Weebitnano

The Future Memory

ReRAM: The Future Memory

Goldman Sachs Emerging Tech Conference

April 4th, 2022

Who We Are?

Leading developer of innovative next-generation memory technologies for the global semiconductor industry

We are **enabling a leap forward** in memory technology for a **new era of connected devices**

Founded: 2015
Located in Israel & France
ASX: WBT

Signed 1st commercial deal;
Ongoing discussions with new customers

Current business model:
IP licensing to semiconductor companies & fabs

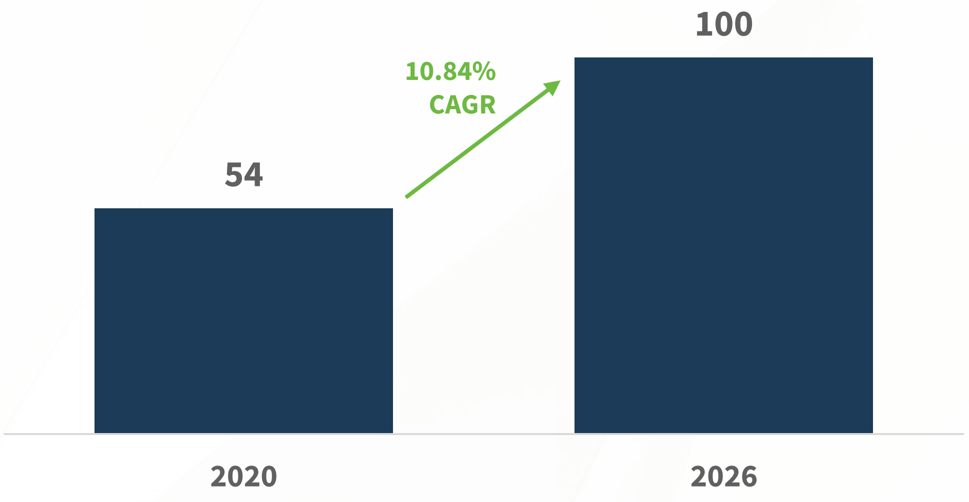
World-leading team
50 personnel* (90% engineers/ scientists)

R&D partner:
CEA-Leti, Leading micro-electronics research institute

Silicon-proven technology
Volume production expected 2023

** Includes employees and contractors*

Global NVM Market (US$B)*



NVM = Non-Volatile Memory
** Source: MarketsandMarkets; company data*

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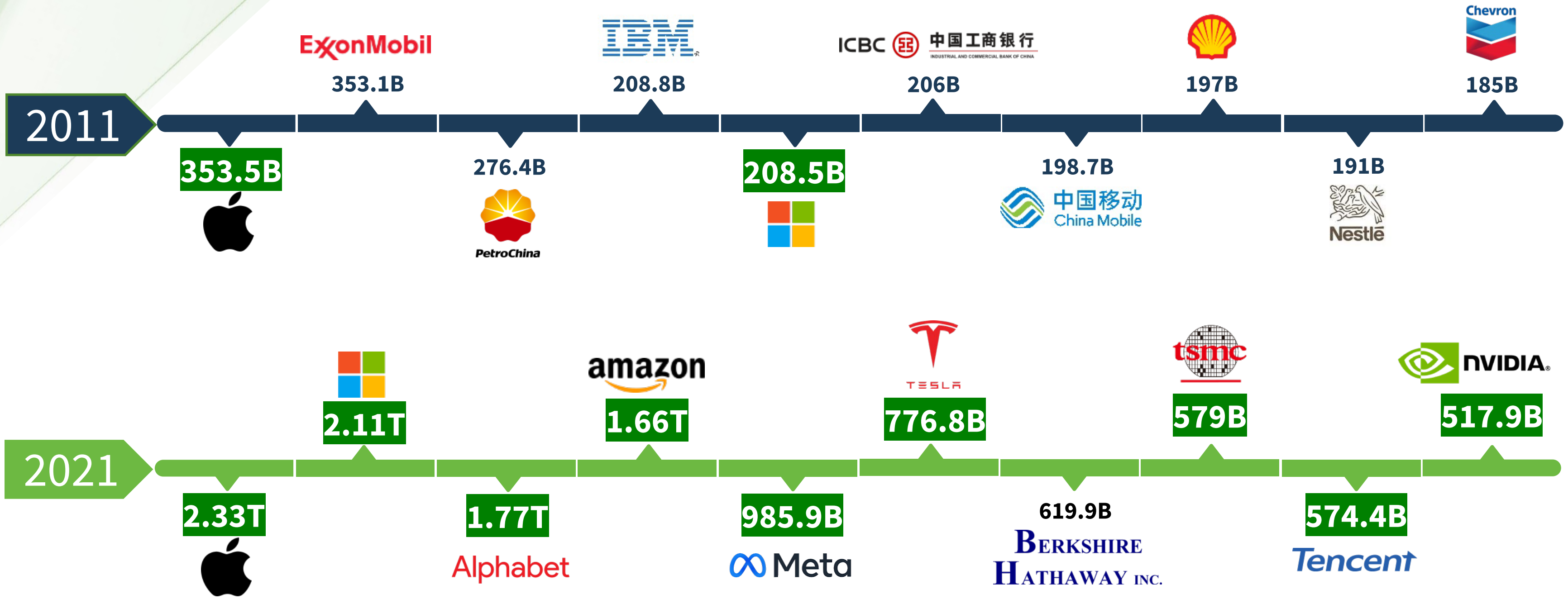
Semiconductors Are a Differentiator

- The world has transformed from energy / finance focus to semiconductor / computer focus
- 9 of the top 10 companies in Q3’21 are reliant on semiconductor technology development



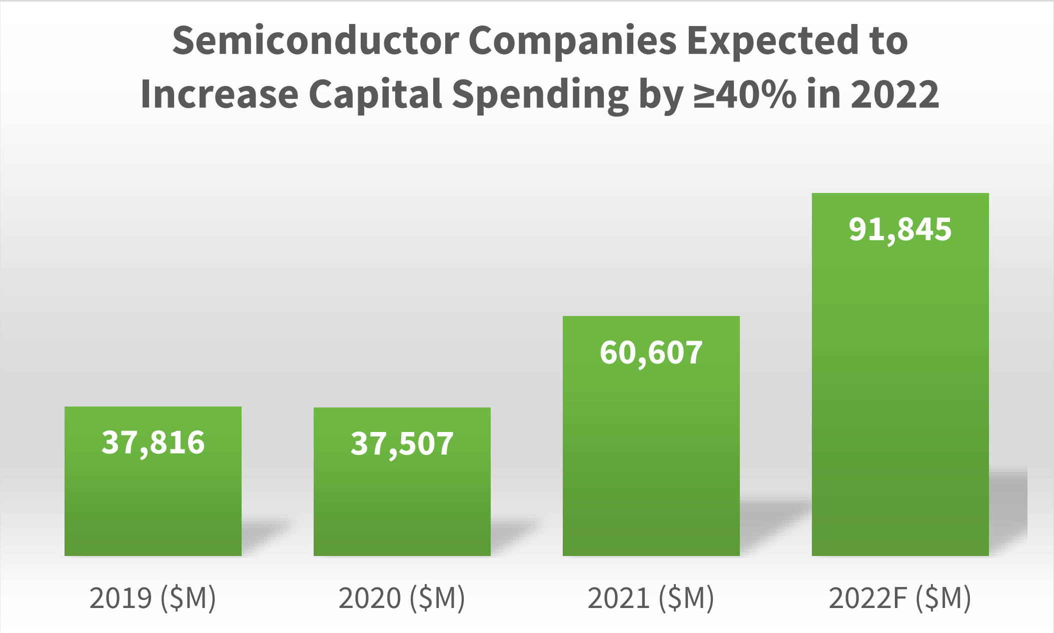
Companies developing and heavily relying on semiconductor

Source: Charts show data from Q3 2011 and Q3 2021 https://en.wikipedia.org/wiki/List_of_public_corporations_by_market_capitalization#World_Largest_market_capitalization_companies

Chip Shortage Leading to Huge Investments to Build Capacity

Government Investments ($B)		
United States	52B* +	4 new fabs
European Union	$30-50B+	4 new fabs
Japan	6.8B	5 new fabs
China		10 new fabs
India	$10B	
Korea	$452B**	5 new fabs
Taiwan		10 new fabs
Singapore		1 new fab

Source: SIA , 2/2022 *Not yet passed ** through 2030



** Includes 13 companies; Source: IC Insights 2022*

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

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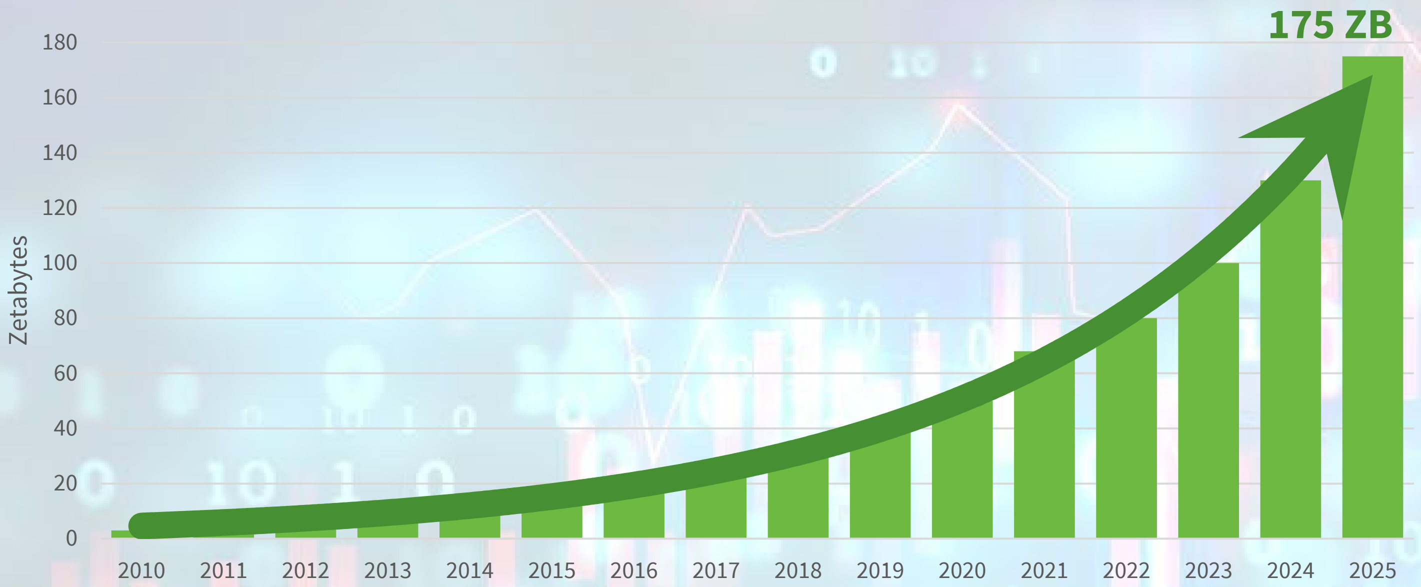
Non-Volatile Memory: Existing Technology Not Keeping Pace

Data created, captured, copied, and consumed worldwide*



** Source: Data Age 2025, with data from IDC Global DataSphere*

NVM Requirements

Flash memory can't meet these needs

- Energy Efficiency
- High Endurance
- Highly Scalable: Sub-28nm
- Fast Write Speed

Weebit ReRAM is uniquely positioned to address changing requirements and replace flash

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The Weebit ReRAM Advantage

~100x
Faster **access time** than flash

>10x
Better **Endurance** than flash

~100x
More **energy efficient** vs. flash

<40nm
Scales to processes far below limits of flash

175°C
Reliability for up to 10 years

~350x
Better **radiation tolerance** vs. flash

0
Interference w/ analog & power devices

3-4x
Lower added wafer **cost** vs. flash

Targeting Growing Markets

Analog/Mixed Signal & Power Management

Analog Semiconductors
2019-2022 $55B → **$83B** (10.8% CAGR)

Automotive Applications

Automotive Semiconductors
2020-2026 $34B → **$78B** (14.75% CAGR)

Internet of Things

IoT Semiconductors
2020-2025 $33B → **$80B** (19% CAGR)

Edge AI Applications

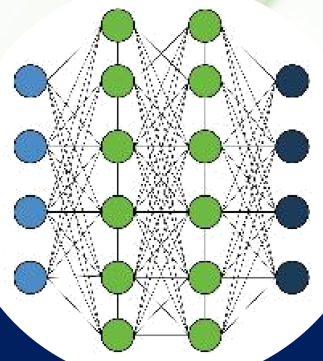
Edge AI Chipsets
2021-2028 $8B → **$28B** (28% CAGR)

Aerospace & Defense

Aerospace & Defense Semiconductors
2019-2027 $5.8B → **$8.6B** (5% CAGR)

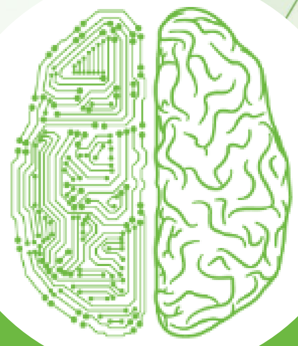
** Sources (in order top to bottom): IC Insights 2022; Yole 2021 (CASE Semiconductors); IoT Analytics Feb 2021; ABI Research June 2021; Transparency Market Research 2019*

Weebit ReRAM: Advantages for AI Applications



Today: A better solution for artificial neural networks (NNs)

- AI is bandwidth intensive in terms of memory usage for both inference and training
- Weebit ReRAM: scaling to 22nm/below allows significantly lower power and higher performance (flash cannot scale below 40nm)



Tomorrow: An enabler for true brain inspired AI systems

- ReRAM physically resembles a biological brain synapse; has functional similarities
- Emulating NNs with ReRAM consumes orders of magnitude less power than today’s NN simulations

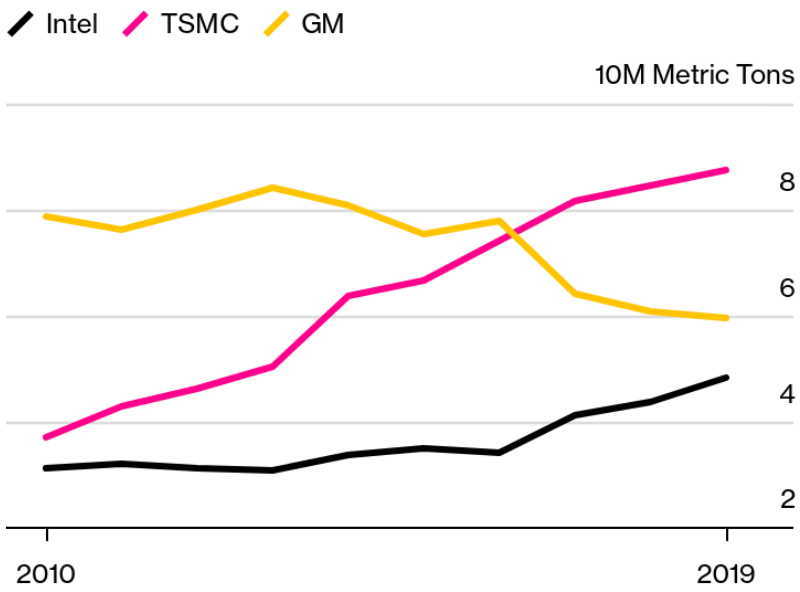
Weebit ReRAM: Greener Non-Volatile Memory

Conducting a lifecycle analysis (LCA) to study environmental impact of ReRAM vs. other NVMs

- ReRAM has a **lower carbon footprint** vs. flash
- Consumes **less electric power** than flash
- Consumes **fewer resources** to manufacture
- No issues with materials scarcity; **no rare earth materials**
- Materials have **no contamination risk**
- **Not subject to international conflict**

Chip Producers Overtaking Automakers as Polluters

The environmental cost of semiconductors is rising



Source: Company disclosures
Note: Metric tons of green house gas emissions
Bloomberg

Significant Progress in Last 6 Months

AUG. 2021
Expanded strategic partnership, more IP

SEP. 2021
Secured commercial deal; qual planned early 2023

OCT. 2021
Demonstrated 1Mb ReRAM arrays in 28nm FDSOI

NOV. 2021
Raised additional $36m in ASX
Total cash position now ~$45M

DEC. 2021
Received first module wafers from Leti

Currently testing packaged chips

JAN. 2022
Demonstrated 1S1R Crossbar Arrays

MAR. 2022
Scaling the technology to 22nm FD-SOI

First Commercial Deal

SkyWater licensed Weebit's ReRAM to take it to Volume Production

Signed agreement September 2021

Technology transfer to production fab underway

Tape-out of first prototype expected mid-2022

Qualification to be completed early 2023

Weebit ReRAM IP to be available for SkyWater customers

A major milestone for Weebit's commercialisation

President Biden holding a SkyWater wafer; Source: NBC News, April 12, 2021

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

Secured A$35.2m to Accelerate Growth

Introduced major Israeli institutional investors onto register

- Placement to four Israel-based institutional and pension funds
- Entitlement offer to existing shareholders - oversubscribed
- An additional A$300K invested by three directors
- First time international institutional investors joined Weebit's register
- Funding to:
  - Underpin accelerated growth
  - Supporting pursuit of business opportunities
  - R&D in embedded and discrete projects
  - General working capital requirements

PLACEMENT'S CORNERSTONE INVESTOR:

MEITAV DASH.

Major Israel based institutional investment and pension fund

Looking Ahead

Milestones by the end of CY22

- Complete technology transfer to SkyWater's U.S. fab; **be in advanced stages of qualification**
- **Provide functional test results** of our embedded ReRAM module
- Sign **new licensing agreements** with partners and customers
- Continue **scaling down technology** to smaller geometries

Key Takeaways

S&P Dow Jones Indices

WBT:ASX
On ASX All Ords Index

The industry needs a new Non-Volatile Memory solution

Weebit ReRAM has unique advantages; It is well positioned to replace flash

Progressing strongly: 1st commercial deal, technology proven across multiple processes

Board & management team have extensive semiconductor commercialization experience

On track to deliver a production solution across a range of high-growth markets

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