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In this presentation, all \$ dollar amounts are in Singapore dollars unless otherwise specified.

AEM Corporate Profile

AEM is a global leader in the fast growing **Test 2.0** market, delivering application-specific intelligent system test and handling solutions for semiconductor and electronics companies serving the advanced computing, 5G, and AI markets.





Leader in Fast Growing Test 2.0 Market

Test 2.0 growth is driven by advanced packaging & integrated logic.
AEM has over **1,000** Test 2.0 tools in production



Full Stack Technology

Delivering **composable** technologies and solutions for advanced, integrated semiconductor test needs



Deploy at Scale

Critical delivery capabilities giving our customers a reduced time to market



2016-2022* Rev. CAGR

51%

9M2022 Results Revenue: **\$\$746.6M** PBT: **\$\$141.4M** FY2022 Guidance **\$\$820M to \$\$850M**





Listed on SGX

Market Cap: ~S\$1.0B* AEM Holdings Ltd. (SGD: AWX) (USD: XWA)

MANUFACTURING PLANTS

DIRECT ENGINEERING / SALES SUPPORT

VEN

* As at 4 Nov 2022

Mid- to long-term outlook is bright, with advanced packaging growing from 40% in 2020 to more than 60% in 2030



2021 vs. 2030 Market by Device Type (US\$B)



1 Fundamental trends favor Test 2.0

- Advanced packaging forecasted to make up more than 60% of the packaging market by 2030, from 40% in 2020 (Source: The Insight Partners)
- Logic device revenue expected to double from US\$248B to US\$508B
- Intel's process roadmap is aimed at obtaining process performance parity in 2024 and leadership in 2025 via RibbonFET, PowerVia, Foveros Omni and Foveros Direct, and eventually Intel's 20A process node (Source: AnandTech.com)
- The West is expected to increase investments with a large part of assembly and test concentrated in SEA (Source: AEM analysis)

2 Consensus view that semiconductor market will grow to \$1tn by early 2030s

- Compute / Al, Automotive, data storage, and wireless are the key segments driving growth (Source: McKinsey & Co, IC Insights)
- Short-term geopolitical uncertainty may slow down China's growth temporarily, but should drive increased investment in the West (Source: AEM Analysis)

3 300mm fab capacity to grow at a 10% CAGR from 2022 to 2025, with 9.2 million wafer per month

- Investments in new fabs / lines (~67) are expected to start between 2022 and 2025 (Source: SEMI.org)
- Back-end capacity has not yet seen an increase to accommodate front-end production increases (Source: SEMI.org)

Industry Megatrends and Test Challenges

Driving Secular Growth In Test



Industry Megatrends

5GHigh-speed, low-latency, and omnipresent connectivity opens a vast array of new applications and use cases



Artificial Intelligence Growth of AI enables new business models and unlocks increasing value from data



Proliferation of IoT enabled devices and the cloudification of data requires increased power in the cloud and at the edge



Automotive
Electrification of vehicles, introduction of autonomous driving capabilities, and digitalization

Device Volumes Increasing



Test Challenges



Increasing
Device
Complexity



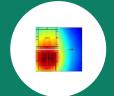
Increasing Power Requirement



Adoption of Advanced Packaging



Increasing Test Development Times



Increasing Thermal Challenges



Increasing Test Coverage Requirements

Device Test Times Increasing



Growth In Test Spend

Full Stack Solution

Composed for the Customer's Modern Test Needs









Software

Integration

HANDLERS

Wafer, Packaged, MEMS, Module, & System Level Test



Test Cell Automation

Test & Instrumentation Solutions

Device Sockets



Load Boards

Organic R&D

Test 2.0 And Our Composable Solutions are Enabled by AEM's Core Capabilities



TECHNOLOGY

Test Handlers





Test Cell Automation

Final Test Handlers

Thermal Arrays / Kits / Sockets





System Level Test Consumables

Semiconductor Testers







Intelligent **Load Boards**

Application Specific Wafer Probers



Humidity, Pressure, Gyro, Motion, Cryogenic, ATC

Software Integration



DELIVERY

Interconnect Testers







Cable Testers, Vector Network Analyzers

AEM's Business Model





Business Model

- Growing recurring demand for kits, pans, and spares underpinned by a growing install base of >1,000 Test 2.0 tools
- Grow share of wallet of the overall consumable stack within each tool





Benefits

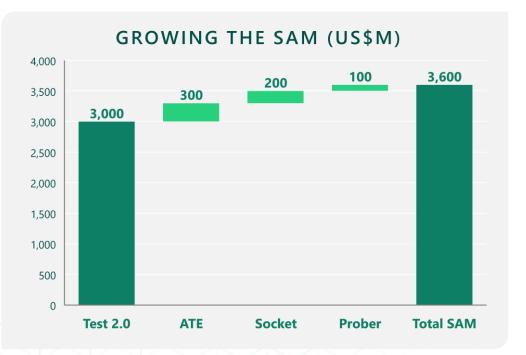
- ✓ Mitigate volatile equipment sales
- ✓ Bolster profitability with higher margin consumables
- ✓ Increase customer intimacy



✓ AEM's SAM for Test 2.0: US\$3.0B

✓ Growing the SAM by expanding capabilities

- ATE: US\$300M out of total US\$5,400M market
- Socket: US\$200M out of total US\$1,500M market
- Prober: US\$100M out of total US\$1,100M market



Source : AEM estimates



- Delivered highest 9M revenue and PBT in AEM's history at **\$\$746.6M** (+121% y-o-y) and **\$\$141.4M** (+123% y-o-y) respectively
- Reported EPS of 36.95 SG cents in 9M2022, a 99% y-o-y increase from 18.58 SG cents in 9M2021
- Continues to have a strong balance sheet with NAV per share of 156.3 SG cents as at Sep 30, 2022 compared to 130.0 SG cents as at Dec 31, 2021, a 20% increase
- Maintaining FY2022 revenue guidance between S\$820M and S\$850M on the back of strong demand from existing and new customers
- Continue to work with the three previously mentioned new customers, and are on the critical path for the release of their next generation devices

9M2022 Financial Highlights

Highest 9 months results recorded



9M2022 vs 9M2021

Revenue

S\$746.6M

+121% vs 9M2021

PBT

S\$141.4M

+123% vs 9M2021

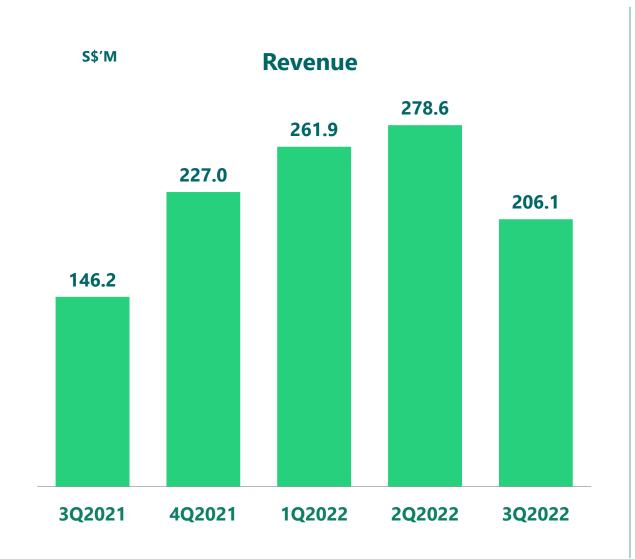
NAV per share

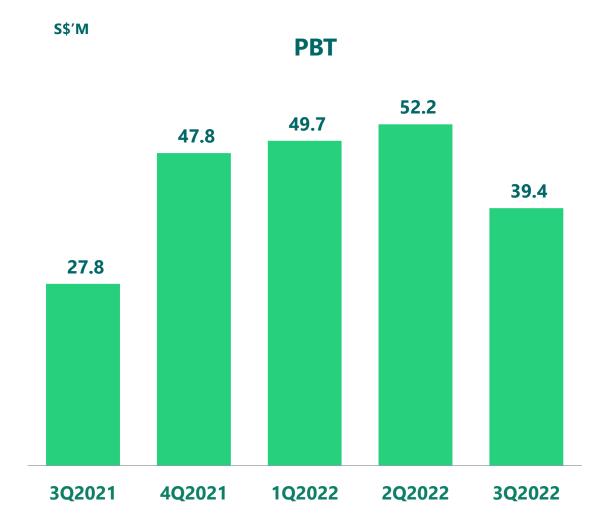
156.3 cents

+20% vs Dec 31, 2021

Quarterly Revenue and PBT



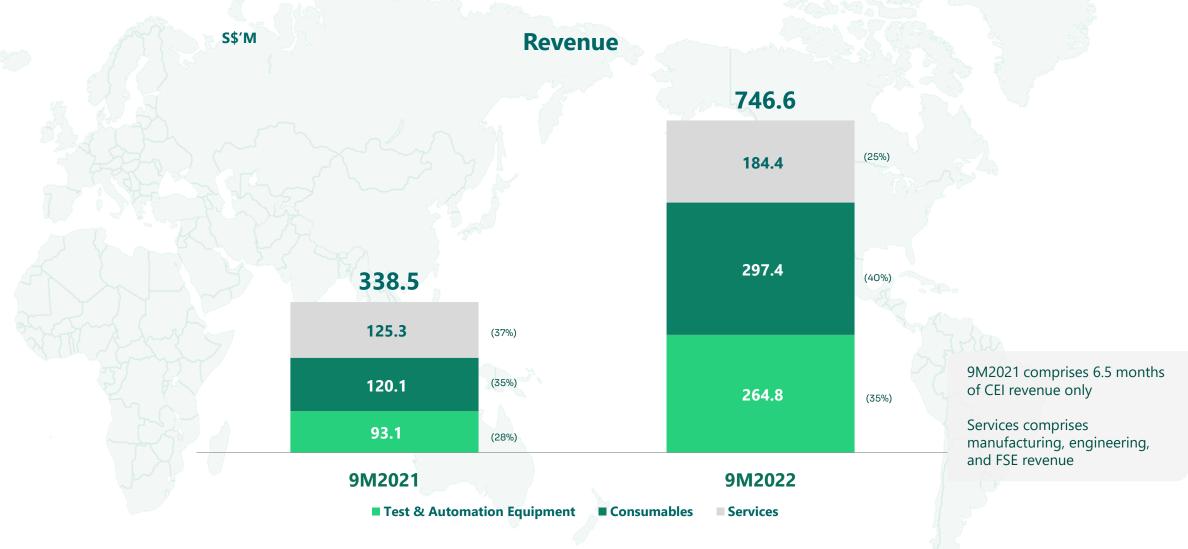




Revenue Mix

Consumables and Equipment revenue more than doubled

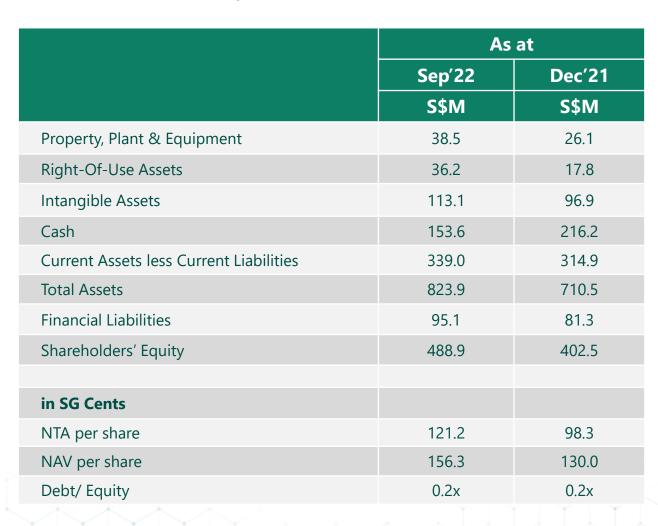




A Robust Balance Sheet

Sound capital structure – Debt/Equity ratio of 0.2X NAV per share increased mainly due to \$115M profits earned for 9M2022







Highlights

Net Current Assets (+S\$24.1M)

Increased mainly from:

 Higher inventory level in 9M2022 to ensure parts and components availability for upcoming delivery

Shareholders' Equity (+S\$86.4M)

Increased due to profit contribution in 9M2022 of S\$115.3M partially offset by dividends paid in 2022 of S\$36.2M



Thank You

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