

## **Automotive Systems Business Strategy**

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# **Automotive Systems Business Strategy**

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#### 1. Business Overview

- 2. Market Trends
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## **1-1. Business Concept**

#### Corporate Credo

We will contribute to the realization of an affluent society by creating new value-added systems, products and services through the harmonization of people, vehicles and society.

Contribute to Society by Providing New Solutions for Vehicle Manufacturing to Solve Social Issues



Meet the needs of society with an Advanced Vehicle Control System that integrates social infrastructure and services with vehicle environment, safety and information technologies

## **1-2. Business Structure**

Structure the Automotive Systems business segment around systems and products in environmental, safety, and information fields that together form an advanced vehicle control system



PT Div.: Powertrain & Electronic Powertrain Systems Division, EN Div.: Engine & Chassis Division, Drive Div.: Drive Control Systems Division, Aftermarket Div.: Aftermarket Division

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## 1-3. Summary of FY2016



\*1: Forecast as of 2016 IR Day.

\*2: The rate at which overseas group companies locally procure both parts and materials that are produced locally.<sup>©</sup> Hitachi, Ltd. 2017. All rights reserved.

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## **1-4. Business Performance Trends**





## **1-5. Portfolio Trends**

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## 2-1. Automobile Society Issues and Solutions



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#### 2-2-1. Market Trends – Roadmap of Electric-driven and **Autonomous Driving Vehicles**



HEV: Hybrid Electric Vehicle, EV: Electric Vehicle, PHEV: Plug-in Hybrid Electric Vehicle, AD: Autonomous Driving

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## 2-2-2. Market Trends

- Changes in Production of EVs

Global electric vehicle production volume will increase sharply, driven by China, the world's largest automobile market



#### 2-2-3. Market Trends -Changes in Production of Autonomous Vehicles







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## **3-1.** Targets in the Two Major Markets

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In the two major markets, strengthen focus on expanding sales to automakers with large market shares in electric and autonomous vehicles, and who already hold Hitachi in high regard.

Plot Diagram of Market Shares in Electric and Autonomous Vehicle Production in China and the US in 2030



#### 3-2. Customers Continuing to Use or Starting to Use Electric-drive and Autonomous Driving Products HITACHI Inspire the Next



ECU: Electronic Control Unit

## 3-3. Example of Initiatives for Electric-drive Products - Motors

Collaborate with Honda Motor Co. to create synergy by combining knowledge and scale to strengthen competitive advantage and business base in the motor business



## 3-4 Example of Initiatives for Autonomous Driving HITACHI Products – Autonomous Driving ECU

Already demonstrated test driving with a prototype electronic control unit (ECU) equipped with various applications, aiming for early market introduction



## 3-5-1. Technologies for Megatrends – Superiority

Securing fundamental business and use system integration of electronic products as basis for increasing edge in technologies for megatrends in cooperation with Hitachi Group companies



Expand business by maintaining an edge at both a parts level and a system level

## 3-5-2. Technologies for Megatrends -Benchmarking

Availability of AD-ECU

AD-ECU

multi-function SW

compatibility



## Aim to become a major global player in the megatrends of the future

Autonomous

driving

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90

\*SW: Software

Availability of parts

Timing of market introduction of AD-

ECU

Proposal ability

AD-ECU

demonstration/

testing

Criteria

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## 3-6. Collaborative Solutions Provided by Hitachi Group HITACHI

#### The Hitachi Group companies have the linkages to connect people, vehicles and society



CRM: Customer Relationship Management, VRM: Vehicle Relationship Management

## 3-7. Business Targeting in Response to Megatrends

Significantly expand business in areas capitalizing on the electrification and autonomous driving megatrends by strengthening relationships with customers and offering one-stop-shop services

Systems and Products Business Targets (FY2016 Revenues =100)



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## 3-8. Example of Expansion of Sales to Customers -GM HITACHI



#### FY2016

Expand revenues through ability to make proposals that meet customer needs, leveraging ability to respond to technological trends

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**FY2020** 

#### HITACHI **3-9.** Improvement of Performance in Two Major Markets Inspire the Next



## **3-10 Measures to Strengthen Global R&D**

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## 3-11. Manufacturing Innovation by Utilizing IoT



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## **3-12.** Cost Structure Reform and Cash Generation

Execute growth strategy through structural reform and continuous innovation

Promotion Details		Improvement of CCC, Operating CF and ROA				
Cost structure reform	<ul> <li>Strengthen manufacturing and quality assurance capabilities through utilization of IoT         <ul> <li>Use Big Data to increase production efficiency, carry out predictive maintenance and ensure quality traceability</li> </ul> </li> <li>Strengthen investment management and improve asset efficiency         <ul> <li>Strengthen deliberation of investment by business divisions and regional headquarters to improve asset efficiency</li> </ul> </li> </ul>		FY2015 (Result)	FY2016 (Result)	FY2017 (Forecast)	FY2018 (Target)
		CCC	<b>42.1</b> days	40.5 days	40.7 days	<b>40.6</b> days
		Operating <b>CF</b>	<b>89.4</b> billion yen	75.5 billion yen	<b>88.0</b> billion yen	105.0 billion yen
		ROA	4.9%	6.2%	4.7%	5.3%
		Improvement in gross margin and SG&A ratio				
Cash generation	Expand proposals of products and systems in response to megatrends	Improvement (% point)Selling, general and administrative expense (SG&A) ratioGross margin				
	<ul> <li>Strengthen structure for development of EV and autonomous driving products and systems and expand cooperative development with customers</li> <li>Strengthen cooperation among Hitachi Group companies         <ul> <li>Build up services business by utilizing Lumada</li> </ul> </li> </ul>	1 0.5		0.3	0.1	0.7
		0 (0.5)			(0.2)	0.1
		(1)		(0.8)		
	Cash Conversion Cycle, Operating CF:Cash flow from operating activities	F <sup>3</sup> (	FY2015 Result)	FY2016 (Result)	FY2017 (Forecast)	FY2018 (Target)

CCC: Cash Conversion Cycle, Operating CF: Cash flow from operating activities ROA: Return on Assets

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## 4. Summary

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FY2018 Targets and Growth Beyond FY2018

## FY2018 Targets

Revenues: 1.1 trillion yen (Increase of 10% from FY2015) Adjusted Operating Income Margin[EBIT Margin]:7.0%[6.9%] (Improvement of 0.8% [1.5%] from FY2015) ROA: 5.3% (Improvement of 0.4% from FY2015) Operating CF[Ratio]:105.0 billion yen[9.5%]

(Increase of 15.6 billion yen (0.6%) from FY2015)

## FY2020 Targets

Enhance the potential growth aiming for growth rate of 9.1%, significantly higher than market growth rate of 2.5%. Revenues of 1.3 trillion yen 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, particularly against the U.S. dollar and the euro;
- 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;
- Illuctuations 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 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 ability to attract and retain skilled personnel;
- uncertainty as to Hitachi's access to, or ability to protect, certain intellectual property rights;
- 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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