

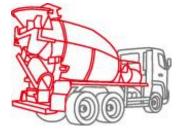




# Meeting Materials for FY2015, Ended March 31, 2016 Summary, Business Outlook and Financial Information

May 12, 2016

KYB Corporation (Stock Code: 7242; First Section of Tokyo Stock Exchange)





# **Summary and Business Outlook**

## Yasusuke Nakajima

Representative Director, President Executive Officer

# **Financial Information**

# Takaaki Kato

Member of the Board of Directors, Senior Managing Executive Officer

# Opening



Since becoming the President of KYB, I have been visiting customers and production bases in Japan and overseas.



October 2015 U.S.A.: Customers and production bases



production bases





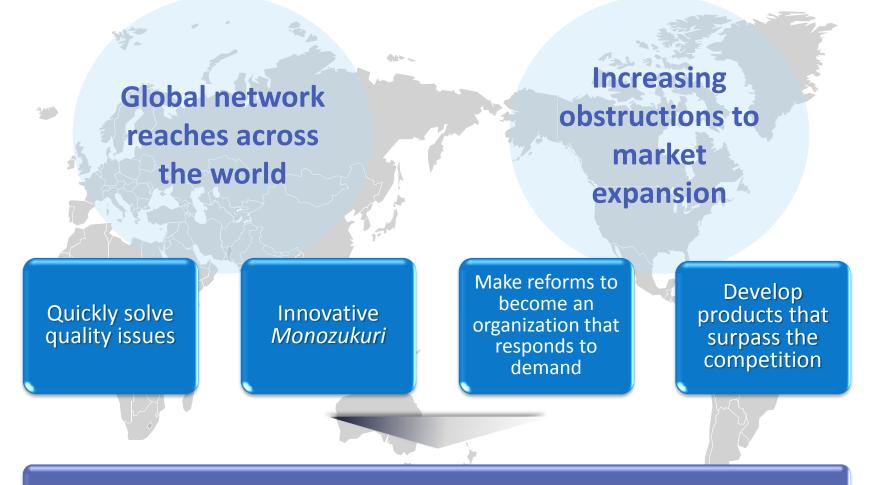
May 2015 ASEAN: Customers and production bases December 2015 China: All customers



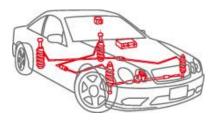
August 2015 Taiwan: Customers and production bases

# Opening



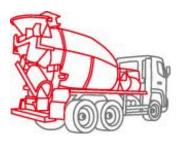


Increase the strength of workplaces, and aim to make KYB a company that earns the satisfaction of customers around the world









# FY2015 Summary and Business Outlook

# Yasusuke Nakajima

Representative Director, President Executive Officer KYB Corporation



	FY2014	FY2	015	Differe	ences
(¥ Billion)	Actual	Forecast (Feb. 2, 2016)	Actual	Previous period	Previous forecast
Net Sales	370.4	362.0	355.4	(15.0)	(6.6)
Operating Income	13.6	13.7	15.6	2.0	1.9
Ordinary Income	15.9	13.3	14.3	(1.6)	1.0
Net Income	7.1	1.8	(2.2)	(9.3)	(4.0)
Dividend (¥)	12*	11	11	(1)	<b>±</b> 0

\*Including 2 yen of commemorative dividend

#### **FOREX** (Average)

(¥)	FY2014	FY2015
JPY / US\$	109.93	120.15
JPY / EUR	138.77	132.57



#### Net Sales (¥ Billion)

370.4	355.4
НС	НС
AC	AC
FY2014 Actual	FY2015 Actual

	FY2014	FY2015	Differences (Previous period)	
AC Operations	237.1	240.9	3.9	1.6%
HC Operations	113.2	95.1	(18.1)	(16.0)%
Special-purpose Vehicles and Systems	20.1	19.3	(0.8)	(4.1)%
Total	370.4	355.4	(15.0)	(4.1)%
AC: Automotive Components				

AC: Automotive Components HC: Hydraulic Components

#### **Causes of Fluctuation in Net Sales**

7

AC Operations: Firm sales of automotive shock absorbers (OEM in North America, aftermarket in middle east) mainly boosted net sales

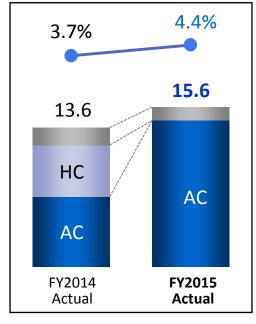


HC Operations: A sluggish market in China caused decreased sales of equipment for hydraulic excavators.

## FY2015 Financial Performance by Segment (Operating Income)



#### **Operating Income (Margin)** (¥ Billion)



AC Operations 6.9 <b>14.3</b> 7.4	106.4%
HC Operations 5.0 (0) (5.0	) —
Special-purpose Vehicles and Systems1.71.3(0.3)	) (20.1)%
<b>Total</b> 13.6 <b>15.6</b> 2.0	) 14.9%

AC: Automotive Components HC: Hydraulic Components

#### Causes of Fluctuation in Operating Income

AC Operations: Increase in sales, decrease in provisions related to quality, large increase in profits due to controlling costs



HC Operations: Large decline in profits caused by decrease in sales exceeding cost control efforts



#### **Causes of Fluctuation in Ordinary Income**

Foreign exchange loss due to a strong yen ¥3.4 billion Equity in loss of affiliates

(Downturn at Brazilian affiliate due to the devaluation of the Brazilian real)

# ¥1.3 billion

#### **Causes of Fluctuation in Net Income**

- Sales of investment securities ¥1.9 billion
  - Loss on violation of U.S. antitrust laws

Increase in impairment loss (Loss of ¥3.5 billion caused by a decline in profitability at Chinese HC subsidiary)

¥8.2 billion

¥2.0 billion



(¥ billion)	JGAAP FY2015		IFRS FY2016		Differences
(¥ binion)	Actual	1H forecast	2H forecast	Forecast	Previous period
Net Sales	355.4	170.0	172.0	342.0	(13.4)
Operating Income	15.6	5.5	7.5	13.0	(2.6)
Ordinary Income	14.3	_	_	—	_
Net Income	(2.2)	3.1	4.8	7.9	10.2
Dividend (¥)	11	5	6	11	<b>±</b> 0

#### **FOREX** (Average)

(¥)	FY2015	FY2016 Forecast
JPY / US\$	120.15	105.00
JPY / EUR	132.57	120.00



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**Net Sales** (¥ Billion)

	JGAAP FY2015 Actual	IFRS FY2016 Forecast	Differences (Previous period)	
AC Operations	240.9	223.2	(17.8)	(7.4)%
HC Operations	88.1	89.6	1.5	1.7%
Special-purpose Vehicles and Systems	26.4	29.2	2.9	10.9%
Total	355.4	342.0	(13.4)	(3.8)%

#### [Changes following release]

Business segment of the Aircraft Components Div. changed from "HC Operations" to "Special-purpose Vehicles and Systems."

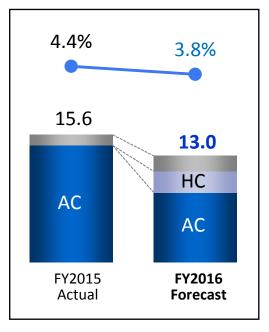
[Regarding the business segment of the Aircraft Components Div. in the above table] FY2015: Special-purpose Vehicles and Systems, FY2016 Special-purpose Vehicles and Systems

#### Causes of Fluctuation in Net Sales

AC Operations: Decrease in sales due to foreign exchange fluctuations



#### **Operating Income (Margin)** (¥ Billion)



	JGAAP FY2015 Actual	IFRS FY2016 Forecast	Differences (Previous period)	
AC Operations	14.3	8.5	(5.9)	(40.8)%
HC Operations	(0.0)	2.6	2.7	_
Special-purpose Vehicles and Systems	1.3	1.9	0.6	43.7%
Total	15.6	13.0	(2.6)	(16.7)%

#### [Changes following release]

Business segment of the Aircraft Components Div. changed from "HC Operations" to "Special-purpose Vehicles and Systems."

[Regarding the business segment of the Aircraft Components Div. in the above table] FY2015: HC Operations, Y2016 Special-purpose Vehicles and Systems

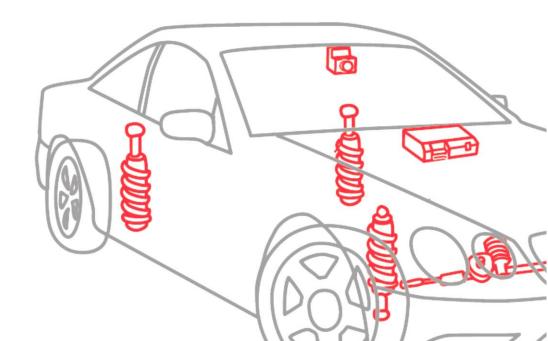
#### **Causes of Fluctuation in Operating Income**

AC Operations: Decrease in profit due to foreign exchange fluctuations



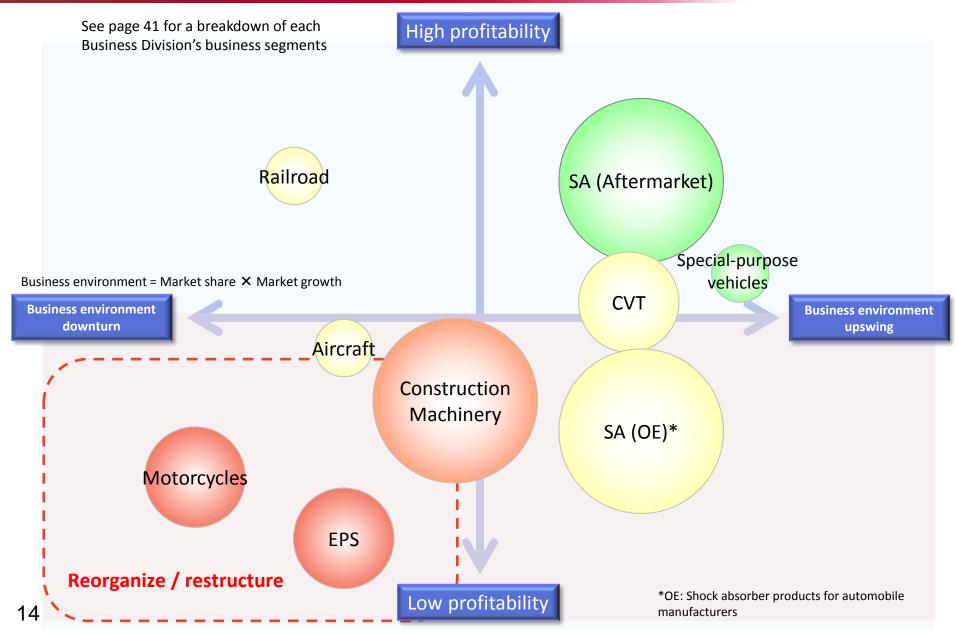


# **Business Outlook**



## **Position of Each Business Division**







#### (Million units, Total of automobiles and small trucks) 100 94 92 89 23 23 Middle East, Africa 2 13 13 80 South America 12 ASEAN, India, Korea 19 18 18 North America 60 China 26 25 24 Europe 40 🛯 Japan 20 21 22 21 9 9 9 0 2015 2016 2017 Actual Forecast Forecast

Automobile Production Forecast

Source: IHS (the end of Apr. 2016)

#### **Business Environment**

#### **Global:**

Concern over a worldwide economic slowdown, with an economic slump in China and currency devaluation in resource-rich countries

#### **Domestic:**

Number of automobiles produced has leveled off Shift toward low price / environmentally friendly automobiles

#### FY2016 Key Efforts

- ✓ Develop value-added products
- ✓ Innovative *monozukuri*
- Boost profits with sales promotions for aftermarket products

#### AC Operations— Develop Value-Added Products



**Electronically controlled suspension** 

High added value / improved ride comfort

Lower weight Low fuel consumption / environmental consideration

#### Value-Added Product Trends

	Electronically controlled suspension	Lower weight
Market trend	<ul> <li>Europe leading in development</li> <li>Premium market segment is non-Japanese makers</li> </ul>	Europe: Leading in lightweight technology Japan: Getting up to speed with customer's demands for lightweight technology, with a focus on environmentally friendly automobiles
KYB's strengths	<ul> <li>Cutting edge joint development based on a firm foundation with Japanese customers</li> <li>Sales promotion campaigns that make use of our foundation with major European customers</li> <li>Able to deal with small vehicle suspensions</li> </ul>	<ul> <li>Cutting edge joint development based on a firm foundation with Japanese customers</li> <li>Development and introduction of cutting edge technology through European development center</li> </ul>
Shipping quantity Usage forecast	FY2016: Start of mass production FY2020: ¥6.0 billion	FY2015: Hollow rod adoption in Toyota Prius →Offer proposals to customers when appropriate, including for other products



#### Innovative Compact Automated Lines

Current

•Large lot production

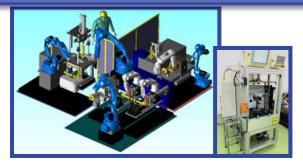
Manual operation

#### Future

- →Small lot production (Flexibly deal with sudden quantity changes and small lots of many different products)
- → Automation (Improve quality and increase cost competiveness by removing human error)
- •Lines differ at each plant  $\rightarrow$  Global production lines (Increase the speed of lines and product development with a standardized production method)

#### Features of the New Shock Absorber Line (Launch: FY2016, Japan)

Automated wielding, construction, and inspection (Fewer operators, high speed)



**Compact coating equipment** (Shorten lead time, reduce inventory)



Effects of the new line: Reductions of 50% in manpower required and changeover time, 1/3 in lead time, and 15% in processing costs (per piece)

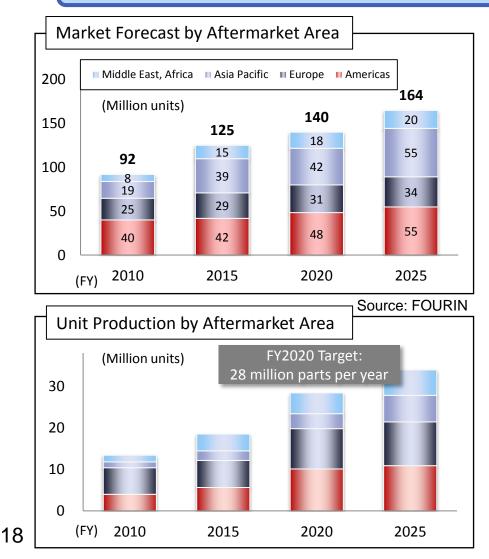
Target of the new line: Productivity improvement of 25%, automation ratio of 75%

- •Sequential roll out of new line to all plants
- Prevent flaws before occurrence by receiving line information in real time and quickly finding abnormalities

## AC Operations— Boost Profits with Sales Promotions for Aftermarket Products

•Strengths: Global production / sales network, high coverage rate of 93%\*

•Overall strategy: System that can supply / sell anywhere in the world



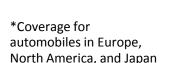
#### Aftermarket Strategy

#### Change emphasis from number produced to profits

- •Net business increase by entering new genre markets in North America
- •Sales promotions for high value-added products
- •Expand sales network in Mexico and Brazil
- •Reduce costs by rationalizing warehouses in the European region
- •Sales promotions for the African market
- •Enter the ASEAN truck market
- •Expansion and sales promotions for the use of Japanese, European, and North American automobiles in the China, Australia, and Mekong markets

#### Expand global optimum supply system

- •Optimize purchasing using 12 production bases placed around the globe
- •Flexible purchasing system based on exchange fluctuations



#### AC Operations— Motorcycle, EPS



Issue	Measure
Decrease of units sold in China, ASEAN districts →Excess supply capacity Transfer of production overseas for models produced domestically →Deteriorating domestic sales	Supply systemIntegrate companies / plants in Vietnam and India, reduce and reorganize other companies / plants (Reduce production capacity from 1.1 million to 7 million pieces)Develop low cost models aimed at the ASEAN marketDomestically Develop electronically controlled suspension
Progress with automated driving →Dealing with increasingly sophisticated technological development EPS market price decline due to popularization →Worsening profitability	Technological developmentComplete an electronics technology developmentsystemMake use of outside resourcesProfitability improvementDesign cost reduced EPS modelSales promotion for new markets

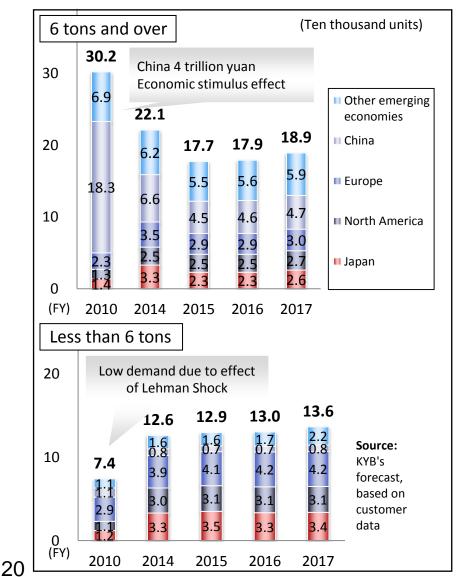
Sales promotion for new markets Sales promotions for EPS for ATV/UTV,\* construction machinery, and agricultural machinery

EPS

Motorcycles



#### Demand for Hydraulic Excavators Forecast



#### **Business Environment**

#### 6 tons and over:

Drop in demand from the FY2010 peak Unclear future with no forecast for large growth China: Lengthening economic slump North America: Sluggish demand for resource development

#### Less than 6 tons:

Growth in the market for mini-excavators as urban construction machinery due to urbanization progress, continuing slight demand increase

#### FY2016 Key Efforts

- Carry out structural reforms
- Increase non-excavator ratio

#### HC Operations— Carry Out Structural Reforms



#### **State of Progress**

## **Domestic and overseas company / plant reorganization ⇒ Complete** Integration of two manufacturing companies in China / Integration of two sales companies in China / Integration of two domestic manufacturing companies ⇒ Completed: April 1, 2016 Integration effects: Reduced personnel expenses, reduced outsourcing expenses **Reorganization beyond the existing business framework**

Production line streamlining in accordance with revision of demand

#### **forecast** ⇒ Complete

Cylinder production line reduction Japan:  $15,000 \rightarrow 12,000$  pieces per month;

China: 12,000  $\rightarrow$  6,000 pieces per month

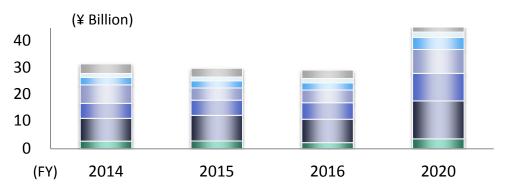
#### **Personnel organization / redistribution** $\Rightarrow$ **Ongoing**

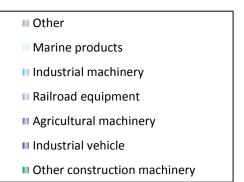
Personnel at China company: Reduction by 200 over 2 years

#### HC Operations— Increase Non-Construction Business



#### Sales Forecast of Non-Construction Machinery





Strategy

#### **Non-Construction Machinery Strategy**

Market environment				
	Marke	at any	vironn	ant
	IVIALNO			IEIIU

Other construction machinery	Mining dump truck total demand: 1,000 per year Market is dominated by the three largest construction machinery manufacturers	Utilize excavator cylinder manufacturing equipment Develop cylinders for suspension and hoist → Integrate cylinder and suspension technologies
Agricultural machinery	Population increase / emerging nation development / measures against disparity Future progress with farm mechanization	Sales promotions for highly efficient / electronic control products in developed countries Sales promotions for consumer edition, proven products in emerging countries
Railroad equipment	Expanding further along with the economic growth of emerging countries	Increase share in Japan by focusing on releasing new products, and sales promotions to overseas clients



## Aircraft Components Div. has established on Jan.1, 2016.

Purpose of establishment: Increase maneuverability in the aircraft business, a growth field
 Main products: Actuators, valves, wheels , and brakes
 Changes since release: The reportable segment changed from "HC Operations" to "Other Segment"

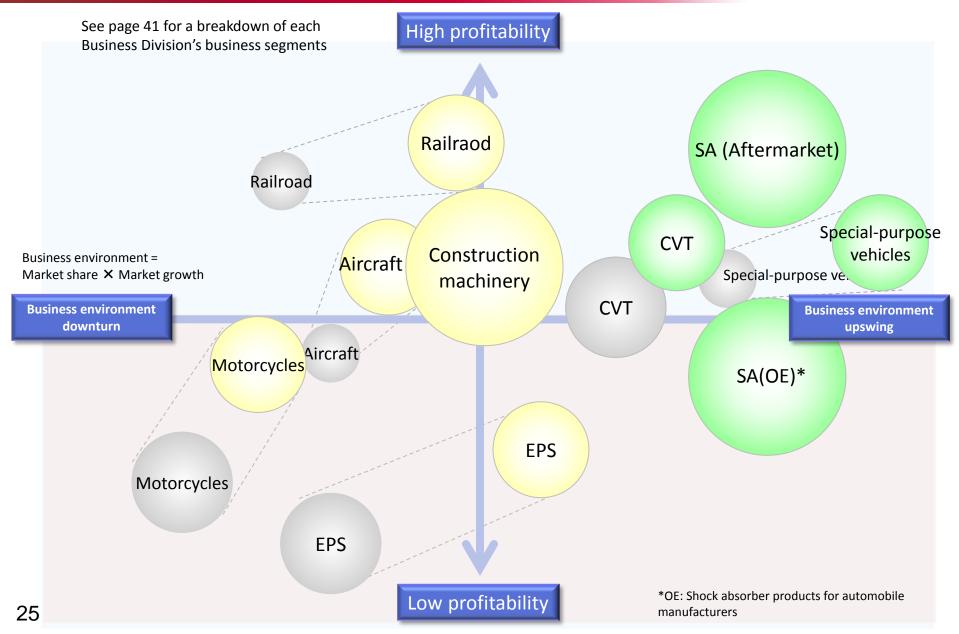




	Environment / market trends	Key initiatives for 2016
Special-purpose vehicles	<ul> <li>Temporary peak in the domestic market against the backdrop of a sudden jump in construction costs</li> <li>Growth market in India (Annual growth rate of 30–40%)</li> </ul>	<ul> <li>✓ Domestic: Establish a manufacturing, sales, and engineering system that can respond to market trends</li> <li>✓ India: Start up of manufacturing system strengthening project Share: FY2015 results: 4.5% FY2016 target: 15.0%</li> </ul>
Earthquake dampers	<ul> <li>Aggregation of four domestic companies (KYB's share: 50%)</li> <li>Super general contractor companies are focusing on countermeasures against long period seismic vibrations</li> </ul>	<ul> <li>✓ Make long period seismic motion countermeasures an urgent issue, differentiate KYB from the competition with development ability</li> <li>✓ Change to proposal-based business</li> </ul>

## **Target Position for Each Business Division**







## FY2016 Slogan

# Earning trust and orders from customers around the world by uniting the KYB Group's functions

 $\sim$  Make progress towards the next medium term $\sim$ 

#### Monozukuri

# Technology and product development

Ensure costcompetitiveness by increasing productivity and improving quality.

Develop new products and technologies that outpace the competition, leading to winning orders in each region. Production, sales, technology unification activities

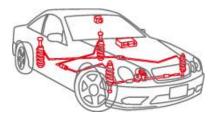
Share information globally and conduct unification activities, leading to winning orders.

#### **Develop human resources**

Ensure the development of global human assets in order to achieve above.

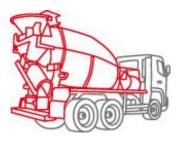
#### Management

Management activities for Group optimization









# FY2015 Financial Information

# Takaaki Kato

Member of the Board of Directors, Senior Managing Executive Officer KYB Corporation

## **FY2015 Net Sales and Operating Income**



(V Dillion)		FY2014	FY2015	Differences
(¥ Billion)		Actual	Actual	Differences
	Shock absorbers for automobiles	159.1	162.6	3.5
	Shock absorbers for motorcycles	26.7	26.3	(0.3)
	Hydraulic equipment for automobiles	45.9	46.3	0.4
	Others	5.4	5.7	0.3
	AC Operations	237.1	240.9	3.9
	Hydraulic equipment for industrial use	97.6	79.9	(17.7)
Net Sales       Hydraulic equipment for aircraft         Others       HC Operations         Special-purpose Vehicles       System products and electronic components, etc.	7.3	7.1	(0.2)	
	Others	8.4	8.2	(0.2)
	HC Operations	113.2	95.1	(18.1)
	Special-purpose Vehicles	8.4	9.0	0.6
	System products and electronic components, etc.	11.7	10.3	(1.4)
	Special-purpose Vehicles, System Products and Electronics Components	20.1	19.3	(0.8)
	Total Sales	370.4	355.4	(15.0)
			-	
	AC Operations	6.9	14.3	7.4
Operating	HC Operations	5.0	(0.0)	(5.0)
Income	Special-purpose Vehicles, System Products and Electronics Components	1.7	1.3	(0.3)

7

**Total** 

AC Operations: Large profit increase due to favorable sales of automotive shock absorbers (OEM in North America and aftermarket sales in the Middle East), decrease in quality related provisions, and controlling costs

13.6

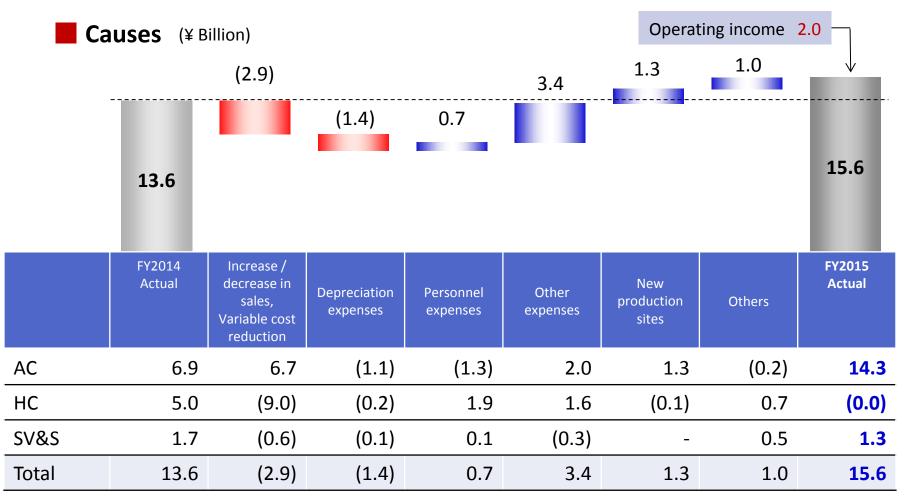
15.6

2.0

HC Operations: Large reduction in numbers of mid-size excavators sold due to a slump in the China construction machinery market

## **FY2015 Changes in Operating Income**





SV&S: Special-purpose Vehicles and Systems

Notes: 1. Increase / decrease in sales, Variable cost reduction: Including an increase in results due to the impact of profit and loss variations in quality related provisions of ¥3.3 billion

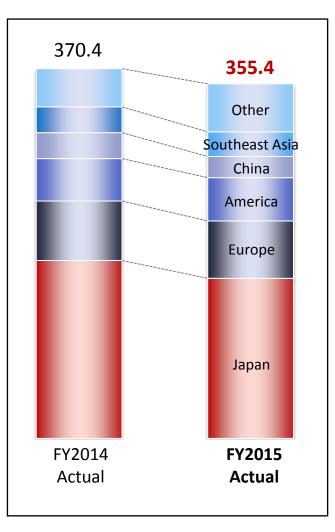
New production sites: Increase / decrease in operating income from newly started operations at AC company KMSI in India, AC company KMEX in Mexico, and HC company KHMI in Indonesia

2. Differing from the breakdown above, the impact on operating income of the FOREX on the entire Group was ¥1.2 billion



Net Sales by Region (¥ Bi

(¥ Billion)



	FY2014	FY2015	Differences
	Actual	Actual	Previous period
Japan	178.3	160.4	(10.0)%
Europe	59.6	57.5	(3.5)%
America	42.5	43.4	2.1%
China	26.0	21.2	(18.3)%
Southeast Asia	25.9	24.7	(4.6)%
Other	38.2	48.1	26.0%
Total	370.4	355.4	(4.1)%

**Overseas Sales Ratio** 

|51.9% **→** 54.9%

## **FY2016 Net Sales and Operating Income Forecast**



		JGAAP	IFRS	
(¥ Billion)		FY2015	FY2016	Differences
		Actual	Forecast	
	Shock absorber for automobiles	162.6	146.8	(15.8)
	Shock absorber for motorcycles	26.3	24.1	(2.2)
	Hydraulic equipment for automobiles	46.3	46.0	(0.3)
	Others	5.7	6.3	0.6
	AC Operations	240.9	223.2	(17.8)
	Hydraulic equipment for industrial use	79.9	81.6	1.8
Net Sales	Others	8.2	8.0	(0.2)
	HC Operations	88.1	89.6	1.5
	Special-purpose Vehicles	9.0	9.1	<b>±</b> 0
	Hydraulic equipment for aircraft	7.1	8.0	0.9
	System products and electronic components, etc.	10.3	12.2	1.9
	Special-purpose Vehicles, Hydraulic equipment for aircraft, System Products and Electronics Components	26.4	29.2	2.9
	Total Sales	355.4	342.0	(13.4)
	AC Operations	14.3	8.5	(5.9)
Operating	HC Operations	(0.0)	2.6	2.7
Income	Special-purpose Vehicles, Hydraulic equipment for aircraft, System Products and Electronics Components	1.3	1.9	0.6
	Total	15.6	13.0	(2.6)

AC Operations: Decrease in sales and profit due to foreign exchange fluctuations

See pages 11 and 12 for the reportable segments of the Aircraft Components Div.

HC Operations: Effect of structural reforms

#### **FY2016 Changes in Operating Income**



Caus	<b>es</b> (¥ Billio	Operatin	Operating income (2.6)					
	15.6		1.4	0.03	0.6	11.0	2.0	13.0
	FY2015 Actual JGAAP	Increase / decrease in sales, Variable cost reduction	Personnel expenses	Depreciation expenses	Other expenses	FY2016 Forecast JGAAP	IFRS adjustment	FY2016 Forecast IFRS
AC	14.3	(8.0)	0.9	(0.6)	0.4	7.1	1.4	8.5
НС	(0.0)	1.1	0.6	0.7	0.0	2.1	0.5	2.6
SV&S	1.3	0.3	(0.1)	(0.1)	0.2	1.8	0.1	1.9
Total	15.6	(6.6)	1.4	0.0	0.6	11.0	2.0	13.0

SV&S: Special-purpose Vehicles and Systems

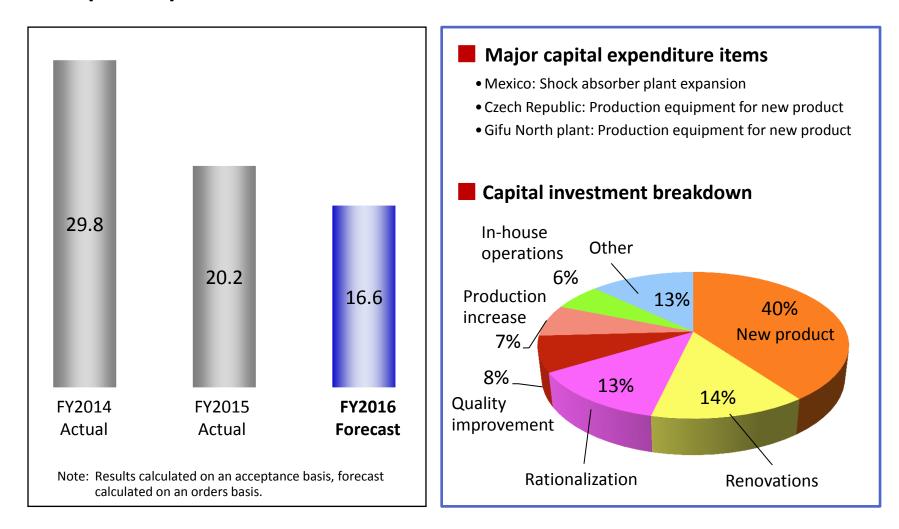
Notes:1. IFRS adjustment: Effects of changes to disclosure classifications (Equity in net income of affiliates + ¥0.5 billion) as well as effects of changes to accounting principles (Capitalization of development costs, non-amortization of goodwill, and others)

2. Differing from the breakdown above, the impact on operating income of the FOREX on the entire Group was ¥4.1billion

#### **Capital Expenditures**



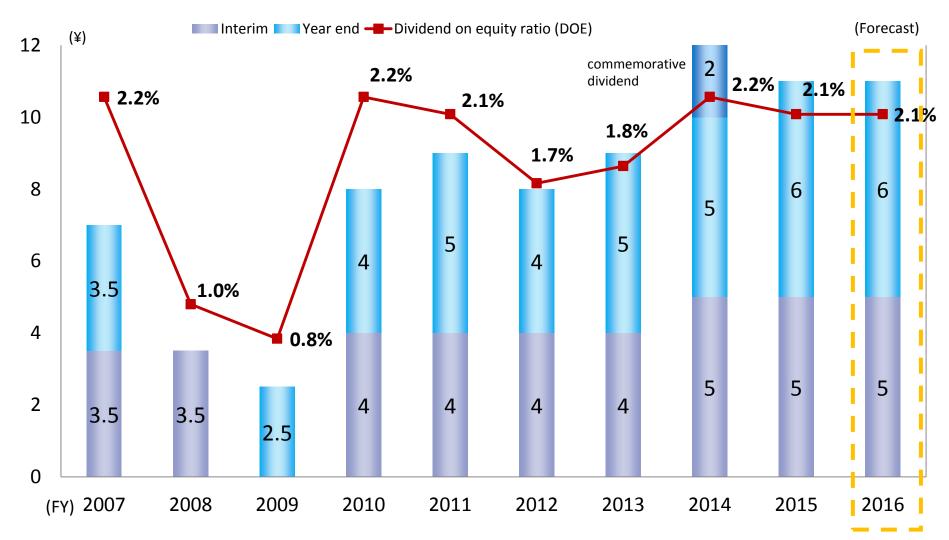
#### **Capital Expenditures** (¥ Billion)



#### **Dividends**







# Our Precision, Your Advantage

#### **Cautionary Statement**

This report contains forward-looking statements, including KYB's plans and strategies, as well as statements that report historical results. Forward-looking statements involve such known and unknown risks and uncertainties as economic conditions; currency exchange rates; laws, regulations, and government policies; and political instability in principal markets.

For further information, please contact to: Investor Relations Sect., Finance Dept. Tel: +81-3-3435-3580



(¥ billion)

		F١	2015 (JGAA	P)	FY20	16 Forecast (	(+ Sinon)
		1st Half	2nd Half	Total	1st Half	2nd Half	Total
	Shock absorbers for automobiles	82.9	79.7	162.6	75.0	71.8	146.8
	Shock absorbers for motorcycles	12.8	13.5	26.3	11.7	12.4	24.1
	Hydraulic equipment for automobiles	23.8	22.5	46.3	23.4	22.6	46.0
	Others	3.2	2.5	5.7	3.4	2.9	6.3
	AC Operations Total		118.3	240.9	113.4	109.7	223.2
	Hydraulic equipment for industrial use	41.1	38.8	79.9	39.0	42.6	81.6
	Hydraulic equipment for aircraft	3.0	4.1	7.1	-	-	-
Net Sales	Others	4.1	4.1	8.2	4.1	3.9	8.0
	HC Operations Total	48.1	47.0	95.1	43.1	46.5	89.6
	Special-purpose Vehicles	4.3	4.7	9.0	3.9	5.1	9.1
	Hydraulic equipment for aircraft	-	-	-	4.2	3.8	8.0
Sales	System products and electronic components, etc.	4.8	5.5	10.3	5.3	6.9	12.2
	Special-purpose Vehicles, System Products	9.0	10.3	19.3	13.4	15.8	29.2
	and Electronics Components	9.0	10.5	19.5	13.4	15.0	29.2
	Total Sales	179.8	175.6	355.4	170.0	172.0	342.0
	AC Operations Total	6.8	7.5	14.3	4.2	4.3	8.5
Operating	HC Operations Total	-0.1	0.1	-0.0	0.8	1.8	2.6
Net Sales Operating	Special-purpose Vehicles, System Products and Electronics Components		0.7	1.3	0.5	1.4	1.9
	Total	7.2	8.3	15.6	5.5	7.5	13.0

Capital Expenditure

Depreciation Exp.



16.49 18.20
10.43

(¥ billion)

FY2015

20.23

"Capital expenditure" and "Depreciation exp." = invested and depreciated in property, plant and equipment

FY2009

10.08

15.32

(\*1) The estimation of "Capital Expenditure in FY2016 Total" is on order basis. Actual figures were calculated on inspection basis.

8.92

13.43

FY2010

			Interest-b		<i>/</i>		
							(¥ billion)
	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
Interest-bearing Debt	98.15	81.64	80.52	92.95	88.81	92.45	91.25

FY2011

27.17

13.51

**Capital Expenditure, Depreciation** 

FY2012

39.22

14.55

FY2013

29.91

17.29

			R&D E	)	(¥ billion)		
	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
R&D Expenses	2.82	3.22	4.04	5.47	6.92	8.91	8.11

			Number of				
	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
Number of Employees	10,977	11,440	11,975	12,306	13,033	13,732	13,796

			Foreign Exc	change Rate				
	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016
Average FOREX Rate - JPY/USD	92.85	85.72	79.08	83.11	100.24	109.93	120.15	105.00
Average FOREX Rate - JPY/EUR	131.16	113.12	108.97	107.14	134.37	138.77	132.57	120.00
Average FOREX Rate - JPY/CNY	13.71	12.89	12.38	13.22	16.40	17.73	18.85	16.50
Average FOREX Rate - JPY/THB	2.75	2.75	2.58	2.70	3.19	3.38	3.44	3.00
Average FOREX Rate - JPY/RUB	_	-	-	2.82	3.03	2.53	1.91	1.30

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18.00 (Est.)

FY2016

16.60

(\*1)



#### (¥ billion)

		FY2014				FY2015			
		AC	HC	Others	Total	AC	HC	Others	Total
Japan	1st Half	36.1	41.5	8.1	85.8	36.2	36.4	7.7	80.3
	2nd Half	39.9	42.3	10.3	92.5	36.0	35.6	8.5	80.1
	Total	76.0	83.8	18.4	178.3	72.2	71.9	16.3	160.4
Europe	1st Half	28.6	2.6	0.0	31.2	27.1	2.4	0.0	29.5
	2nd Half	25.8	2.6	0.0	28.4	25.8	2.3	0.0	28.0
	Total	54.4	5.2	0.0	59.6	52.8	4.7	0.0	57.5
America	1st Half	16.6	3.2	0.0	19.8	19.9	2.9	0.0	22.7
	2nd Half	19.6	3.1	0.0	22.7	17.5	3.1	0.0	20.7
	Total	36.2	6.3	0.0	42.5	37.4	6.0	0.0	43.4
China	1st Half	7.0	6.0	0.0	12.9	7.5	3.7	0.0	11.2
	2nd Half	7.1	5.9	0.0	13.0	8.0	2.1	0.0	10.1
	Total	14.1	11.8	0.0	26.0	15.4	5.8	0.0	21.2
South East Asia	1st Half	11.5	0.8	0.0	12.3	12.2	0.3	0.0	12.6
	2nd Half	12.9	0.7	0.0	13.6	11.8	0.3	0.0	12.1
	Total	24.4	1.5	0.0	25.9	24.1	0.6	0.0	24.7
Others	1st Half	16.7	2.2	0.7	19.6	19.8	2.5	1.3	23.5
	2nd Half	15.2	2.4	1.0	18.7	18.9	4.0	1.7	24.6
	Total	31.9	4.6	1.7	38.2	38.7	6.5	3.0	48.1
Total	1st Half	116.5	56.3	8.8	181.6	122.6	48.1	9.0	179.8
	2nd Half	120.6	56.9	11.3	188.8	118.3	47.0	10.3	175.6
	Total	237.1	113.2	20.1	370.4	240.9	95.1	19.3	355.4

## Appendix Product Development Strategy for HC Operations



		Improve basic performance / Enhance product line-up	<ul> <li>Pursuing safety and security</li> <li>Standardizing automated electronically controlled system development</li> </ul>
Issue / Market needs	Products	FY2014–2016	FY2017–2020
Low fuel consumption, energy conservation Noise reduction Cost reduction Improve maneuverability High efficiency IOT / ICT compatibility Electronic systems	Excavators Industrial vehicles, forklifts Agricultural machinery	<ul> <li>Small-size excavators (Under 9 ton)</li> <li>Enhance hydraulic equipment for 8-ton excavators</li> <li>Mid-size excavators (10–39 tons)</li> <li>Mass production of control valves</li> <li>High efficiency, high powered travel motor development</li> <li>High-performance cylinder development</li> <li>Complete development of hybrid excavator hydraulic system</li> <li>Development for crawler carrier closed-circuit pump motor sets</li> <li>Receive orders / development for control valves and pumps for overseas forklifts</li> <li>Commercialize gearless drive transmission, expand line-up</li> <li>Improve development in order to respond</li> </ul>	<ul> <li>Development optimized for region         <ul> <li>Deal with two opposite categories: Consumer versions and high functionality versions</li> </ul> </li> <li>Pursue energy conservation         <ul> <li>Develop hydraulic units / systems</li> </ul> </li> <li>Value-added improvements         <ul> <li>IOT compatibility</li> </ul> </li> <li>Automation / ICT compatibility         <ul> <li>Develop electronic control units / systems</li> </ul> </li> </ul>
	Railroad equipment	<ul> <li>to needs in emerging economies</li> <li>Develop / commercialize fully active suspension systems</li> <li>Develop a consumer version of semi- active suspension systems</li> </ul>	



#### Awards from Customers (Mostly 2H of FY2015, partial excerpt)

Customer	Award	Reason for Award		
TOYOTA MOTOR EAST JAPAN	Quality appreciation	Stayed below set quality complaint goal		
Hitachi Construction Machinery	Superior Supplier Award	Contributed in three areas: Cost, quality and delivery time		
Kobelco Construction Machinery	New Model Contribution Award	Contributed to QCD-competitive proposals and start-up of new model		
KUBOTA	Green Supplier Awards	Contributed to development and mass production of environmentally friendly products		
Boeing	SILVER prize	Boeing Performance Excellence		

## **Appendix** Breakdown of Business Divisions



Reportable segment		Business breakdown	Major products	
AC Operations	Shock absorber for automobiles	Shock absorber (OE) Shock absorber (Aftermarket)	SA for automobiles	
	Shock absorber for motorcycles	Motorcycles	Front folk Rear cushion units	
	Hydraulic equipment for automobiles	Vane pump CVT pumps EPS	Vane pump, power steering systems CVT pumps EPS	
	Others	Stay dampers	Stay dampers	
HC Operations	Hydraulic equipment for industrial use	Construction machinery Industrial machinery Agricultural machinery	Cylinders, valves, pumps, motors, Gear pumps MMP, HST	
	Others	Railroad equipment Seals	Railroad dampers, brakes Seals	
Other	Special-purpose vehicles	Special-purpose vehicles	Concrete mixer trucks	
	Hydraulic equipment for aircraft	Aircraft equipment	Actuator, valves, wheels brakes	
	System products and electronic components, etc.	Vibration control devices Stage equipment Electronic components	Earthquake dampers Stage control systems ECU, mobile communication device	

Red letters correspond to each business division on pages 14 and 25.









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