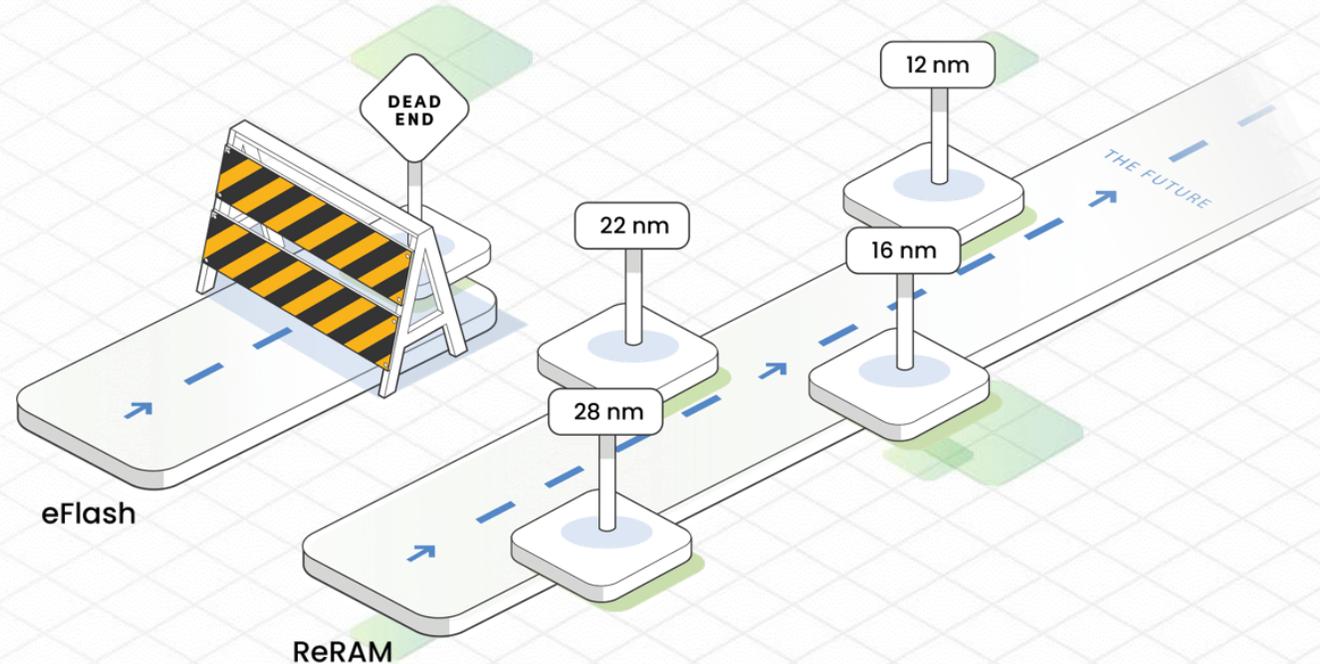
Numbers in Billions USD; Estimated for 2023 and 2024

# 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

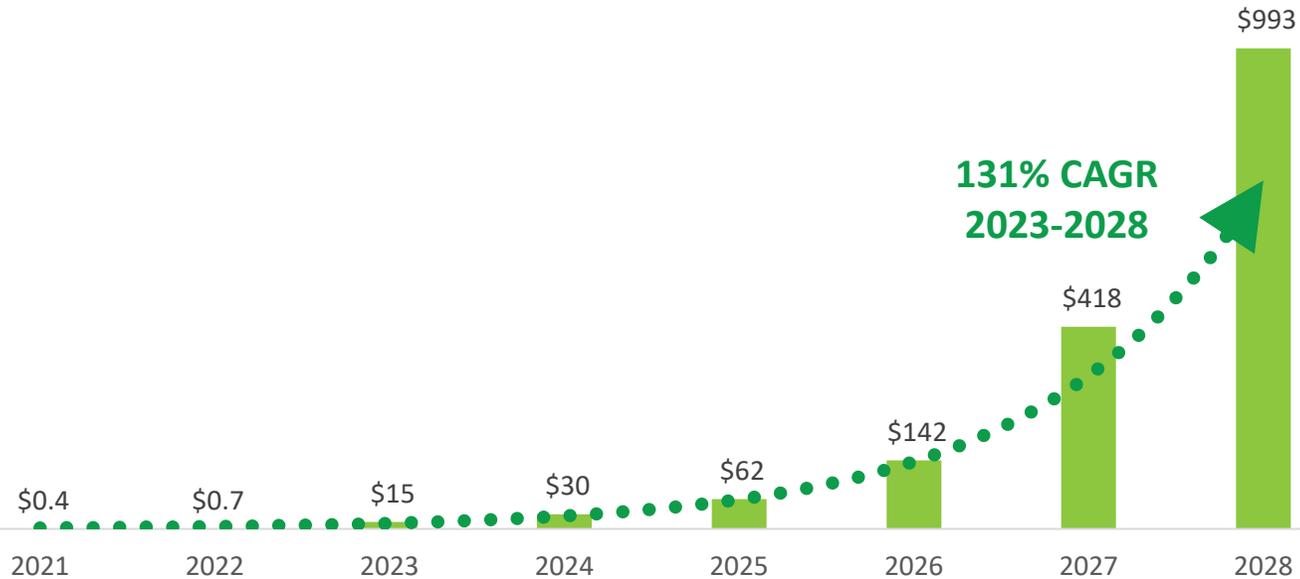
Embedded flash is running out of steam



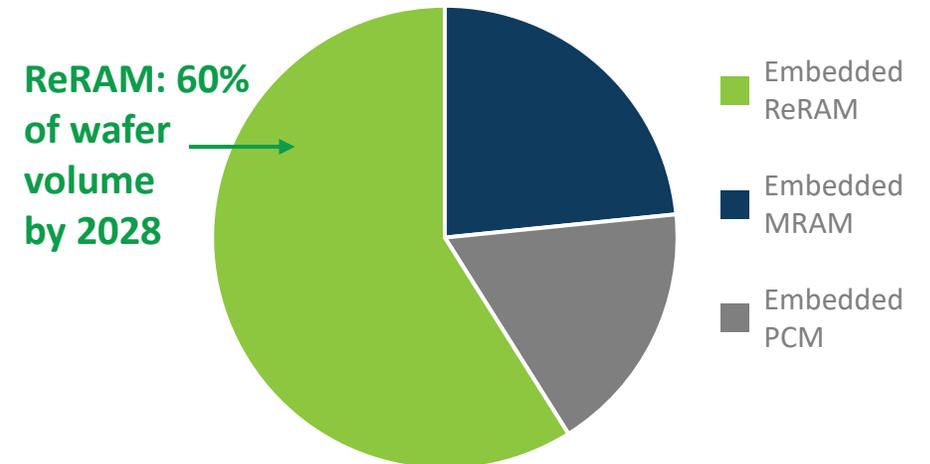
# ReRAM is Emerging as The Leading Solution

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)\*



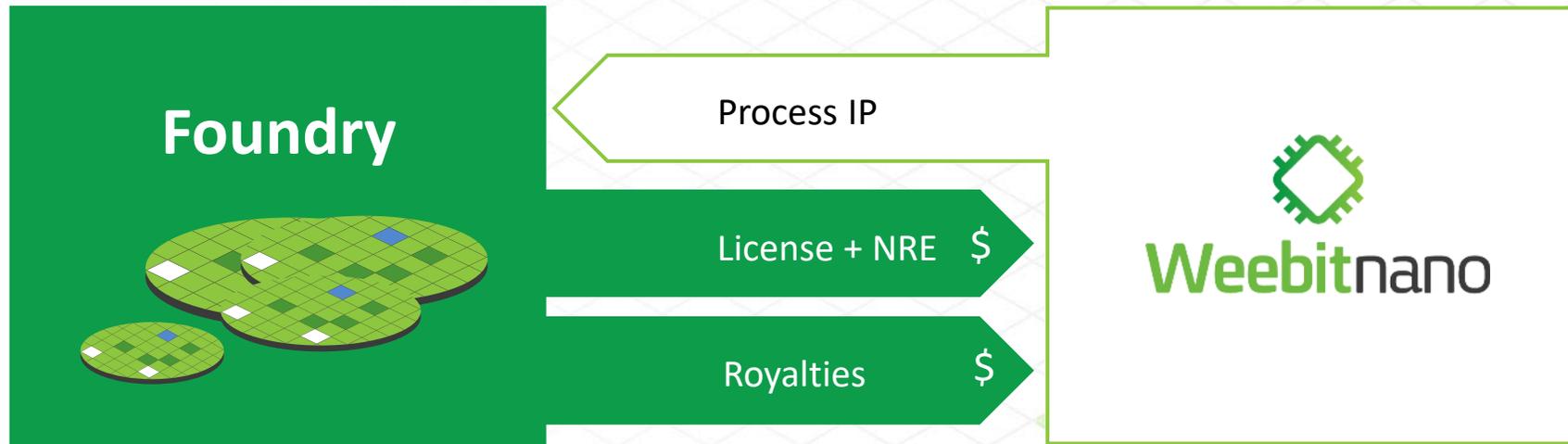
### Market Volume in # of Eq. 12" Wafers 2028\*



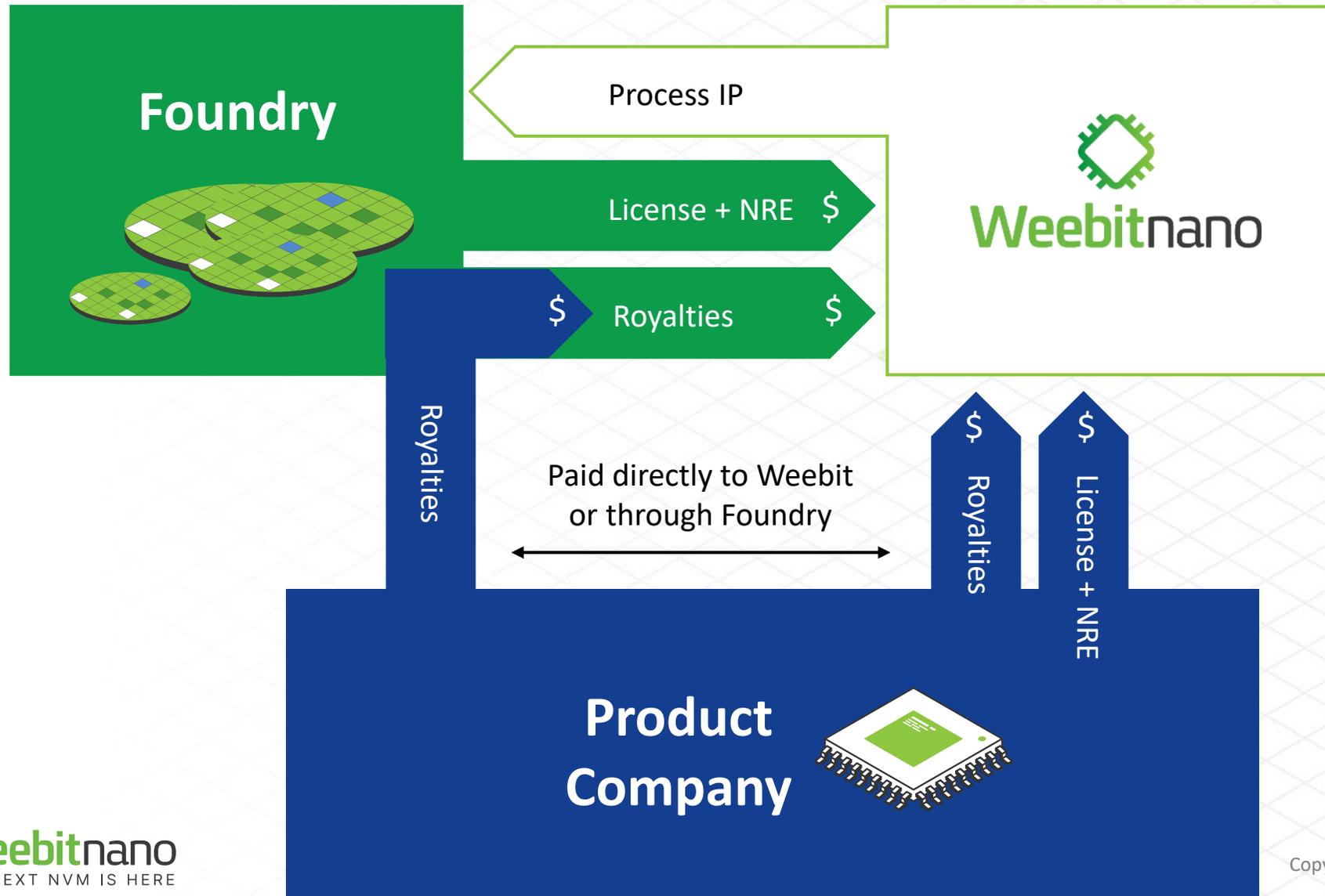
*Note: The embedded emerging NVM market size is evaluated based on assumptions of the average chip area occupied by a given memory technology (Yole)*

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

# IP Business Model



# IP Business Model



# Every Foundry Deal Represents Multiple Customer Opportunities

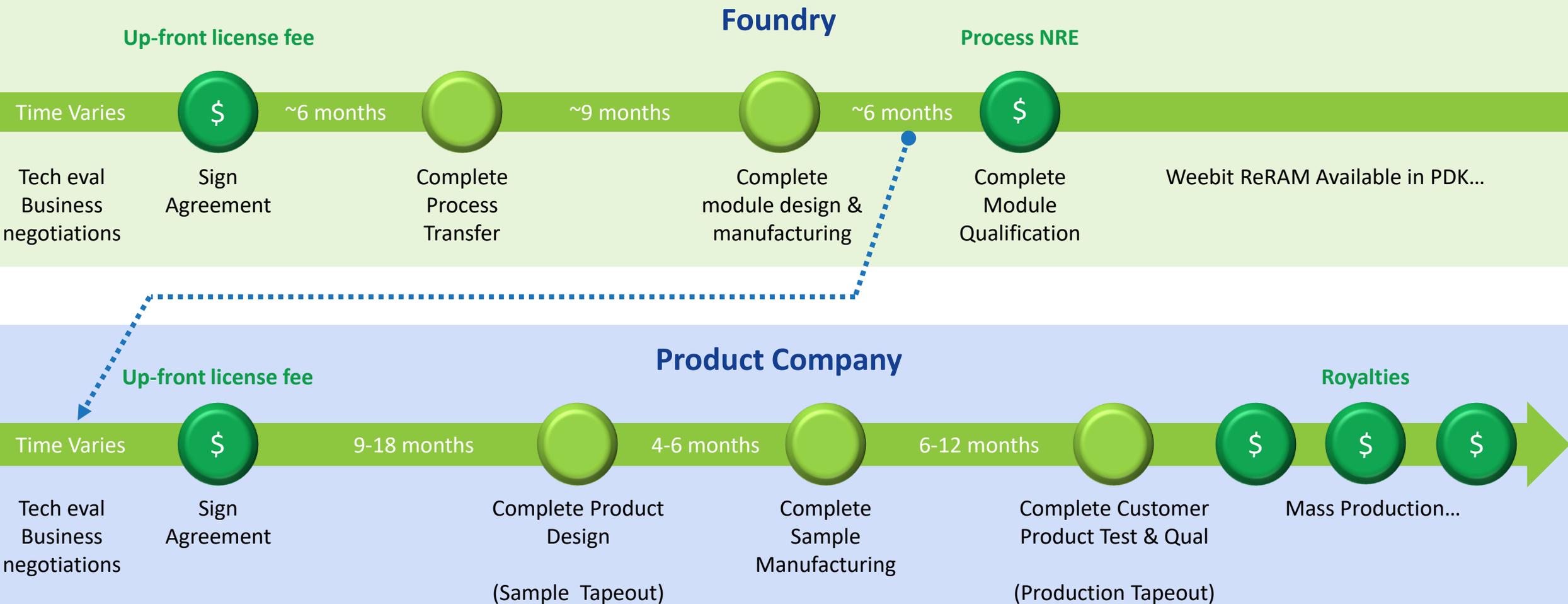


# Every Foundry Deal Represents Multiple Customer Opportunities

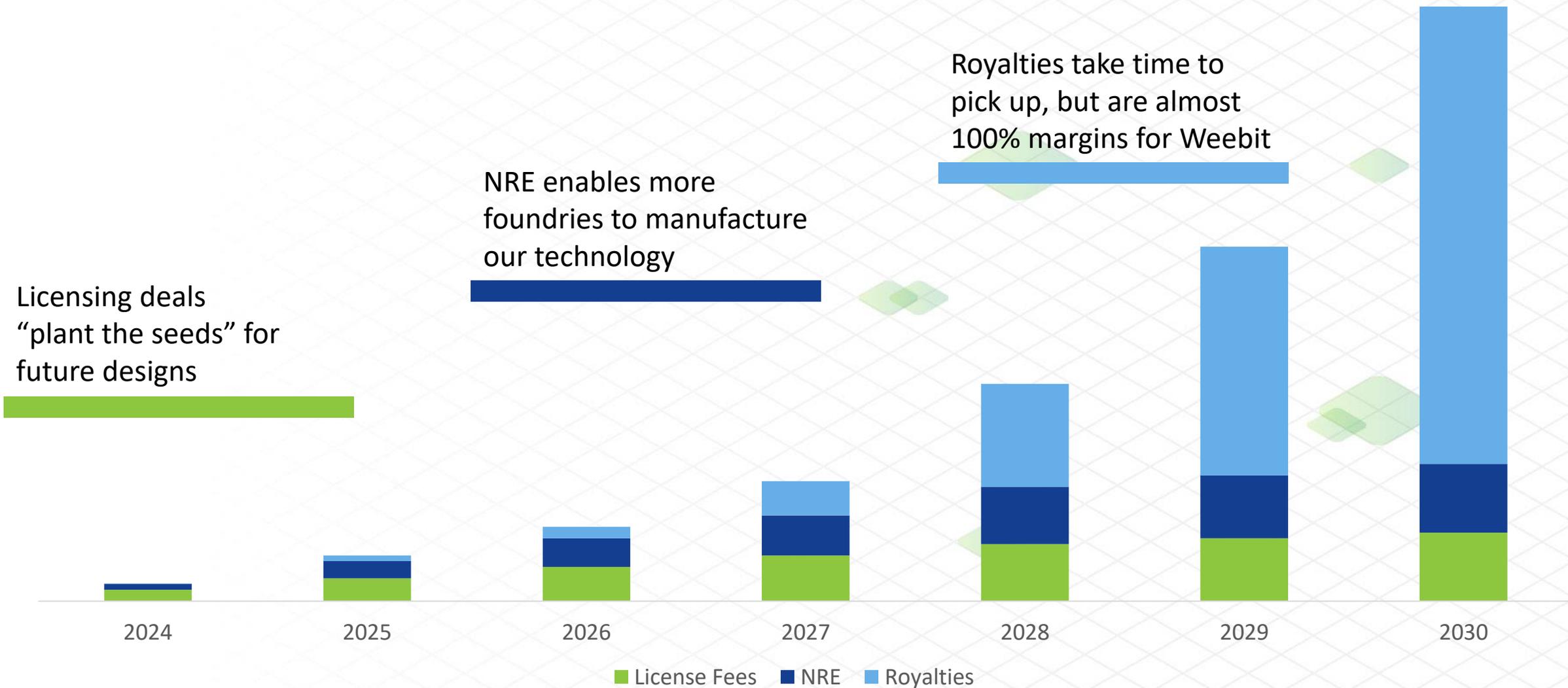


# Typical Licensing Timeline

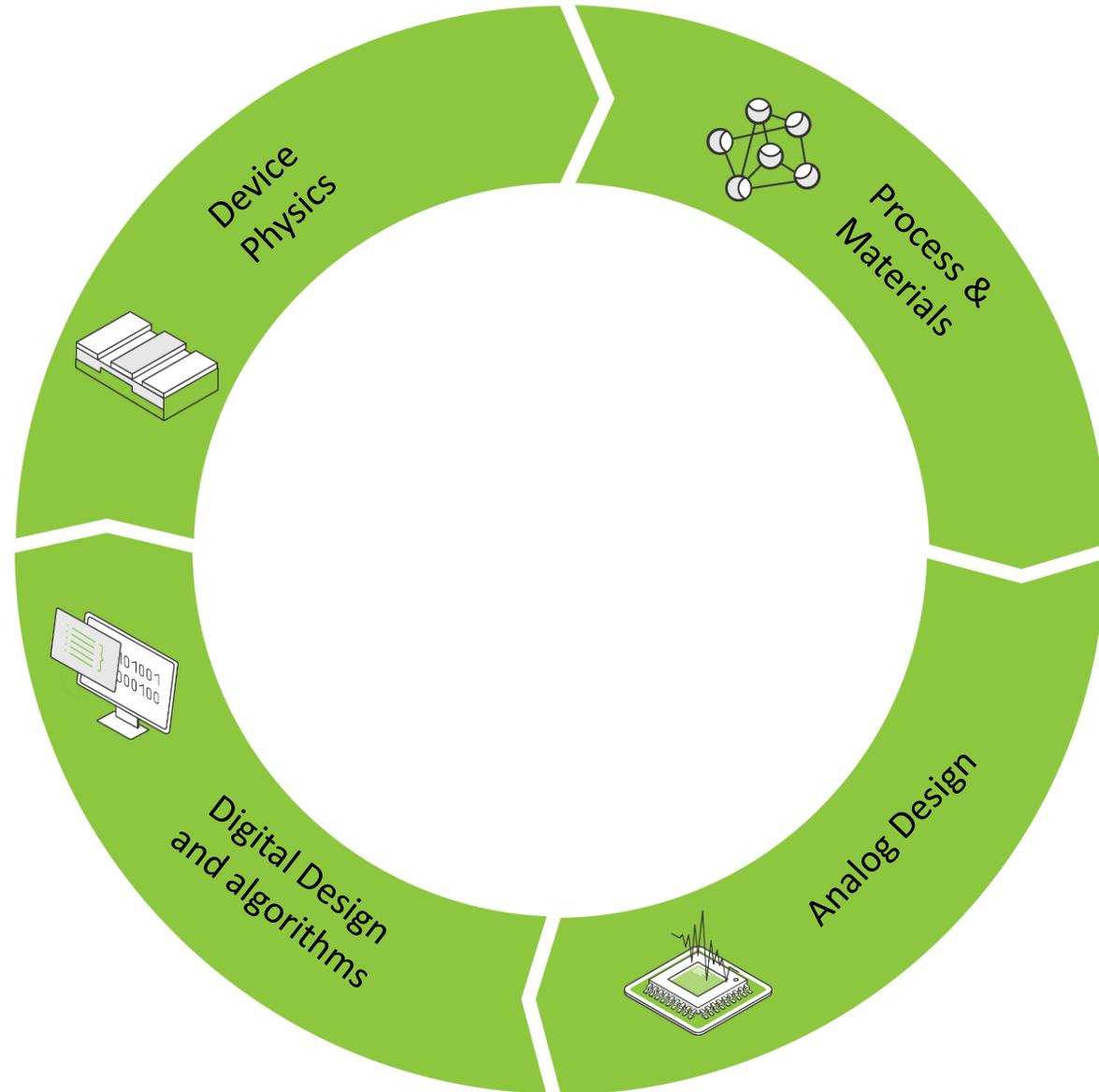
*It typically takes 3-4 years from foundry licensing deal until their customer starts mass production → royalties for Weebit*



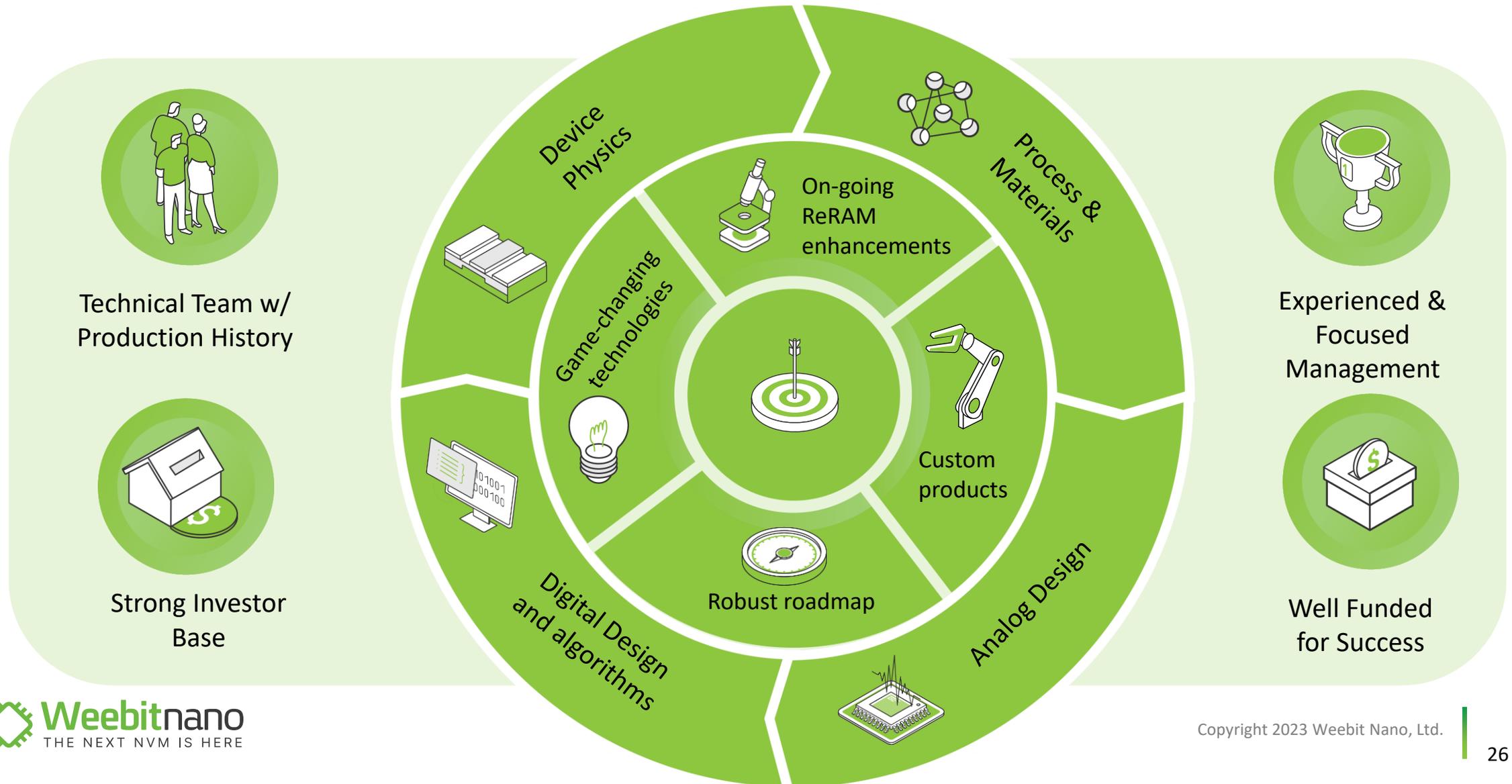
# Potential Growth of our IP Business Model



# | We've Got What it Takes



# We've Got What it Takes





What's coming next?

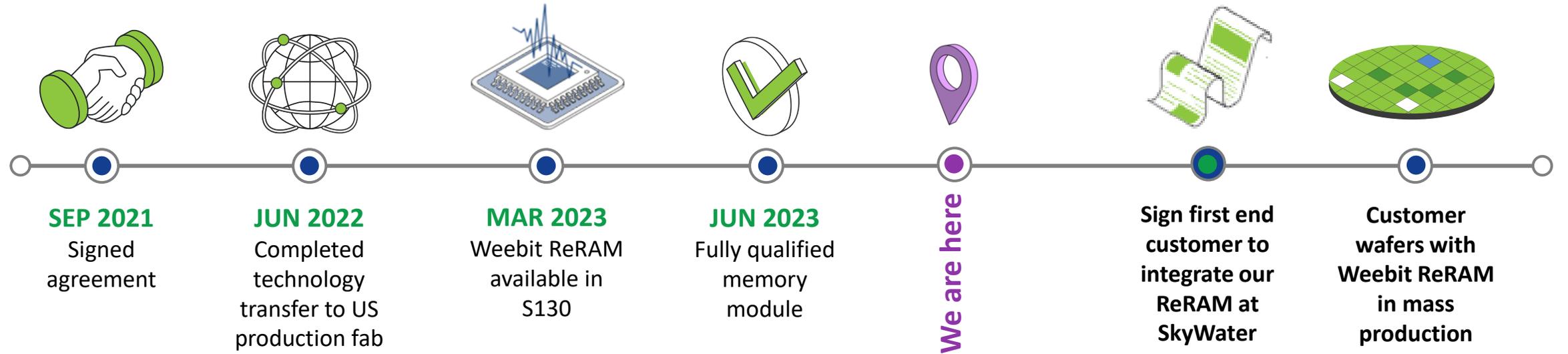


# SkyWater Taking Weebit ReRAM to Volume Production

SkyWater Technology (Nasdaq:SKYT) is the only US-owned pure-play silicon foundry

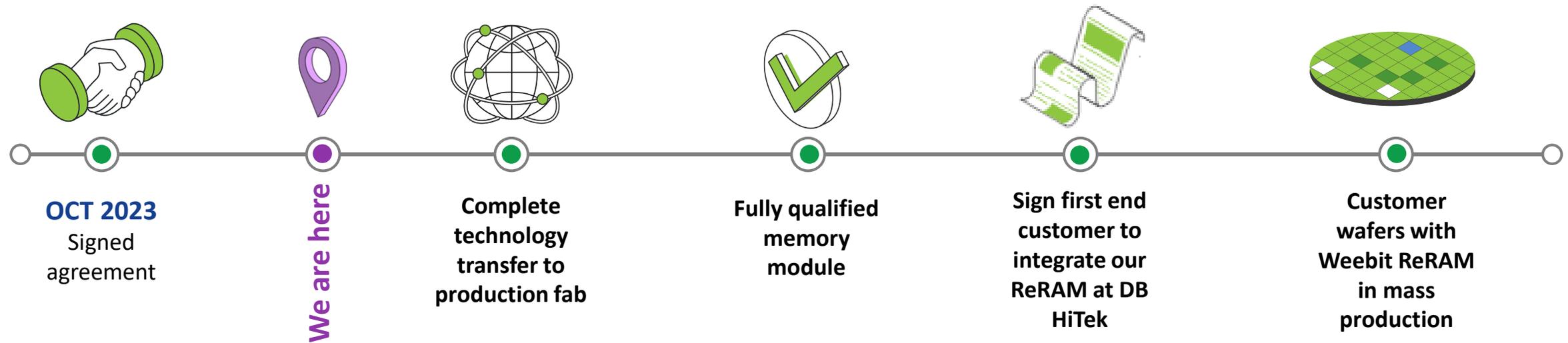
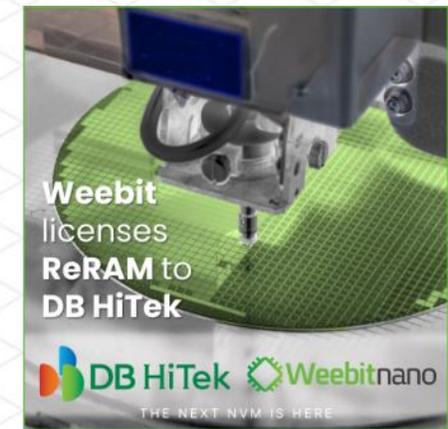


Weebit CEO Coby Hanoch holding a SkyWater wafer, November 8, 2022



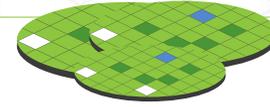
# DB HiTek Taking Weebit ReRAM to Volume Production

DB HiTek serves many of the world's largest semiconductor companies



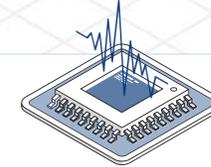
# Weebit is Engaged With Most Top-10 Foundries & IDMs

- ❖ In different levels of evaluation/negotiation with most of the top foundries / IDMs
- ❖ Expect to sign more agreements soon



## 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

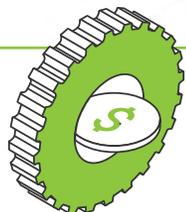


## Top-10 Integrated Device Manufacturers (IDMs)<sup>(1)</sup>

- 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



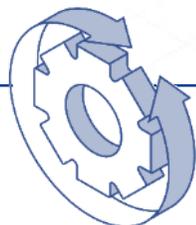
## Fab Partners

Sign more agreements; Tech transfer/qual with DB HiTek



## Customers

Close licensing agreements



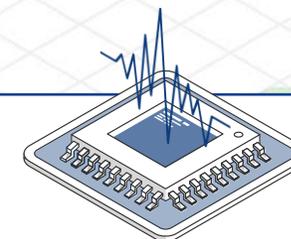
## Qualification

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 and below

# Thank You!

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



 **Weebitnano**  
THE NEXT NVM IS HERE