



# Weebitnano

The Future Memory

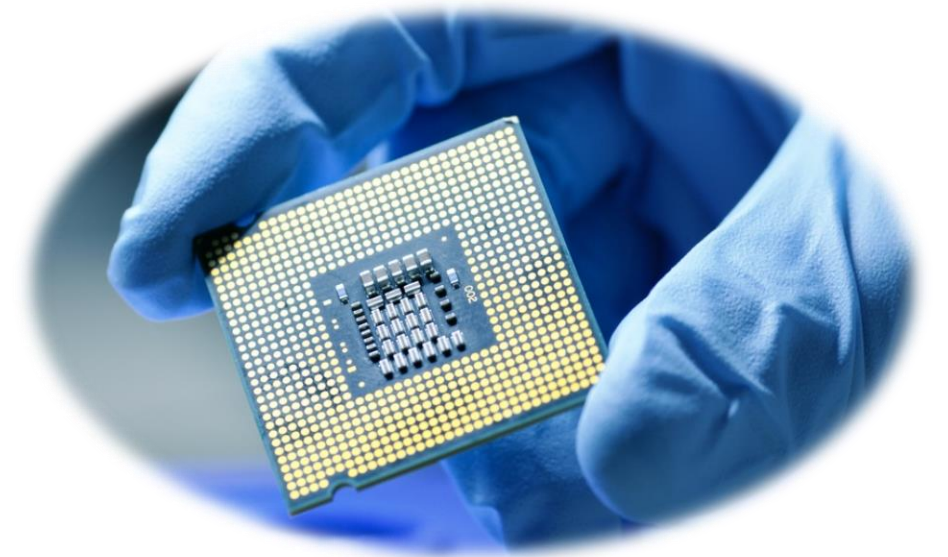
Q1 FY22: our most successful quarter ever

29 October 2021

# Delivering our most successful quarter ever

## Achieving key business and technical milestones

- ◆ Weebit secured its first commercial deal, licensing its ReRAM technology to volume production with US-based semiconductor foundry SkyWater Technology Inc.
- ◆ ReRAM technology successfully demonstrated at 28nm
- ◆ Expanded strategic development partnership with CEA-Leti to enhance ReRAM offering and support commercialisation
- ◆ Filed a new patent optimising ReRAM power consumption
- ◆ Progressing ongoing discussions with potential production partners and customers



# Validation of Weebit Nano's ReRAM technology

## Agreements with SkyWater take Weebit Nano's innovative ReRAM technology to volume production

- ◆ License to SkyWater to manufacture in their Minnesota fab, designs from customers worldwide, containing Weebit Nano's ReRAM technology
- ◆ Technology will be qualified in SkyWater's Minnesota production fab; aiming for volume production by the end of 2022
- ◆ Weebit Nano and SkyWater will cooperate in marketing and sales activities
- ◆ SkyWater selected Weebit Nano's technology due to its technical excellence, maturity and robustness
- ◆ Typical IP licensing business model, based on upfront license fees + on-going royalties based on production volumes
- ◆ SkyWater is dedicating a significant amount of time and resources to support commercialisation of Weebit's technology

**Commences the growth trajectory for Weebit Nano's cutting-edge technology onto customers' chips**



# Successful demonstration at 28nm

## A key step in productising the technology for the embedded memory market

- ◆ Weebit and development partner CEA-Leti demonstrated excellent results of Weebit's ReRAM technology at 28nm on 300mm wafers – a key step towards productisation of embedded Non-Volatile Memory (NVM) for AI, autonomous driving, 5G and advanced IoT
- ◆ Testing showed very good endurance and data retention alongside other production-level parameters
- ◆ The 28nm geometry is very popular and widely used in a range of advanced embedded applications
  - ◆ Mark Liu, Chairman of TSMC, the world's largest fab, recently called 28nm 'the sweet spot for our embedded memory applications' since the 28nm geometry is widely deployed in a range of applications and is considered the gateway to the most advanced process nodes
- ◆ Existing embedded Flash technology has scaling challenges below 40nm and is not a viable option in these geometries
- ◆ Weebit's ability to support smaller geometries expands its range of potential industries and applications

# Expanded partnership with CEA-Leti

## Strategic development partnership to enhance ReRAM offering and support commercialisation

- ◆ Ongoing strategic partnership with French research institute CEA-Leti expanded to broaden the scope of the IP co-operation between the two companies
- ◆ Under the new agreement, Weebit is licensing additional IP from CEA-Leti to continue to improve the endurance, retention and robustness of its ReRAM technology
- ◆ The integration of CEA-Leti's IP has improved Weebit's array-level endurance by an order of magnitude while data retention increased 2x compared to previous results under the same conditions
- ◆ These improvements enable Weebit to address new high-volume markets such as automotive and smart cards that require high-temperature reliability up to 175°C and high-temperature compatibility for wafer level packaging

# Looking ahead

## Weebit plans to achieve the following milestones by the end of CY22

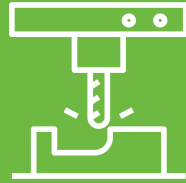
- ◆ Complete the transfer of embedded ReRAM technology to SkyWater's US production fab
- ◆ Run the qualification process at SkyWater
- ◆ Provide functional test results of embedded ReRAM module
- ◆ Sign new licensing agreements with customers
- ◆ Continue with development of discrete memory technology



# Key Takeaways



Weebit's leading ReRAM (NVM) solution can replace Flash memory



Technology now transferred to a production fab



Signed first licensing deal with SkyWater Technologies. Ongoing discussions with other customers



Renowned Board & management team with extensive semiconductor commercialisation experience



Demonstrated combined ReRAM cell with OTS selector for discrete memory Market (Industry's 1st)

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A close-up, artistic photograph of a microchip or circuit board. The chip is illuminated with vibrant green and blue light, creating a grid-like pattern of light trails. The background is dark with bokeh light effects in various colors like red, yellow, and blue.

# Thank You!

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