



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

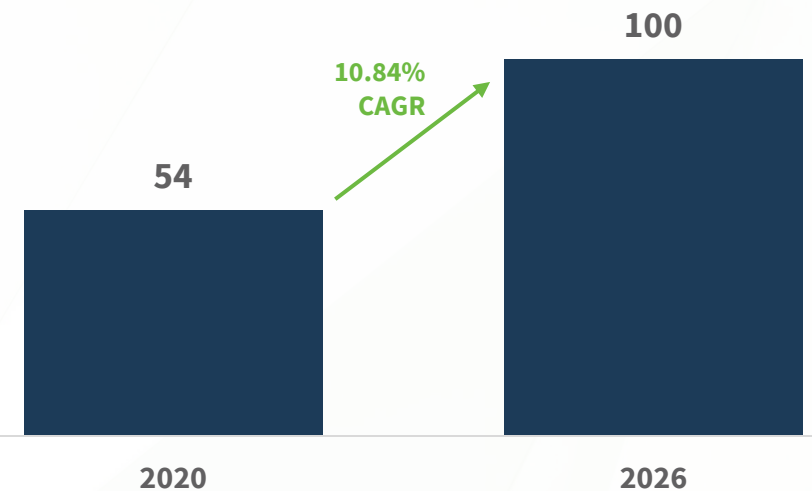


Silicon-proven technology

Volume production expected 2023

* Includes employees and contractors

Global NVM Market (US\$B)*



NVM = Non-Volatile Memory

* Source: MarketsandMarkets; company data

World-Renowned Board of Directors

David (Dadi) Perlmutter
CHAIRMAN



Dr. Yoav Nissan-Cohen
EXEC. DIRECTOR



Atiq Raza
NON-EXEC. DIRECTOR



Fred Bart
NON-EXEC. DIRECTOR



Ashley Krongold
NON-EXEC. DIRECTOR



Coby Hanoch
CEO



Strong and Experienced Management

Coby Hanoch
CEO



Ishai Naveh
CTO



Amir Regev
VP TECH.
DEVELOPMENT



Ilan Sever
VP R&D



Eran Briman
VP MARKETING &
BUSINESS DEV.

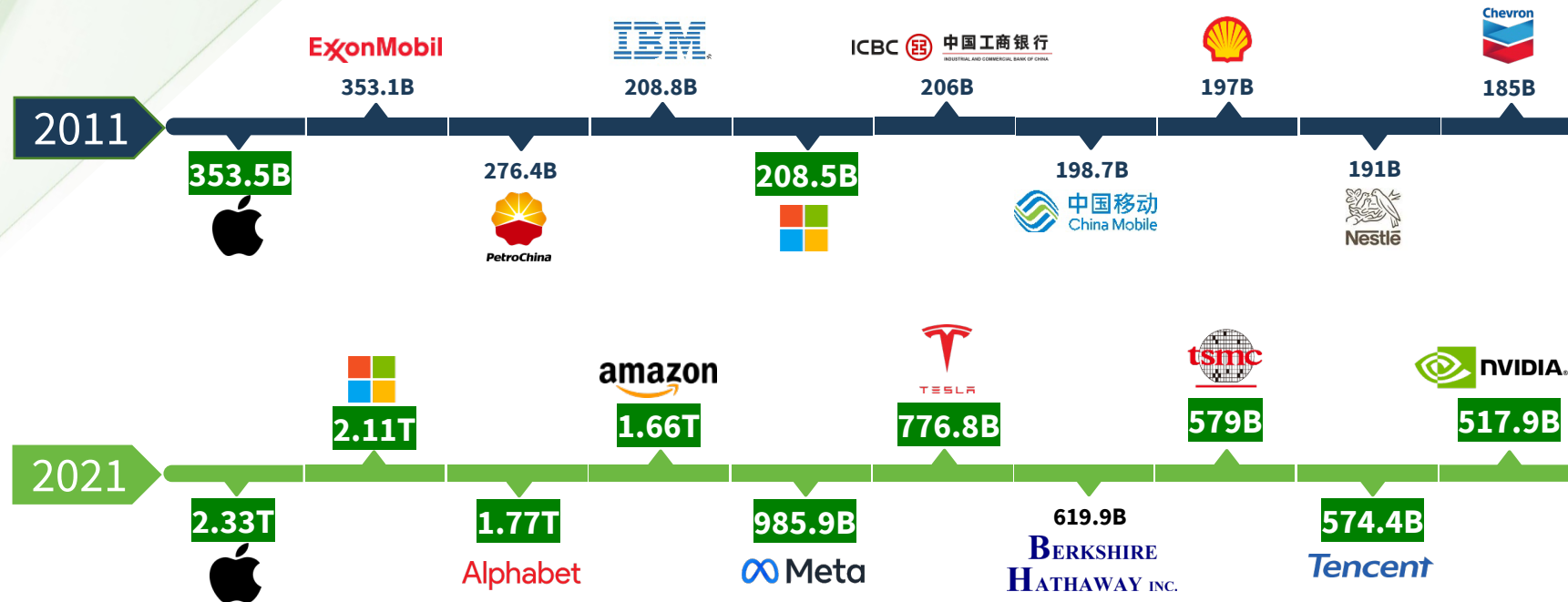


Alla Felder
CFO



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

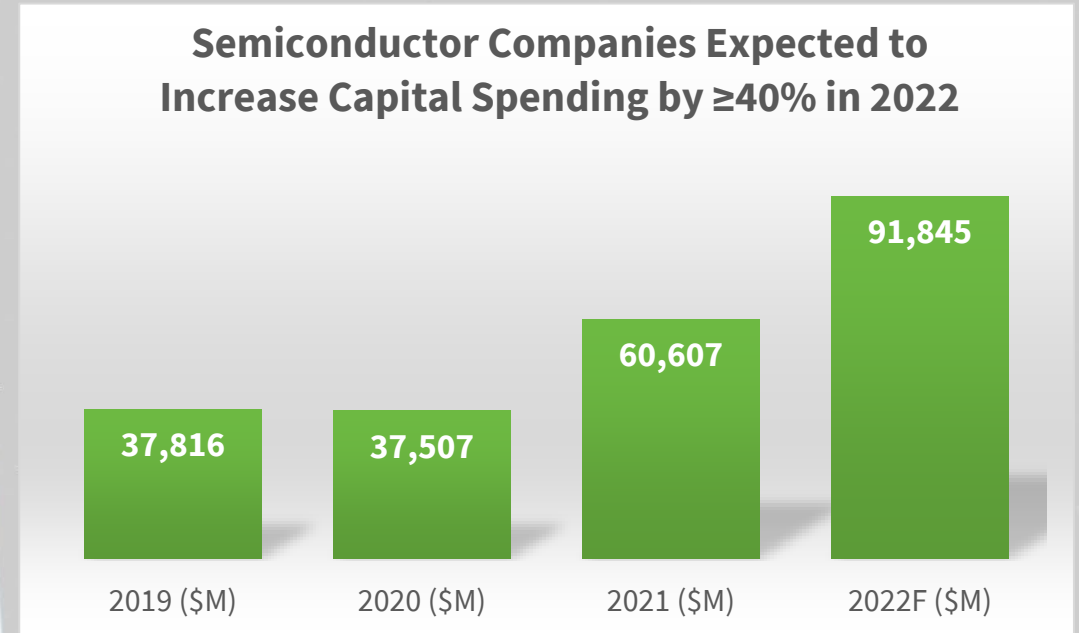


Source: Charts show data from Q3 2011 and Q3 2021 https://en.wikipedia.org/wiki/List_of_public_corporations_by_market_capitalization#World_Largest_market_capitalization_companies

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



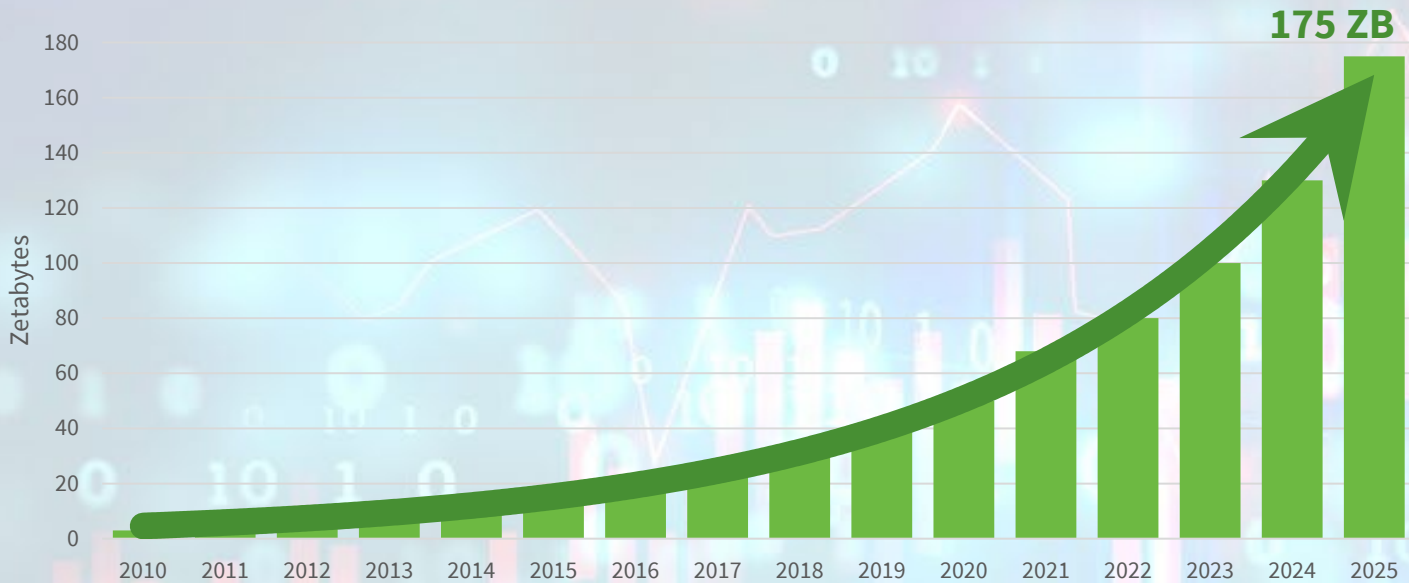
* Includes 13 companies; Source: [IC Insights 2022](#)

- ◆ Memory = 35% of fab equipment spending 2022-2023
- ◆ Memory + foundry represent most of the capacity increases

– SEMI, March 2022

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

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

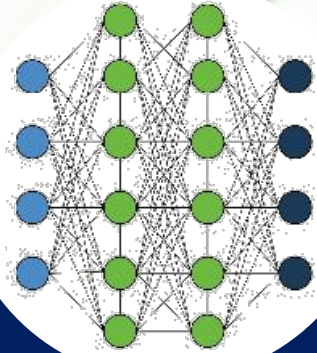
Edge AI Chipsets
2021-2028 \$8B → **\$28B** (28% CAGR)



Aerospace & Defense

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

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

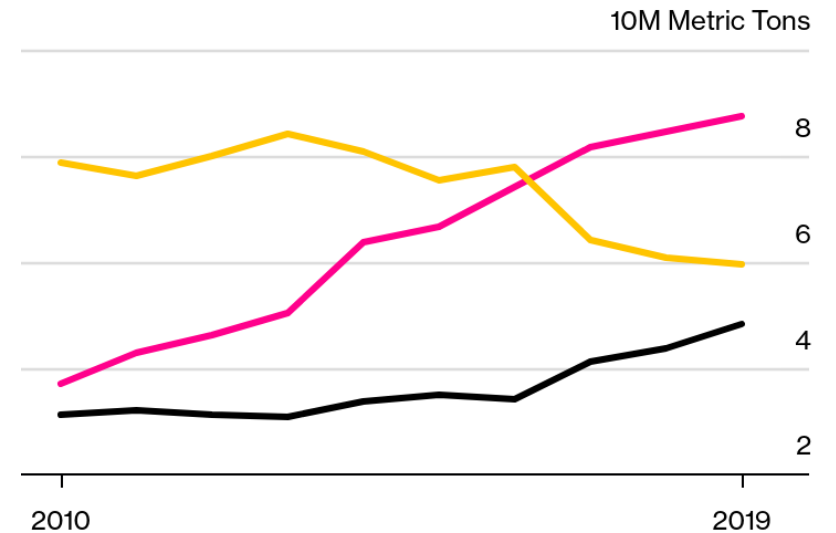
Conducting a lifecycle analysis (LCA) to study environmental impact of ReRAM vs. other NVMs

- ◆ 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

Intel TSMC GM



Source: Company disclosures

Note: Metric tons of green house gas emissions

Bloomberg

Significant Progress in Last 6 Months



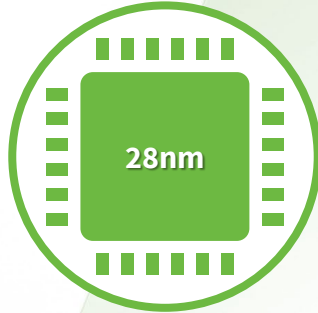
AUG. 2021

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

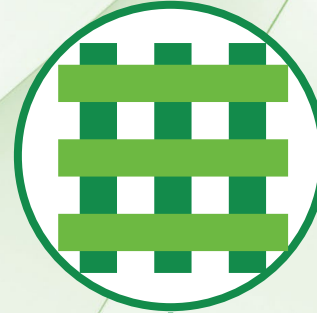
Raised additional \$36m in ASX
Total cash position now ~\$45M



DEC. 2021

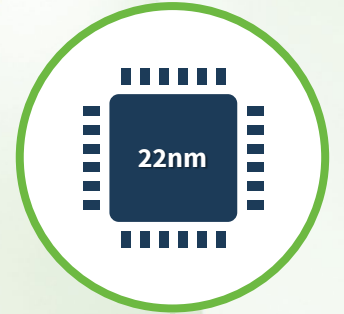
Received first module wafers from Leti

Currently testing packaged chips



JAN. 2022

Demonstrated 1S1R Crossbar Arrays

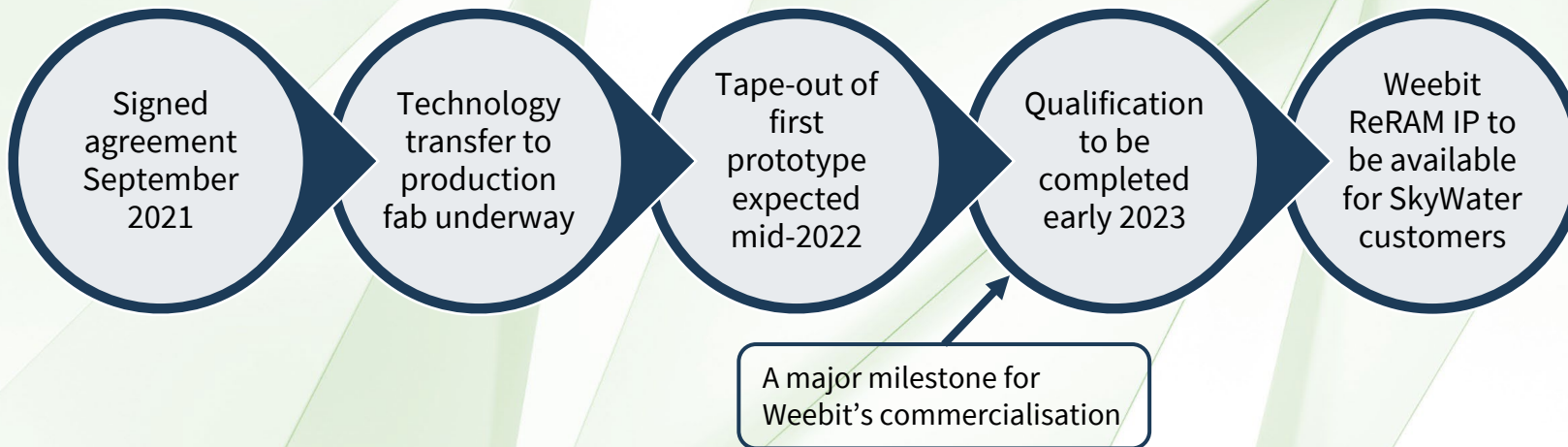


MAR. 2022

Scaling the technology to 22nm FD-SOI

First Commercial Deal

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



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

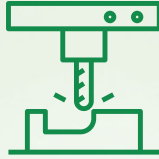
PLACEMENT'S CORNERSTONE INVESTOR:

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

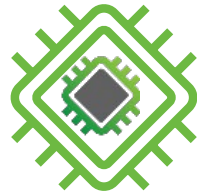
S&P Dow Jones
Indices



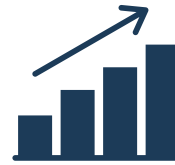
WBT:ASX
On ASX All Ords Index



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



Thank You!

weebit-nano.com



Weebitnano
The Future Memory

Disclaimer

This presentation contains certain statements that constitute forward-looking statements. Examples of such statements include, but are not limited to, statements regarding the design, scope, initiation, conduct and results of our research and development programs; our plans and objectives for future operations; and the potential benefits of our products and research technologies. In some cases, forward-looking statements can be identified by the use of terminology such as “may,” “will,” “expects,” “plans,” “anticipates,” “estimates,” “potential” or “continue” or the negative thereof or other comparable terminology. These statements involve a number of risks and uncertainties that could cause actual results and the timing of events to differ materially from those anticipated by these forward-looking statements. These risks and uncertainties include a variety of factors, some of which are beyond our control. All forward-looking statements and reasons why actual results may differ are based on information available to us when initially made, and we assume no obligation to update these forward-looking statements or reasons why actual results might differ or the information set forth herein.

In addition, we do not make any representations or warranties, express or implied, with regard to the information included in this presentation of any other related document or information disclosed or furnished in connection thereto, including, without limitation, with respect to the accuracy, reliability, completeness or its sufficiency for any particular purpose. This information is proprietary and confidential of Weebit and is provided on a confidential basis and may not be disclosed or used without our prior written consent. You acknowledge that the disclosure and use of the information may be further prohibited under applicable securities or other laws.

This presentation is made for informational purposes only and does not constitute an offer to sell any interest in Weebit nor does it form the basis of any contract or agreement between the parties.

Third party data

This presentation includes or is otherwise based on information obtained from publicly available information, including data from various independent research firms and industry associations as noted, and (iii) other information publicly released by corporations and government departments. Weebit has not independently verified or audited this information or any information. Accordingly, the accuracy and completeness of such information is not guaranteed. This data has been accurately reproduced and, as far as Weebit is aware, no facts have been omitted that would render the information provided inaccurate or misleading. Investors should note that market data is inherently predictive and subject to uncertainty and is not necessarily reflective of actual market, industry and macroeconomic conditions. Specifically, there is no assurance that any of the forecasts or projections will be achieved. Forecasts and projections involve risks and uncertainties and are subject to change based on various factors, including those discussed above.