三菱マテリアル MITSUBISHI MATERIALS

IR Meeting Handout September, 2019



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(Announced on May 16, 2017) p47-58

* As of October 1, 2018, "Advanced Materials & Tools Company" changed its name to "Metalworking Solutions Business Company."

Corporate Profile / Business Situation

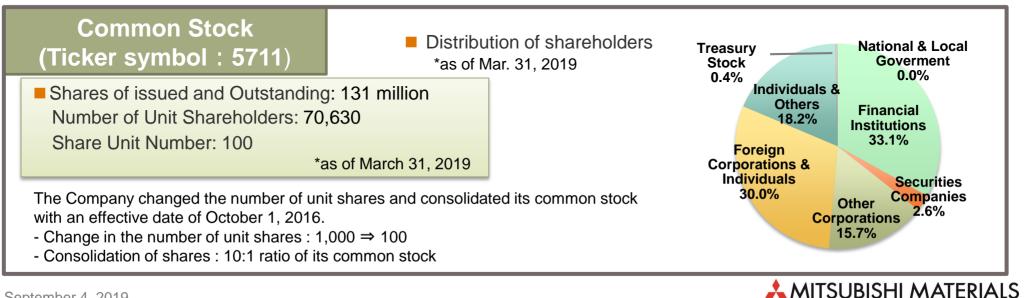


Corporate Profile

Company Name	: Mitsubishi Materials Corporation		
Head Office	: 2-3, Marunouchi 3-chome, Chiyoda-ku,		
	Tokyo 100-8117 Japan		
Chief Executive Officer	: Naoki Ono		
Capital Stock	: ¥119,457 million (as of Mar. 31, 2019)		
Year of Establishment	: 1950		
Number of Employees	: Consolidated 28,426 (as of Mar. 31, 2019)		
	Non-consolidated 4,807 (as of Mar. 31, 2019)		
Consolidated Subsidiaries	: 152 (as of Mar. 31, 2019)		

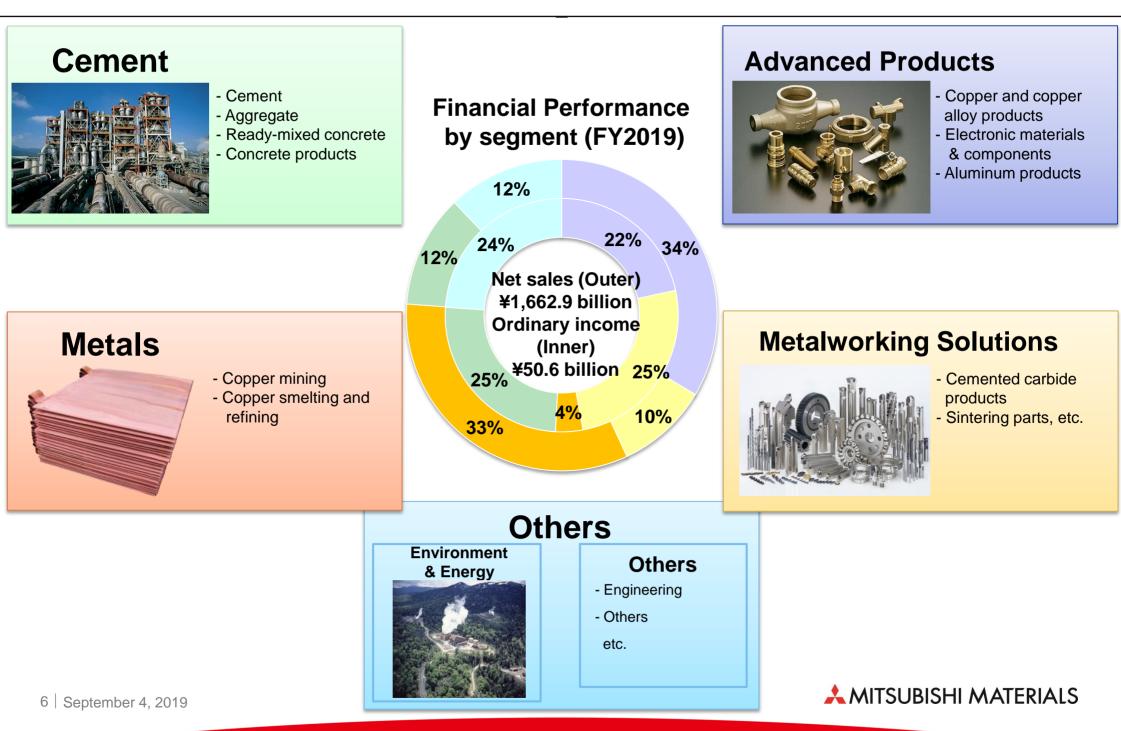
Affiliated company accounted for by the equity-method : 16 (as of Mar. 31, 2019)

(The group has established about 165 operating bases in about 30 countries.)





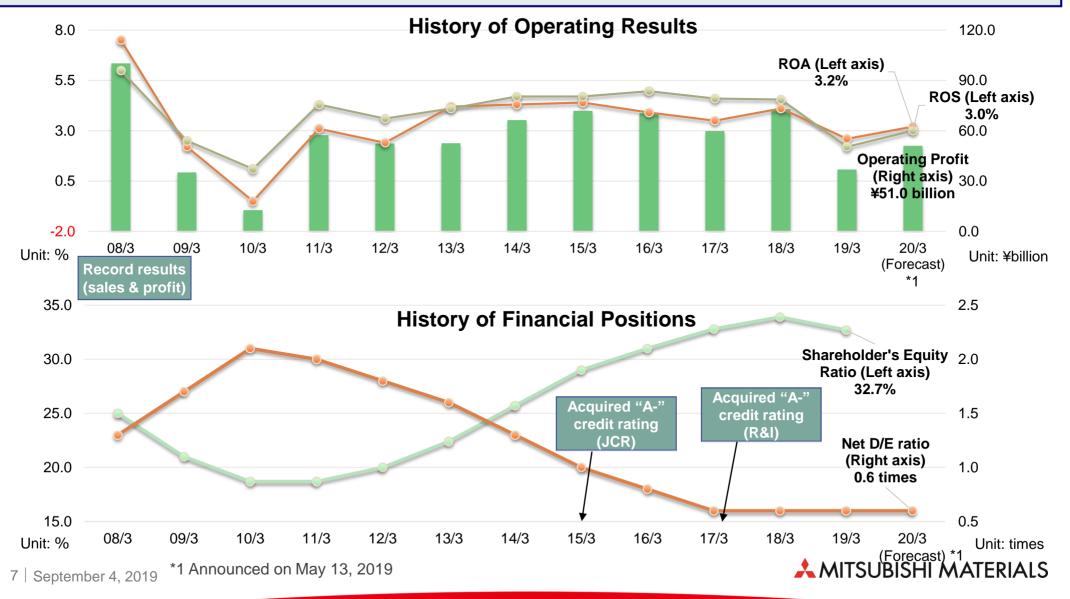
Business Structure



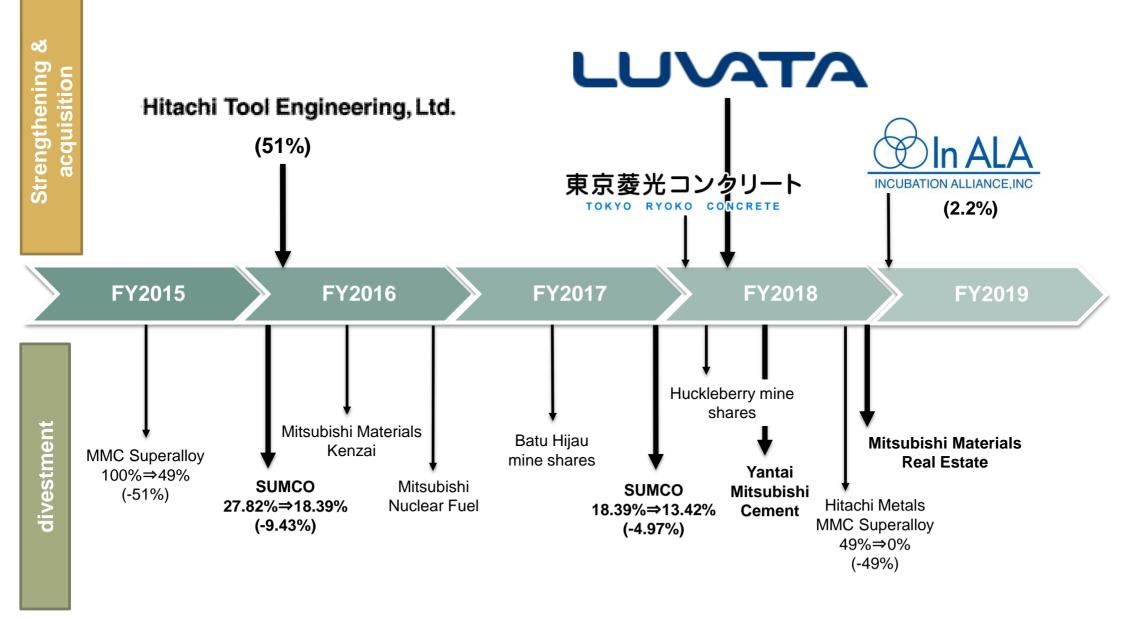
History of Operating Results

 09/3-11/3: Following the Lehman shock, introduced comprehensive management measures to strengthen the corporate constitution 12/3-14/3: Medium-term Management Plan (Materials Premium 2013 - Aiming for New Creation) Twin focus on growth strategy and enhancement of financial position
 15/3-17/3: Medium-term Management Plan (Materials Premium 2016 - Challenge to become the world's leading business group) Fortifying the foundation

18/3-20/3: Medium-term Management Strategy (- Transformation for Growth -)



History of Business Restructuring



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History of Provision for Environmental Measures

Provision for environmental measures at abandoned mines has completed in FY2019

Provision for environmental measures at abandoned mines

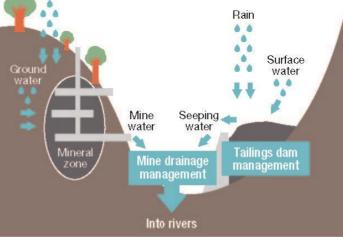
1. Tailings Dam Reinforcement

Construction work to design and implement stability measures at the tailings dam

2. Countermeasure work to prevent mining-induced pollution

Measures for the prevention of dumping untreated water with a focus on the reinforcement of water treatment capacity in response to the changes in the natural environment in recent years

Overview of Wastewater Treatment in Abandoned Mines



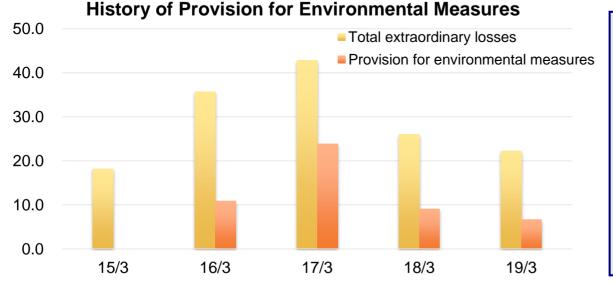


Reinforcement work on the Yotani Mine Tailings Dam No.1



Contamination containment work at Komagi Mine: membrane section waterproofing

Unit: ¥billion



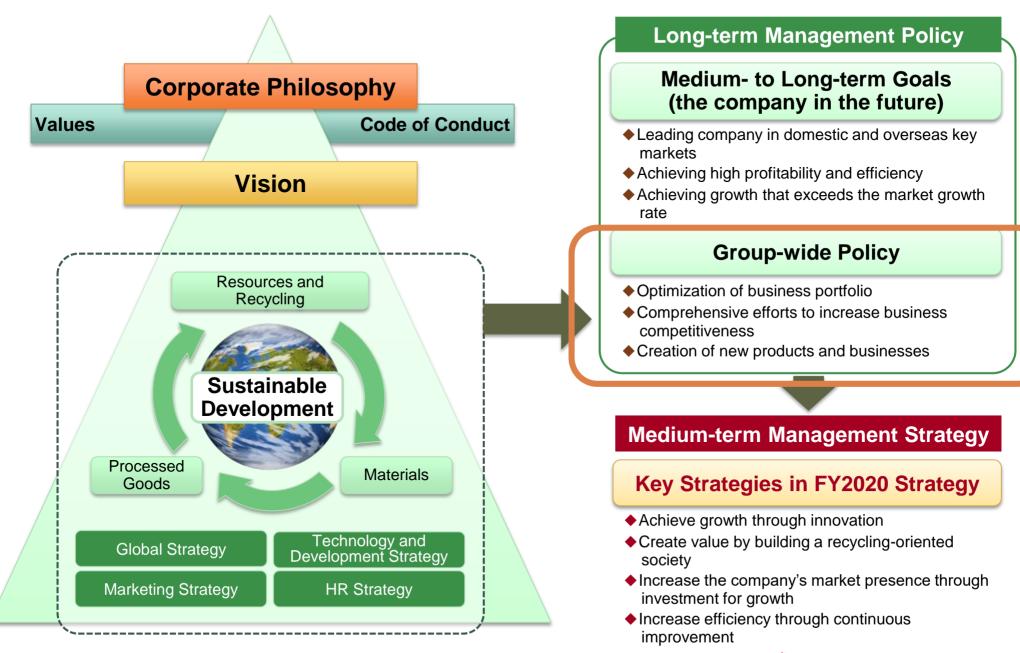
Results of Provision for Environmental MeasuresFY2016 ¥10.8billionCountermeasure work to prevent mining-induced pollutionTailings Dam Reinforcement (2sites)FY2017 ¥3.9billionTailings Dam Reinforcement (4sites)Countermeasure work to prevent mining-induced pollutionFY2018 ¥9.1billionCountermeasure work to prevent mining-induced pollutionFY2019 ¥6.6billionTailings Dam Reinforcement (4sites)Total ¥50.4billion

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Progress on the Medium-term Management Strategy

Overview of FY2020 Strategy



Progress on the Medium-Term Management Strategy

Medium-Term Management Strategy

Review the growth strategy and investment plan for upcoming three years once a year

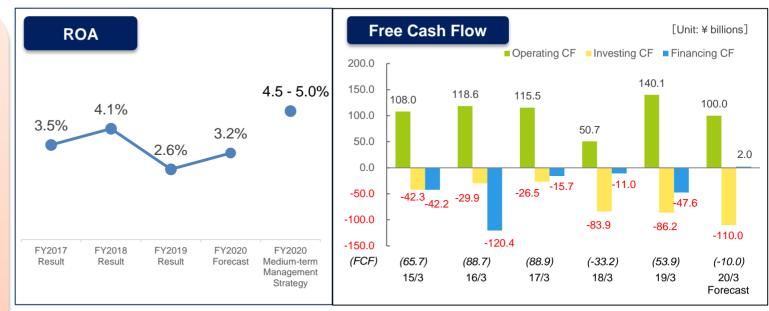
Rolling Review of the Medium-<u>Term Management Strategy</u> (FY2020 Strategy)

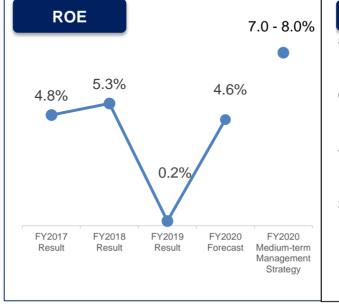
Growth strategies: No major changes Investment plan: No major changes

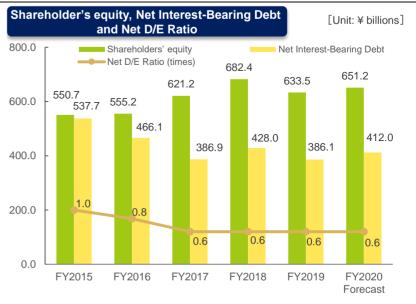
Optimization of business portfolio (October, 2018)

New establishment of the "Advanced Products Company"

- ⇒ Strengthening and growth of product manufacturing business
- ⇒ Creation of new products and businesses in product manufacturing business







Optimization of Business Portfolio

- To integrate three product manufacturing businesses and establish the Advanced Products Company in October, 2018
- Newly set a EBITDA growth rate as the most important indicator of the Advanced Products Company

			Direction	(Indicator to watch)	
Product manufacturing	Growth promotion business	Advanced Products (Copper & Copper Alloy Products) Metalworking Solutions *	 Promote growth by matching customer and market needs and the Company's strength Business development in adjacent fields and global markets 		
	Profitability restructuring business	Advanced Products (Electronic Materials & Components) Advanced Products (Aluminum)	 Work promptly to solve issues and define the future direction of growth. Make investments in competitive advantages and support technological development Ensure thorough selection and concentration 	EBITDA growth rate	
Process manufacturing	Stable growth business	Metals (smelting) Cement Recycling Renewable energy	Aim to strengthen the business foundation by increasing and maintaining cost competitiveness using recycling revenues, etc. and seek carefully selected opportunities for large investments	ROA	

* As of October 1, 2018, "Advanced Materials & Tools Company" has changed its name to "Metalworking Solutions Business Company."

Key Measures to Strengthen and Restructure the Business Since April 2017

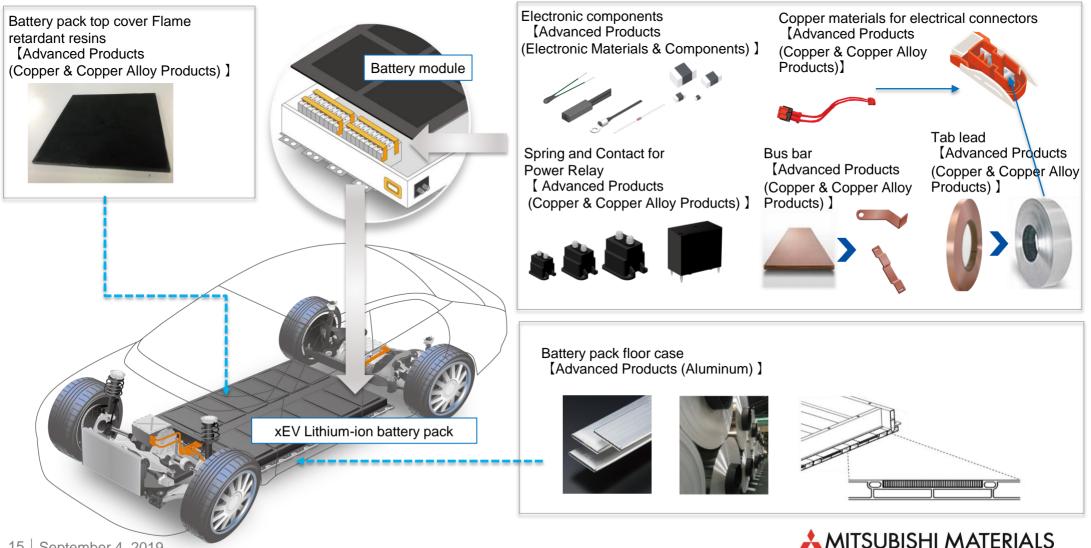
	Key Business Strengthening and Acquisition of Shares			
	• "Luvata Special Products Division" became a consolidated subsidiary through completion of the acquisition of shares			
	Development of Flake-type thermistors for high-precision temperature control (the world's smallest and with long-term reliability) of laser diodes for optical communication			
Advanced Products	• To begin collaboration with Denka Company Limited for full-fledged mass-production of ceramic insulated circuit substrates with high thermal conductivity for eco-friendly vehicles			
Auvanceu Producis	• Joint development with Mitsubishi Shindoh Co., Ltd. regarding corrosion protective plating technology for the terminal connectors of aluminum wire harnesses which is expected to contribute for reducing the weight of automobiles			
	• Development of two types of copper sintering bonding materials for next-generation power modules capable of solving problems that arise in conventional solder			
	• Development of uniformity electrodeposition coating technology for highly heat-resistant and highly insulating resin for	r next-generation vehicles		
	"Central Japan Technical Center" was established			
Metalworking	"TianJin LingYun tool Design Co.,LTD." was relocated, and improved and expanded	*Black: FY2018		
Solutions Business	Tungsten recycling capacity at Japan New Metals Co., Ltd. was increased 1.5 times	*Red: FY2019		
	• "Machining Technology and Education Center in North America" was relocated, and improved and expanded			
Metals Business	• "MM Metal Recycling B.V.", an E-Scrap sampling facility established in the Netherlands, went into operation			
Cement Business	Capacity of waste plastic processing at Kyushu Plant increased 1.7 times			
	• "KitaKyushu Ash Recycle Systems Co., Ltd.", which is engaged in the treatment of incineration fly ash, went into operation			
Others Business	• To begin the joint development of recycling technology of cobalt, nickel and other metals with Nippon Magnetic Dressing Co., LTD.			
	"New Energy Fujimino Co., Ltd." was established for operating a business of producing biogas from food waste			
	• Investment to "Incubation Alliance, Inc.", which is involved in the development and manufacture of new carbonaceous material "graphene"			
Common	• "New Business Development & Promotion Division" and "EV Material Development & Recycling Business Promotion Dept." were established			
	• Establishment of "MMC Innovation Investment Limited Partnership", which will invest in venture companies that have	material technologies		
	Key Business Restructuring and Sales of Shares			
Metalworking Solutions Business	All shares in "Hitachi Metals MMC Superalloy, Ltd." were sold			
Common	All shares in "Mitsubishi Materials Real Estate Corporation" were sold			

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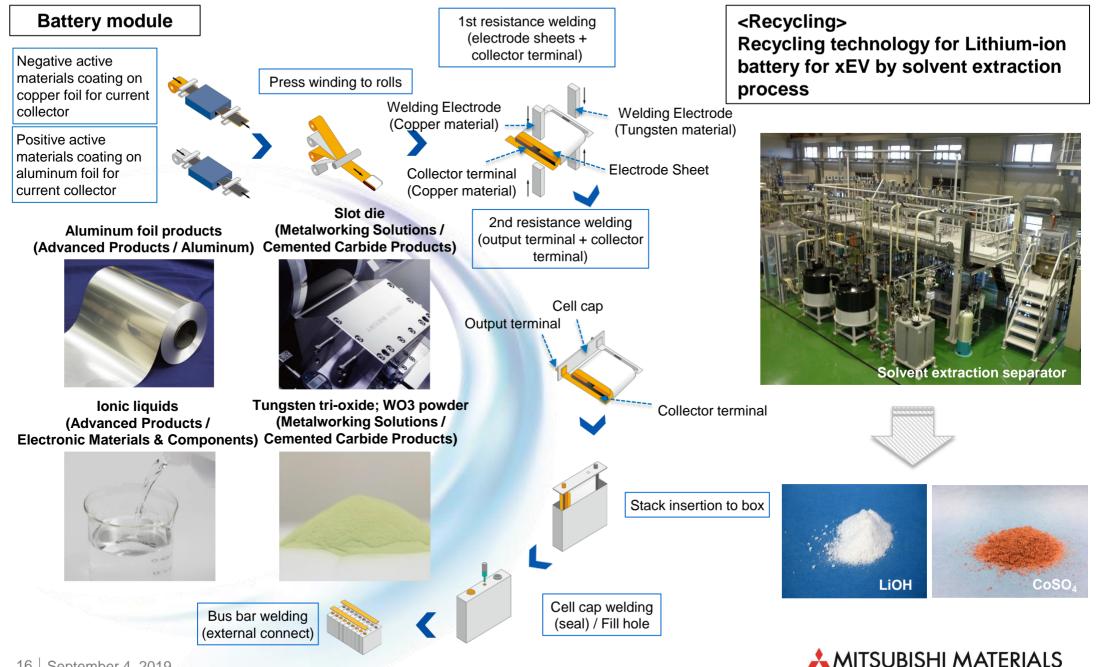
Creation of New Products and Businesses

From battery pack, materials for interior and exterior to recycling

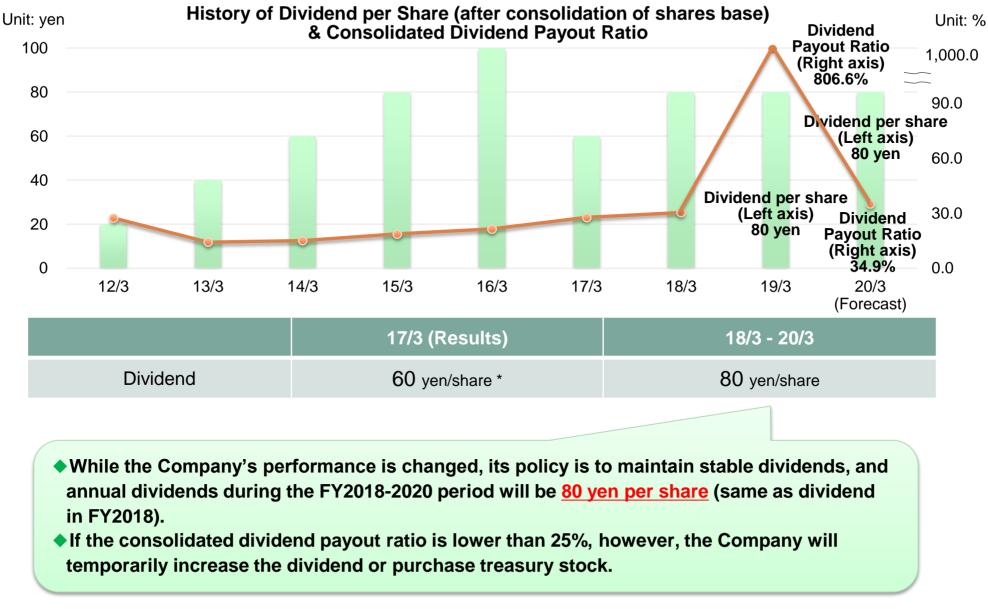
The Company provides unique products and recycle technology with the keywords "Manufacturing", "Use" and "Revival" that are indispensable for electric vehicles.



Creation of New Products and Businesses



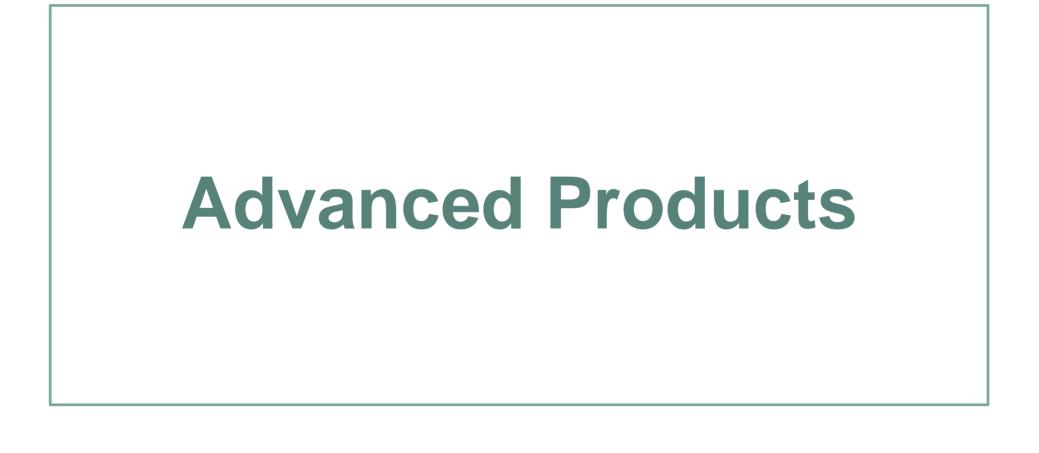
Shareholder Return



^{*} A consolidation of shares of the Company's common stock at a 10:1 ratio was executed, with an effective date of October 1, 2016. According to this, dividend per share for FY2012 to FY2017 are calculated on the assumption that the consolidation of its shares was conducted at the beginning of the FY2012.



Business Strategy & Overview by Segment



Advanced Products Overview

	• Mitsubishi Shindoh: Expected to maintain solid sales of terminal materials for automobiles at the same level as the previous year and increase sales of electronic materials for	Net sales (¥billions) 600.0	History of Consolidated Earnings		Operating prof Ordinary incor (¥billions) Net sales 20.0 587.9	
Copper Processing	 Sales of electronic materials for semiconductors, MSP alloys, etc. Luvata: Expected to increase sales of welding-related products to North American, European, and Japanese automobile manufacturers and superconducting wires for MRI in China and other areas of Asia. 	450.0 —— 300.0 ——		Ordinary income 15.7 O <mark>perati</mark> ng		
Electronic Materials & Components	 Electronic Materials: Sales of products such as insulated substrates with high thermal conductivity and solar heat-ray shielding for next-generation vehicles are expected to increase. Electronic Components: Sales of products such as electronic components for in-vehicle equipment 	150.0 0.0	18/3 19/3	20/3 Forecast * * Announced on May	5.0 0.0 13, 2019	
Aluminum	 and optical communication-related equipment are expected to increase. Mitsubishi Aluminum: Expected to increase sales of products such as heat exchanger sheet materials for automobiles through the stabilization of sheet production and foil products for lithium-ion battery cases. Universal Can: Plans to launch upsized aluminum bottle cans and expects a recovery in demand for aluminum bottle cans. 	 Change To integrate in-house co Purpose To promote manufacturi and strength 	the creation of new products and busin ing business, establishing cross-function hen target products and business from g the system to appropriately respond to	es and establish a new nesses in product nal organization to dev a long-term perspectiv	w velop ve	

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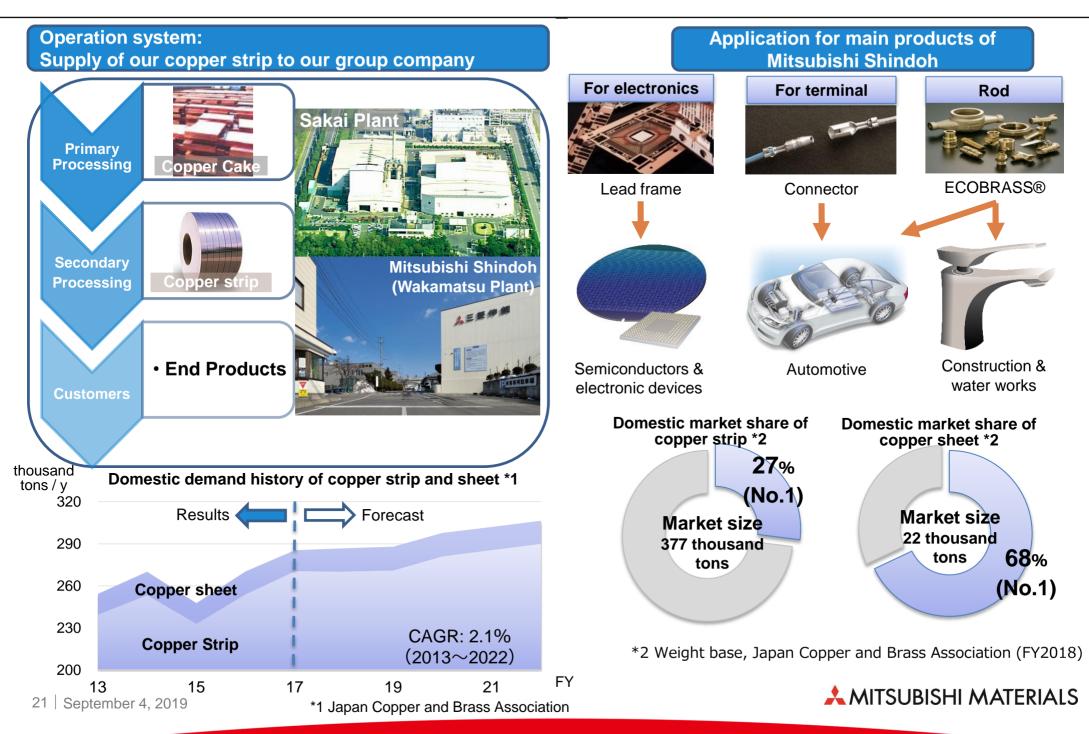
Operating profit & Ordinary income (¥billions)

15.0

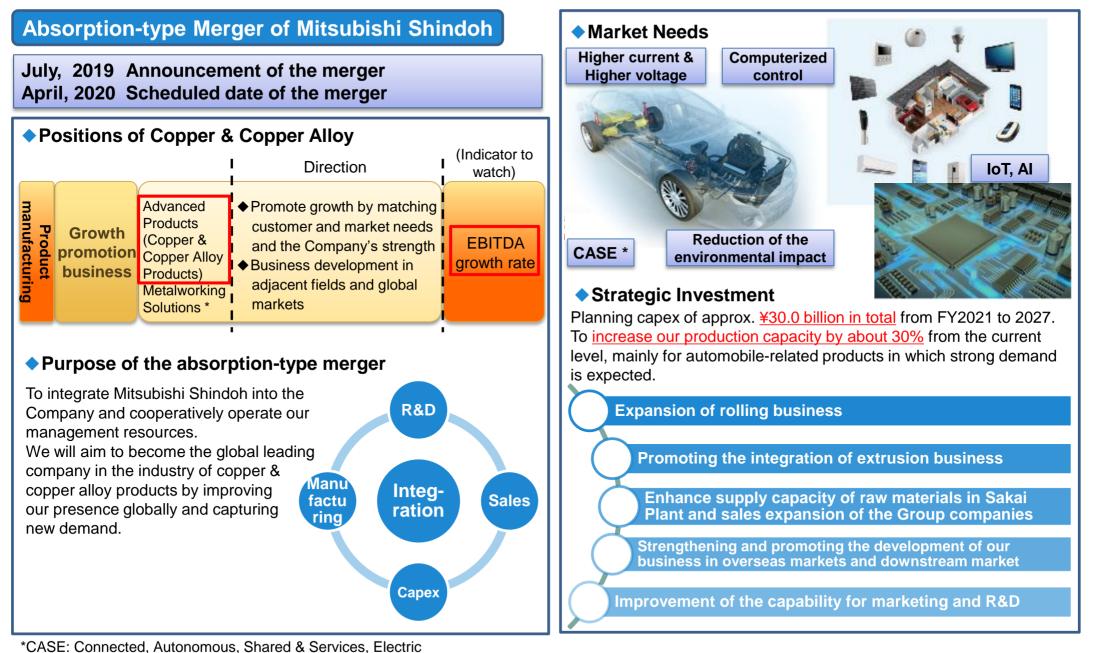
10.0

Net sales 20.0 587.9

Advanced Products - Copper & Copper Alloy (1) -

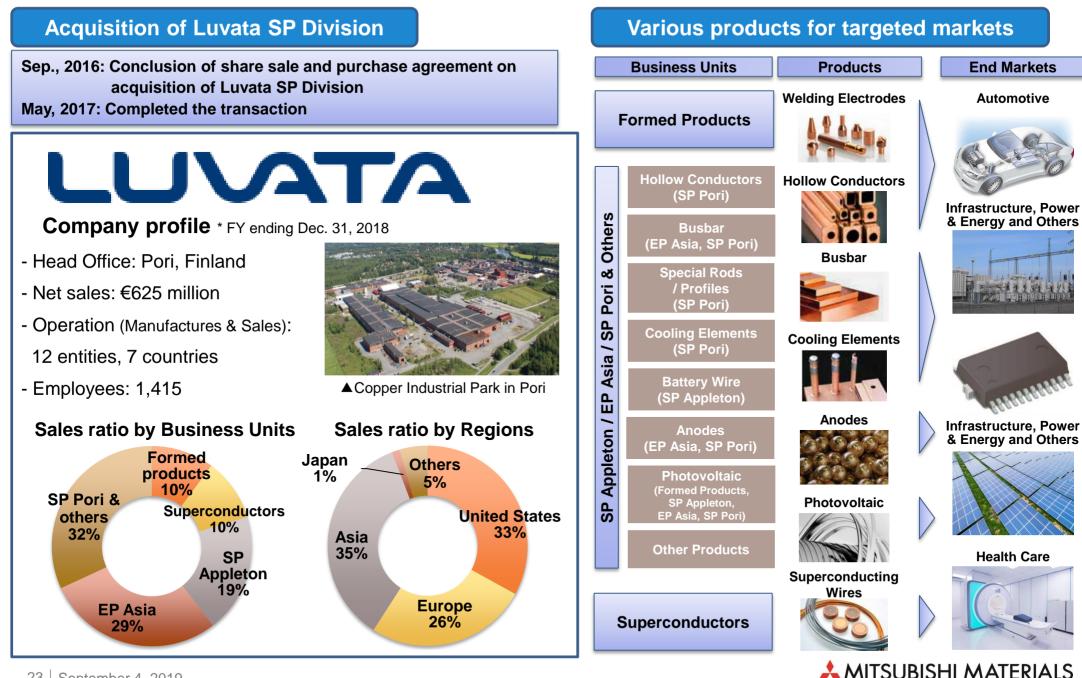


Advanced Products - Copper & Copper Alloy (2) -



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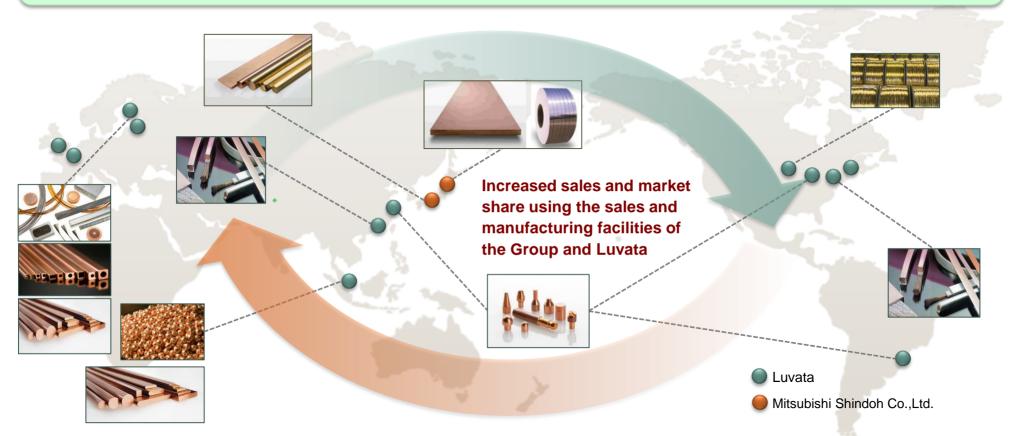
Advanced Products - Copper & Copper Alloy (3) -



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Advanced Products - Copper & Copper Alloy (4) -

Priority measures: Synergy with Luvata



 Increased sales of copper & copper alloy products of the Group using the sales and manufacturing facilities of Luvata located mostly in North America and Europe

Boost sales using the Company's domestic facilities for Luvata's products

➡ Establish global sales and manufacturing systems using Luvata's facilities

➡Optimize product mix and increase market share with the cooperation of Luvata

Advanced Products - Electronic Materials & Components -

Operation system: Electronic Materials, Electronic Components, Polycrystalline Silicon

Electronic Materials & Chemical Products





Polycrystalline Silicon

Production Capacity Yokkaichi Plant: 2,200t MIPSA : 1,550t

♦

Monocrystalline Ingot, Silicon Wafer (SUMCO Corp.) Stake ratio approx. 13%



▲ 11N Grade (99.999999999%)



Key Strategies: New products and sales expansion in the IoT - related market

Antenna

Development of multiband antennas for mobile type small payment terminal. (April, 2019)



Thermistor sensors

Increased market shares in the optical communication equipment market based on high reliability and compact-sizing as its strengths in FY2019.

Key Strategies: New products and sales expansion in

the next-generation vehicle market

Insulated substrates with high thermal conductivity

Expanded production capacity for heat sink-integrated substrate in FY2019. Strengthening the business plans to continue in FY2020.

In-vehicle sensors

Plan to increase sales of thermistors and surge absorbers in FY2020.

Solar heat-ray shielding

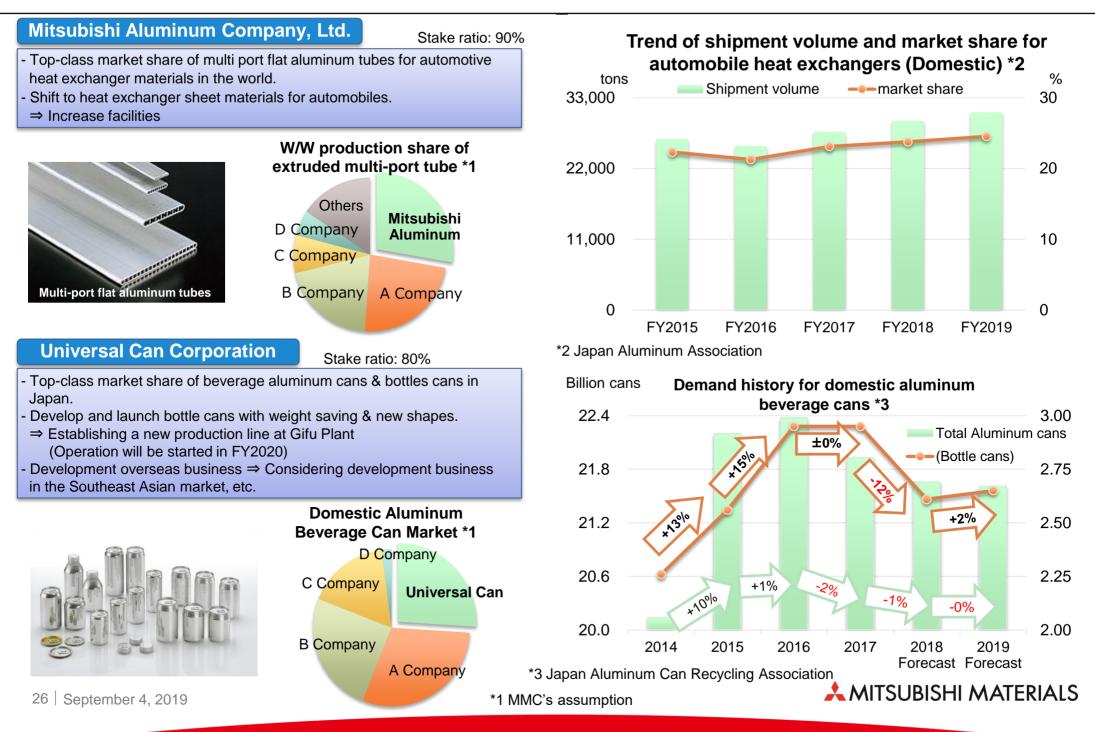
Achieved sales exceeded the previous year result in FY2019. Plan to increase sales in FY2020.







Advanced Products - Aluminum Products-





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Metalworking Solutions Business Overview

Cemented Carbide Products

Main Products

Cutting tools for metal working industries (automotive & aerospace)

- Cutting tools (Insert, drills, and etc.)
- Wear Resistant Tools





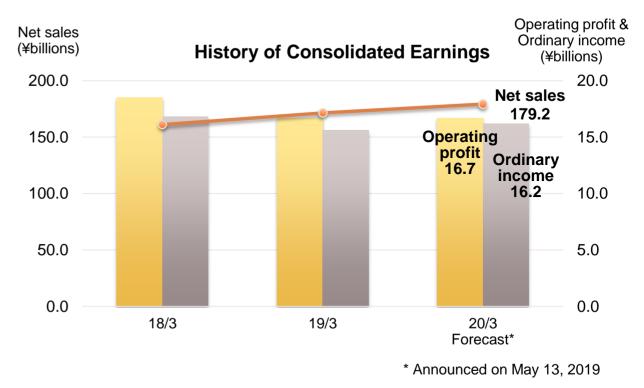
Sintering Parts, etc.

Main Products

Key components of automotive engines & transmissions

- Oil-retaining Bearing
- Parts for Variable Valve Units
- Transmission-related Parts



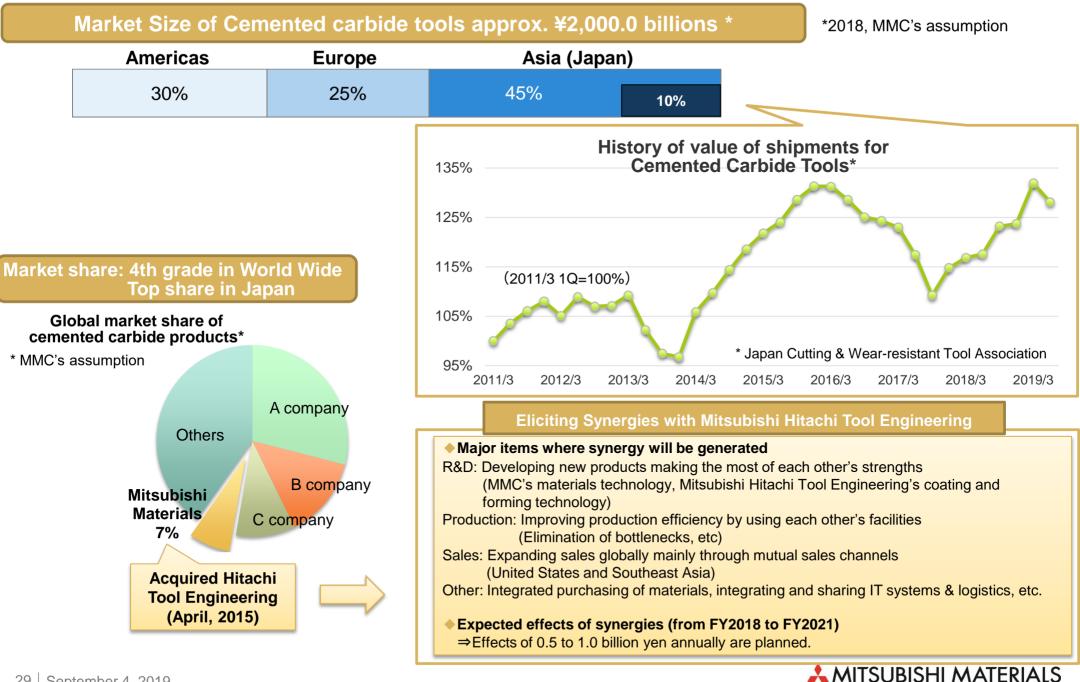


Demand and sales forecast (Cemented Carbide Products)

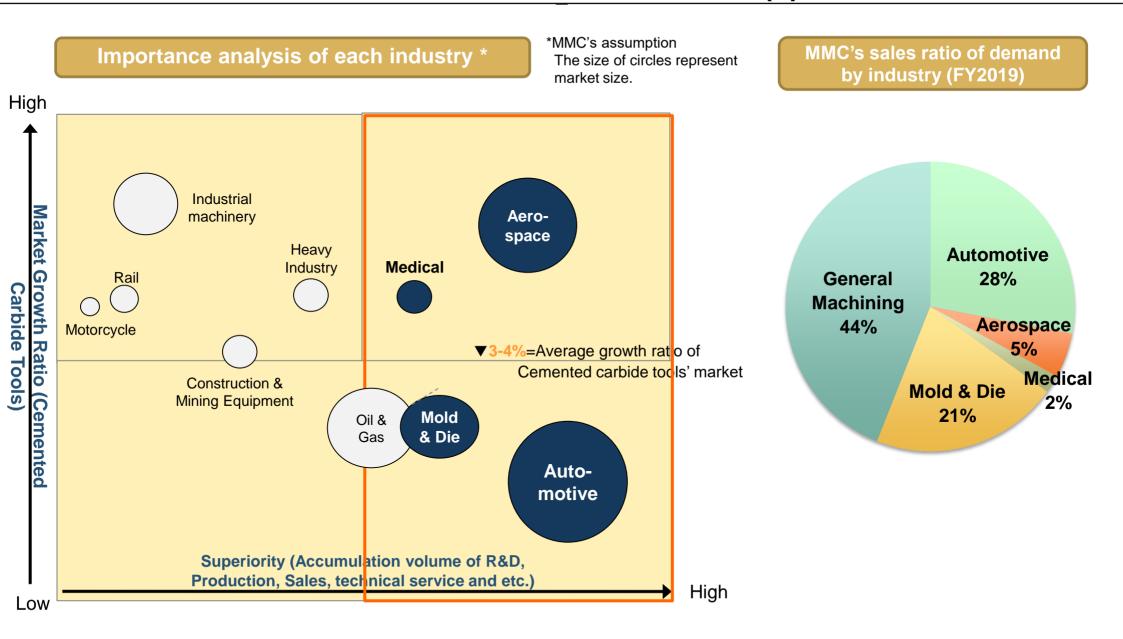
 Increase of sales according to reinforce and accelerate the key account strategy, expand sales to key industries - Automotive, Aerospace, Medical, and Mold & Die, and expenditures for sales expansion for the future are expected to the plan.



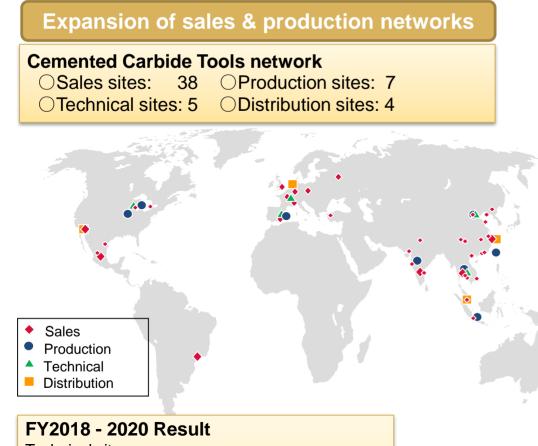
Metalworking Solutions Business \sim Cemented Carbide Products (1) \sim



Metalworking Solutions Business \sim Cemented Carbide Products (2) \sim



Metalworking Solutions Business \sim Cemented Carbide Products (3) \sim



Technical sites:

- June 2017: Central Japan Technical Center
- Oct. 2017: Relocation and expansion of the technical center in Tianjin, China
- Oct. 2018: Relocation and improvement of the Machining Technology and Education Center in North America
- June 2019: New Machining Technology and Education Center in Stuttgart, Germany

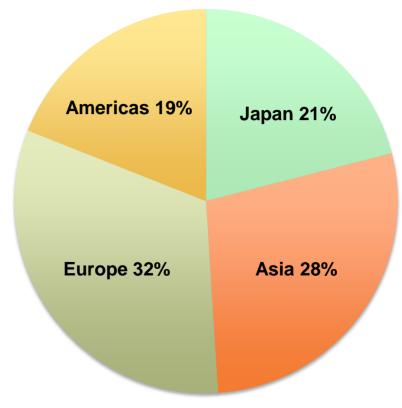
Plan in the future

Technical sites:

Plan to establish new technical centers in India



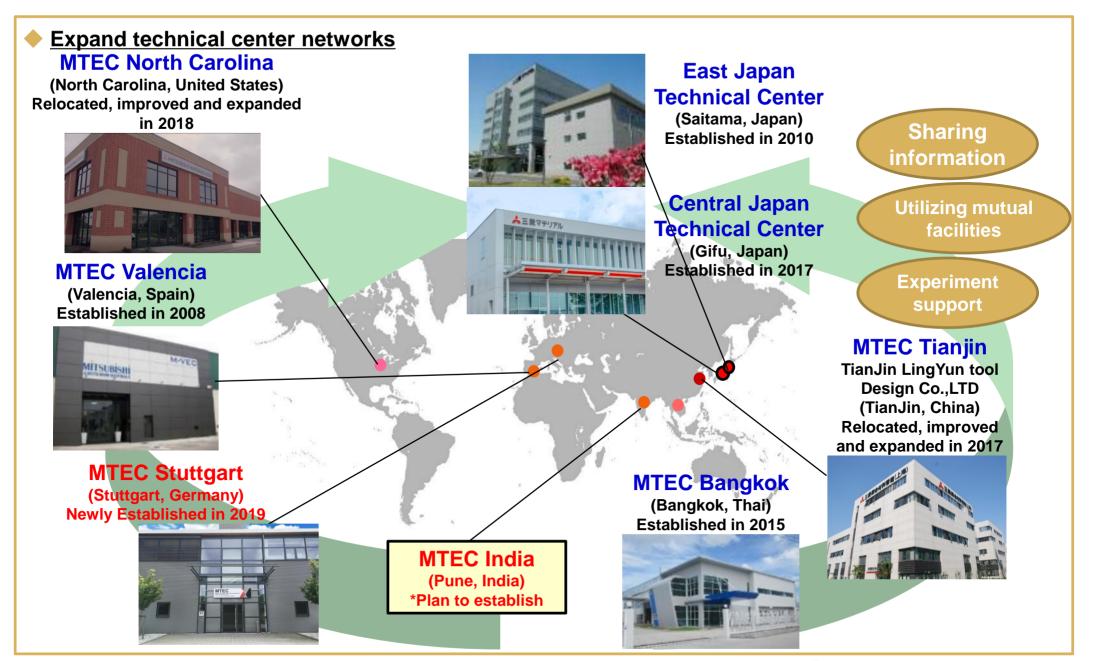
▲ Exterior of Machining Technology and Education Center in Stuttgart, Germany Sales ratio of Cemented Carbide Tools by area (FY2019)



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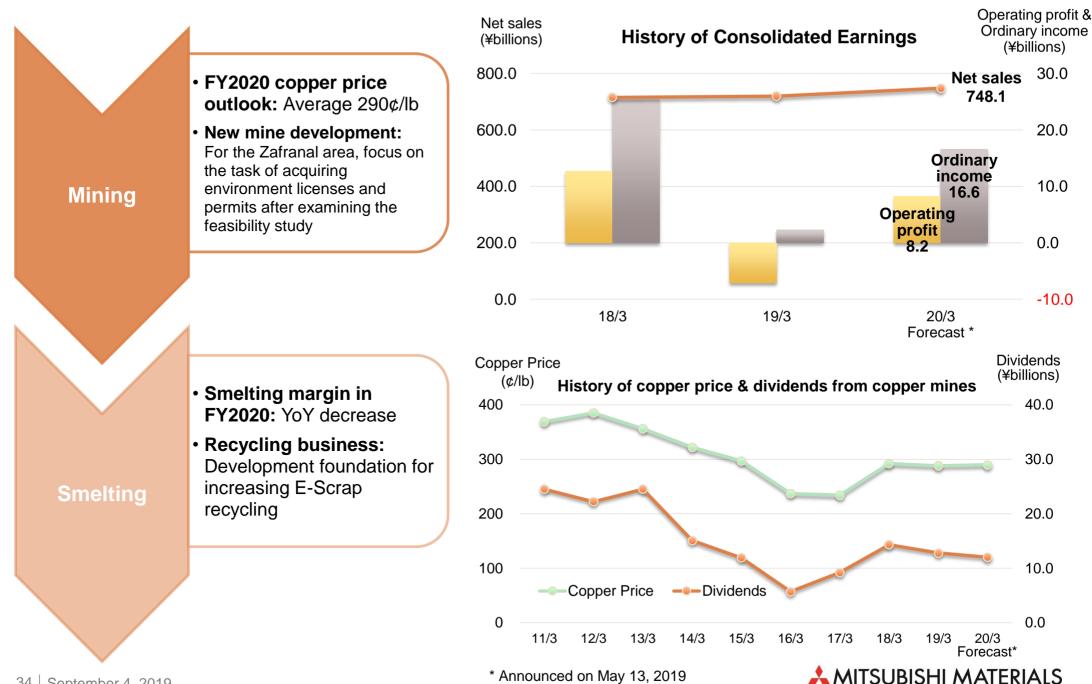
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Metalworking Solutions Business \sim Cemented Carbide Products (4) \sim

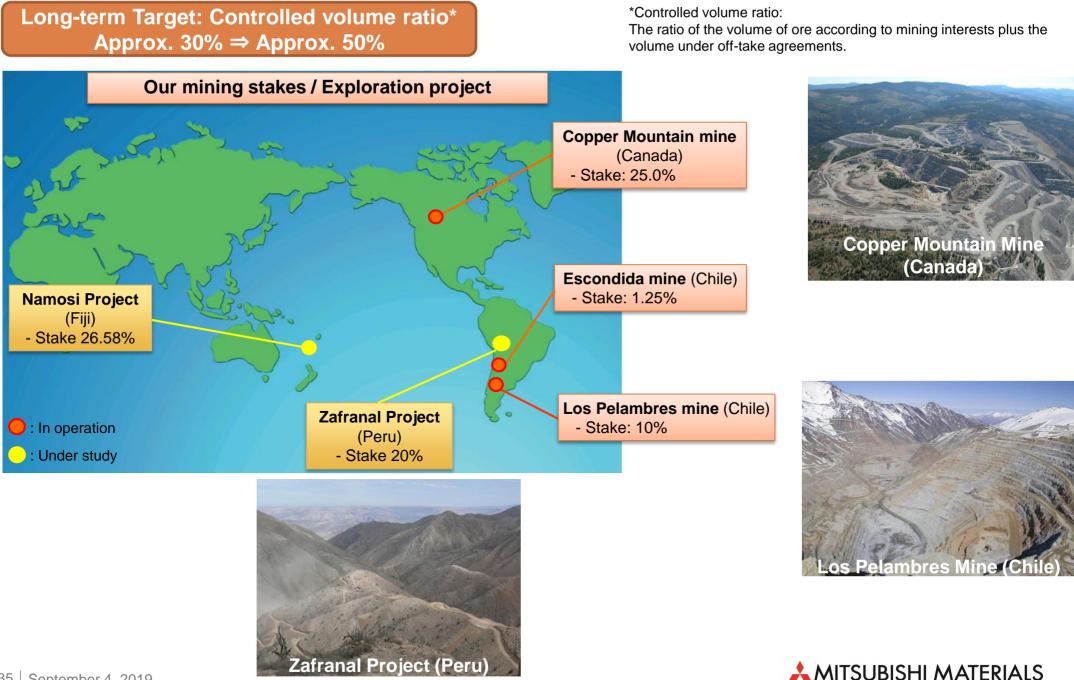




Metals Business Overview



Metals Business - Mining -



Metals Business - Smelting (1) -

Operation system: Total 3 smelter (2 in Japan, and 1 in Indonesia)



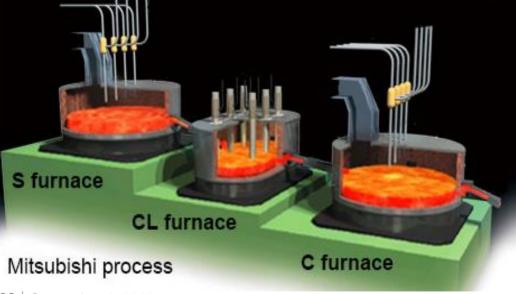
Copper: 230,000 tons / year E-Scrap: 120,000 tons / year



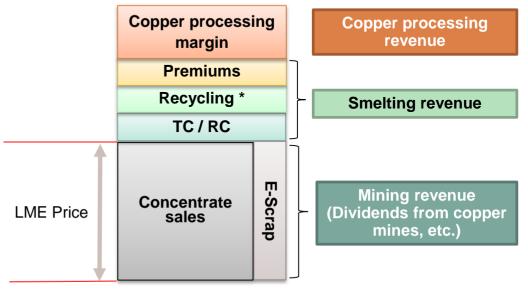
Copper: 300,000 tons / year E-Scrap: 40,000 tons / year



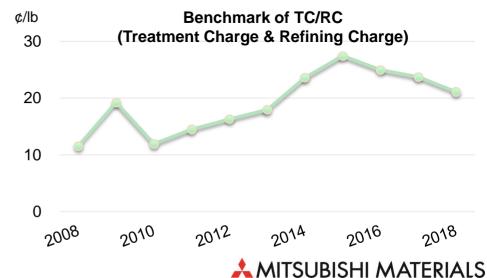
Copper: 300,000 tons / year



Metals Business (Income breakdown image)

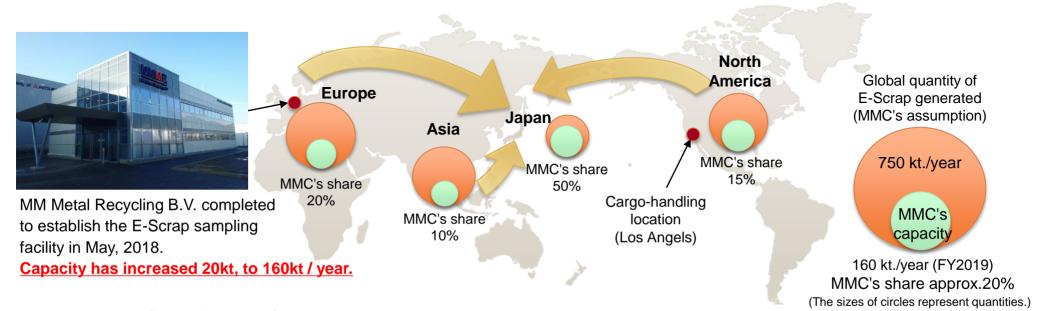


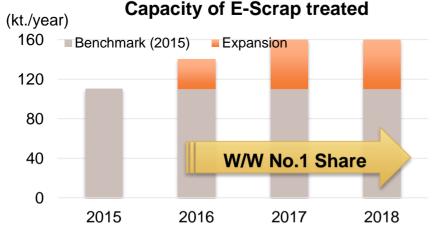
* Consist of the treatment charge and the profit of free metal income difference, etc.



Metals Business - Smelting (2) -

Priority measures: Increasing E-Scrap recycling







Naoshima Smelter & Refinery Increase in receiving, sampling, analysis, and treatment capacities (from 2016)

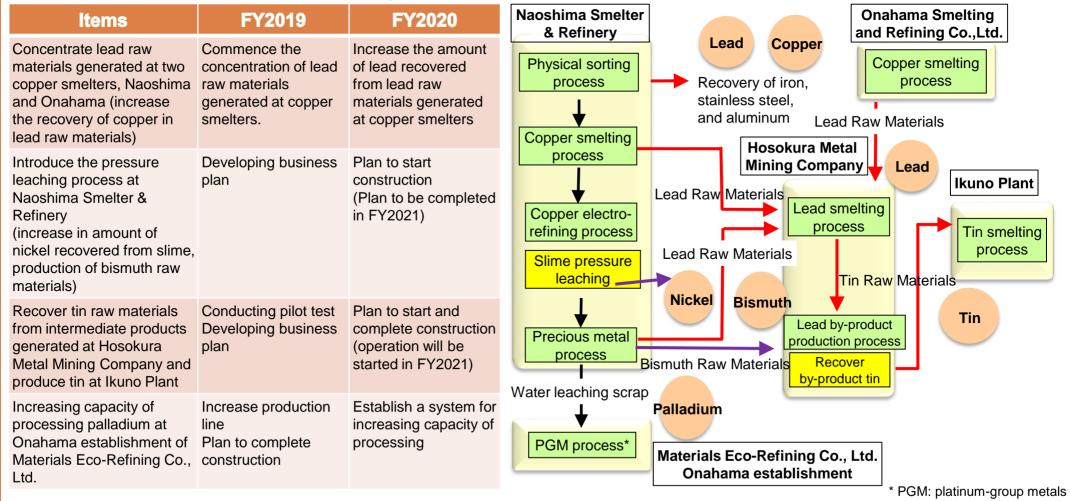


Onahama Smelting & Refining Co., Ltd. Increase in capacity +3kt./year (from 2018)

Development foundation for increasing E-Scrap recycling

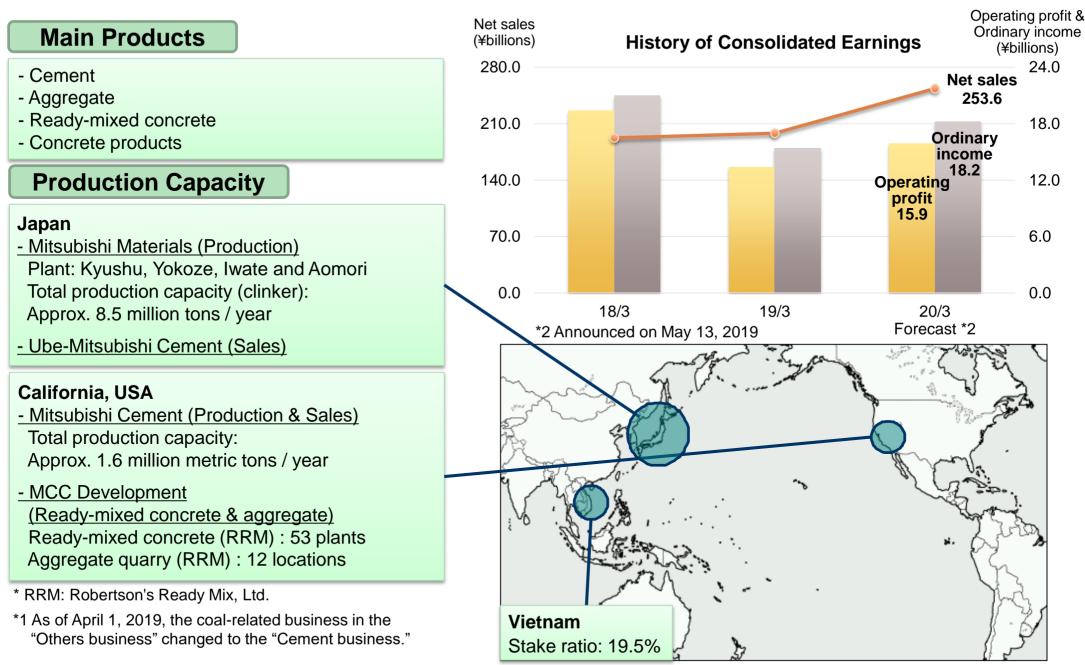
An increase in E-Scrap recycling resulted in growth in the load of impurities, which has begun to cause troubles. The Company positions the FY2020 as a "willful slowdown" and will actively undertake the sorting and recycling of impurities contained in E-Scrap and smelting metals from them utilizing the strength of smelter network in the Group.

Through this measures, troubles will be reduced. Furthermore, E-Scrap recycling will be also stabilized by acquiring a new income source, and we will expand processing amount in the future.

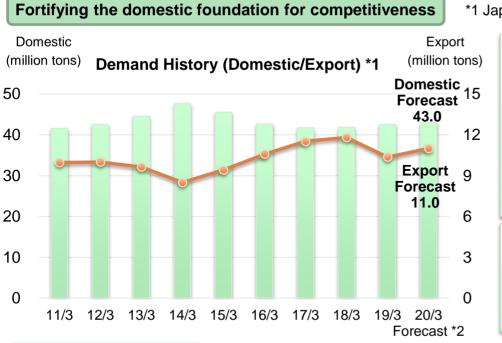




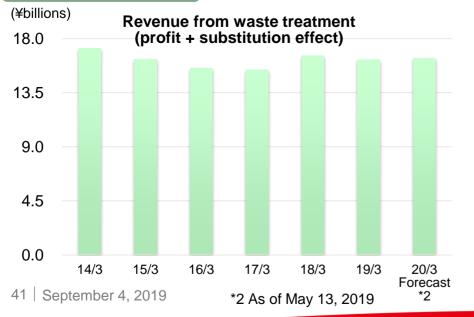
Cement Business Overview



Cement Business - Japan -



Recycling business



*1 Japan Cement Association

Outlook for demand in Japan FY2019 Result: 42.59 million tons. **Domestic Market Share*** FY2020 Forecast (JCA): 43.00 million tons FY2020 Forecast (MMC): 42.50 million tons Others Announced raising the cement prices on D Company Dec., 2017 - More than ¥1.000 / ton (from the shipment of April, 2018) A Company C Company To continue the sales price optimizations of cement in FY2020 **B** Company Ube-**Export environment** Outlook for FY2020 Mitsubishi For Asia: Steady growth Cement 25% For Oceania: Steady growth Total amount : YoY increase

*MMC's assumption

Waste processing

Process the waste in cement manufacturing process Rising processing prices and expand the difficult-to-treat waste • Coal ash:

Trying to secure the quantity by taking various measures. **Waste plastic**:

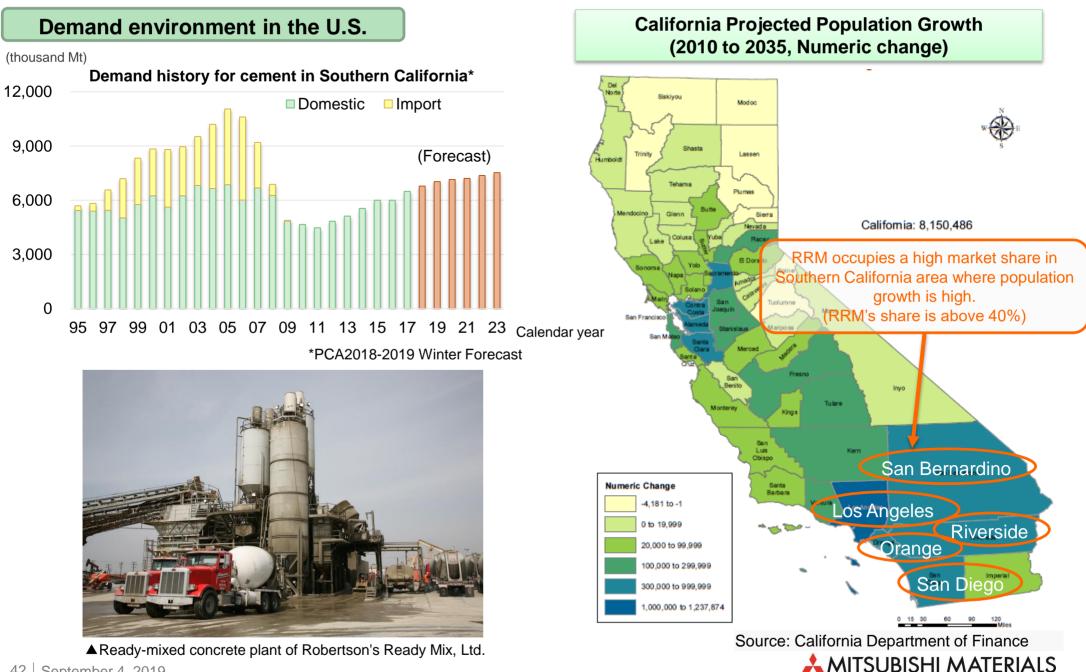
Capacity at Kyushu Plant increased 1.7 times. (operations began in February, 2018)

Fly ash treatment:

KitaKyushu Ash Recycle Systems Co., Ltd. that plays role in the treatment of fly ash and cement recycling system started operation in April, 2018. • Waste related natural disasters:

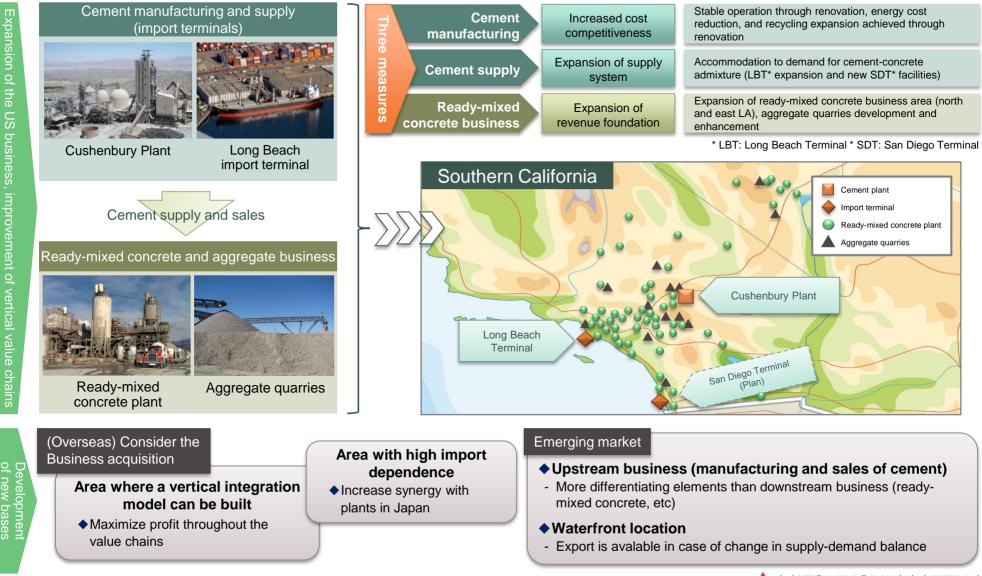
Making maximum efforts to accept waste related natural disasters such as earthquakes and torrential rains.

Cement Business - United States (1) -



Cement Business - United States (2) -

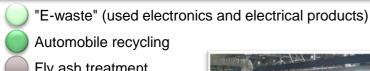
Priority measures: Expansion of the US business and development of new business bases





Efforts in environment and recycling

Play a part in the development of a recycling-oriented society by creating and expanding a recycling business that uses the characteristics and functions of the material industry without relying on landfill disposal, and that is trusted by stakeholders.



Automobile recvcling

Flv ash treatment





Automobile recycling



Fly ash treatment: KitaKyushu Ash Recycle Systems Co., Ltd. began operations (April, 2018)

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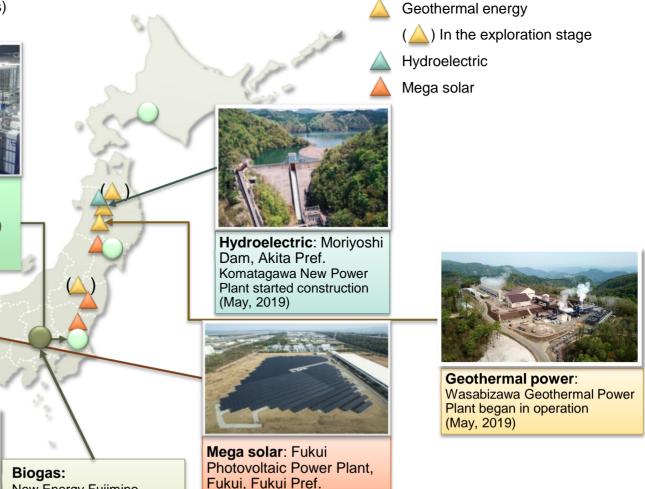


refrigerators

New Energy Fujimino Co., Ltd." was established (May, 2018)

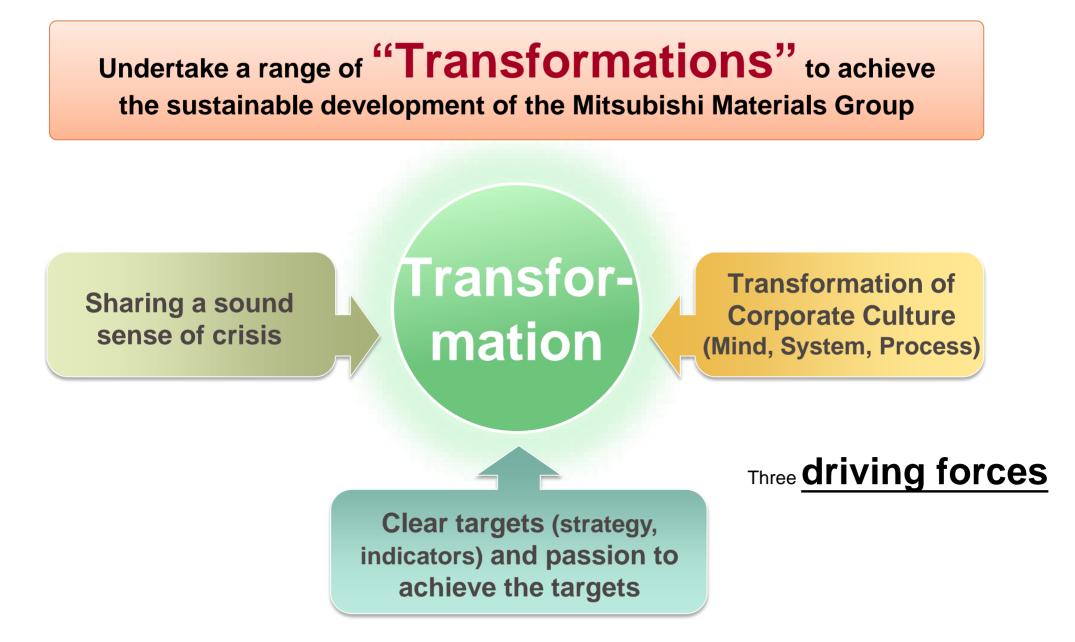
Efforts in renewable energy business

Expand the renewable energy business based on the management resources developed by the Company and provide a stable supply of low environmental-load energies to contribute to the development of a sustainable society.



(FYI) Medium-Term Management Strategy (Announced on May 16, 2017)

Transformation for Growth



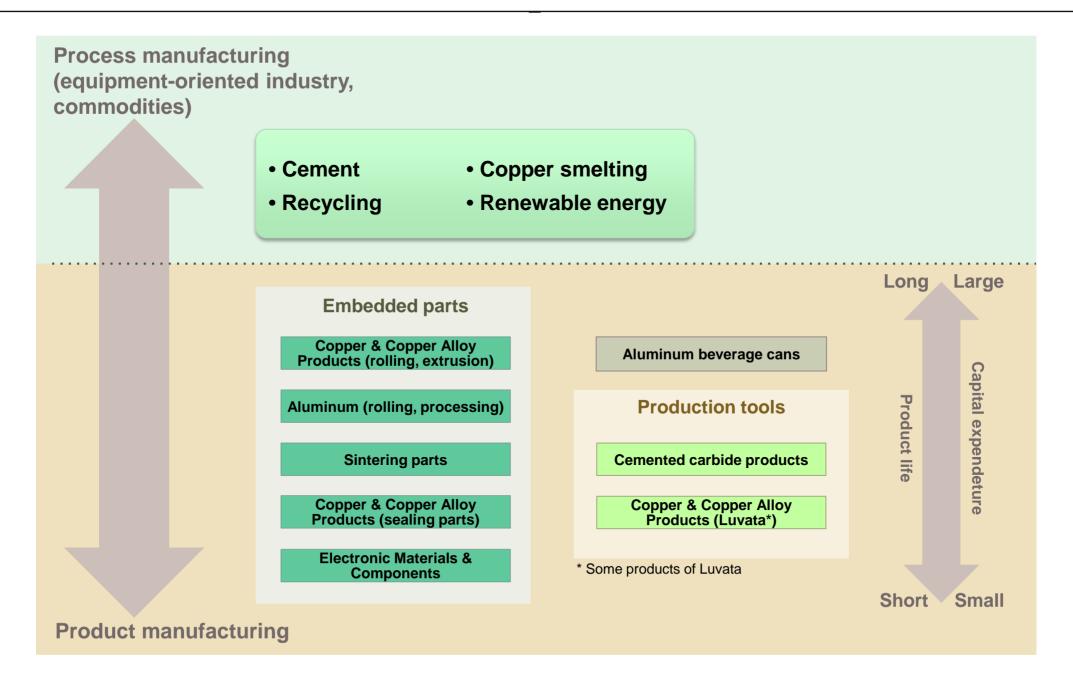
Japan

- ♦ Super-aged society
- Infrastructure development for disaster prevention and reduction
- Hollowing out of domestic market due to progress of globalization
- Increasing environmental consciousness (increase in EVs, recycling needs, etc.)
- Super-advanced information society based on AI and IoT (accelerated speed of change)

Overseas

- Change in international order
- ◆Increase in protectionism
- Slowdown in the growth of emerging BRICS economies
- Increase in the need for infrastructure development due to growing population
- Increasing environmental consciousness
 (increase in EVs, recycling needs, etc.)
- Super-advanced information society based on AI and IoT (accelerated speed of change)

Group-wide Policy: Optimization of Business Portfolio (1)

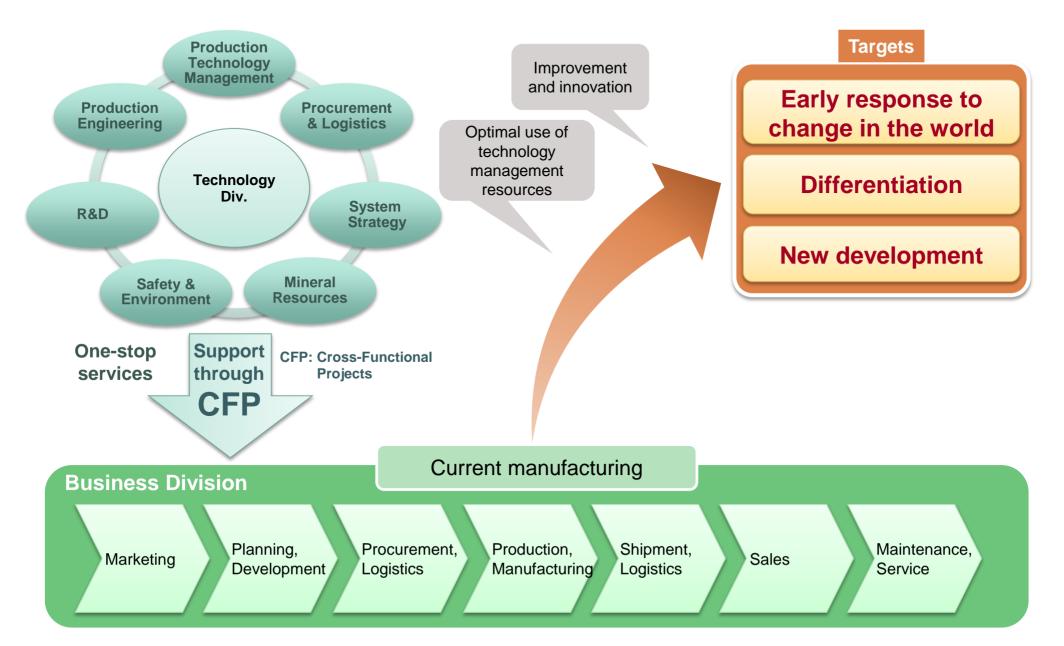


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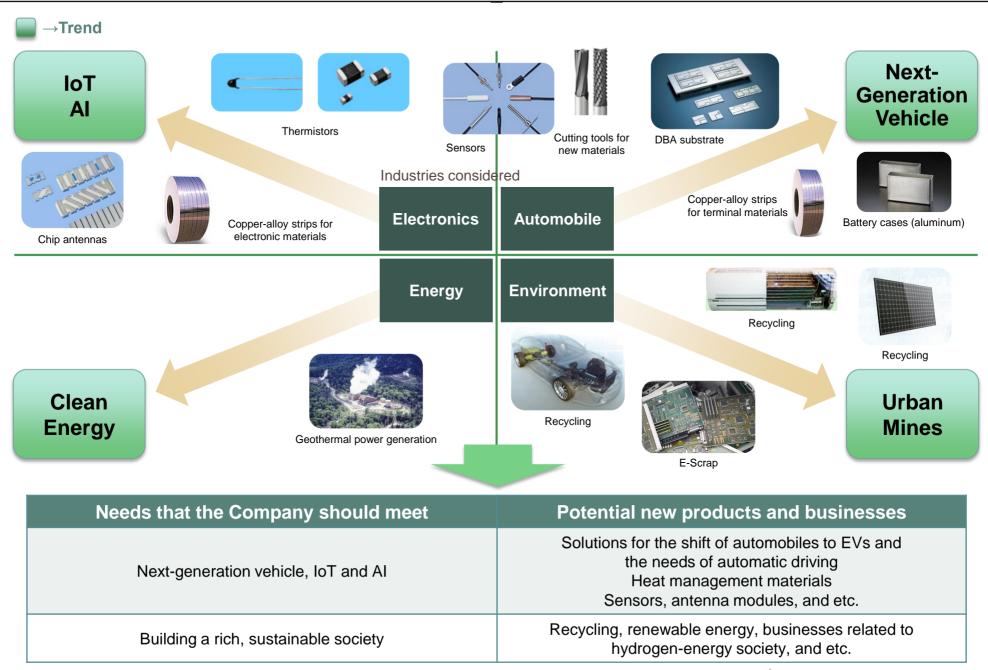
Group-wide Policy: Optimization of Business Portfolio (2)

		Direction	(Indicator to watch)
Stable growth business	Cement Metals (smelting) Recycling Renewable energy	Aim to strengthen the business foundation by increasing and maintaining cost competitiveness using recycling revenues, etc. and seek carefully selected opportunities for large investments	
Growth promotion business	Metals (Copper & Copper Alloy Products) Advanced Materials & Tools	 Promote growth by matching customer and market needs and the Company's strength Business development in adjacent fields and global markets 	EBITDA growth rate
Profitability restructuring business	Electronic Materials & Components Aluminum	 Work promptly to solve issues and define the future direction of growth. Make investments in competitive advantages and support technological development Ensure thorough selection and concentration 	ROS comparison with competitors

Group-wide Policy: Comprehensive Efforts to Increase Business Competitiveness



Group-wide Policy: Creation of New Products and Business

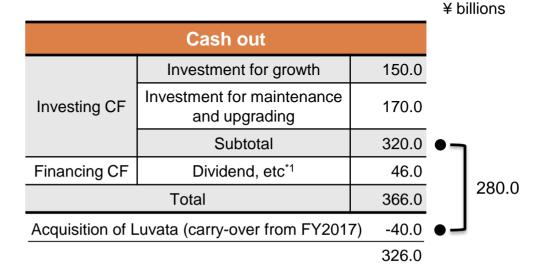


Group-wide: Investment Strategy

- Strengthen the businesses by utilizing operating cash flow and revenue from sale of assets
- ◆ If there is any other favorable large investment for growth, however, the Company will positively implement such an investment as far as keeping Net D/E ratio of 1.0 time or lower

FY2018 – 2020 Cumulative Cash Flow

	Cash in			
Opera		240.0		
Investing CF	Sale of assets		60.0	
Тс		300.0		
Sales of share in SUMCO Corporation (moved forward in the previous period) 26.0				
			326.0	



FY2018 – 2020 Cumulative Investment Plan

	Total amount of invest	ment 280.0*2				
Maintenance/	upgrading 170.0	Growth strateg	ду	11	0.0 *2	
Cement 22%	Metals ^{*2} 33%	Advanced Materials & Tools 21%	4 %	8 %	7 %	5 %
consolidated subsidiary	nent from MMC and dividend payment to non-co uvata (Approx. 40 billion yen) carried forward f	5	Electronic Materials & Components	Aluminum	Environment 8 Energy	Common investment

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Group-wide: Provisional Financial Calculations

(¥ billions)

		Results for FY2017	Provisional Financial Calculations for FY2020	Remarks
	Consolidated net sales	1,304.0	1,620.0~1,840.0	
Income statement	Consolidated net sales (excl. metals costs)	757.1	870.0~910.0	
	Consolidated ordinary income	63.9	82.0~100.0	[Principal reasons of changes, ordinary
	Total assets	1,896.9	1,950.0	income base] Market conditions 12.0
Balance sheet	Net interest-bearing debt	386.9	450.0	Investment effect 15.0 Metal prices 3.0~7.0
onoot	Shareholders' equity	621.2	640.0	Foreign exchange -6.0~8.0
ROA (ordin	ary income to total assets) (%)	3.5	4.5~5.0	Other -6.0 Total 18.1~36.1
ROE (%)		4.8	7.0~8.0	
Net D/E rat	io (times)	0.6	0.7	
	Exchange rate USD (yen/\$)	108	100~120	[Sensitivity]
Assumption (*)	S Exchange rate EUR (yen/€)	119	120	 Exchange rate 1 yen/\$ (yen depreciation) 0.7 billion yen
	Copper price (LME) (¢/lb)	234	250~270	◆Copper price (LME) +10 ¢/lb 2.2 billion yen (Ordinary income)

* Median used for BS

Cement Business Strategy

Medium- to Long- term Goals	efficiency in the	ding company in terms of ne cement industry al-area champion in		Business Policy	market th matures ♦ Grow ove support c	superior in the domestic at is contracting as it erseas businesses with the of stable cash income from businesses
		Key str	rate	egies –		
	growth through novation	Create value by building a recycling-oriented society	ma	crease the c irket presen ivestment fo	ce through	Increase efficiency through continuous improvement
R&D and	Innovation	Expand the environmental business		ortifying the d		Improve domestic and the US compart manufacturing

- Develop technology to reuse waste for cement manufacturing
- Enhance concrete technology
- Reduce CO₂

- business
- Develop new business in growth segment
- Increase the alternative thermal energy rate
- foundation for competitiveness
 - Kyushu Plant: increase global competitiveness
 - Downstream business: fortifying the sales foundation in Tokyo metropolitan area, etc.

Expand the US business

MCC terminals

Develop new overseas business bases

- Expand the ready-mixed concrete business - Establish and reinforce

- US cement manufacturing technology
- Establish a stable operation system
- Reduce costs
- Thoroughly conserve energy
- Increase workplace capability

Metals Business Strategy

Medium- to Long- term Goals	 Increase synergy between new copper mine development and smelting Expand the recycling business and increase its profitability Build high rolling-margin profitability 		Business Policy	Contribute to a recycling-oriented society through metals from manufacturing to recycling	
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Key strategies

	Achieve growth through innovation	Create value by building a recycling-oriented society	Increase the company's market presence through investment for growth	Increase efficiency through continuous improvement
Mining			Develop new projects	 Improve the system of improving and making decisions on existing projects
Smelting		Increase E-Scrap recycling		 Increase process efficiency Optimize the smelting business
Copper & Copper Alloy Products	 Sell products meeting customer needs Increase sales of terminal materials and new alloys Develop high-performance plating 	Promote alloy recycling	 Create synergy with Luvata Make use of synergy effects Establish global sales system Expand sealing materials business 	 Fortify the manufacturing system of rolling business Strengthen cost competitiveness of extrusion business

Medium-
to Long-
term
Goals

Become a global player capable of providing high value-added products and service solutions

Business Policy We aspire to become an energetic company with a "WakuWaku" feeling as well as a trusted genuine partner of our customers through a relentless pursuit of "speed" and "innovation" from our customers' perspective, consistently making things happen.

Key strategies

Achieve growth through innovation	Create value by building a recycling-oriented society	Increase the company's market presence through investment for growth	Increase efficiency through continuous improvement
 Enhance the power of solution by industry oriented teams 	Promote tungsten recycling	 Promote local production for local consumption by 	 Reinforce the Key Account strategy
 Create key technologies through the Company's original development and open innovation 		 reinforcing factories and using local venders Expand sales and technical center networks 	 Decrease cost Improve asset efficiency at factories
 Get closer to the customers by utilizing IoT and Big Data and enhance the level of manufacturing capability 		 Create synergies with Mitsubishi Hitachi Tool Engineering 	

Electronic Materials & Components Business & Aluminum Business

Electronic Materials & Components Business

Medium-	Become a highly profitable business entity that provides materials (solutions as well as	Business Policy	 Lineup of high-value added products Generate and expand profits by concentrating resources on growth businesses and products Develop and nurture strong new businesses
to Long- term Goals	products) required by growth market in timely manner by responding to changes in the business environment quickly	Key Strategies	 New products and sales expansion in the IoT- related market (antenna modules, thermistor sensors, etc.) New products and sales expansion in the next-generation vehicle market (insulated substrates with high thermal conductivity, in-vehicle sensors, solar heat-ray shielding, etc.)
Alumin	um Business		
Alumin Medium- to Long-	um Business Rolled and processing Establish a presence in the global market for automotive heat exchanger materials	Business Policy	Pursue business strategies that utilize the strengths of the rolling and can manufacturing businesses, respectively

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These projected performance figures are based on information available to the Company's management as of the day for releasing this material.

There are many uncertain or risk factors inherent in projections, and there might be cases in which actual results materially differ from projections of this material.

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