The Hitachi Metals Group has formulated its Fiscal 2018 Medium-Term Management Plan, which covers the three-year period through March 2019. Under the plan's basic policies, we will "change to be a competitive business" and "challenge ourselves to meet new targets" in order to become the world's leading high-performance materials company. By implementing the new plan, we will create value for customers while also improving the corporate value of the Hitachi Metals Group.

In this section, we provide an overview of the new Medium-Term Management Plan, which sets "becoming the world's leading high-performance materials company" as its milestone. We also profile the business strategies of each Group business company—innovations in monozukuri (craftsmanship) and R&D—targeting the expansion of organic growth, which is the key to achieving the plan's objectives.

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Medium-Term Management Plan (Message from the CEO)	2
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Business Strategies —	

Merger of Hitachi Metals Ltd. and Hitachi Cable, Ltd.

Effectively deployed resources of both Hitachi Metals and Hitachi Cable to broaden business domains and strengthen our operational foundation

Fiscal 2012 results

4 billion
8 billion
32 times
1.2%
37%
22%

Note: Simple sum of results of Hitachi Metals and

Fiscal 2013–Fiscal 2015

Fiscal 2015 Medium-Term Management Plan

Shifted to profit-generating segments and built structures for sustainable growth

- (1) Strengthened capabilities to create new products and develop new technologies
- (2) Strengthened and accelerated global growth strategies
- (3) Established a robust operational foundation

Fiscal 2015 results

R&D expenses

	(1USD=¥120)
Revenues	¥1,017.6 billion
Adjusted operating income*	¥76.1 billion
Net income attributable to owners of the parent company	¥69.1 billion
D/E ratio	0.44 times
ROE	14.4%
Overseas sales ratio	56%
Overseas production ratio	44%
Three-year cumulative	
Operating cash flow	¥323.9 billion
Investment amount (including M&A)	¥313.5 billion

¥56.8 billion

Fiscal 2018 Medium-Term Management Plan

Expand the business globally while improving profitability

Change to be a competitive business; Challenge ourselves to meet new targets Achieving our goal of becoming the world's leading high-performance materials company

Action Plan

- Continuous portfolio remodeling
- Concentrate on high-profit, high-growth segments
- Use management resources
- **Organic growth (from capital** investment and R&D)
- Strengthen and accelerate the pace of R&D
- Advance the corporate Monozukuri Innovation Project

Growth through M&A

 Generate synergistic benefits Acquire human resources and achieve rapid commercialization

Fiscal 2018 Plan	(Projected exchange rate: 1USD=¥115)
Revenues	¥1,120.0 billion
Adjusted operating income	¥120.0 billion
EBIT	¥112.0 billion
Net income attributable to owners of the parent company	¥75.0 billion
D/E ratio	0.38 times
ROA	6.4%
ROE	12.2%
Overseas sales ratio	58%
Overseas production ratio	45%

Three-year cumulative targets Operating cash flow ¥340.0 billion Investment amount (including M&A) ¥340.0 billion R&D expenses ¥70.0 billion

Hideaki Takahashi Representative Executive Officer, President and Chief

Executive Officer



Akitoshi Hiraki Takehisa Seo Executive Officer, Officer, Vice President and President of High-Grade Metals Company



Ryoji Akada President of Magnetic

Masato Hasegawa President of High-Grade

Functional Components

Kazuya Murakami

President of Cable

Materials Company

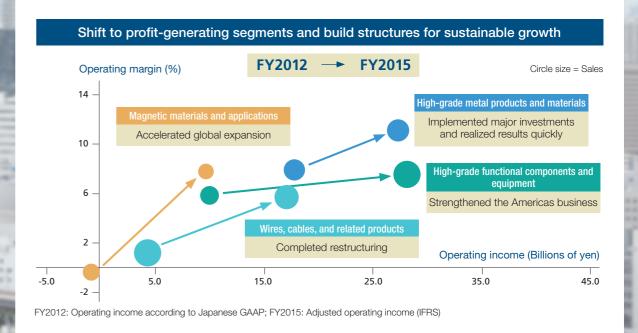
^{*} Adjusted operating income: Revenues - Cost of sales - Selling, general and administrative expenses

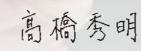
Medium-Term Management Plan (Message from the CEO)

"Change to be a competitive business" and "challenge ourselves to meet new targets" in order to become the world's leading high-performance materials company.

Review of Fiscal 2015 Medium-Term Management Plan

In this period of major transformation, the Hitachi Metals Group is aiming to become the world's leading high-performance materials company, with "change" and "challenge" as its key words. The basic policies of our Fiscal 2015 Medium-Term Management Plan were to "build structures for sustainable growth" and "strengthen and accelerate global growth strategies." Looking back at the plan, we completed multiple M&As and capital investments to successfully establish a foundation for sustainable growth. Following the merger of Hitachi Metals and Hitachi Cable in fiscal 2013, we acquired shares in MMC Superalloy Corporation (now Hitachi Metals MMC Superalloy, Ltd.) and U.S.-based Waupaca Foundry, Inc. in fiscal 2014, followed by Diehl Steel Company, Inc. (now Diehl Tool Steel Inc.) and HTP-Meds Group in fiscal 2015. We also made large-scale investments in growth businesses, discontinued low-growth businesses, and transitioned away from mature businesses. As a result of these initiatives, we achieved around two-fold growth in consolidated revenues and total assets and dramatically transformed our business portfolio over the three-year period of the plan.





Hideaki Takahashi
Representative Executive Officer,
President and Chief Executive Officer

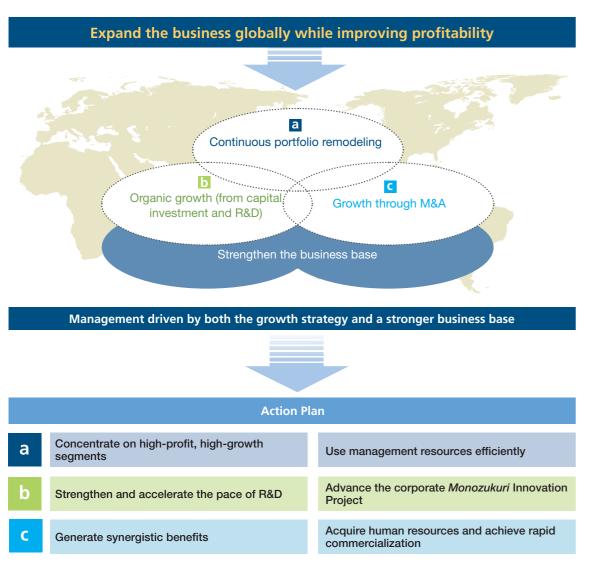
Looking at each business, however, we acknowledge that there are some inadequacies with respect to the level of problem solving.

Since fiscal 2015, we have sensed a slowdown in the world economy, especially in China. Nevertheless, the Hitachi Metals Group is responding to changes in the operating environment to solve various business issues. Meanwhile, we have started new reforms aimed at achieving renewed growth.

Fiscal 2018 Medium-Term Management Plan: Becoming the world's leading high-performance materials company

Under the basic policies of our Fiscal 2018 Medium-Term Management Plan, we will "change to be a competitive business" and "challenge ourselves to meet new targets" in order to become the world's leading high-performance materials company. To achieve growth in the global market, we aim to expand organic growth while making bold strategic investments for growth, including in M&As, and continuously remodeling our business portfolio. With a sense of speed, moreover, we will build a stronger business base by reinforcing materials and product development, strengthening and broadening our markets and customer base, and establishing global production and sales systems.

Our Vision



Action plan for Fiscal 2018 Medium-Term Management Plan

Under the new plan, we will emphasize management driven by both growth strategies and a stronger business base, with a view to expanding our business globally while improving profitability. To this end, we will carry out three specific actions: continuous portfolio remodeling, organic growth, and growth through M&As.

Continuous portfolio remodeling

The Hitachi Metals Group's target segments—automotive, industrial infrastructure, and electronics—account for around 50%, 30%, and 20% of overall revenues, respectively. In these target segments, we will renew our focus on high-profit, high-growth segments as we restructure our businesses to win in global markets.

We anticipate particularly solid growth in the aircraft, energy, agricultural and construction machinery, railway rolling stock, and medical segments. Focusing on these segments, we will expand our industrial infrastructure business to build a business portfolio that is resilient against changing market conditions.

Continuous Portfolio Remodeling -

		- 5						
	Concentrate on high-profit, high-growth segments							
Market segment (% of sales in FY2015)		motive ox. 50%)			infrastructu prox. 30%)	ure		ctronics prox. 20%)
Key segments	HEV/EV	Automotive components	Construction and agricultural machinery	Railway	Aircraft	Energy	Medical	Batteries
Specialty steel						11111		
Soft magnetic components and materials								
Magnets and applied products								
Casting components		TO THE REAL PROPERTY.						
Wires and cables				5 B//			₹	

Expansion of organic growth

Under our previous Medium-Term Management Plan, we prioritized growth through M&As, but under the new plan, we will expand organic growth by strengthening and improving our foundation and essential capabilities as a manufacturer. Our main strategies to achieve this are making innovations in *monozukuri* and reinforcing R&D.

With respect to *monozukuri*, we will promote innovations at all Group companies by deploying unprecedented perspectives and techniques to improve *monozukuri* quality and efficiency. We will also mobilize IoT* and other leading-edge technologies in a cross-organizational manner.

For R&D, we will target innovations and investments on a cross-organizational, Groupwide basis over the medium and long terms. In April 2017, we plan to establish a Corporate Research Lab to strengthen cross-organizational R&D.

In the Group's main business of high-performance materials, heightened dependence on a single material and/or technology increases the risk of sudden business slowdown when technologies are replaced. To hedge against such risk, we will seek to create new businesses by deploying synergies from our cross-organizational research and our leading-edge research. In the high-performance materials business, we will view risks as future business opportunities, and we will consider all possibilities as we forge ahead with R&D.

* IoT (Internet of things): Connecting various "things" (not just information/communications equipment) to the Internet to establish mutual communication and thus enable automatic recognition, automatic control, remote measurement, and other tasks to be performed.

Growth through M&As

With M&As, our aim is to comprehensively increase our potential as a manufacturer. Accordingly, our policy is to identify and target companies in growth segments, especially those with exceptional production capacity, human resources, and technologies.

Action plan based on cooperation between the corporate department, business companies, and global regional headquarters

We have undertaken an organizational restructuring to implement our action plan.

The Hitachi Metals Group adopts a system of business companies. By adding a cross-organizational approach while maintaining decision-making speed, we can deploy our managerial resources more efficiently. In January 2016, we introduced a corporate (head office) system to address themes shared by our business companies from the perspective of overall optimization. In these and other ways, we will work to maximize the effectiveness of management resource utilization.

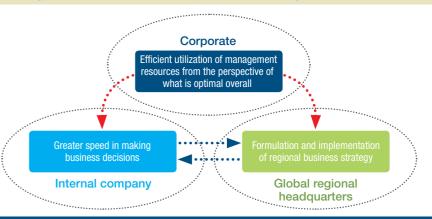
With the acquisition of Waupaca Foundry, revenue from North America rose to more than 30% of consolidated revenues, and as of March 31, 2016, our overseas sales ratio was 56%. To further strengthen our global business going forward, it is essential to effectively mobilize corporate governance in each region while having a global regional headquarters function to formulate and implement business strategies that match the market needs and business customs of each region. At present, we are expanding and upgrading the functions of our global regional headquarters while reinforcing governance, formulating and implementing regional strategies, holding regional conferences, and appointing national staff to management positions. Our global regional headquarters work closely with our corporate organization to practice regional management with an emphasis on local discretion.

Meanwhile, each business company will incorporate cross-organizational perspectives and region-specific business strategies to further entrench management strategies for each business segment with a sense of speed

By supporting this three-pronged system based on the corporate department, business companies, and our global regional headquarters, we will determinedly ensure fast-moving business operations that transcend traditional organizational structures.

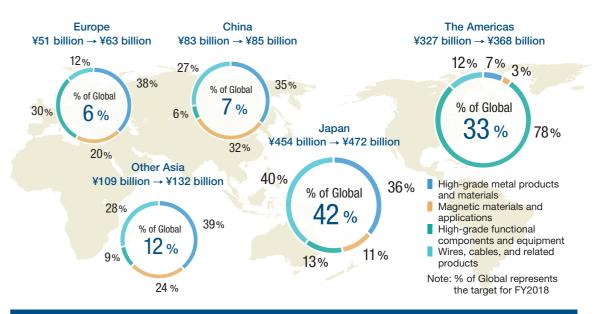
New Organizational Structure

Strengthen cross-organizational functions to achieve business management having a directional focus that surpasses vertical organizational confines



Strengthen the business base to achieve sustainable growth

Global Sales Composition by Region (FY2015 ⇒ FY2018)



Manage operations via global regional headquarters

Formulate and execute regional strategies

Localize operations with regional management committees

National staff recruitment

Capital strategies and shareholder returns

Under our new Medium-Term Management Plan, we expect to generate ¥340 billion in cash flows from operating activities over the next three years. Of this amount, we will allocate between ¥100–120 billion to M&As and around ¥210 billion to capital investments. Practically all of the cash flows from operating activities will be used for growth-oriented purposes.

Moreover, we will allocate ¥70 billion to R&D expenditures, compared with ¥57 billion under the previous Medium-Term Management Plan. Of this amount, we will allocate ¥12 billion to complement new business creation projects aimed at developing new businesses over the long term.

Despite making such proactive investments, we expect a debt-to-equity ratio of around 0.38 times in fiscal 2018, down from 0.44 times in fiscal 2015. Accordingly, we believe we have ample room to procure further funds to undertake large-scale M&As.

With respect to shareholder returns, our basic policy is to deliver appropriate returns of profits to shareholders over the long term by maximizing corporate value and increasing the amount of profits that can be paid as dividends. Moreover, we will make proactive investments based on our growth strategies to expand our business, and ensure that these results are reflected in returns to shareholders. In fiscal 2015, we paid annual dividends of ¥26.00 per share, and we currently plan to pay ¥26.00 again in fiscal 2016. With an ROE target of 12.2%, we will actively utilize cash to implement growth strategies while building a sound, optimal capital structure.

Dividends

	Interim dividends	Year-end dividends	Annual dividends
FY2013	¥ 7	¥10	¥17
FY2014	¥10	¥13	¥23
FY2015	¥13	¥13	¥26
FY2016	¥13 (Forecast)	¥13 (Forecast)	¥26 (Forecast)

Policy on Shareholder Return in the FY2018 Medium-Term Management Plan

Active investment in growth strategy



Business growth and expansion



Further investment in growth strategy

Achieve shareholder return that reflects high growth

Strengthening CSR activities

Over the past several years, we have been rapidly increasing the scope of the Group's operations, but we also recognize the importance of fulfilling our corporate social responsibility (CSR), which accompanies such growth. Based on our fundamental policy, which is to act according to the law and good corporate ethics, we have continued to instill compliance-oriented initiatives. In the future, as well, we will strengthen risk management in Japan and overseas, visualize risks to prevent illicit trading, clarify rules, strengthen auditing systems, and step up third-party checks and other support functions. In these and other ways, we will expand and upgrade our systems and frameworks as we target higher levels of corporate transparency.

CSR extends to all corporate activities and all employees involved in such activities. In all aspects of our operations—including quality assurance, safety assurance, environmental protection, information management, and respect for human rights—we are responsible for the impact of our activities on society. With this in mind, we will address the requests of various stakeholders and reaffirm our commitment to becoming society's "trustworthy partner."

Diversity in human resources is a very important catalyst for instituting organization reforms. Through its policy of diversity management, the Hitachi Metals Group will work to create an innovative corporate culture.

Toward a new Hitachi Metals Group

Seeking to become the world's leading high-performance materials company, we will unite and act swiftly to build a "new Hitachi Metals Group" by embracing changes and challenges. We will strive to create value that meets the expectations of stakeholders.

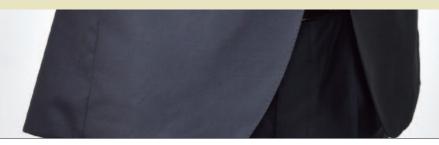
United as one, we will act swiftly to build a "new Hitachi Metals Group" by embracing changes and challenges.

Innovations in *Monozukuri* and R&D (Message from the CTO)



Representative Executive Officer,
Vice President and Executive Officer

Promoting innovations in *monozukuri* and R&D aimed at expanding organic growth



Targeting expansion of organic growth

Innovations in monozukuri and R&D

The main theme of our Fiscal 2018 Medium-Term Management Plan is to expand the business globally while improving profitability. On the business expansion side, we are targeting revenues of ¥1,120 billion in fiscal 2018, and on the profitability improvement side, we are targeting an adjusted operating margin of 10.7%. These are very aggressive goals, and the key to reaching them is to expand organic growth. To achieve such expansion, we must solidify our base as a manufacturer and strengthen our ability to deliver sustainable growth.

Recognizing the challenges involved here, we will pursue dramatic innovations in *monozukuri* and R&D under the Medium-Term Management Plan. I regard innovations in *monozukuri* and R&D as an issue that should be addressed in a cross-organizational manner from a medium- to long-term perspective. As CTO, I will lead the project, and I hope to deliver swift results.

To become the world's leading high-performance materials company, we will steadily implement innovations in *monozukuri* and R&D.

Innovations spearheaded by our corporate department

During the period of the previous Medium-Term Management Plan, we expanded the scope of our operations through M&As, but some existing businesses started to languish. We believe one cause was a recent slight weakening of our *monozukuri* and technological development capabilities, which represent a key strength of the Group. For some time, we have managed our operations under the company system, and the company function (a vertically aligned function) became too strong. As such, problems related to *monozukuri* and R&D occurred.

On the *monozukuri* side, for example, human resources are stationary, which limits their horizons and causes technological innovation to languish. The impact of this extends to the pass rate of product quality inspections and production volume, both of which are important for us as a manufacturer. In particular, creating our products involves the use of high-quality materials and wide-ranging processes, so improving product quality and production volume has major positive repercussions.

Also, on the R&D side, we noticed shortcomings with respect to selecting research themes and building related systems from a medium- to long-term perspective. To dramatically solve such problems, we shifted from a traditional system spearheaded by our business companies to one in which the Technology, Research and Development Division, a corporate system, spearheads innovations in a cross-organizational manner.

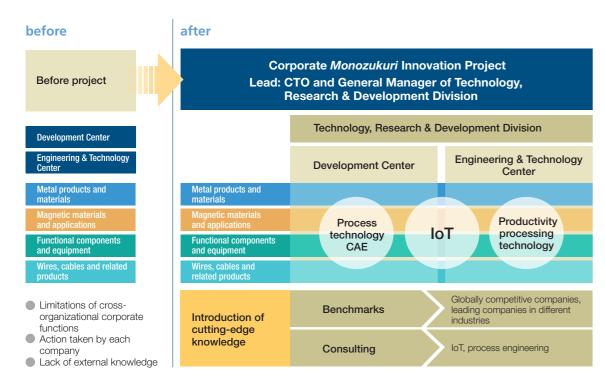
Efforts aimed at ensuring world-class *monozukuri* skills and R&D capabilities also help energize employees. Moreover, cash generated from improvements in *monozukuri* efficiency and productivity can be invested in R&D and growth segments, the results of which can be used to further reinforce *monozukuri*. Creating this virtuous cycle to expand organic growth is a major objective of these initiatives.

Corporate Monozukuri Innovation Project

Introducing innovative technologies; sharing issues and results

In October 2015, we began preparing for our Corporate *Monozukuri* Innovation Project, which began in earnest in April 2016. Spearheaded by the Technology, Research and Development Division, we are engaging in GEMBA (workplace) and manufacturing technology innovations based on cross-organizational and medium-to long-term perspectives. In addition to identifying latent technologies possessed by each of our internal companies that can be applied at other companies, we will build *monozukuri* skills that are among the best in the world by actively introducing innovative technologies in five segments: process technology, CAE*1, IoT*2, productivity, and processing technology.

- *1 CAE (computer-aided engineering): Using computer-based simulations to verify whether or not a designed structure would meet performance requirements, even before it is built.
- *2 IoT (Internet of Things): Connecting various "things" (not just IT devices) to the Internet to establish mutual communication and thus enable automatic recognition, automatic control, remote measurement, and other tasks to be performed.

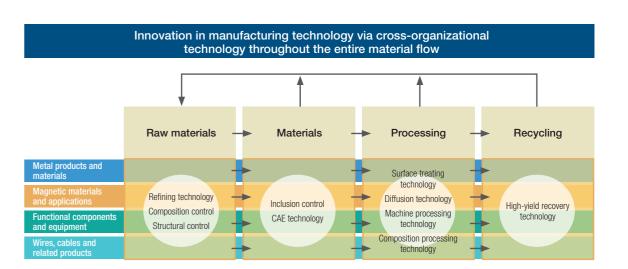


Specifically, we will promote the sharing of technologies, issues, and results between companies at the various material flow stages common to all of our business companies: raw materials, materials, processing, and recycling.

For example, casting components have become more and more complex in shape in recent years, so creating new models requires significant cost and time. By actively introducing CAE tools, however, we can make drastic improvements. Through analyses and simulations of casting requirements, we can shorten prototype production times and swiftly get new products up and running. We will share the results of these endeavors between business companies and convey them to our factories.

Moreover, with increasing numbers of high-performance products and specialty products, in-house machine processing of components becomes an important priority. We already make products requiring highly precise technologies in-house, including aircraft components and HERCUNITE™ components. Now, we will reassess machine processing for other products and rebuild our production systems and processes to further promote in-house manufacturing.

Aiming to expand organic growth, we will make fundamental *monozukuri* innovations and strengthen R&D with a sense of speed.



Stepping up recycling is also a pressing issue. For the Hitachi Metals Group, which handles large amounts of expensive raw materials, including rare metals and rare earth materials, recycling is an important way to reduce costs. We also have numerous engineers who are well versed in such processes as smelting and refining, so we are able to establish in-house technologies to recover high-quality materials efficiently. In October 2015, we launched a research project to promote in-house recycling at all four business companies. Through this project, we will reduce material costs while simultaneously addressing the risk of fluctuating supply volumes.

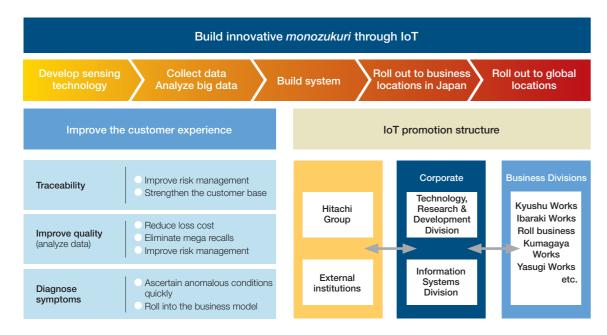
In addition to introducing innovative technologies, we will share the issues and results of technologies common to the four business companies, as we plan to dramatically solve issues related to *monozukuri*.

2.6

Seeking to establish innovative monozukuri with IoT technologies

In its manufacturing processes, the Hitachi Metals Group has traditionally tended to rely on the experience of its technicians to accumulate know-how. Accordingly, we were falling behind in some areas, such as data collection and automation. To solve these issues, in fiscal 2016, the Technology, Research and Development Division and the Information Systems Division launched an effort to promote interaction between the Group's business divisions and introduce knowledge and human resources from external entities, including the Hitachi Group. We also established an IoT promotion structure to promote the use of IoT in monozukuri.

IoT technologies are particularly valuable in the aircraft and energy segments, where risk management through traceability and investigation of malfunctions are required. We will introduce IoT technologies at all stages, including predictive diagnosis of product defects and management of component replacement periods. By visualizing a variety of scenarios in this manner, we will achieve innovative monozukuri.



Innovations in R&D

Aiming to become a true development-driven corporation

In addition to innovations in monozukuri, we are pursuing major innovations in our R&D. For high value-added products handled by the Group, there is always a threat that innovations in materials and technologies may lead to those products suddenly becoming superseded by next-generation offerings. To achieve sustainable growth, corporations that handle high-grade, highly functional materials must constantly envisage the future, accumulate technologies, and become development-driven corporations that spark their own innovations. For this reason, we launched new business creation tasks to envisage the next ten to twenty years and expedite R&D from a cross-organizational business perspective.

Through our new business creation tasks, we are currently looking for opportunities arising from various "threats" in each business segment.

In the near future, for example, we need to monitor the emergence of additive manufacturing (3D printing) in the domain of molded materials. In the future, composite materials will also be deployed in ultra heat-resistant steel used in the aircraft and energy segments. We predict that rare earth magnets will be replaced by new magnets and, due to the need for weight reduction, iron castings will be replaced by composite materials and multiple materials. Even wires, cables and related products will undergo technological innovations, such as aluminum conductors and compound conductors.

With these medium-to long-term threats and opportunities on the horizon, our new business creation tasks have identified 15 product-development themes to be handled on a cross-organizational basis from now until 2025. Depending on the theme, we will bring together human resources, including from the Hitachi Group, to interact with the R&D divisions of each business company and with external institutions to establish an R&D system befitting a true development-driven corporation.

In April 2017, we will establish our Corporate Research Lab to further bolster R&D innovations.

Under the Fiscal 2018 Medium-Term Management Plan, we will raise R&D expenses to ¥70 billion, from ¥57 billion under the previous plan. Of the ¥13 billion increase, we will allocate ¥12 billion to new business creation

Achieve reform from the medium- to long-term and cross-organizational business perspectives



¥57 billion (FY2015 Medium-Term Plan, cumulative) \rightarrow **¥70 billion** (FY2018 Medium-Term Plan, cumulative

New, strong, world-leading monozukuri

Mission: Innovations in materials technologies and manufacturing process technologies

The Hitachi Metals Group has extensive know-how in developing original technologies and high value-added products, and by forging innovations in manufacturing technologies, it is laying the groundwork for the future. We are in a good position to drive innovations in materials technologies and manufacturing process technologies.

To become the world's leading high-performance materials company, our monozukuri itself must be at a world-leading standard. By pursuing innovations in monozukuri and R&D, we will reinforce the Hitachi Metals Group's operational foundation from its core.

Business Strategies High-Grade Metals Company



Execute action plan with the key term "speed up"

Takehisa Seo

Executive Officer

President of High-Grade Metals Company

The three-year period covered by our new Medium-Term Management Plan, ending in fiscal 2018, will reveal the true value of efforts to date with respect to major investments, M&As, and the like. In fiscal 2016, we will significantly increase the pace at which we execute our action plan, with "speed up" as the key term. First of all, we will more swiftly reap the rewards of our efforts—in such areas as major investments and the reinforcement of overseas sales locations. Regarding sales, we will shift to an aggressive approach to capture new global demand and maximize total marginal income. As for strengthening *monozukuri*, we will increase productivity and product competitiveness.

By embracing the challenges of the Fiscal 2018 Medium-Term Management Plan, as well as the Group's 2025 vision beyond that, the High-Grade Metals Company will aim to use its strength in *monozukuri*, a source of pride in Japan, to make innovations on the world stage.

FY2015 Results			
Revenues	¥256.7 billion	Adjusted operating margin	10.5%
Adjusted operating income	¥27 0 hillion	Overseas sales ratio	44%

Achievements of the Fiscal 2015 Medium-Term Management Plan

Started remodeling our business portfolio to reduce our dependence on electronic materials and components

Expanded the aircraft and energy segment business domains

- Acquired MMC Superalloy Corporation shares (boosting holdings from zero to 51%) and consolidated the company. (Consolidated in July 2014)
- Hitachi Metals MMC Superalloy, Ltd. made a major investment in an 840-ton large ring mill. (Began operation in November 2015)

Made large-scale investments in upstream operations (all of specialty steel)

- Invested in a 24-ton vacuum induction melting (VIM) and casting furnace, the largest in the world. (Began operation in March 2015)
- Invested in a 10,000-ton class free forging press, high speed radial forging machine. (Scheduled for completion and launch of operation in FY2017)

Established a structure for expanding global sales (tool steel)

- Reconfigured the brand due to expand global sales. (October 2015)
- Began mass production of SLD-i™, a new type of cold-rolled die steel produced with a new melting equipment. (April 2016)
- Expanded distribution network in North America with the acquisition of Diehl Tool Steel. (November 2015)

Reinforced the business base for cemented carbide tools

Transferred shares held in Hitachi Tool Engineering, Ltd. (100% → 49%). (April 2015)

Note: In fiscal 2016, we shifted the Soft Magnetic Components and Materials business, previously part of the Magnetic Materials and Applications segment, to the High-Grade Metal Products and Materials segment. Also, R&D expenses will be shifted from head office to the High-Grade Metals Company. Therefore, figures on this page for fiscal 2015 have been retrospectively revised to reflect this change.

FY2018 Medium-Term Management Plan

Achieve growth globally by focusing on high-grade products

Basic policy

- Reap the benefits of major investment and strengthening overseas sales locations
- Grow through M&A (achieve consolidated synergies)

FY2018 Medium-Term Management Plan: Goals

	FY2018 Goals (Projected exchange rate: 1USD=¥115)	Change vs. FY2015
Revenues	¥310.0 billion	+21%
Adjusted operating income	¥ 41.0 billion	+ ¥ 14.0 billion
Adjusted operating margin	13.2%	+ 2.7 ppt
Overseas sales ratio	47%	+3 ppt

Tool Steel: Work to Expand Global Sales

In the tool steel business, we will promote global sales expansion. The key point here is to bolster sales of SLD-iTM, a new type of cold-rolled die steel that we started mass producing in April 2016. SLD-iTM is a revolutionary material used in cold-rolled molds. It has the same composition as standard steel but, thanks to our original manufacturing method, it is more resistant to dimensional changes from heat treatment and the passing of time, and also features improved abrasion resistance.

In region-specific strategies, we will establish a distribution location in the Americas through an M&A while strengthening and expanding our processing and surface treatment locations in Asia. By reinforcing and upgrading our overseas production and sales locations, we will raise the added value of Yasugi Specialty Steel and strengthen its appeal as an international brand.

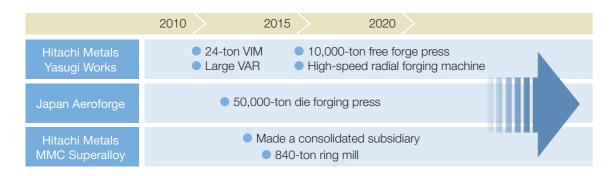
We will also promote a solutions business. In recent years, the High-Grade Metals Company has deployed its surface modification technologies and CAE analysis technologies to engage in joint development with domestic manufacturers and European auto manufacturers. Going forward, we will expedite this process to attract new orders.



Aircraft and Energy: Expand Businesses Through Synergies Among the Three Companies

In the aircraft and energy businesses, we have embraced the challenge of becoming one of the top four aircraft materials manufacturers in the world. At our Yasugi Works, in addition to a 24-ton vacuum induction melting and casting (VIM) furnace already in commission, we have made major investments, including in a 10,000-ton free forging press and a high-speed radial forging machine. At Hitachi Metals MMC Superalloy, Ltd., we have started operating a large 840-ton ring mill for manufacturing ring-shaped components. In addition to these successful investments, we have formed an alliance with Japan Aeroforge, Ltd, which has a 50,000-ton forging press—the world's largest. Under the alliance, we are setting up a supply system that can handle large components. In fiscal 2015, we acquired certification from customers for our engine shaft materials and made good progress in acquiring certifications that are essential in the aircraft and energy businesses, and we will expedite this effort in the future. Going forward, we will create synergies among the three companies while making continuous capital investments and introducing CAE and other analysis technologies to accelerate the development of R&D and manufacturing technology.

Our revenue targets for the aircraft and energy businesses are ¥37 billion in fiscal 2018 and over ¥60 billion in fiscal 2025, almost double the fiscal 2018 target.



Investment Plans

We will make priority investments in pre-processing, a key source of our competitiveness. Following the installation of our new casting equipment in 2016, we started mass production of SLD-i™, a new type of cold-rolled die steel, in April of the same year. With respect to the newly established 10,000-ton free forging press and increasing the size of the high-speed radial forging machine, we will invest with the aim of starting operations in 2017. To strengthen our overseas sales network, moreover, we will pursue M&As while expanding and reinforcing our processing locations in the Americas and Asia.

Fiscal 2015 Plan (3-year cumulative) ¥53.7 billion Fiscal 2018 Plan (3-year cumulative) ¥68.0 billion

Global Strategy

To promote its global strategy, the High-Grade Metals Company has rebuilt the Yasugi Specialty Steel brand of its specialty steel business and incorporated its desired mission and willpower into a Brand Statement. We will enhance the value of the brand by providing solutions to customers, and communicating the values and innovativeness of the brand as well as the value and potential that it offers to customers worldwide so that they will choose us as their "first partner."

Brand Statement

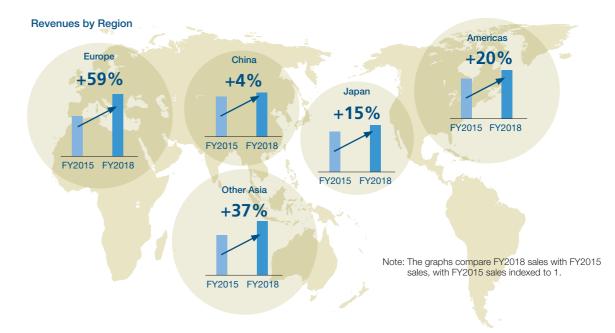
YASUGI SPECIALTY STEEL

OUR HERITAGE, YOUR ADVANTAGE

By OUR HERITAGE, we mean the unique manufacturing wisdom and technology that Yasugi Specialty Steel has inherited over many generations, and that is the basis on which we will develop into the future.

By YOUR ADVANTAGE, we mean our determination to use our technologies, products, and solutions to bring value, innovation, and growth to our customers all over the

Under the Fiscal 2018 Medium-Term Management Plan, we will work to increase sales of Yasugi Specialty Steel in Asia while reinforcing our systems for bolstering sales in Europe and the Americas to deliver renewed global growth. We plan to increase the overseas sales ratio from 44% in fiscal 2015 to 47% in fiscal 2018.



Magnetic Materials Company



Ryoji Akada

Executive Officer,

President of Magnetic Materials Company

We supply high-performance rare earth magnets and ferrite magnets used in the motors of equipment that require compactness and energy efficiency—such as industrial robots and electrical appliances—mainly to the automotive segment.

We expect that hybrid electric vehicles (HEVs) and electric vehicles (EVs) will become increasingly popular due to heightened environmental awareness engendered by regulations on CO₂ emissions and fuel efficiency in various countries and regions, with demand for high-performance magnets to increase sharply as a result.

To effectively address such demand, we will strengthen global production locations and build innovative production lines under the Fiscal 2018 Medium-Term Management Plan.

FY2015 Results			
Revenues	¥105.3 billion	Adjusted operating margin	6.6%
Adjusted operating income	¥6.9 billion	Overseas sales ratio	59%

Achievements of the Fiscal 2015 Medium-Term Management Plan

Established structure to globally expand sales of rare earth magnets

Established a production location in China	 Concluded a joint venture agreement with Beijing Zhong Ke San Huan Hi-Tech Co., Ltd. (June 2015)
Increased production capacity at locations in Japan	 Increased production capacity for rare earth magnets used in HEV (by over 10%). (2H of FY2014)
Reinforced the business base for ferrite magnets	 Developed ferrite magnets with the most distinctive qualities in the world (NMF™-15 series). (July 2014) Expanded production capacity at the plant in South Korea (by over 20%). (2H of FY2014)

Note: In fiscal 2016, we shifted the Soft Magnetic Components and Materials business, previously part of the Magnetic Materials and Applications segment, to the High-Grade Metal Products and Materials segment. Also, R&D expenses will be shifted from head office to the High-Grade Metals Company. Therefore, figures on this page for fiscal 2015 have been retrospectively revised to reflect this change.

Innovate monozukuri to pave the way for growth

Basic policy

Strengthen global production sites
Build innovative production lines

FY2018 Medium-Term Management Plan: Goals			
FY2018 Goals (Projected exchange rate: 1USD=¥115) Change vs. FY2015			
Revenues	¥132.0 billion	+25%	
Adjusted operating income	¥17.0 billion	+ ¥ 10.1 billion	
Adjusted operating margin	12.9%	+6.3 ppt	
Overseas sales ratio	67%	+ 8 ppt	

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Strengthen Global Production Sites

In our rare earth magnet business, we established a joint venture with Zhong Ke San Huan, China's largest magnet manufacturer, in Jiangsu Province to build an integrated structure handling raw material procurement, production and sales. In entering China, our aim is to ensure stable procurement of rare earth-related materials and broaden our business scale in the global market. In fiscal 2018, we are targeting revenue of ¥10 billion for the joint venture.



Build Innovative Production Lines

In the automotive market, we expect demand for high-performance rare earth magnets to increase further amid tightening environmental regulations and calls for improved fuel efficiency. To ensure a reliable supply of high-quality magnet products under these conditions, we will automate our manufacturing and quality inspection lines and build innovative production lines incorporating IoT.

In the rare earth magnet business, we will work to optimize the overall material flow by introducing innovative production lines—including highly competitive heavy rare earth diffusion technology—as well as recycling processes using proprietary technologies.

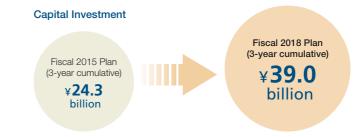
- High-performance automated line
 Real data management using IoT (Proper inventory management, automatic control of manufacturing conditions)
- Improve production efficiencyShorter lead times
- Competitive heavy rare earth diffusion technology
- Recycling process utilizing proprietary technology
- Improved material flow

Stable production

In the ferrite magnet business, we will introduce innovative production lines to enhance production efficiency in Japan. At the same time, we will roll out these technologies at our overseas production locations and address customers' needs with respect to high product quality, shape specifications, and the like.

Investment Plans

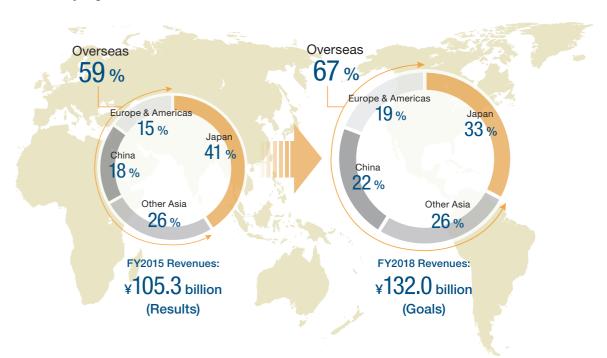
Under the Fiscal 2018 Medium-Term Management Plan, we plan to invest a total of ¥39 billion over the next three years to get the joint venture on stream, build innovative production lines, and advance our business globally.



Global Strategy

Regarding our regional strategies, although domestic demand will remain mostly unchanged, we look forward to growing demand in China, Europe, and the Americas. We will increase the overseas sales ratio to 67% by fiscal 2018 and realize growth.

Revenues by Region



High-Grade Functional Components Company



Deploy our strengths to create new levels of value and deliver sustainable global growth

Masato Hasegawa

Executive Officer,

President of High-Grade Functional Components Company

The High-Grade Functional Components Company uses its various strengths-including abundant materials technologies and overwhelming production volume - to create new levels of value and deliver sustainable global growth.

In fiscal 2014, U.S.-based Waupaca Foundry, Inc. became a member of the Hitachi Metals Group, which consequently became one of the world's largest manufacturers of casting components in terms of production capacity. However, our strengths are not limited to the scale of our business. We also provide value for customers in other ways, including materials capabilities to address the need for high heat resistance and mechanical strength, our design capabilities and production technologies for advances in thinness and weight reduction, and our relentless pursuit of improved production efficiency.

Under the Fiscal 2018 Medium-Term Management Plan, our basic policy is to strengthen our monozukuri foundation for achieving global growth. Guided by this policy, we will use technological innovation to strengthen product competitiveness while addressing growing demand and tapping new markets to create new levels of value.

FY2015 Results ¥365.1 billion Adjusted operating margin 7.2% Revenues ¥26.1 billion Overseas sales ratio 80% Adjusted operating income

Achievements of the Fiscal 2015 Medium-Term Management Plan

Strengthened global competitiveness and restructured portfolio of the automotive casting components business

Improved competitiveness of the automotive casting component business on a global basis

- Acquired Waupaca Foundry, Inc. shares (boosting holdings from zero to100%) and consolidated the company (November 2014)
- Merged Waupaca Foundry, Inc. and Hitachi Metals Automotive Components. (April 2016) Increased production capacity of heat-resistant cast steel for turbo (by over 60%). (Scheduled to begin operation in the 2H of FY2016)

Restructured business portfolio Sold all of our shares in Hitachi Metals Techno, Ltd. (March 2015)

Note: In fiscal 2016, R&D expenses will be shifted from head office to the High-Grade Functional Components Company. Figures on this page for fiscal 2015 have been adjusted to reflect the aforementioned change

FY2018 Medium-Term Management Plan

We aim for global growth by strengthening the foundation of monozukuri and creating new value.

Basic policy

- Cast iron business: Tap new markets and strengthen product competitiveness through technological innovation
- HERCUNITE™ business: Strengthen business targeting growing turbo engine market
- Piping components business: Expedite globalization and promote cost restructuring

FY2018 Medium-Term Management Plan: Goals

	FY2018 Goals (Projected exchange rate: 1USD=¥115)	Change vs. FY2015
Revenues	¥375.0 billion	+3%
Adjusted operating income	¥37.5 billion	+ ¥ 11.4 billion
Adjusted operating margin	10.0%	+ 2.8 ppt
Overseas sales ratio	84%	+ 4 ppt

Cast Iron Business

With the inclusion of Waupaca Foundry, Inc. in the Group, our business domains expanded from high-grade ductile cast iron to gray iron. We are already reaping the benefits of synergies across both companies. For example, we have started cross-selling via the sales networks of the two brands, and we have built a joint purchasing system. Going forward, we will target further synergistic benefits.

Under the Fiscal 2018 Medium-Term Management Plan, in the Americas, we will address the needs of auto manufacturers entering Latin America while expanding sales to makers of commercial trucks, construction equipment, and agricultural machinery. In Asia, we will exploit growing demand in the Indian and Southeast Asian markets. We will also develop innovative *monozukuri* and other technologies to strengthen product competitiveness.

As a leading company in the cast iron business, we will create new levels of value and thus contribute to social advancement.

	Response to the movement of the auto manufacturers into the Central and South American markets Step up sales activities directed at auto manufacturers moving into the Central & South American markets Explore new supply structures for Central & South America
Americas	Expand sales for commercial trucks, construction equipment, and agricultural machinery Expand production capacity for large components (for commercial trucks, construction equipment, and agricultural machinery) by introducing a horizontal casting line (30% increase in FY2018 revenues compared to FY2015)
	Add even higher value to products Improve quality and manufacturing efficiency by dedicating a plant exclusively to ductile cast iron and gray iron
Agia	Expand sales in growth markets (India and Southeast Asia) • Utilize locations in Japan, South Korea, and India
Asia	Develop leads into new markets • Mine the agricultural and industrial machinery markets
Europe	Develop leads into the European market • Engage in sales activities that utilize Japanese and U.S. planning and presentation skills and European locations • Explore new supply structures for Europe

HERCUNITE™ Business

In the heat-resistant cast steel business, we will respond to the predicted growth of the turbo engine market by strengthening and expanding our HERCUNITE™ business. Specifically, we will increase the number of production lines of our core Kyushu Works by more than 60%. The expanded production lines will come on stream in the latter half of fiscal 2016 and be fully operational in fiscal 2017.

In recent years, turbo engines have become more complex in form, as reflected in the emergence of twin scroll systems, for example. Responding swiftly to such changes, we have developed our own technologies that other companies cannot imitate. In addition to these strengths, we have reduced raw material costs and introduced IoT technologies to deliver higher levels of product quality and performance. We will further reinforce our position as a top supplier, targeting a 30% share of the world market by fiscal 2025.

Kyushu Works: Increase production capacity by more than 60%

Increase production capacity

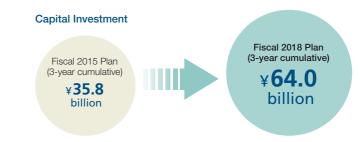
Increase capacity of the casting line and processing line

Optimize production technology (Achieve differentiation through technology that is difficult to duplicate)

Streamline casting by automating pouring of casting steel
 Achieve a high degree of efficiency in cutting hard-to-cut materials

Investment Plans

In the cast iron business, we will strengthen and expand production lines for large casting components, establish dedicated factories for ductile cast iron and gray iron, and introduce high-efficiency casting equipment. In the heat-resistant cast steel business, we will significantly increase the production capacity of our Kyushu Works. We will also make investments to streamline and enhance the productivity of our aluminum wheel and piping components businesses. We plan to invest ¥64.0 billion in these areas over the next three years.

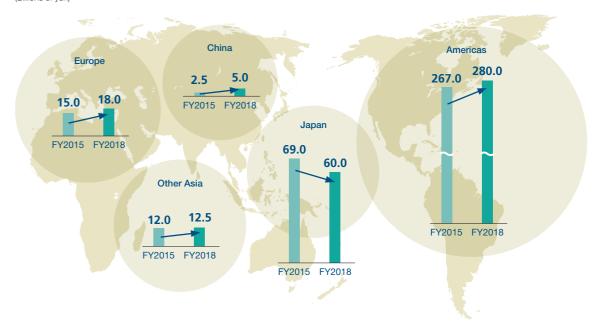


Global Strategy

Expecting the Japanese automobile market to contract, we will focus on growth at the global level. Leveraging growth in the Americas, where the scale of our business is overwhelming, we will target business expansion in Europe, China, and Asia.

Revenues by Region

(Billions of ven)



Cable Materials Company



Expand businesses in growth segments and strengthen the competitiveness of existing businesses

Kazuya Murakami

Executive Officer,

President of Cable Materials Company

The Cable Materials Company is pursuing growth strategies according to its basic policy, "Reform to aim for high profitability: Let's achieve true global growth!" In fiscal 2015, our overseas sales ratio was 32%, but we feel there is significant room for further overseas growth, and our target for fiscal 2018 is 38%. We have also set high profit growth targets for fiscal 2018, with an adjusted operating income target of ¥26.0 billion and an adjusted operating margin of 9%, which we will raise to 10% over time to strengthen our profit structure.

To achieve these targets, we will remodel our business portfolio. Specifically, we will focus on segments earmarked for future growth: rolling stock, medical devices, and automotive electronic components. In existing businesses, we will strengthen *monozukuri* through innovations in manufacturing processes as we continue our quest to reinforce the competitiveness of the entire Cable Materials Company.

FY2015 Results					
Revenues	¥288.2 billion	Adjusted operating margin	5.2%		
Adjusted operating income	¥15.0 billion	Overseas sales ratio	32%		

Achievements of the Fiscal 2015 Medium-Term Management Plan

Restructured portfolio of the cable business

Achieved structural reform	 Sold shares in J-Power Systems Corporation (high-voltage cables), cutting holdings from 50% to zero. (April 2014) Reduced equity stake in Sumiden Hitachi Cable Ltd. (low-voltage cables) from 50% to 34%. (November 2014) Sold the compound semiconductor business. (April 2015) Decreased stake in Shanghai Hitachi Metals Cable Materials Co., Ltd. (wire coils) from 100% to 10%. (November 2015)
Reinforced the business base	 Decided to invest in continuous casting and rolling line equipment. (Scheduled to begin operation in April 2018)
Expanded business in growth segments	 Medical: Acquired the HTP-Meds Group, a manufacturer of medical tubing in North America. (February 2016) Electronic components: Configured global production structure for EPB harnesses and sensors. (October 2015)

Note: In fiscal 2016, R&D expenses will be shifted from head office to the High-Grade Functional Components Company. Figures on this page for fiscal 2015 have been adjusted to reflect the aforementioned change.

FY2018 Medium-Term Management Plan

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

Basic policy

- 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

	FY2018 Goals (Projected exchange rate: 1US=¥115)	Change vs. FY2015
Revenues	¥290.0 billion	+1%
Adjusted operating income	¥26.0 billion	+ ¥ 11.0 billion
Adjusted operating margin	9.0%	+ 3.8 ppt
Overseas sales ratio	38%	+ 6 ppt

Rolling Stock: Expand Business in the Chinese and European Markets

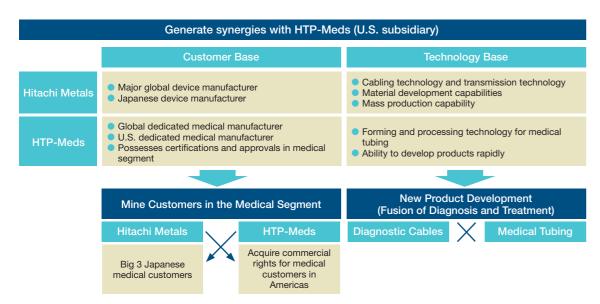
The Hitachi Metals Group has a long track record in rolling stock for Japan's *Shinkansen* (bullet train) lines, and we are leveraging this strength to enter China. The Chinese government has huge investment plans for high-speed railway lines. Over the five-year period from 2016 through 2020, it plans to invest a total of RMB 3.8 trillion, with high-speed railway lines to be extended from 20,000 (current length) to 30,000 kilometers. In response, the Cable Materials Company will strengthen its solutions business in China and increase the production capacity of its cable manufacturing location in Suzhou. We will also strengthen competitiveness by introducing new products that address the needs of customers demanding cables which use thin, lightweight products with long life spans, and aim to expand our market share in China.

In Europe, we newly established a rolling stock harness assembly location in the Czech Republic, and we are now positioned to swiftly address the needs of our European customers. From this location, we will start supplying products to the Hitachi Group's rolling stock factory in the United Kingdom, and also target European manufacturers of rolling stock.



Medical Devices: Enter Medical Treatment Segment and Expand Business Domains

To expedite growth in the medical devices segment, earmarked for major future expansion, we acquired the U.S.-based HTP-Meds Group, a manufacturer of catheters and other medical tubing, in February 2016. U.S. companies account for more than half of the world market for catheters, and establishing a foothold in the region is an important step toward tackling the global market. On both the sales and product fronts, we will target growth by fostering synergies with the HTP-Meds Group, which has a superior advantage thanks to its own forming and processing technologies and is also known for its ability to develop products rapidly. By adding our cable technologies and strength in materials, we will pursue various initiatives, including developing new medical devices based on a fusion of diagnosis and treatment.



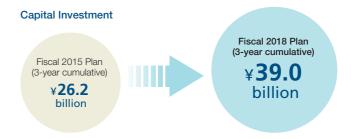
Strengthen Development of Automotive Electronic Components and Global Locations

In the automotive electronic components segment, we will strengthen our supply structure in growth markets and expand business domains by creating new products. Previously, our core manufacturing location for this segment was in Thailand, but in response to growing demand in the Americas, we began increasing the number of production lines at our location in Mexico in the latter half of fiscal 2015. We will use this as a springboard for business expansion in the Americas.

We are also developing new products, including harnesses for electric parking brakes with wheel speed sensors. In addition, we will continue developing technologies to meet demand for fuel efficiency and safety, and we will integrate these technologies to create future innovations.

Investment Plans

We will make planned investments to strengthen our profit structure by restructuring our business portfolio. With world growth segments in mind, we will invest in growth markets while considering M&As. In foundation businesses, as well, we will introduce innovative production lines and otherwise invest in process innovations. We plan to invest ¥39.0 billion in these areas over the next three years.



Global Strategy

Monitoring the world market, we will take up the challenge of capturing large global accounts from major companies. To drive future growth, we will focus on automobiles and medical devices in the Americas, rolling stock and medical devices in China, rolling stock in Europe, and the automotive electronics segment in Asia.

