

Hitachi Metals IR Day 2016

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**Executive Officer President of the Cable Materials Company** 



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- 2. Market Environment
- 3. Growth Strategy and Action Plan
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#### 1-1. Business Domains of the Cable Materials Company



**Core competencies in cable materials** 



Conductors Connectors

Polymers

## Industrial infrastructure

Contribute to building safe, highly efficient infrastructure



Wires and cables for rolling stock

#### **Electronics**

Contribute to making devices smaller and more convenient



Wires and cables for medical devices,

#### **Automotive**

Contribute to building a safe, secure automobile-based society



EPB harnesses

#### 1-2. Cable Materials Company: Business Overview



# Aim for expansion in the cornerstone segments of rolling stock, medical, and automotive electronic components

#### **Core Products**

Main product groups:

- Wires/cables for construction
- Wires/cables for electronics
- Magnet wires
- Industrial rubber













#### **Growth Areas**

#### Main product groups:

- Wires/cables for rolling stock
- Wires/cables for medical devices
- Automotive electronic components



Wires,
Cables &
Related Products:

FY2015 Revenues: ¥288.2 bn

#### Information Systems, etc.

■ Ethernet switches, etc.



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#### 2. Market Environment



High-speed railway	Various countries around the world have plans to build high-speed railways. Average annual growth of around 3% is projected over the next 20 years.
Medical devices	Average annual growth of 5% is projected as a result of the aging of society and increasing sophistication of medical devices.
Automotive	The need for materials and technologies that will enable lighter weight vehicles and improve fuel efficiency is expanding.

		2010	2015	2020	
High-speed railway plans		• China CF	RH • UK IEP	• Southern U.S. • Western India	estern U.S.
Medical devices			<ul> <li>High-resolution diag</li> <li>Increasing sophistic of treatment and diag</li> </ul>	ation • Medical resuscitati	on
Automotive	CO <sub>2</sub> emissions regulations	European regulat	ions • 130 g/km	• 95 g/km	
	Standards for measuring fuel efficiency	Individual standards	(JC08/NEDC, etc.) To	ward a common global standar	d (WLTC)
Demand for wires, cables, and related	Wires/cables for rolling stock	Meet EN standard	ds • Thinner non-haloger	cables • Ultra-light cables	
	Wires/cables for medical devices		oles/wires with high conduct igh tensile strength • High-density (Micro-c	vity • Multi-functional cathe paxial and optical cable)	ters
products	Automotive electronic components		<ul> <li>Lighter weight (aluminum cond</li> </ul>	<ul> <li>For high heat resistar luctors) (in the area surroundir engine)</li> </ul>	

Source: Hitachi Metals projections based on data published by regulatory authorities in various countries and regions, and data from various market surveys

CRH: China Railway High-speed, IEP: Intercity Express Programme,

NEDC: New European Driving Cycle, WLTC: Worldwide harmonized Light duty driving Test Cycle

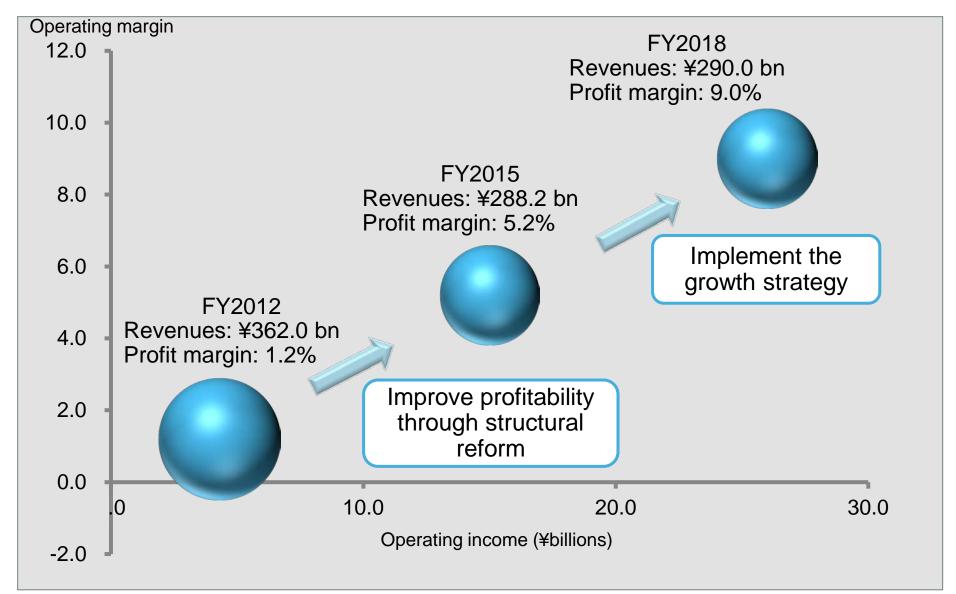


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# 3-1. Improvement in Profitability Achieved and Plan (FY2012 ⇒ FY2018)





<sup>\*</sup> FY2012: Japanese GAAP; FY2015 and FY2018: IFRS standard

\* Circle size: Size of revenues

## 3-2. Basic Policy and Growth Strategy of the Company



## Basic Policy and Growth Strategy of the Cable Materials Company

## Reform to aim for high profitability: Let's achieve true global growth!

- Implement a global growth strategy
- Strengthen the profit structure by restructuring the business portfolio
- Strengthen monozukuri through innovations in manufacturing processes

## ■ FY2018 Medium-Term Management Plan: Goals

	FY2015 Actual (¥120 = US\$1)	FY2018 Goal (¥115 = US\$1)	Change vs. FY2015
Revenues	¥288.2 bn	¥290.0 bn	101%
Adjusted operating income	¥15.0 bn	¥26.0 bn	+ ¥11.0 bn
Adjusted operating margin	5.2%	9.0%	+3.8%
Overseas sales as a % of total sales	32%	38%	+6%

## 3-3. Cable Materials Company: Action Plan



#### ■ Main Action Plan

	Rolling Stock	Expand business in the Chinese and European markets		
Growth Areas	Medical Devices	Enter new areas of medical treatment and expan business domains		
	Automotive Electronic Components	Strengthen the global production and supply structure		
Core Products		Enhance competitiveness through innovation in manufacturing processes		
		Take decisive action to achieve structural reform		

## 3-4. Rolling Stock:

Expand Business in the Chinese and European Markets (1) Materials Magle



## **Expand share in Chinese rolling stock manufacturers**

China: 12<sup>th</sup> National People's Congress

■ 13<sup>th</sup> Five-Year Plan: (2016-2020)

Total railway investment: RMB3.8 trillion

High-speed railway:

Total length, 20,000 km  $\Rightarrow$  30,000 km



#### Strengthen the solutions business

#### Increase production capacity in China



### Launch new products



Helps to achieve thin, lightweight products with a long life span

## 3-5. Rolling Stock:

Expand Business in the Chinese and European Markets (2) Materials Magle



### Strengthen the supply network for the European market



Establish new harness supply locations (1H of FY2016)

Start up location and develop a track record in UK IEP

**Develop leads into European** rolling stock manufacturers

Sales goal for the rolling stock sector:  $\pm 9 \text{ billion (FY2015)} \Rightarrow \pm 14 \text{ billion (FY2018)}$ 

#### 3-6. Medical Devices: Enter New Areas of Medical Treatment and Expand Business Domains



## Generate synergies with HTP-Meds (U.S. subsidiary)

	Customer Base	Technology Base
Hitachi Metals	<ul> <li>Major global device manufacturer</li> <li>Japanese device manufacturer</li> </ul>	<ul> <li>Cabling technology and transmission technology</li> <li>Material development capabilities</li> <li>Mass production capability</li> </ul>
HTP-Meds	<ul> <li>Global dedicated medical manufacturer</li> <li>U.S. dedicated medical manufacturer</li> <li>Possesses certifications and approvals in medical segment</li> </ul>	<ul> <li>Forming and processing technology for medical tubing</li> <li>Ability to develop products rapidly</li> </ul>

#### Mine Customers in the **Medical Segment** Hitachi **HTP-Meds** Metals

customers

#### Acquire Big 3 commercial rights Japanese medical for medical

#### **New Product Development** (Fusion of Diagnosis and Treatment)





Sales goal for the medical devices segment: 47.5 billion (FY2015)  $\Rightarrow$  411.0 billion (FY2018)

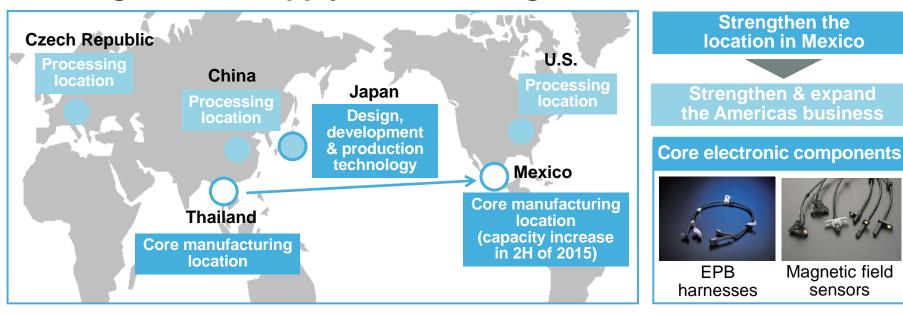
customers in

**Americas** 

## 3-7. Automotive Electronic Components: Strengthen Global Locations and Supply Structure



## ■ Strengthen the supply structure in growth markets



## ■ Expand business domains by creating new products

Various kinds of development that meet the demand for fuel efficiency & safety

- EPB harnesses with multiple unspring sensor (integrate with WSS, etc.)
- New magnetic field sensors (for turbo, engine powertrain control, etc.)

## Sales goal for automotive electronic components ¥28 billion (FY2015) ⇒ ¥34 billion (FY2018)

EPB: Electric Parking Brake WSS: Wheel Speed Sensor

#### 3-8. Investment in Business Portfolio Restructuring



#### Investment Plan

# Investment in growth

- Strengthen the railway segment, also keeping M&A in mind
- Increase the capacity of the manufacturing location in China in wires and cables for railway and medical uses
- Strengthen the location in Mexico in automotive electronic components

# Strengthening the foundation

- Introduce an innovative manufacturing line for wire and cable (scheduled to come online in the 1H of FY2016)
- Introduce a new continuous casting and rolling line (scheduled to come online in April 2018)

## Capital expenditures: ¥39 billion (cumulative total for FY2016-FY2018)

## 3-9. Introduce an Innovative Electric Wire and Cable Manufacturing Line



## Diagram of the electric wire and cable manufacturing process

Wire drawing

**Strand** 

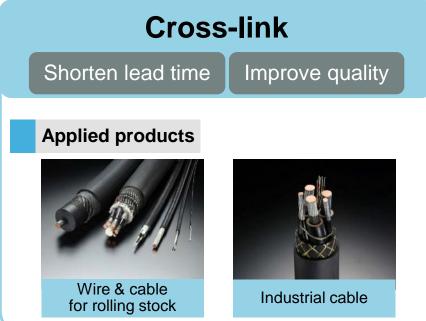
Extrusion (insulation coating)

**Cabling** 

Braiding

Extrusion (sheath coating)





### 3-10. New Continuous Casting and Rolling Line



## **New Continuous Casting and Rolling Line**

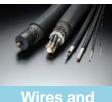
Improve energy efficiency and productivity

Introduce the new process

#### Improve product competitiveness







cables for rolling stock



Medical wires and cables



**Magnet wires** 

Achieve mass production of the new copper alloy (HiFC™)

**Flexibility** 

Resistance to hydrogen embrittlement

**Electrical conductivity** 

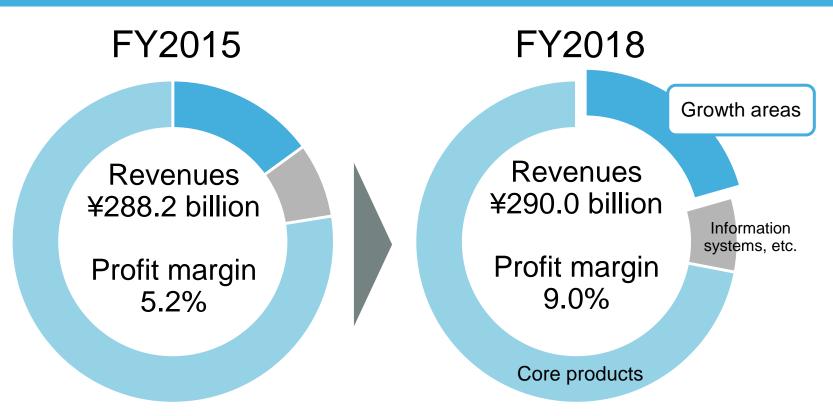
Weldability

Achieve a high-profit structure and develop high value-added products

#### 3-11. Business Portfolio Restructuring (FY2018)





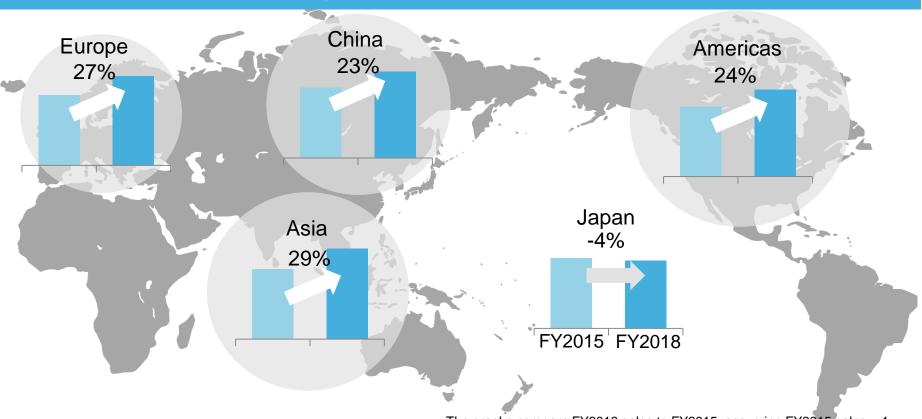


Develop one of the most profitable businesses in the world in wires, cables and related products

#### 3-12. Trend in Sales by Region



## Strive to expand in growth areas, concentrating on the Americas, China, and Asia



The graphs compare FY2018 sales to FY2015, assuming FY2015 sales = 1

Overseas sales as a % of total sales: 32% (FY2015)  $\Rightarrow 38\%$  (FY2018)



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#### 4. Conclusion



## Reform to aim for high profitability: Let's achieve true global growth!

# Cable Materials Company FY2018 Plan

Revenues: ¥290.0 bn

Adjusted operating income: ¥26.0 bn (9.0%)

#### Information on Risks Inherent in Future Projections



This document contains forward-looking statements—such as results forecasts and management plans—that are not historical facts. All such forward-looking statements are based upon all available information and upon assumptions and projections that were deemed reasonable at the time the Company prepared this document. Changes to the underlying assumptions or circumstances could cause the actual results to differ substantially. The factors causing such differences include, but are not limited to, the following:

- Changes in economic conditions and regulations in the main markets where the Company operates, particularly Japan, the United States, Asia and Europe
- Sudden changes in technological trends
- Changes in competitive advantage and the capabilities of the Company and its subsidiaries and affiliates to develop and commercialize new products and businesses
- Fluctuations in the status of product markets, exchange rates and international commodity markets
- Changes in financing environment
- The capability of the Company and its subsidiaries and affiliates to cope with fluctuations in product supply and demand, the status of product markets, exchange rates and international commodity markets
- Protection of the Company's intellectual property, and securing of licenses to use the intellectual property of other parties
- Changes in the status of alliances with other parties for product development, etc.
- Fluctuations in Japanese stock markets

