

1H 2020 Results Presentation

AEM Holdings Ltd | August 4, 2020

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



Corporate Profile

AEM is a global leader in application specific intelligent system test and handling solutions for semiconductor and electronics companies serving advanced computing, 5G and AI markets



Listed on SGX

Market Cap ~S\$1B

AEM Holdings Limited (AWX.SI)



Revenue

2018: S\$262.3M

2019: S\$323.1M

1H20: S\$273.7M

2020: Guidance of S\$460M - S\$480M



Profit Before Tax

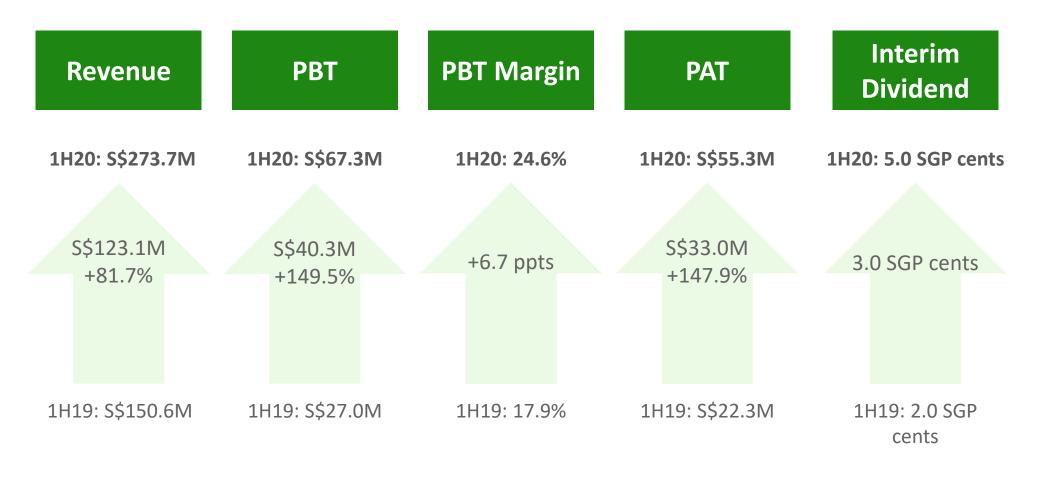
2018: S\$40.0M

2019: S\$63.7M

1H20: S\$67.3M

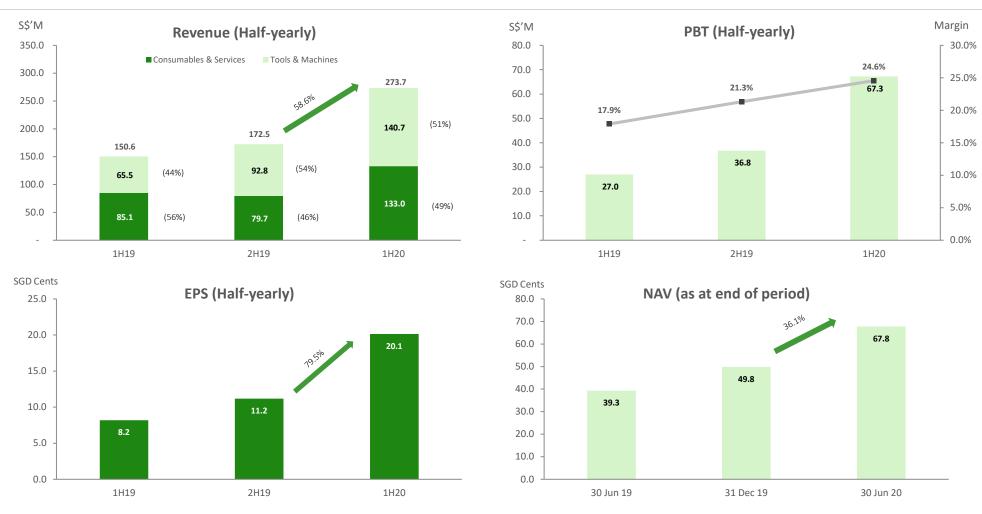


1H20 Financial Highlights





1H20 Financial Performance

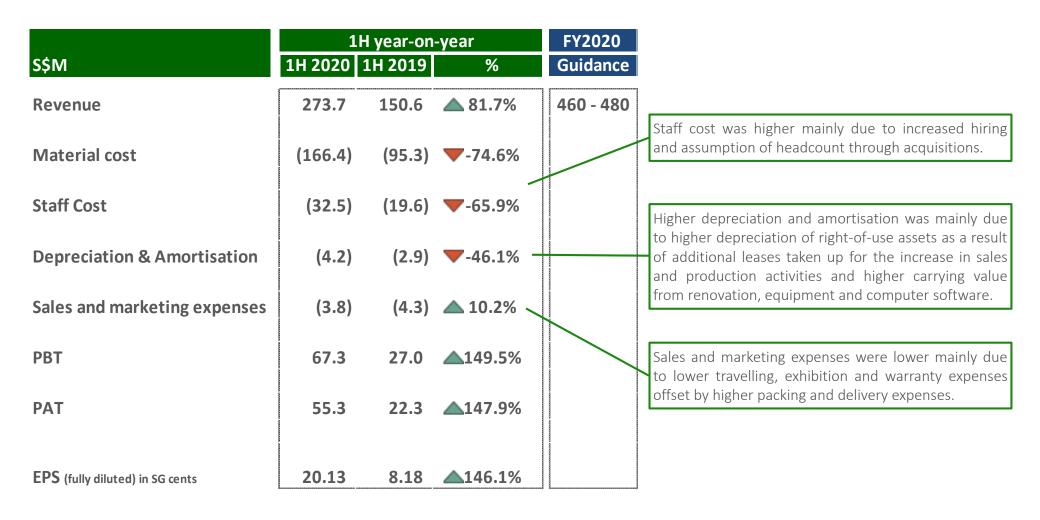


Half-yearly sales improved y-o-y and sequentially mainly due to strong sales orders for test handlers, pans and kits.

Half-yearly PBT margin improved y-o-y and sequentially mainly due to higher sales, favourable product mix and operating cost efficiency

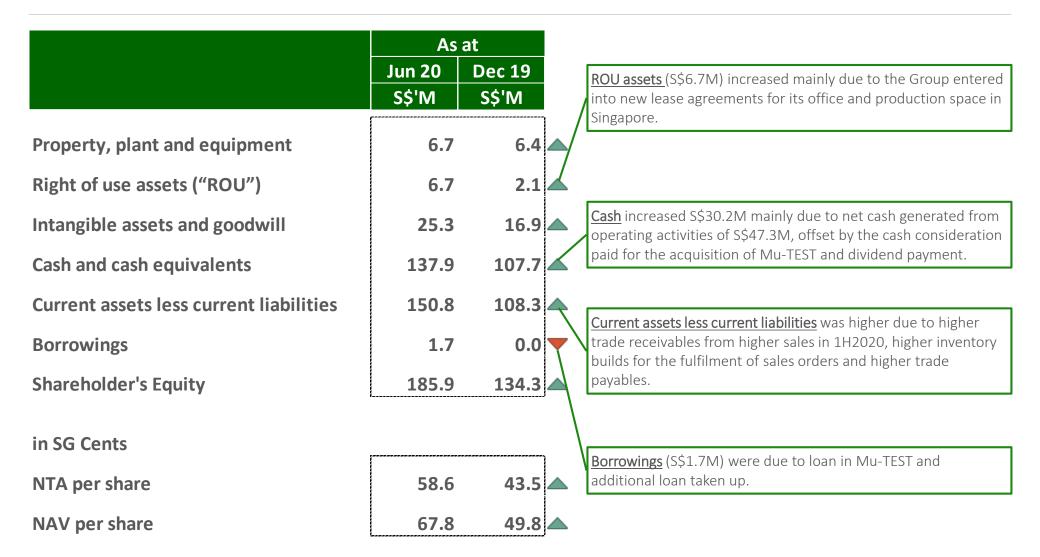


Profit & Loss Highlights





Balance Sheet at a Glance





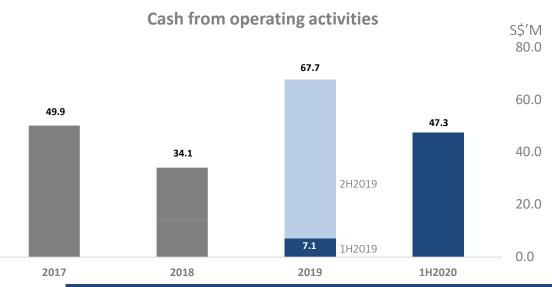
1H20 Sources and Applications of Funds

Cash increased by S\$30.2M in 1H20

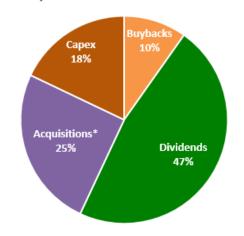
		S\$M
	Beginning Cash 1 Jan 2020	107.7
Operating Activities S\$47.3M	PAT	55.3
	Depre & Amort	4.2
	Working capital & others	(12.2)
Investing Activities (S\$9.7M)	Capital expenditure	(1.6)
	Acquisition of Mu-TEST	(8.1)
Financing Activities (S\$8.8M)	Share buyback	(1.8)
	Proceeds from ESOS exercised	2.6
	Dividends paid	(8.5)
	Lease payment & other financing	(1.1)
	Effect of exchange rate changes	1.5
	Ending Cash 30 Jun 2020	137.9



Generated S\$47.3M Cash From Operating Activities in 1H20



Cumulative Capital Allocation Breakdown 2017 - 1H2020

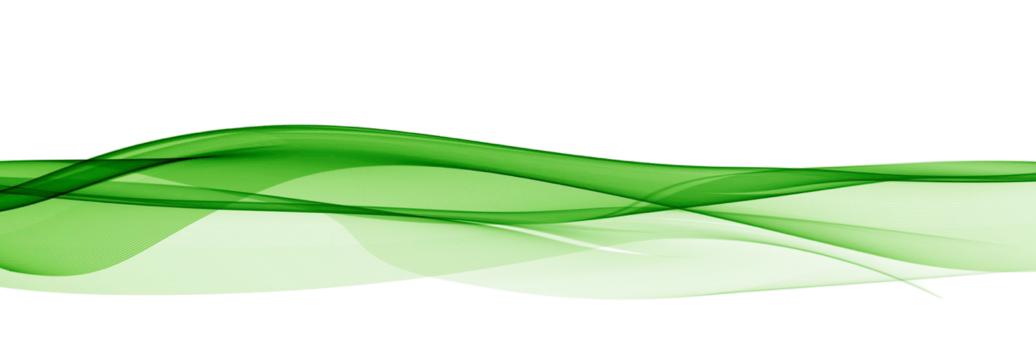


S\$'M	2017	2018	2019	1H 2020	Cumulative
Buybacks	2.0	1.2	1.7	1.8	6.6
Dividends	4.5	8.4	10.5	8.5	31.9
Acquisitions*	-	8.8	-	8.1	16.9
Capex	2.5	4.7	3.3	1.6	12.1
Total	8.9	23.1	15.5	20.1	67.6
Free Cash Flow*	41.0	11.0	52.1	27.3	131.4

*Note: Free cash flow = cash from operating activities – buyback – dividends – acquisitions – capital expenditure Acquisitions in 2018: InspiRain S\$0.5M, Afore S\$7.8M, IRIS S\$0.5M

Acquisitions in 2019 : Mu-TEST S\$8.1M





Business & Operational Updates

1H2020 Key Updates

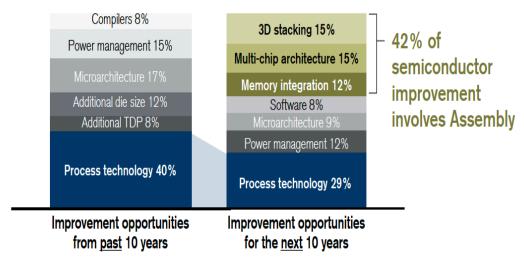
- Next generation handler for key customer is on track for FY 2021 production volume ramp
- Completed the acquisition of DB Design
 - Established developer of high specification test change kits and contactors
 - Operationally accretive to AEM's consumables business US application engineering footprint
 - Leverages AEM's consumables manufacturing capabilities across Asia
- Integration of Mu-TEST is going well
 - Building up complementary Singapore development capabilities
 - Recent collaboration with UTAC
 - Joint customer engagement with AMPS
- Afore and TMS are picking up pace post-COVID lockdowns
- M&A program continues



Semiconductor Industry is moving beyond Moore's Law – Complex IC architectures are driving demand for System Level Test

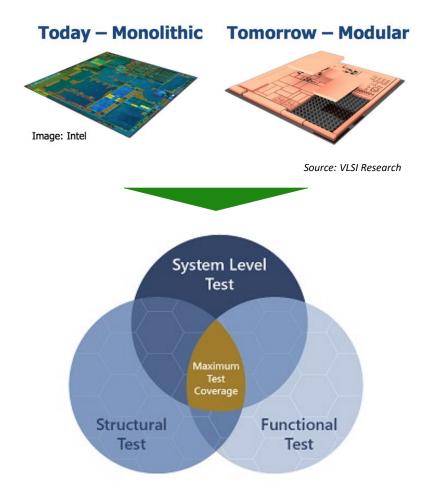
Increasing complexity of ICs and heterogeneous packaging has caused the industry to rethink the extensibility of ATE

Assembly is key to unlocking future improvement opportunities



Source: Company presentations, Gartner and Wall Street Research.

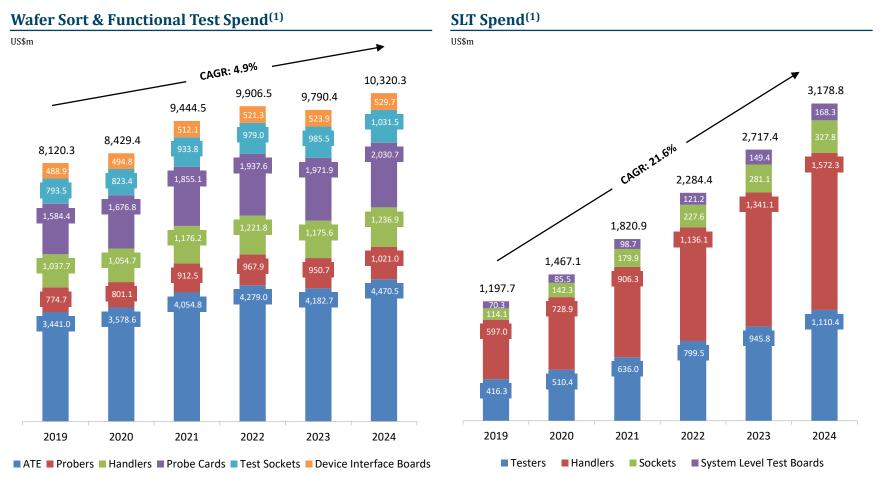
Note: AMD & ASML investor presentations.





Semiconductor Back-End Market Data

Over the forecast period, SLT is expected to grow 4.4x faster than wafer sort and functional test



Note: (1) For memory and non-memory applications





AEM – Driving a Paradigm Shift From Functional to Modular Testing (SLT 2.0)

Conventional Test Cells SOC ATE Tester with PNP handler



Modular Test Cell

AMPS Handler with multiple Modular Testers



Key advantages

Test Cell Cost Reduce cell cost by up to 1/5th of conventional cell cost

Throughput Increases by asynchronous testing of multiple sites

Temperature Testing from sub zero to high temperature.



AEM's Technology Pillars Enable a Redefinition of the Test Cell

AEM's technology and product portfolio offers a diverse set of growth vectors, sector-wise, while geographically AEM is well-positioned to take advantage of the geopolitical turmoil facing the world today.

Non-Digital Probers

Pressure, Temp., Motion, Optical



MEMS, Quantum Computing

TAM: US\$50m

AEM Sales: FY19 - S\$2.8m

FY18 – S\$1.1m

Enabling Technologies

Multi-stimuli probers
Wafer Level Handling, Advanced PNP
Multi Autonomous Robotic Sys
Active Thermal Control
Advanced Vision
Mixed Mode VNA
Digital, RF test capability
FPGA programming & IP

Test Handlers

Wafer, Strip, Package, Module, Panel



System Level Test



MEMS Test

TAM: US\$600m

AEM Sales: FY19 - S\$177.9m

FY18 - S\$135.5m

Pans / Kits / Sockets





System Level Test Consumables

TAM: US\$300m

AEM Sales: FY19 - S\$139.5m

FY18 – S\$124.7m

Semiconductor Testers

Digital, Mixed Signal, Power / DPS





Low Cost ATE

Intelligent Load boards

TAM: US\$1,200m

Sales: Mu-Test (Acquired 03/20)

Interconnect Testers







Cable Testers, Vector Network Analyzers TAM: US\$500m

AEM Sales: FY19 – S\$2.9m

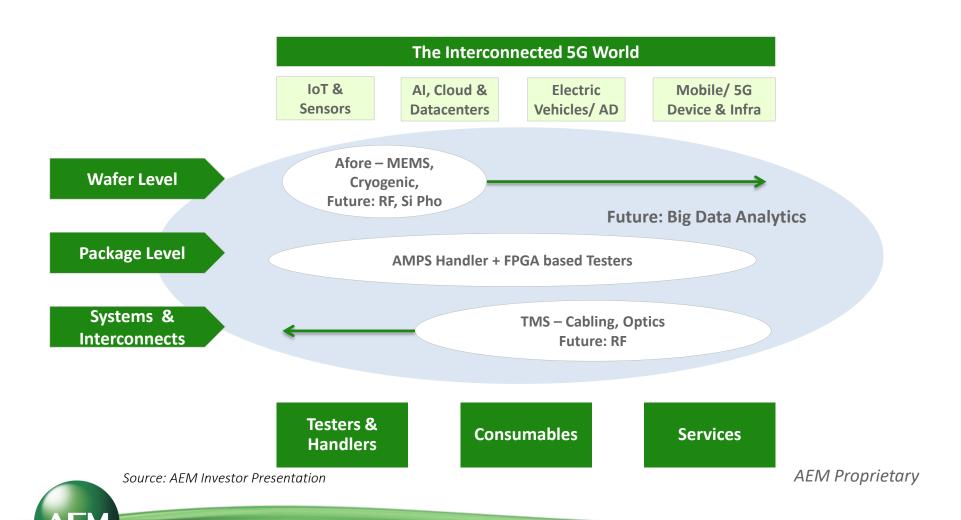
FY18 - S\$1.0m



Source: AEM analysis

A Disruptive Vision of Low-Cost Test Solutions for the 5G Economy

By designing test systems with programmable logic and rethinking test flows with Big Data, AEM now offers the lowest cost of test for MEMs, packaged ICs, and RF interconnects





THANK YOU

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