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FY2017 3Q Information Meeting

January 30th, 2018
Advantest Corporation

NOTE

Accounting Standards

Our results and outlook, described in this presentation, have been prepared in accordance with IFRS.

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Financial Results for 3rd Quarter of FY2017

(Period ended December 31st, 2017)

Advantest Corporation

Atsushi Fujita

Managing Executive Officer

			FY2016			FY2017			QoQ		(¥B YoY	
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	(Δ)	(%)	(Δ)	(%)
Orders		43.8	28.5	44.0	48.4	49.4	56.2	56.8	+0.6	+1.0%	+12.8	+29.0%
Sales		40.7	35.5	31.4	48.3	40.7	47.7	50.9	+3.2	+6.6%	+19.5	+62.1%
Gross Profit Gross Profit Margin		25.3 62.2%	21.0 59.3%	18.1 57.6%	25.3 52.4%	20.6 50.6%	24.9 52.1%	23.2 45.8%	-1.6 -6.3pts	-6.4%	+5.2 -11.8pts	+29.0%
Operating Income		5.7 14.1%	2.6 7.3%	1.0 3.1%	4.6 9.5%	2.2 5.5%	5.2 10.9%	3.2 6.4%	-2.0 -4.5pts	-37.7%	+2.3 +3.3pts	+232.3%
Income Before	Тах	6.2	2.9	0.6	5.3	1.6	4.8	3.4	-1.4	-29.3%	+2.8	+438.7%
Net Income Net Income Marg	n	5.0 12.2%	2.3 6.4%	0.1 _{0.4%}	6.8 14.1%	1.0 2.4%	3.9 8.2%	2.6 5.0%	-1.4 -3.2pts	-35.3%	+2.4 +4.6pts	x22.7
Backlog		36.5	29.5	42.2	42.2	50.9	59.4	65.3	+5.9	+9.9%	+23.1	+54.9%
Exchange Rate	1 US\$	¥111 ¥124	¥104 ¥116	¥105 ¥115	¥115 ¥122	¥112 ¥121	¥111 ¥128	¥112 ¥132		preciation		oreciation

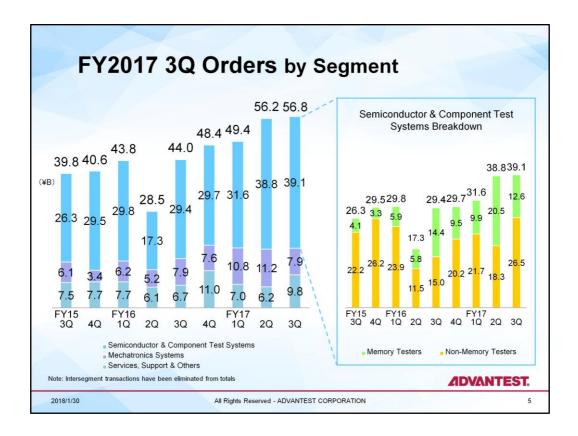
O FY2017 3Q Results Summary

•	Orders	¥56.8 billion	+1.0%	+0.6 billion QoQ
•	Sales	¥50.9 billion	+6.6%	+3.2 billion QoQ
•	Gross Profit	¥23.2 billion	-6.4%	-1.6 billion QoQ
•	Operating Income	¥3.2 billion	-37.7%	-2.0 billion QoQ
•	Income Before Tax	¥3.4 billion	-29.3%	-1.4 billion QoQ
•	Net Income	¥2.6 billion	-35.3%	-1.4 billion QoQ

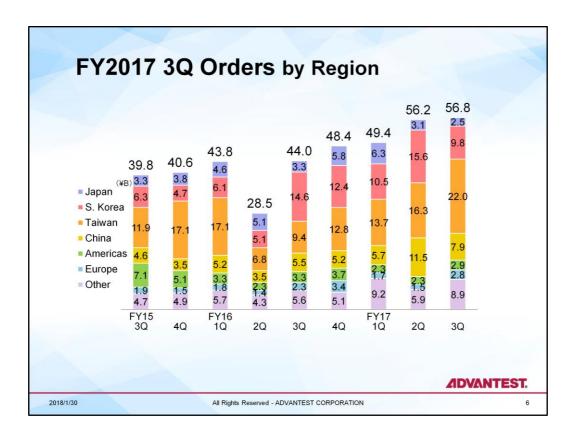
- Demand for non-memory testers rose and orders exceeded internal company projections.
- As a general rule, sales slacken in the third quarter, but this year brisk sales of memory testers and a recovery in non-memory testers drove a revenue increase.
- Profit decreased QoQ due to a 3.3 billion write-down of inventories in our nanotechnology business, which will be explained later in this presentation, but still rose YoY.

• Backlog ¥65.3 billion, up ¥5.9 billion

Actual exchange rate ¥112/US\$, ¥132/Euro



- O FY2017 3Q Orders by Segment
- O Semiconductor & Component Test Systems
 - ¥39.1 billion flat QoQ of which, non-memory testers ¥26.5 billion memory testers ¥12.6 billion
 - In the non-memory tester segment, high-end smartphone-related demand grew more than anticipated, and MCU and automotive semiconductor tester demand continued to be strong.
 - Memory testers remained strong, although tester demand for both NAND flash memory and DRAM rebounded to the downside.
- O Mechatronics Systems
 - ¥7.9 billion -30% QoQ
 - Following the trend of tester orders, orders for peripherals used in conjunction with memory testers decreased.
- O Services, Support and Others
 - ¥9.8 billion +56% QoQ
 - Maintenance contracts recovered and orders for SSD testers increased.



O FY2017 3Q Orders by Region

Regions where orders fluctuated notably QoQ:

Taiwan

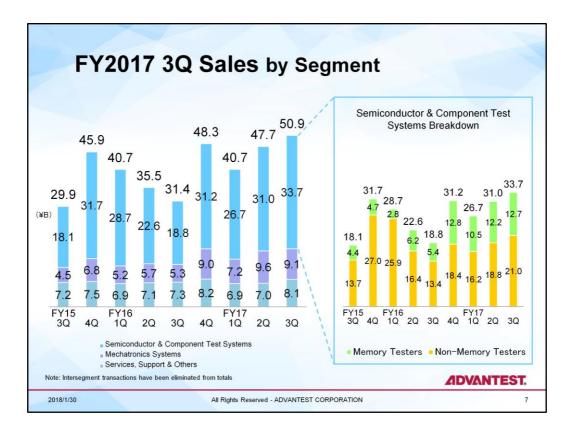
Demand for memory testers declined, but high-end smartphonerelated demand for non-memory testers picked up and more than compensated for the decline in memory tester demand.

Other Regions

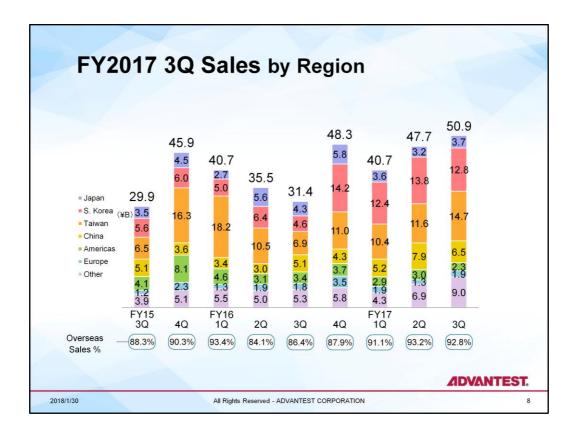
Automotive IC tester demand increased, mostly in SE Asia.

South Korea, China

Despite a temporary slowdown in memory testers, which saw large orders in 2Q, demand continued at a high level.



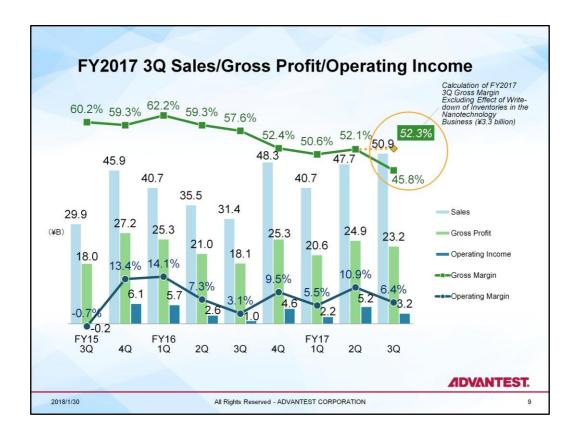
- O FY2017 3Q Sales by Segment
- O Semiconductor & Component Test Systems
 - ¥33.7 billion +9% QoQ
 of which, non-memory testers ¥21.0 billion
 memory testers ¥12.7 billion
 - Sales of non-memory testers rose, thanks to continued automotive-related demand and a recovery in smartphone-related demand.
 - The solid performance of memory testers continued, with sales topping ¥10.0 billion for a fourth straight period.
- Mechatronics Systems
 - ¥9.1 billion -6% QoQ
- O Service, Support and Others
 - ¥8.1 billion +14% QoQ
 - · Field services sales grew.



O FY2017 3Q Sales by Region

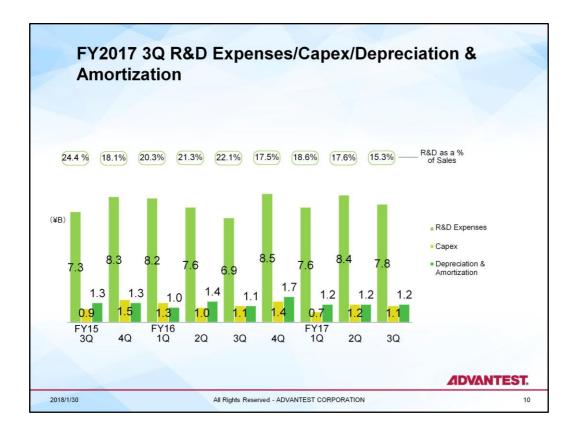
- · There were no notable regional fluctuations.
- In each region, increases or decreases in sales occurred for the same reasons as increases or decreases in orders.
- In Taiwan, sales of testers for semiconductors used in high-end smartphones grew.
- In other regions, sales for automotive semiconductors increased.

As a result, Advantest's overseas sales ratio in 3Q was 92.8%.



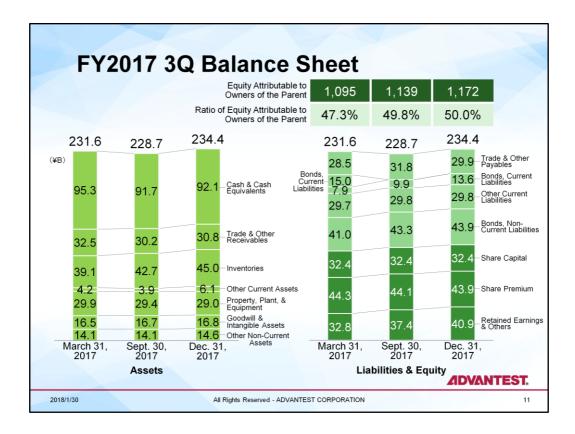
O FY2017 3Q Sales/Gross Profit/Operating Income

- Gross Profit -¥1.6 billion QoQ ¥23.2 billion
 - The decrease was caused by a ¥3.3 billion write-down of inventories in the nanotechnology business.
- Gross Margin -6.3 points QoQ 45.8%
 - Excluding the effect of the write-down in the nanotechnology business, 52.3%.
- SG&A +¥0.4 billion QoQ ¥20.0 billion
 - SG&A increased proportionally to sales.
- Operating Income -¥2.0 billion QoQ ¥3.2 billion
- Operating Margin -4.5 points QoQ 6.4%
- We will explain the background of the write-down of inventories.
- The write-down of nanotechnology inventories occurred because we terminated an ongoing project to enable the mass production of high throughput EB lithography system. The project was intended to grow our business, but technical difficulties and an extended project roadmap informed the decision to terminate it instead of continuing.
- As a result, we recorded a ¥3.3 billion write-down for components for production that we no longer expect to use.



O FY2017 3Q R&D Expenses/Capex/Depreciation and Amortization

- R&D Expenses ¥7.8 billion
 - Accrued bonuses decreased.
- Capex
 ¥1.1 billion
- Depreciation and Amortization ¥1.2 billion



- O Balance Sheet for Period Ending December 31st, 2017
 - Cash & Cash Equivalents: ¥92.1 billion
 ¥0.3 billion up from the end of the previous quarter
 - Inventories: ¥45.0 billion
 - ¥2.3 billion up from the end of the previous quarter
 - Increased inventory consists of long lead-time components purchased in anticipation of increasing tester demand.
 - Equity Attributable to Owners of the Parent: ¥117.2 billion
 - Ratio of Equity Attributable to Owners of the Parent: 50.0%
 0.2 points up from the end of the previous fiscal year



Business Outlook

Advantest Corporation
Yoshiaki Yoshida
Representative Director, President & CEO

Market Forecast for CY2018

	CY17 estimate	CY18 estimate	YoY change		
Non-memory tester market	ca. \$2,200 M	ca. \$2,200~2,300M	ca. +0% to +5%		
Memory tester market	ca. \$750M	ca. \$850~900M	ca. +10% to +20%		

- ✓ We expect the brisk pace of the semiconductor tester market to continue in 2018
- ✓ In addition to steady non-memory tester demand from the automotive and display-related sectors, chip-makers will increase their investments in miniaturization and functionality improvements of logic ICs
- Demand for memory testers is also expected to continue at a high level

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O Tester market forecast for calendar year 2018

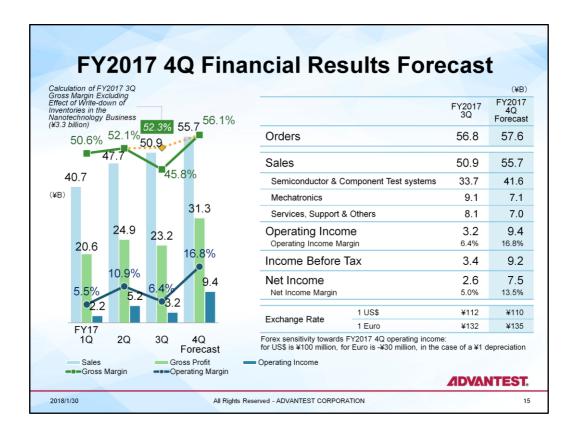
- This is our forecast for the tester market in 2018. Market growth in 2017 exceeded our forecast. We expect further growth in 2018.
- The non-memory tester market in 2017 grew by about 10% on 2016. We are expecting a further 5% growth in 2018. In 2017, tester demand for smartphone-related ICs was sluggish, but growth in non-smartphone-related sectors, e.g. automotive and display, offset this weakness.
- While there was a report today expressing concern for major smartphone model sales, there is no change to our forecast. At this point, we consider the non-memory tester market to be equal to or better than 2017.
- With regard to the 2018 outlook for applications, demand for automotive ICs and display driver ICs, which grew in 2017, will continue strong.
- In addition, high-functionality logic ICs used in smartphones and AI servers will see further miniaturization and functionality improvements. We expect increased investment in testers for these applications.
- The memory tester market in 2017 grew by approximately 70% YoY. We are expecting the market to be around \$850M-\$900M.
- We expect high demand levels to continue, thanks to memory production volume growth and longer test times driven by increasing density.
- Steady investment is forecast to continue in each area, for non-volatile memory such as NAND flash, NOR flash and storage class memory, and also for DRAM.

FY2017 Fina	inolal it	FY2017			(¥B)	
	FY2016	Forecast (October)	Forecast (January)	vs. F (Δ)	Y2016 (%)	
Orders	164.7	188.0	220.0	+55.3	+33.6%	
Sales	155.9	180.0	195.0	+39.1	+25.1%	
Semiconductor & Component Test system	ms 101.3	118.5	133.0	+31.7	+31.3%	
Mechatronics	25.2	30.5	33.0	+7.8	+31.0%	
Services, Support & Others	29.5	31.0	29.0	-0.5	-1.7%	
Operating Income Operating Income Margin	13.9 8.9%	18.0 10.0%	20.0 10.3%	+6.1 +1.4pts	+43.8%	
ncome Before Tax	15.0	17.0	19.0	+4.0	+26.5%	
Net Income Net Income Margin	14.2 9.1%	14.5 8.1%	15.0 7.7%	+0.8 -1.4pts	+5.6%	
Backlog	42.2	50.2	67.2	+25.0	+59.2%	
Annual Dividend Per Share	¥25	¥26	¥26	+¥1		
1 US\$	¥108	¥110	¥111	¥3 Depreciation		
Exchange Rate 1 Euro	¥119	¥130	¥129	¥10 Depreciation		

O FY2017 Financial Forecast

Our full-year forecast for FY2017 is as follows:

- We expect that Advantest will finish the period with a large backlog of over ¥60.0 billion. The tester market will continue to grow in the next fiscal year, so we would like to bring sales up a notch. There is enough room to achieve it. We expect to achieve more than ¥200.0 billion in sales — a level last seen 12 years ago.
- Due to factors such as the ¥3.3 billion write-down in inventories recorded in the third quarter, we expect that operating income margin gains will remain small this year. We will take various measures to increase our operating income margin further next fiscal year.
- Regarding net income in FY2016, our tax burden was rather low due to the effect of deferred tax assets.
- These two factors will result in a small YoY growth in profit this year.
- Dividends are based on semi-annual business performance with a target semi-annual payout ratio of 30%.
- Our dividend forecast for FY2017 remains unchanged. We expect to pay an annual dividend of 26 yen for the year. This is an increase of 1 yen per share compared to the previous fiscal year. The dividend at the end of the interim period was 9 yen, so the year-end dividend is forecast to be 17 yen.

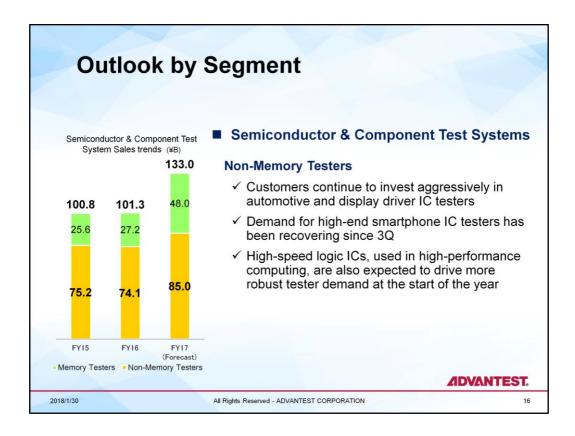


O FY2017 4Q Financial Forecast

 Our forecast for 4Q is as follows. The trend of increasing sales is expected to continue.

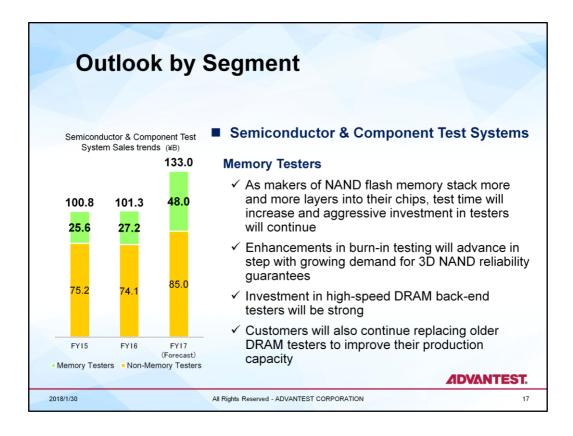
Orders \$\ \delta 57.6\$ billion
 Sales \$\ \delta 55.7\$ billion
 Operating income \$\ \delta 9.4\$ billion
 Net Income \$\ \delta 7.5\$ billion

- Regarding 4Q orders, the tester market will continue to be robust, so we expect orders to remain at a high level.
- The increase in 3Q non-memory tester orders contributed to sales, and total sales is expected to surpass ¥55.0 billion.
- Sales of memory testers in 4Q are expected to be more or less flat with recent quarters, staying at above ¥10.0 billion.
- Sales in Mechatronics and Services, Support & Others are expected to decrease slightly QoQ.
- Our 4Q operating margin is forecast to be 16.8%, the highest in 10 years.

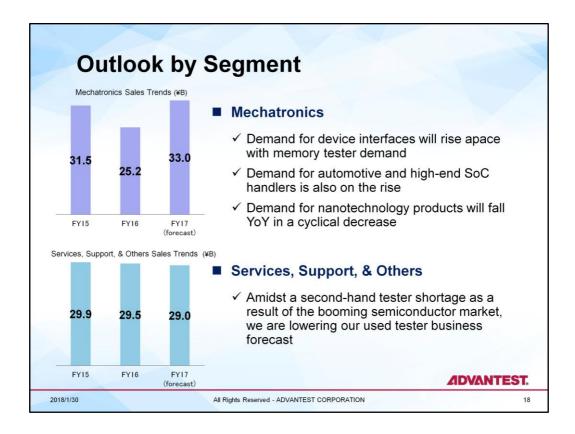


O Outlook by Segment: Semiconductor & Component Test System Segment

- · First, the outlook for non-memory testers:
- Our outlook for non-memory tester sales this year is ¥85.0 billion, an increase of ¥14.5 billion over our previous forecast. Previously, we expected a recovery in this business in 3Q, but this has been delayed slightly into 4Q, when we expect to post about ¥30.0 billion in sales.
- Customers continue to invest aggressively in testers for automotive semiconductors and OLED display drivers, supporting non-memory tester sales this fiscal year.
- In addition, volume in the China smartphone-related business, which we had described previously as growing in the 2nd half, will jump more than expected and contribute to the expected surge in 4Q.
- Although we do not expect sales of smartphones themselves to grow particularly strongly, we believe that more testers will be needed as tests run longer and increase in complexity in step with further miniaturization and functionality improvements in logic ICs for high-end smartphones.
- In addition, there is strong demand for testers for logic ICs for applications other than smartphones. High-performance computing also requires highspeed logic ICs such as GPUs. These are also expected to drive more robust tester demand at the start of the year.



- O Outlook by Segment: Semiconductor & Component Test System Segment
 - · Next, the outlook for memory testers:
 - Our memory tester sales forecast is unchanged at ¥48.0 billion.
 - The memory tester market in 2016 was \$470M. I believe our share has significantly increased as the market has grown 70% since then.
 - Customers in Taiwan and China also continue to drive strong demand for NOR flash memory test.
 - In the DRAM segment, we expect an increase in demand for testers for LPDDR4 and other high-speed memory, while customers also continue to invest in productivity improvements by replacing older DRAM back-end testers.



- O Outlook by Segment: Mechatronics Segment and Services, Support, & Other Segment
 - Our sales outlook for the Mechatronics segment is ¥33.0 billion, up ¥2.5 billion from our previous forecast.
 - Our previous forecast had been adjusted upwards by ¥3.5 billion, but demand for device interfaces linked to memory tester demand continues to surge.
 - Handlers are also performing well. Our handlers are being widely adopted where temperature control is essential for testing automotive ICs and SoCs. This was achieved by reinforcing our turnkey solutions combining testers and handlers.
 - In nanotechnology, as previously explained, we have terminated our project that
 was to enable mass production of high throughput EB lithography systems, but
 we are not considering an exit from this business.
 - We have been successful in maintaining a demand of several systems per year for these EB lithography systems, mainly for semiconductor development / evaluation. For EB metrology products such as CD-SEM, we expect demand to recover from next fiscal year, when major IC makers will accelerate miniaturization.
 - The project that resulted in the write-down of ¥3.3 billion was a bid to enter the in-line lithography system market, which unfortunately did not succeed. The decision to cancel was made based on the extremely high technical hurdles, the long time to deliver to customers, and balancing our resources with our successful tester business. However, our EB control technology has been very well received by the industry. We will streamline our organization to expand our nanotechnology business.
 - Finally, our full-year sales forecast for the Service, Support, & Others segment is ¥29.0 billion, down ¥2.0 billion from the previous forecast.
 - The main reason for this downwards revision is that our used tester business did not grow as much as expected, owing to the boom in the semiconductor market, which has produced a shortage of second-hand testers.

Key Measures

Preparing for business expansion

<Pre><Preparation for sustained growth>

Reinforcing development and support for high-potential applications such as AI, 5G communication, and ADAS

<Increasing production capacity>

Expanding production capacity to keep up with the pace of market growth

Outlook for investments in FY17: Unchanged

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O Key points for the second half of FY2017

- Key measures to grow Advantest's business in the short and medium term remain unchanged from three months ago.
- Semiconductors used in innovations such as AI, 5G communication and ADAS require more precise testing. Reinforcing our sales and support frameworks will be essential to sustain growth.
- Regarding our the short-term priority of expanding production capacity, as you can see by looking at our order trend over the last 12 months, tester demand has continued to grow rapidly. We have not been able to completely catch up with demand.
- Component supply chain issues are an industry-wide problem, especially in the electrical equipment and machinery sectors, and a full solution will take time. We will continue to make every effort to expand our production capacity.
- As we forecast further growth of the market, it is time to intensify R&D and capex investment. We aim to secure future growth by making necessary investments.

Summary

- ✓ We expect brisk demand in the semiconductor tester market to continue in 2018
- ✓ The non-memory tester market is taking a favorable turn at present. Going forward, we expect overall high levels of demand for logic, automotive, and display driver ICs
- ✓ The memory tester market will similarly benefit from strong demand for non-volatile memory and DRAM test
- ✓ We are doing our utmost to increase our production capacity amid greater-than-expected increases in demand
- ✓ We will move forward on a continuing basis with foundational enhancements to address high-potential applications such as AI, 5G communication, and ADAS

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O Summary

 This concludes my presentation of the outlook for the tester market and the business outlook for Advantest.