

Technology to Inspire Innovation

Financial Results for 1H of FY2018 and Prospects for FY2018

October 26, 2018

6807 Japan Aviation Electronics Industry, Ltd.



- I. Financial Results for 1H of FY2018
- II. Prospect and Strategy for FY2018



I. Financial Results for 1H of FY2018

(From April 1, 2018 to September 30, 2018)

 Total may not correspond to the total value of the items since amounts less than 100 million JPY are basically rounded off

Net Sales and Incomes



| | FY2 | 017 | FY2018 | Year/Year Change | | |
|--------------------------------|----------------|-------------------|-----------------|---------------------|------|--|
| | 1H 2H | | 1H | 1H FY2 1H FY2 | | |
| Net Sales | 1,245 | 1,294 | 1,180 | -66 | 95% | |
| Operating Income | 95 | 111 | 94 | -1 | 99% | |
| (to Net Sales) | 7.6% | 8.6% | 7.9% | | | |
| Ordinary Income (to Net Sales) | 85 6.8% | 89 6.9% | 106 9.0% | 22 | 126% | |
| Net Income | 62 | 67 | 77 | 15 | 124% | |
| (to Net Sales) | 5.0% | 5.2% | 6.5% | | | |

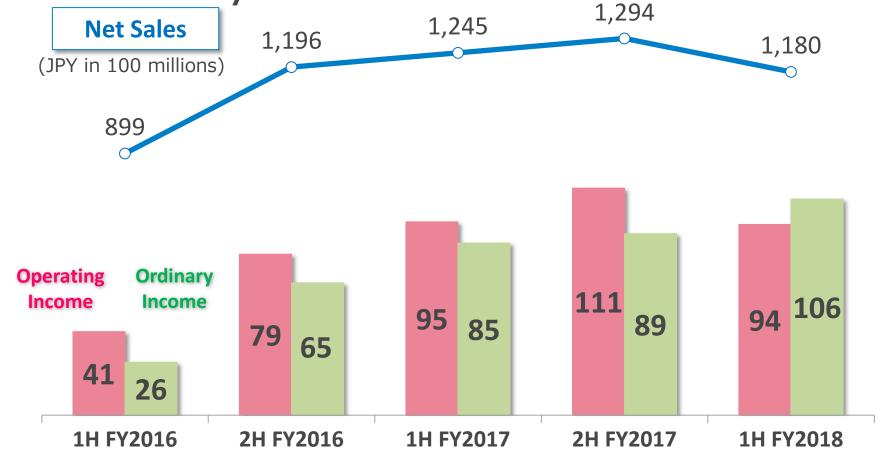
| vs. 1H FY2018 | 1H FY2018 Projections |
|------------------|--------------------------|
| Projections | anounced Apr, 2018 |
| 15 101% | 1,165 |
| -1 99% | 95 |
| 21 125% | 85 |
| 14 123% | 63 |

| Exchange Rate (JPY/USD) | 111.0 | 110.7 | 110.3 | (Average |
|-------------------------|-------|-------|-------|----------|
|-------------------------|-------|-------|-------|----------|

Net Sales and Incomes



In spite of the net sales decrease compared to 1H of FY2017, operating income maintained the same level and ordinary income increased



semi-annual fiscal year basis

Net Sales by Market Segment



| | FY2 | 017 | FY2018 | | Year/Year Change | | EV2010 | | 1H FY2018 Projections | | | | | | | | |
|-----------------------------|-------|-------|--------|---------------------------|---------------------|------|--------|------|--------------------------|-----|--|---|--|---|--|--------|-----------------------|
| | 1H | 2H | 1 | H 1H FY2018/ 1H FY2017 | | 1H | | 1H | | 1 H | | • | | - | | ctions | anounced Apr, 2018 |
| | | | | Component Ratio | | | | | | | | | | | | | |
| Mobile Devices | 692 | 686 | 582 | 44% | -110 | 84% | 35 | 106% | 547 | | | | | | | | |
| Automotive | 331 | 367 | 369 | 35% | 38 | 111% | -9 | 98% | 378 | | | | | | | | |
| Industrial & Infrastructure | 154 | 173 | 171 | 14% | 17 | 111% | -14 | 93% | 185 | | | | | | | | |
| Others | 67 | 68 | 57 | 7% | -10 | 85% | 2 | 104% | 55 | | | | | | | | |
| Total | 1,245 | 1,294 | 1,180 | 100% | -66 | 95% | 15 | 101% | 1,165 | | | | | | | | |

| Overseas | 937 | 948 | 848 |
|-------------------------|-------|-------|-------|
| Overseas Sales Ratio | 75.2% | 73.2% | 71.9% |

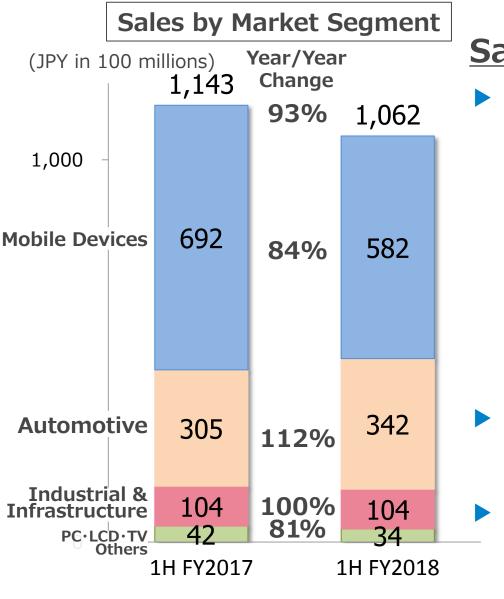
Net Sales by Business Segment



| | FY2 | .017 | FY2018 | | Year/Year Change | | vs. 1H 2018 Projections | | 1H FY2018 Projections |
|-----------|-------|-------|--------|---------------------------|---------------------|--------------|-------------------------|------|--------------------------|
| | 1H | 2H | 1 | 1H | | 018/ 2017 | | | anounced Apr, 2018 |
| Connector | 1,143 | 1,173 | 1,062 | Component Ratio 90% | -80 | 93% | 12 | 101% | 1,050 |
| UIS | 41 | 45 | 43 | 4% | 2 | 104% | 0 | 100% | 43 |
| Aerospace | 57 | 72 | 70 | 6% | 13 | 122% | 4 | 106% | 66 |
| Others | 4 | 4 | 4 | _ | 0 | 109% | -2 | 74% | 6 |
| Total | 1,245 | 1,294 | 1,180 | 100% | -66 | 95% | 15 | 101% | 1,165 |

Connector Business





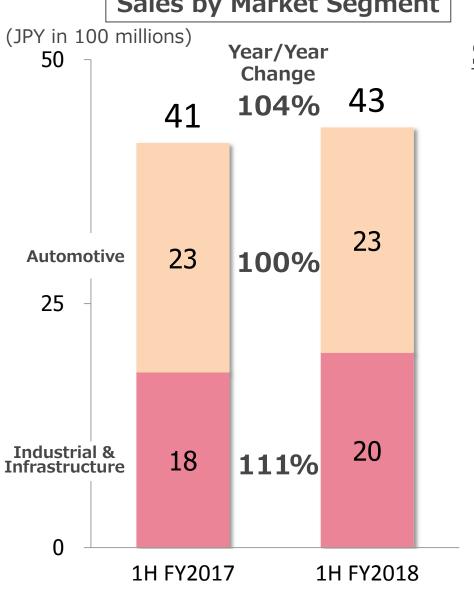
Sales: 93% (of 1H FY2017)

- Mobile Devices
 - Sales of products with built-in procured components decreased significantly
 - Sales to Chinese smartphone manufactures recovered
 - USB Type-C "DX07 series" maintained the same level as previous year
- Automotive
 - Sales mainly to Japanese OEMs grew
- Industrial & Infrastructure
 - Declined due to customers' order adjustment reflecting the uncertain market outlook

UIS Business





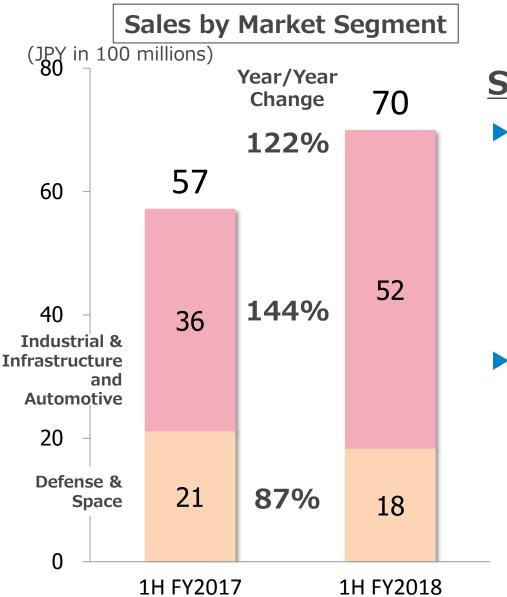


Sales: 104% (of 1H FY2017)

- Automotive (capacitive touch panel)
 - Full-scale mass production of film sensors was maintained (Mass production started in 4Q of FY2017)
- Industrial & Infrastructure
 - Operating panels for semiconductor manufacturing equipment and teaching pendants for robots continued to perform well

Aerospace Business





Sales: 122% (of 1H FY2017)

- Industrial & Infrastructure
 - Demand of oil drilling sensors doubled due to rising crude oil prices
 - Linear motor for semiconductor lithography equipment remained robust
- Defense & Space
 - Decreased due to a decline in defense budget for domestic programs

Operating Profit by Business Segment JAE

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| | FY2 | 017 | FY2018 | Year/Year |
|-----------|------|-------|--------|-----------|
| | 1H | 2H | 1H | Change |
| Connector | 112 | 121 | 106 | -6 |
| | 9.8% | 10.3% | 10.0% | |
| UIS | 4 | 4 | 3 | -0.4 |
| | 9.2% | 9.6% | 8.0% | |
| Aerospace | 1 | 6 | 7 | 6 |
| | 1.6% | 8.9% | 10.0% | |
| Others | -22 | -20 | -23 | -1 |
| Total | 95 | 111 | 94 | -1 |
| | 7.6% | 8.6% | 7.9% | |



II. Prospect and Strategy for FY2018

(From April 1, 2018 to March 31, 2019)

Prospects for FY2018



| | FY2017 | FY2018 | | | Year/Year Change | | vs. FY2018 Projections | | FY2018 Projections |
|--------------------|--------|--------|-------------------|-----------------------|---------------------|------|------------------------|------|-----------------------|
| | | 1H | 2H Projections | FY2018 Projections | FY2018/FY2017 | | Trojections | | (announced Apr, 2018) |
| Net Sales | 2,539 | 1,180 | 1,235 | 2,415 | -125 | 95% | 15 | 101% | 2,400 |
| Operating Income | 206 | 94 | 99 | 192 | -14 | 93% | -8 | 96% | 200 |
| (to Net Sales) | 8.1% | 7.9% | 8.0% | 8.0% | | | | | 8.3% |
| Ordinary Income | 174 | 106 | 90 | 196 | 23 | 113% | 21 | 112% | 175 |
| (to Net Sales) | 6.8% | 9.0% | 7.3% | 8.1% | | | | | 7.3% |
| Net Income | 129 | 77 | 68 | 145 | 15 | 112% | 15 | 111% | 130 |
| (to Net Sales) | 5.1% | 6.5% | 5.5% | 6.0% | | | | | 5.4% |

^{* 2}H FY2018 assumed exchange rates ¥110 to the U.S. dollar

Prospect for Net Sales by Market Segment



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| (JPY III 100 IIIIIIIOIIS) | FY2017 | FY2018 | | | Year/Year Change | | vs. FY2018 Projections | | FY2018 Projections |
|-----------------------------|--------|--------|-------------------|-----------------------|---------------------|-------|------------------------|------|--------------------------|
| | | 1H | 2H Projections | FY2018 Projections | FY2018/F | Y2017 | | | (announced Apr, 2018) |
| Mobile Devices | 1,379 | 582 | 597 | 1,179 | -200 | 86% | 49 | 104% | 1,130 |
| Automotive | 698 | 369 | 393 | 762 | 64 | 109% | -8 | 99% | 770 |
| Industrial & Infrastructure | 327 | 171 | 185 | 356 | 29 | 109% | -29 | 92% | 385 |
| Others | 135 | 57 | 60 | 118 | -17 | 87% | 3 | 103% | 115 |
| Total | 2,539 | 1,180 | 1,235 | 2,415 | -125 | 95% | 15 | 101% | 2,400 |

Prospect for Net Sales by Business Segment JAE

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| | FY2017 | FY2018 | | | Year/\ Chan | | vs. FY2018 Projections | FY2018 Projections |
|-----------|--------|--------|-------------------|-----------------------|----------------|------|------------------------|-----------------------|
| | | 1H | 2H Projections | FY2018 Projections | FY2018/FY2017 | | | (announced Apr, 2018) |
| Connector | 2,316 | 1,062 | 1,103 | 2,165 | -151 | 93% | 10 100% | 2,155 |
| UIS | 86 | 43 | 45 | 88 | 2 | 102% | -1 99% | 89 |
| Aerospace | 129 | 70 | 82 | 152 | 23 | 118% | 8 106% | 144 |
| Others | 9 | 4 | 5 | 10 | 1 | 112% | -2 80% | 12 |
| Total | 2,539 | 1,180 | 1,235 | 2,415 | -125 | 95% | 15 101% | 2,400 |

Connector Business Strategy [Mobile Devices] 1



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Board-to-Board Connectors

 Increase market share and establish a de facto standard in Chinese Smartphone market

Development Roadmap, Board-to-Board Connectors Contact Spacing Range WP56DK 0.3mm Pitch compatible to H=0.6 0.3mm Pitch narrow width with robust structure **Power Terminals /** Robust structure and **Armored Structure** improved workability WP27D WP27DK H = 0.7H = 0.7D=1.9 D=1.9 0.35mm Pitch Narrow width product **WP26** WP26DK introductions scheduled H=0.6 H = 0.6H = 0.6D=1.9 Next New parts for 5G to be launched **WP10** Fast charge / H = 0.7high-current 0.4mm Pitch D=2.2 series upcoming 2018 ~2020 2016 2017

- "DX07 Series" USB Type-C Connector
 - Expansion in high-value-added segment
 - Launched waterproof receptacle adopting JAE's unique potting-less technology
 - Strengthening new business areas (Entering new markets reaching introduction phase)
 - **Expand VirtualLink™ compatible products**
 - **Development of products for industrial and** automotive markets
 - Expand cable harness and other products for new field of business

Potting-less: Omission of resin seal process

VirtualLink™: New standard enabling VR headsets to connect with the main device over a single Type-C cable



Waterproof receptacle



Back: "VirtualLink™ "compatible Front: on-board 2-row SMT type



Cable Harness with Screw Lock

Connector Business Strategy [Automotive] 1



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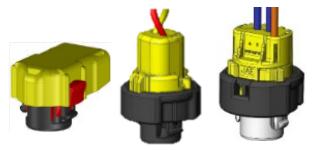
- Expand products compatible with high-speed data transmission
 - Expand onboard camera business to Japanese OEMs based on results in in European market
 - Develop connecters for next-generation information communication technology



MX55 Series connector for camera

(Actual door mirror of European OEM equipped with JAE connector)

- Product compatible with European de-facto standards
 - Mass production of airbags connector compatible with European standards will start from the second half of FY2018
 - → Deploy to European, North American and Japanese markets



AK Squib connector for airbags

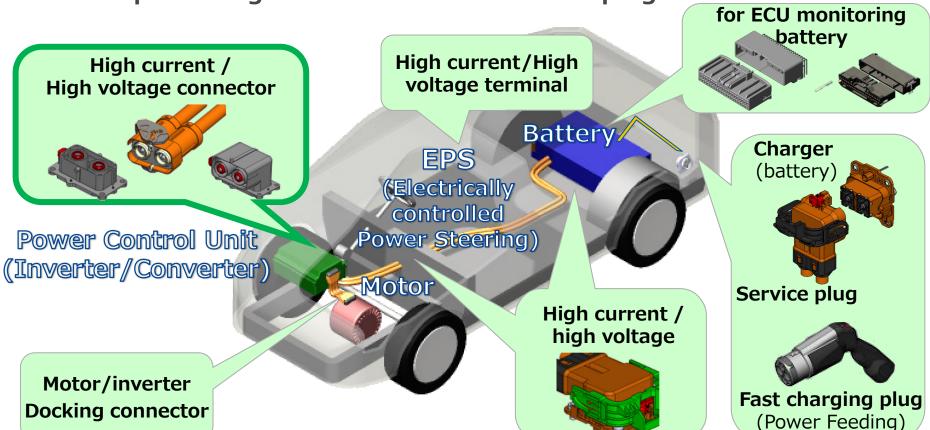
Connector Business Strategy [Automotive] 2



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- Development of High current / High voltage products for EV
 - Develop and expand business of high current / high voltage connectors

Expand range of customers for service plug connectors



Service plug: Connector for battery circuit shutdown during maintenance and inspection of EV

- High speed EV charging infrastructure
 - Adopting regional sales strategies considering market expansion
 - Already in use in Japan and North America
 - **Expanding to Europe and China**
 - CHAdeMO-type variation covering V2H to Highspeed charging already in place
 - COMBO-type to be sequentially launched to cater overseas markets





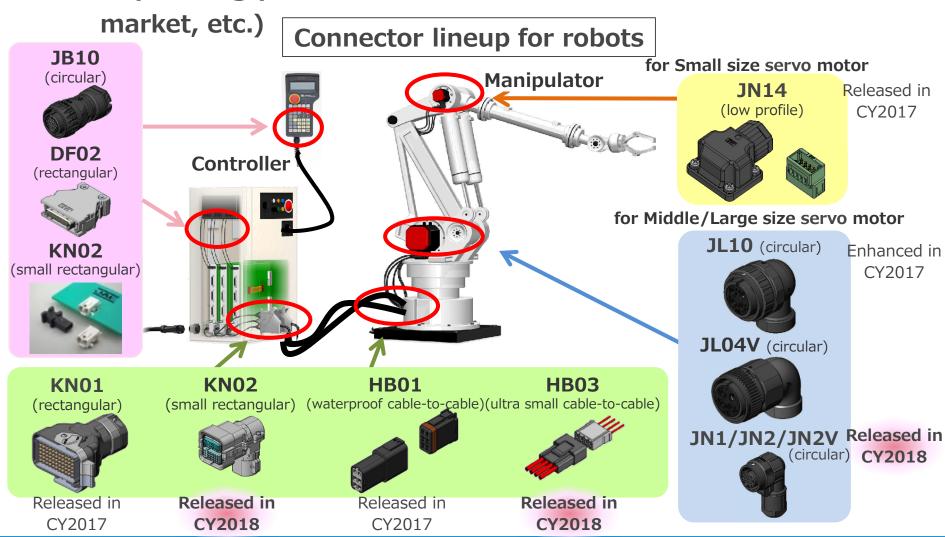
Introduction example in **North America** "KW01 Series" (CHAdeMO-type)

Connector Business Strategy [Industrial & Infrastructure 2]



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- **Approach to Factory Automation and Robots**
 - **Expanding products for Robots (for Co-robots, overseas**



UIS Business Strategy



- Approach to Automotive Market
 - Accelerate promotion for capacitive touch panel
 - > Expansion of new adoption leading to sales increase in FY 2019
 - Accelerate adoption to new car models for further growth
 - Production capacity increase of film type
 - Mass production for new customer starting from 4Q of 2018



Glass type metal mesh sensor



Film type metal mesh sensor

- Approach to Industrial Market
 - Capture new markets by catering needs of touch screen operation to controlling panels



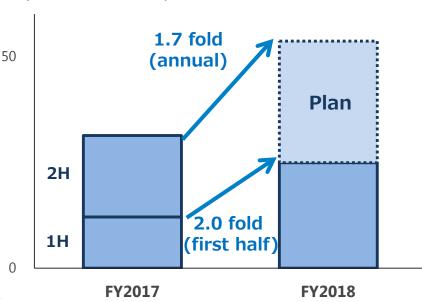
Resistive touch screen sensor (Exhibited at CEATEC 2018 in Japan, for reference)

Aerospace Business Strategy



- Sensor for Oil Drilling
 - Strengthen sales and service operation coping to increasing demand
 - Enhance production capacity by expanding production space and increasing manpower (already done in 1H of 2018)
 - ⇒ Continued to operate at full capacity
 - Strengthen technical and maintenance supporting capability in Huston, USA
 - Expand business by new products
 - Increase the added value of products such as by improving measuring accuracy

Sales for Oil drilling Market





Strategy for New Products



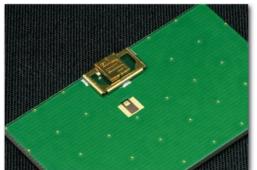
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- JAE and NEC jointly developed one of the world's smallest high performance antenna device
 - The surface mount type antenna was developed by combining NEC's metamaterial ultra compact µSR ™ technology and JAE's precision processing technology
 - Product features
 - ✓ Achieves over 90% of antenna radiation efficiency
 - High flexibility of mounting places
 - ✓ Widely applicable to standards such as Wi-Fi, Bluetooth, V2X, LPWA, etc.
 - Applicable areas and application (estimate)
 - ✓ Game machines, Wi-Fi routers, network home appliances, etc.
 - ✓ Applicable to a wide range of applications in future such as Connected Car, IoT etc.

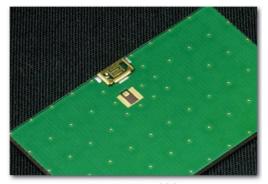
Metamaterial: Metamaterials are artificial materials engineered to have properties not

found in nature through periodic placement of building blocks.

µSR™ technology: Split Ring (SR) Resonator Technology (Small Antenna Element Technology)



Wi-Fi 2.4GHz対応



V2X 5.9GHz対応

Direction for Mid-term Growth



Pursue further growth in sales and profits by enhancing global marketing and productivity improvement

- Maintain industry leading position for mobile devices market
- Accelerate growth in Automotive and Industrial & Infrastructure markets
- Productivity improvement by manufacturing technology innovation

Achieve FY 2018 target, set foundation for growth, and enhance development and marketing for mid-term business growth

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<Cautionary Statement>

The plans, strategies & results forecasts and targets for our company and our consolidated affiliates (hereinafter JAE) noted in these materials are forecasts and targets as of October 26, 2018, and include risks and uncertainties.

The targets noted in these materials are not projections, and do not reflect current projections by the management team with regards to future results. Rather, these are targets to be attained by the management team through implementing business strategies.

Note that actual results may differ greatly from forecasts and targets, etc. based on various factors. Major factors that affect actual business results, etc. are the political and economic situations in Japan, the US, Asia and so forth that involve regions where JAE conducts business operations, demand fluctuations for JAE products (including software products) in the market, deflationary pressures caused by severe competition, the ability to continue supplying over our competitors, the ability to expand business operations in overseas markets, changes to the laws and regulations concerning business activities, and their transparency, potential legal responsibilities, exchange rates, etc, and there may be other factors beyond the ones listed here. Actual results may differ from management targets and other forecasts due to a worsening global economy and the global financial situation, stagnation in the domestic and overseas stock markets, etc. Note that descriptions concerning projections are current as of that day.

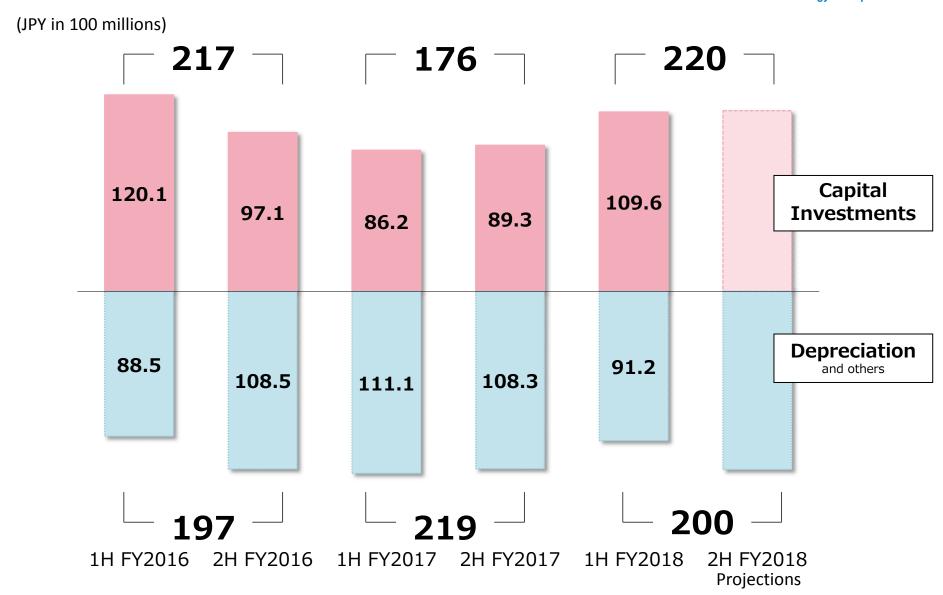
Although new risks and factors of uncertainty that occur at any anytime are evident, it is impossible to predict their occurrence or effects. In addition, details describing future predictions may not actually occur due to risk and uncertainties. Do not rely solely on these descriptions.

Reference



Capital Investment & Depreciation





(Depreciation and others include disposal of fixed assets)