

# Industry / Distribution / Water Field

Hitachi IR Day 2018

June 8, 2018

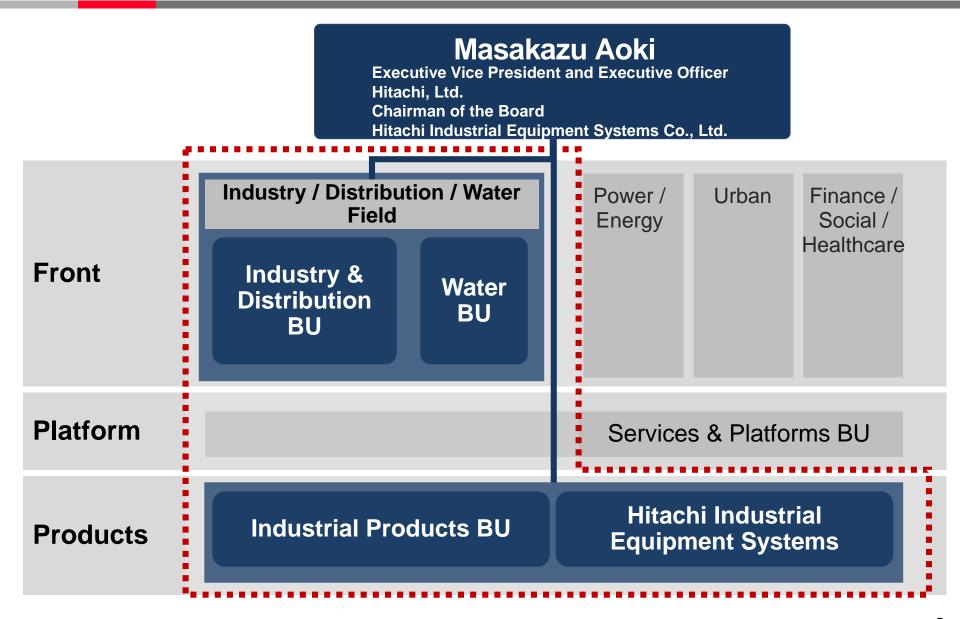
### Masakazu Aoki

Executive Vice President and Executive Officer General Manager of Industrial Equipment Management Division Hitachi, Ltd.

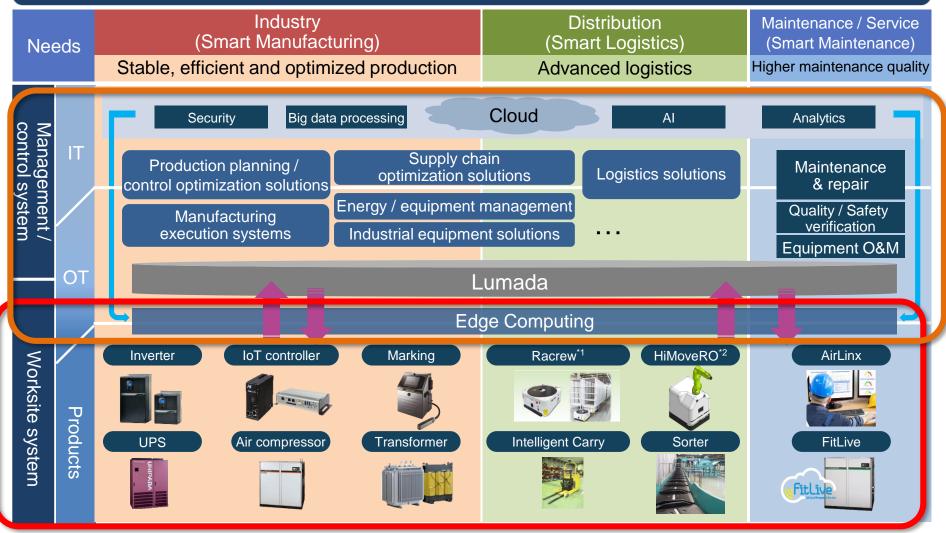
Chairman of the Board Hitachi Industrial Equipment Systems Co., Ltd.

### **Introduction [Scope of Business in Charge]**





### Providing digital solutions with the strength of Products $\times$ OT $\times$ IT



\*1 Compact and low-floor automated guided robot \*2 Autonomous moving robot (Mounted robot made by FANUC) OT: Operational Technology O&M: Operation and Maintenance UPS: Uninterruptible Power Supply

3

### **Progress of the 2018 Mid-term Management Plan**



Acquisition of Sullair

- Creating synergy by Products × OT × IT
- Obtaining customer base (e.g. North America)

Expansion of digital solution business

 Strengthening with IoT platform Lumada
 Collaborative creations with customers mainly in the manufacturing industry

Strengthening of product business

- Integrated operations of Industrial Products BU and Hitachi Industrial Equipment Systems
- Strengthening the business base by integrating large and small scale equipment businesses

# To be the Best Solution Partner for Customers in the Industry and Distribution Field

- Provide products and digital solutions totally
- Approach wide range of customers which have been accumulated by product and maintenance businesses

# Growth strategy

- Expand recurring business and accelerate global expansion
- Extend the range of target customers (utilizing the customer base of Hitachi Industrial Equipment Systems and Sullair)
- Enlarge service / solution business with Products × OT × IT

Certain statements found in this document may constitute "forward-looking statements" as defined in the U.S. Private Securities Litigation Reform Act of 1995. Such "forward-looking statements" reflect management's current views with respect to certain future events and financial performance and include any statement that does not directly relate to any historical or current fact. Words such as "anticipate," "believe," "expect," "estimate," "forecast," "intend," "plan," "project" and similar expressions which indicate future events and trends may identify "forward-looking statements." Such statements are based on currently available information and are subject to various risks and uncertainties that could cause actual results to differ materially from those projected or implied in the "forward-looking statements" and from historical trends. Certain "forward-looking statements" are based upon current assumptions of future events which may not prove to be accurate. Undue reliance should not be placed on "forward-looking statements," as such statements speak only as of the date of this document.

Factors that could cause actual results to differ materially from those projected or implied in any "forward-looking statement" and from historical trends include, but are not limited to:

- economic conditions, including consumer spending and plant and equipment investment in Hitachi's major markets, particularly Japan, Asia, the United States and Europe, as well as levels of demand in the major industrial sectors Hitachi serves;
- exchange rate fluctuations of the yen against other currencies in which Hitachi makes significant sales or in which Hitachi's assets and liabilities are denominated;
- uncertainty as to Hitachi's ability to access, or access on favorable terms, liquidity or long-term financing;
- uncertainty as to general market price levels for equity securities, declines in which may require Hitachi to write down equity securities that it holds;
- Iluctuations in the price of raw materials including, without limitation, petroleum and other materials, such as copper, steel, aluminum, synthetic resins, rare metals and rare-earth minerals, or shortages of materials, parts and components;
- the possibility of cost fluctuations during the lifetime of, or cancellation of, long-term contracts for which Hitachi uses the percentage-of-completion method to recognize revenue from sales;
- credit conditions of Hitachi's customers and suppliers;
- fluctuations in product demand and industry capacity;
- uncertainty as to Hitachi's ability to implement measures to reduce the potential negative impact of fluctuations in product demand, exchange rates and/or price of raw materials or shortages of materials, parts and components;
- uncertainty as to Hitachi's ability to continue to develop and market products that incorporate new technologies on a timely and cost-effective basis and to achieve market acceptance for such products;
- increased commoditization of and intensifying price competition for products;
- uncertainty as to Hitachi's ability to attract and retain skilled personnel;
- uncertainty as to Hitachi's ability to achieve the anticipated benefits of its strategy to strengthen its Social Innovation Business;
- uncertainty as to the success of acquisitions of other companies, joint ventures and strategic alliances and the possibility of incurring related expenses;
- uncertainty as to the success of restructuring efforts to improve management efficiency by divesting or otherwise exiting underperforming businesses and to strengthen competitiveness;
   the potential for significant losses on Hitachi's investments in equity-method associates and joint ventures;
- general socioeconomic and political conditions and the regulatory and trade environment of countries where Hitachi conducts business, particularly Japan, Asia, the United States and Europe, including, without limitation, direct or indirect restrictions by other nations on imports and differences in commercial and business customs including, without limitation, contract terms and conditions and labor relations;
- uncertainty as to the success of cost structure overhaul;
- uncertainty as to Hitachi's access to, or ability to protect, certain intellectual property;
- uncertainty as to the outcome of litigation, regulatory investigations and other legal proceedings of which the Company, its subsidiaries or its equity-method associates and joint ventures have become or may become parties;
- the possibility of incurring expenses resulting from any defects in products or services of Hitachi;
- the possibility of disruption of Hitachi's operations by natural disasters such as earthquakes and tsunamis, the spread of infectious diseases, and geopolitical and social instability such as terrorism and conflict;
- uncertainty as to Hitachi's ability to maintain the integrity of its information systems, as well as Hitachi's ability to protect its confidential information or that of its customers; and
- uncertainty as to the accuracy of key assumptions Hitachi uses to evaluate its employee benefit-related costs.

The factors listed above are not all-inclusive and are in addition to other factors contained in other materials published by Hitachi.

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# Industrial Products Business Unit Business Strategy

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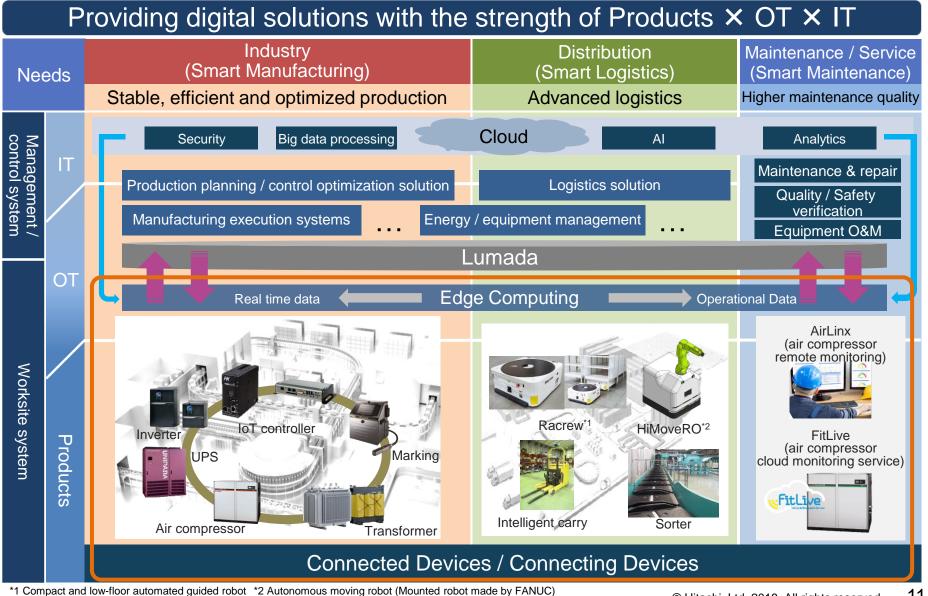
# Industrial Products Business Unit Business Strategy

# Contents

- 1. Business Overview and Analysis of Current Status
- 2. Business Strategy
- **3. Business Performance Trends**
- 4. Conclusion

Strong product business that contribute to industrial needs							
Resources and Ene Oil & Gas, Mining New Energy	, Pharma	Life Sciences Pharmaceuticals, Food, Daily Goods		istribution ring, commerce	Social Infrastructure Water & Sewage, Roads, Railways		
Industrial Products BU / Hitachi Industrial Equipment Systems							
Business Sectors	Machi	nery 55%	Drive / Auto	mation 30%	Power substation / 15% Distribution		
Products	Compressors, M Automated Guid		s, Motors / Inve UPS, PCS, Io		Transformers, Power supply control		
Social and Environmental Values	Provide key products on a global basis to meet the needs of the manufacturing and resources & energy sectors				Sponding SDGs		
*Revenue Composition in FY2017 UPS: Uninterruptible Power Supply PCS: Power Conditioning System SDGs: Sustainable Development Goals © Hitachi, Ltd. 2018. All rights reserved.					td. 2018. All rights reserved. 10		

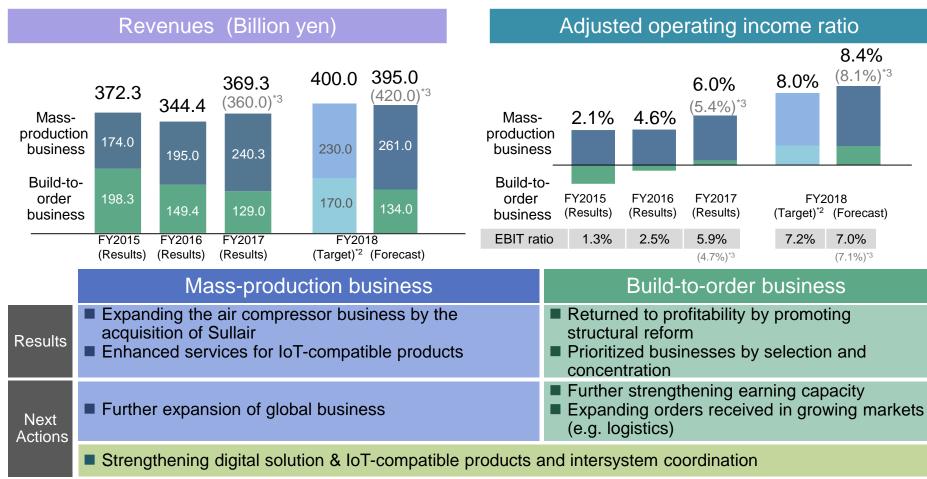
## 1-2. Positioning within the Hitachi Group



OT: Operational Technology O&M: Operation and Maintenance

#### 1-3. Progress of 2018 Mid-term Management Plan HITACHI Inspire the Next

Mass-production business: Accelerating global expansion of recurring business<sup>\*1</sup> with investment for growth Build-to-order business: Reviewing business scale and priority areas and improving profits, strengthening the base for regrowth <u>Common: Strengthening expansion of product-led IoT</u> and digital solutions



\*1 Recurring business: Business with continuous replacement market such as spare parts. \*2 As of June 1, 2016 \*3 As of June 8, 2017 EBIT: Earnings before interest and taxes

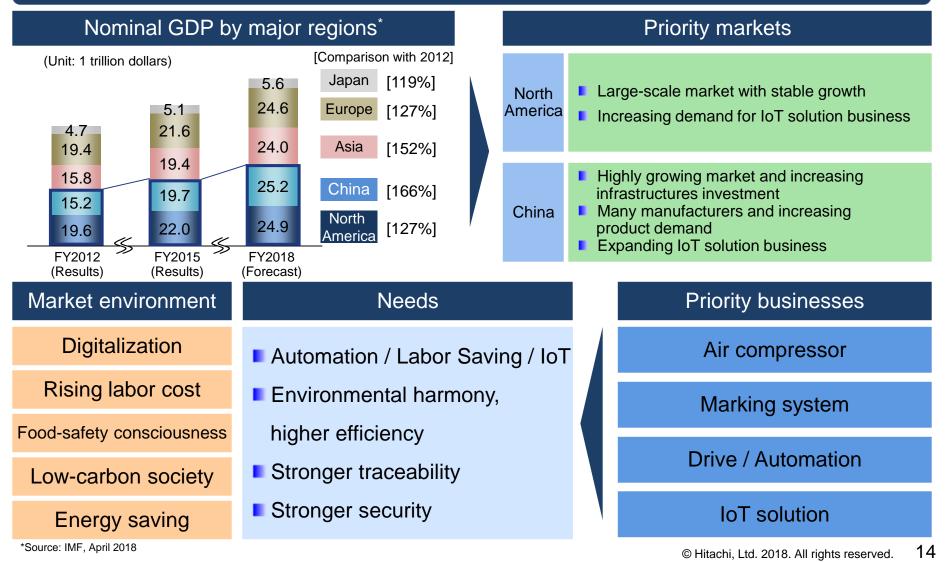


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### Strengthen approach to growing markets and sectors

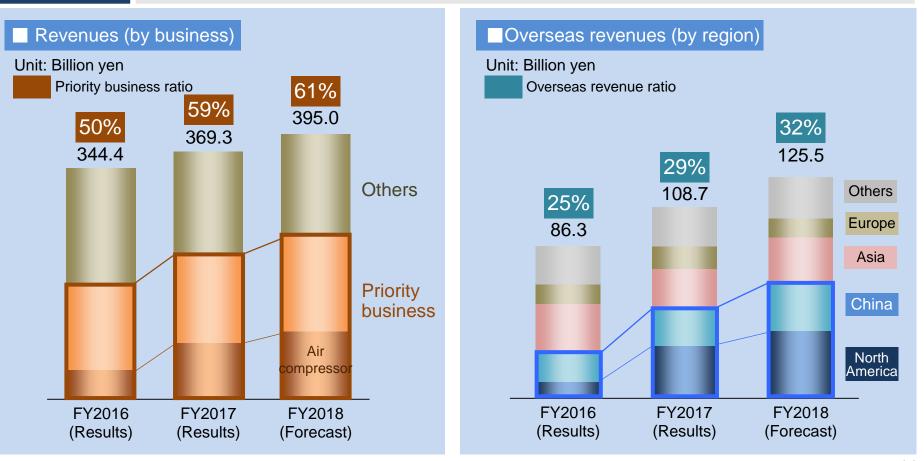


	Strong product business that contribute to industrial needs							
	Basic policy	(recu ■ Expa	d priority businesses and accelerate global expansion ing businesses) d service and solution businesses by Products $\times$ OT $\times$ IT rce concentration and strategic investment in growing businesses					
Priority businesses		nesses	Positioning	Policy				
Global	Air comp		Growth engines (promoting recurring businesses)	<ul> <li>Continuous global investment</li> <li>Further global expansion with Sullair</li> <li>Expanding IoT-compatible products, expanding service businesses</li> </ul>				
ΙοΤ	Drive / Automation		Switching to high value-added sectors	<ul> <li>Collaborative creation with customers (built-in type)</li> <li>Strengthening product capabilities for the IoT market</li> </ul>				
			Targeting to edge computing	<ul> <li>Strengthening IoT controller capabilities</li> <li>Expanding M2M communication devices</li> </ul>				
	IoT solution		Catering to growing markets	<ul> <li>Expanding into growing industries (e.g. logistics)</li> <li>Incorporating needs for robots and automation</li> </ul>				

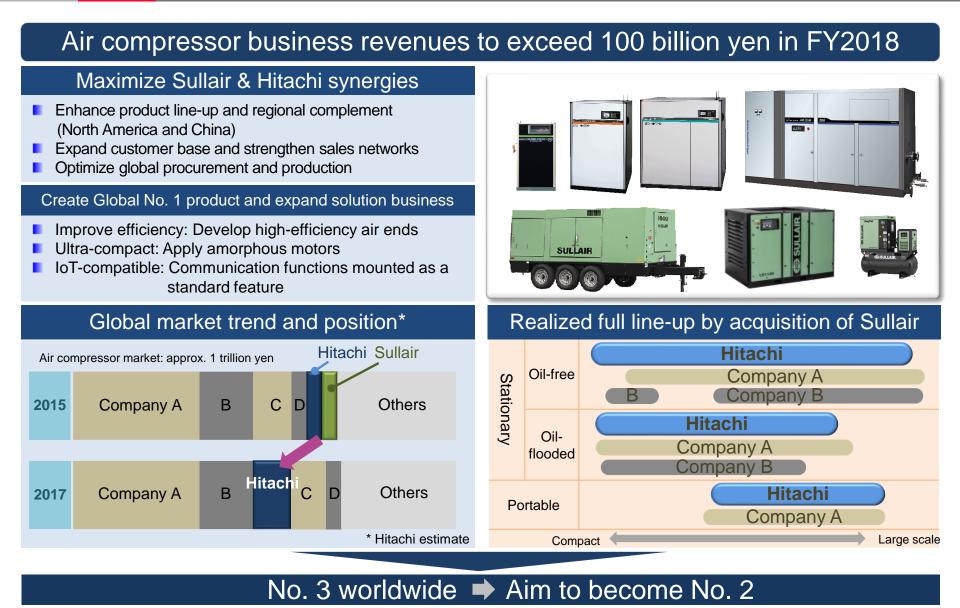
### Expanding priority businesses and accelerating global expansion

Enhancement policy

Accelerating growth by combining organic growth and alliances - Expansion of priority businesses and focusing on priority regions (North America and China) -

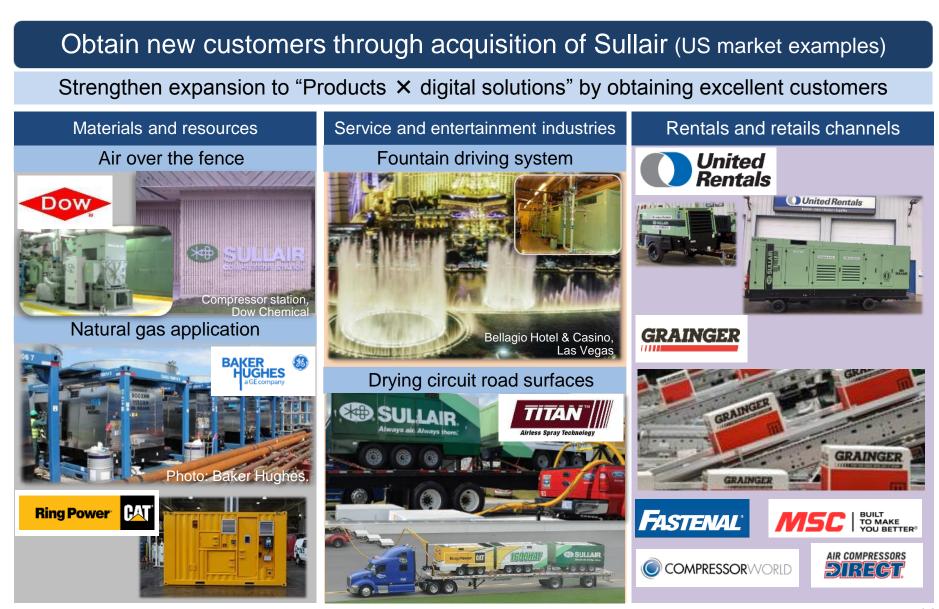


#### нітасні 2-4. Growth Strategy for Air Compressor Business (1) Inspire the Next



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#### 2-4. Growth Strategy for Air Compressor Business (2) **Inspire the Next**



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## 2-4. Growth Strategy for Air Compressor Business (3) HITACHI

### Obtain new customers through acquisition of Sullair (China market examples)

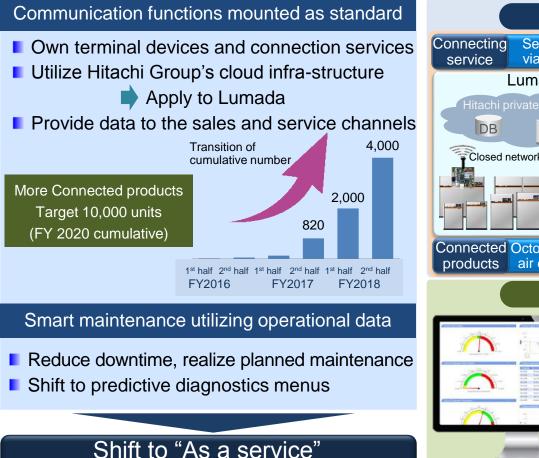
Strengthen expansion to "Products × digital solutions" by obtaining excellent customers



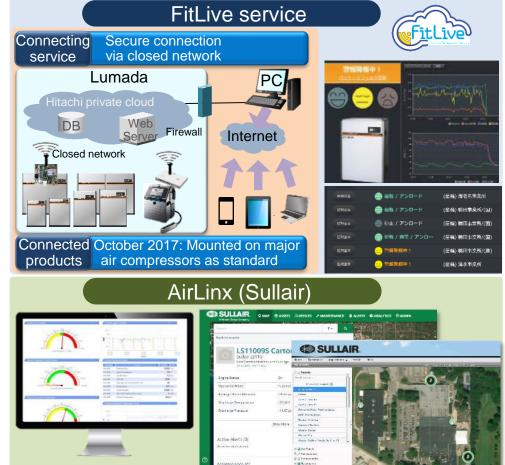
### 2-4. Growth Strategy for Air Compressor Business (4) HITACHI

### Aiming for the superior position in the connected product business

Realize Smart Maintenance through proposals for maintenance and services



- Extend to "Pay per use" -



### Expanding business domain and accelerating global growth strategy

Obtaining major customers by expanding product portfolio
 Gaining new customers by launching new products through Sullair's sales network

#### Expanding product portfolio

Expanding from ink-jet (world No.3) to laser systems



Total marking system providers (3 companies)

Marking system market: approx. 400 billion yen\*

Total Marking

#### Realize connected product

Introducing KDDI's global communication platform



### Strengthening self-development of inks

Responding to environmental and security needs, and stronger traceability

Exempt from the Organic Solvent Ordinance (Enhanced ethanol resistance)

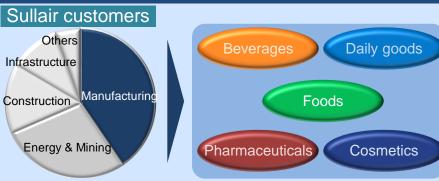
Temperature detection traceability (for distribution quality control)



Deviation from lower limit

Irreversible color changes according to the temperature change outside the upper/lower limit

### Expanding to Sullair customers



\* Hitachi estimate

Specialized

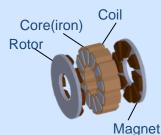
## 2-6. Business Strategy for Drive / Automation (1)



- Strengthening built-in type products attributes: Realize downsizing, higher efficiency, and quicker responding machines and devices
- Contributing to Hitachi Group's priority businesses through drive technologies

#### Amorphous motors

- Adopted amorphous alloy
- World's highest efficiency level (IE5\*)
- Ultra-thin and flat structure







Prime Minister's Award Japan industrial Technologies For air compressors (amorphous motor integrated type)

#### Built-in type PM motors



For air compressors



For pumps

### Built-in type high-capacity servo drive

- High torque and high accuracy
- Energy saving
- Longer-life devices
- Meet IoT needs



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For machine tools



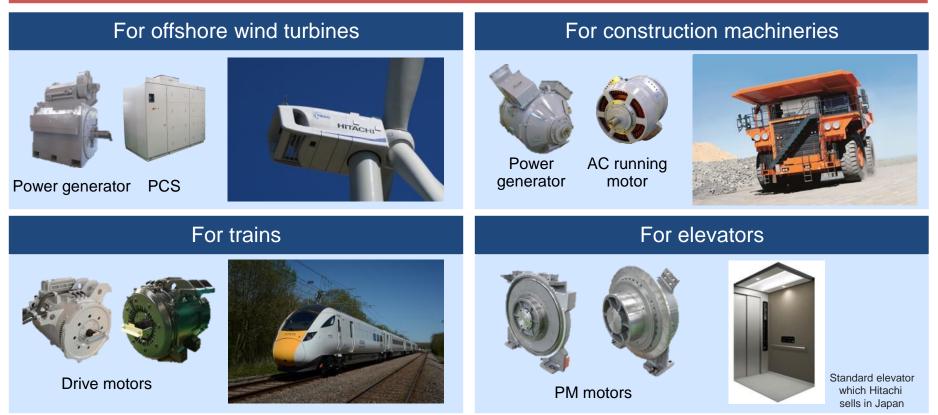
For mold injection machines

### 2-6. Business Strategy for Drive / Automation (2)



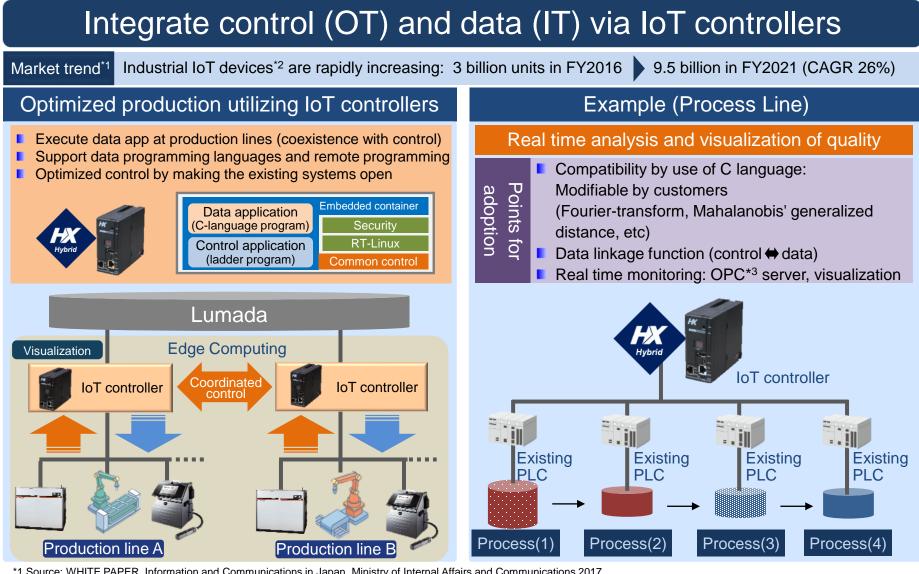
- Strengthening built-in type product capabilities: more robust, more compact machines and devices and more advanced control
- Contributing to Hitachi Group's priority businesses through drive technologies

#### Introduction cases in Hitachi group



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## 2-6. Business Strategy for Drive / Automation (3)



\*1 Source: WHITE PAPER, Information and Communications in Japan, Ministry of Internal Affairs and Communications 2017

\*2 Industrial equipment such as automation for industries and buildings, illuminations, energy-related, security, inspection & measuring instruments

\*3 Standards for mutual operations aiming at safe and reliable data exchange in the industrial automation sector, etc.

CAGR: Compound Average Growth Rate PLC: Programmable Logic Controller

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## 2-7. Expansion of IoT Solution Business (1)

### Strengthening expansion of product-led IoT / digital solutions

- Enhance initiatives for IoT solutions
- Expand robot/Automation SI business

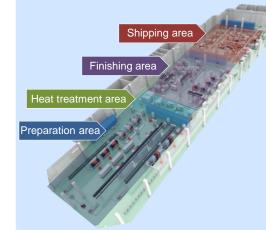
Smart Manufacturing

Customer case (machining tool manufacturer) AMADA HOLDINGS CO., LTD.

#### T876 Factory, Toki Works

Constructed total IoT line working 365 days by collaborative creation with the customer Interlinkage among on-site equipment and visualization of equipment operations

Contribute to establishing a same-day delivery system within 3 hours minimum







Deeply cultivate collaborative creation with customers in cooperation with Industry & Distribution BU Development from supply of products and systems to delivery of the digital solutions

## 2-7. Expansion of IoT Solution Business (2)



- Enhance initiatives for IoT solutions
- Expand robot / Automation SI business

### **Smart Logistics**

Customer case (Distribution center) MonotaRO Co., Ltd.

Kasama distribution center\*

IoT solution led by Racrew



New picking system (2-3 fold productivity)

#### No Walking

Streamlined picking operation by Racrew

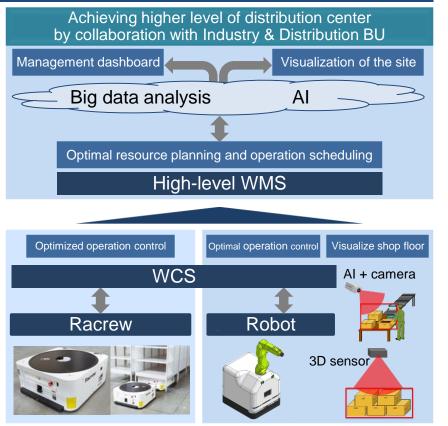
#### Smart Routing

WCS manages Racrews' positions and assigns the shortest route

#### Various Stock Shelves

Capable of handling various sizes of stock items

\*A distribution base of MonotaRO Co., Ltd., one of the largest e-commerce company of industrial materials (fully operational in April 2017) WCS:Warehouse Control System WMS:Warehouse Management System



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### 2-8. Strengthen Cash Generation and Cost Strategy

Improve operation efficiency Mass Improve productivity per capita, expense SG&A Improvement point (comparison with FY2015) reduce fixed costs production 10 8.6 Build-to-order Reduce fixed costs by promoting Gross profit margin 6.8 indirect operation innovation production 5 3.2 Reduce direct material costs by strengthening global procurement capabilities Mass Use common parts with Sullair Gross production profit Expand procurement in China and 0 SG&A ratio Asia region (0.8)Build-to-order (2.3)Cost planning management at the (2.9)(5)production time of development of new product FY2015 FY2016 FY2017 FY2018 (Result) (Result) (Result) (Forecast) Improving CCC through business Mass process reform (inventory reduction, Generation lead time reduction) production FY2016 FY2017 FY2018 Cash Creating synergy with Sullair (Result) (Result) (Forecast) Thorough management of project **Build-to-order** 107.5 97.4 100.9 profit & loss CCC production Shortening product lead time with End days days days to End process reform

CCC: Cash Conversion Cycle

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### 3-1. Business Performance Trends

+7.5

Foreign Decrease of

exchange loss costs (1.7) + 3.8

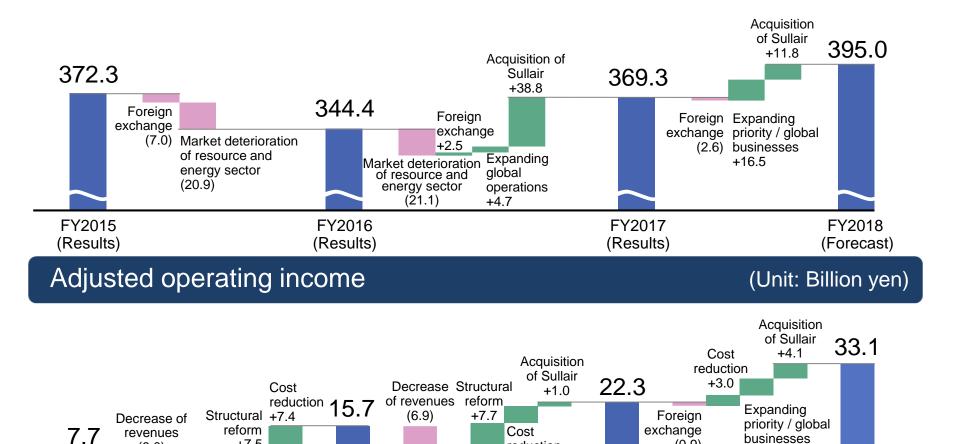
(9.0)

FY2015

(Results)

Revenues

(Unit: Billion yen)



reduction

+4.7

Foreian exchange +0.1

FY2016

(Results)

(0.9)

FY2017

(Results)

+4.6

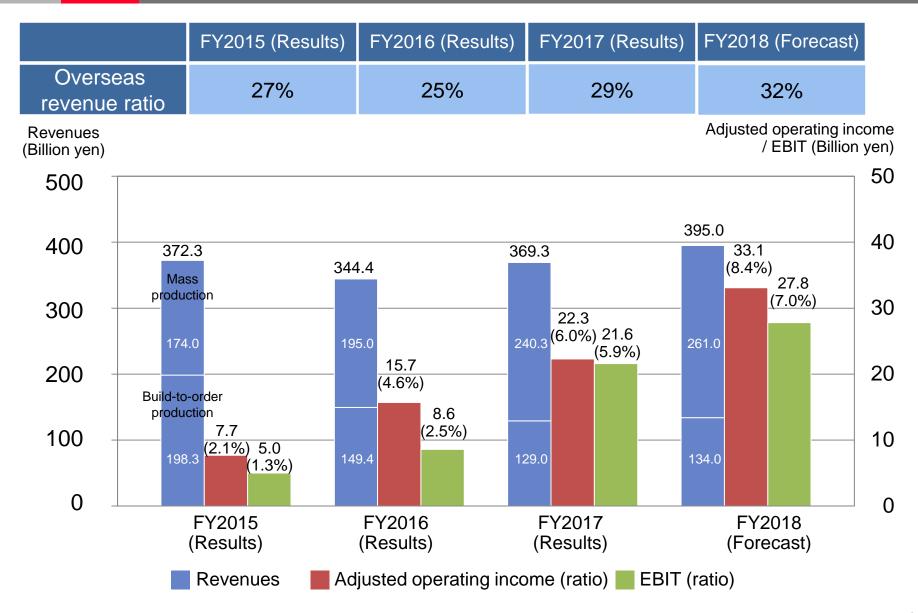
FY2018

(Forecast)

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### **3-2. Business Performance Trends**

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FY2018 Target						
	FY2018	Comparison with FY2015				
Revenues 395.0 billion yen		+22.7 billion yen [+6.1%]				
Adjusted operating income [ratio]	33.1 billion yen [8.4%]	+25.4 billion yen				
EBIT [ratio]	27.8 billion yen [7.0%]	+22.8 billion yen				
Overseas revenue ratio	32%	+5%				

Expand priority businesses and accelerate global expansion (recurring businesses)

Focus resources on growing businesses and strategic investment

Expand service and solution businesses based on Products × OT × IT (Concentrate Hitachi Group's comprehensive power including Industry & Distribution BU) Certain statements found in this document may constitute "forward-looking statements" as defined in the U.S. Private Securities Litigation Reform Act of 1995. Such "forward-looking statements" reflect management's current views with respect to certain future events and financial performance and include any statement that does not directly relate to any historical or current fact. Words such as "anticipate," "believe," "expect," "estimate," "forecast," "intend," "plan," "project" and similar expressions which indicate future events and trends may identify "forward-looking statements." Such statements are based on currently available information and are subject to various risks and uncertainties that could cause actual results to differ materially from those projected or implied in the "forward-looking statements" and from historical trends. Certain "forward-looking statements" are based upon current assumptions of future events which may not prove to be accurate. Undue reliance should not be placed on "forward-looking statements," as such statements speak only as of the date of this document.

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