

# **INFORMATION MEETING 2022**

muRata

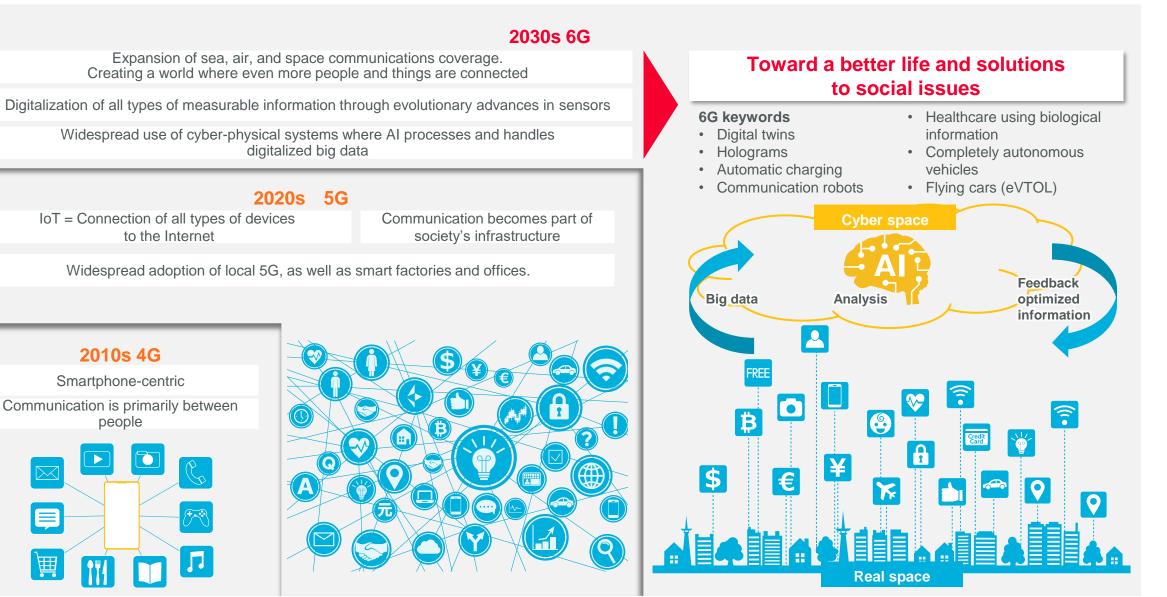
Murata Manufacturing Co., Ltd. 2022.11.30

# **Key Messages**

- We are anticipating the growth of business opportunities toward 2030, led by communications and mobilities. To prepare for this market expansion, we will steadily implement Medium-Term Direction 2024.
- To look to the future and create wide-ranging innovations, we will strive to take our 3-layer portfolio management to a higher level.
- Forming a lean management base through strengthening human capital.

# Expansion of the Usage of Electronics and 3-Layer Portfolio

01



## The Future of Communications

#### Network side

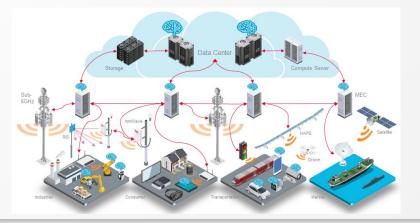
#### ■6th Generation Mobile Communication System (6G) is available

#### Market technology trends

- Appearance of high-capacity optical communications that support ultrahighspeed communications and largescale computation
- Transmission ranges are limited, so high-efficiency relay devices and base stations will increase
- The processing and communications capability of devices and other hardware will also support high-speed communications

#### **Business opportunities**

- Rise in demand for high levels of performance and reliability to support network connectivity functions
- Increase in demand for components due to more connected devices and processing capability improvements



### **Device side**

Increasing shift toward wearable and implanted devices

#### Market technology trends

- · Acquire and digitalize all types of information
- Develop advanced modules and sensors
- Need for miniaturization, enhanced energy saving, and improved reliability in order to make devices more portable and wearable

#### **Business opportunities**

- Increase in demand for small and high-performance components
   and modules
- Rise in technical requirements in relation to reducing power consumption and increasing efficiency
- Added value will shift to hardware + software/solutions

#### **Expectations for wearable devices**



### New value will be created by "converting everything into data and connecting them together"

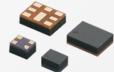
There will be major business opportunities for Murata, with our deep understanding of hardware and extensive knowledge of wireless communications technologies

### **Miniaturization initiatives**

Devices will continue to become more compact, creating a rising need for miniaturization of components







Multilayer ceramic capacitor

A Murata Compan

Digital ET technology

Inductor

Low power consumption, low loss initiatives

Growing communications volume will create a demand for lower power consumption and low loss characteristics

Multi-layer LCP Product

SAW filter

RESONA

XBAR technology

### **Modularization initiatives**

The value that customers demand will shift from providing single-function components to modularized proposals for concrete applications



## Sensing technology initiatives

The range of data that can be acquired by sensors will grow, as will the range of data applications







Soil sensor

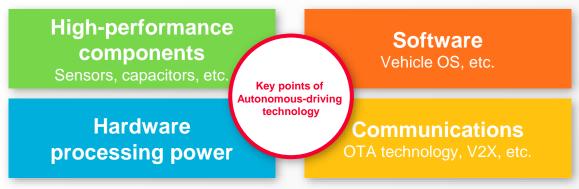
CO<sub>2</sub> sensor

NAONA

# The Future of Mobility



In addition to xEVs, autonomous driving technology is evolving



More importance for ECUs due to more data processing and increasing complexity of controls

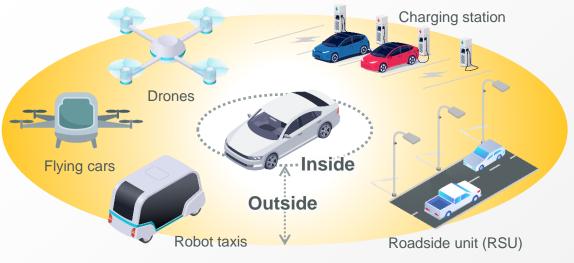
### Higher demand for electronic components

(e.g., number of in-vehicle MLCCs used)

(pcs)	ICE	Mild HV	Strong HV	PHEV	BEV
Powertrain	300 to 500	1,000 to 1,200	1,200 to 1,600	1,500 to 2,000	2,000 to 2,500
ADAS (Lv3/4/5)	3,000 to 5,000				
Safety	300 to 1,000				
Infotainment	500 to 2,500				
Other (non-safety)	500 to 2,500				

### **Outside the Vehicle**

Growth of mobility business through technological innovation for CASE (connected, autonomous, shared, and electric) vehicles



- As vehicles connect to society through communications technology, services based on vehicles, such as MaaS, will continue to grow.
- Robot taxis, micro-mobility and flying cars (eVTOLs) are emerging as new modes of transportation

#### Initiatives

- We will use our knowledge gained from the communication field to provide new value, including software and solutions.
- Search for opportunities outside of vehicles.

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# Initiatives in the Mobility Market

### Demands of the mobility market

- High-quality, highly reliable products that can withstand harsh environments
- From single-function components to proposing specific applications
   using modules
- Provide software and solutions

### **Expanded product lineup** Electrification **Autonomous** Multilayer ceramic High Temperature 6-DOF XYZ-Axis MEMS inertial capacitors Film Capacitor for (MLCCs) Automotive sensors Indiana I'm Connected V2X modules Metal power inductors

### Murata's value-creating strengths

- Technological capability to create highly reliable and high-performing products
- Supply capacity to mass-produce products with uniform quality
- Problem-solving capabilities, made possible by optimizing modularization technologies with our customers
- Deep knowledge of the communications field

### Understanding market technology trends

#### Using our global sales network and customer/partner capital

- Predicting needs based on the solid relationships with our customers
- Building relationships with a wide range of customers, such as OEMs and IC manufacturers

#### Vehicle disassembly activities

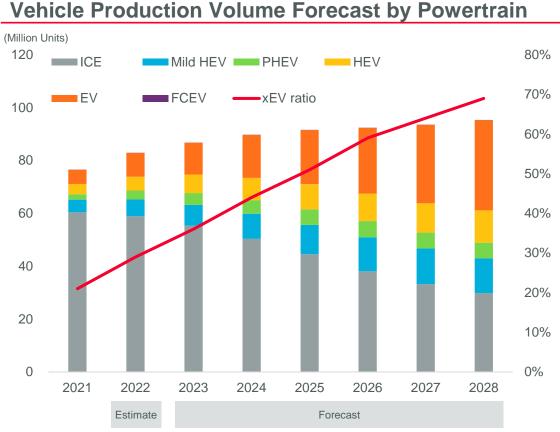
Vehicle disassembly: component demand, design concept Driving evaluation: required technology and level

- Feedback to R&D
- Improved demand forecast accuracy
- Enhanced proposal ability for customers



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## Automobile Volume Forecast

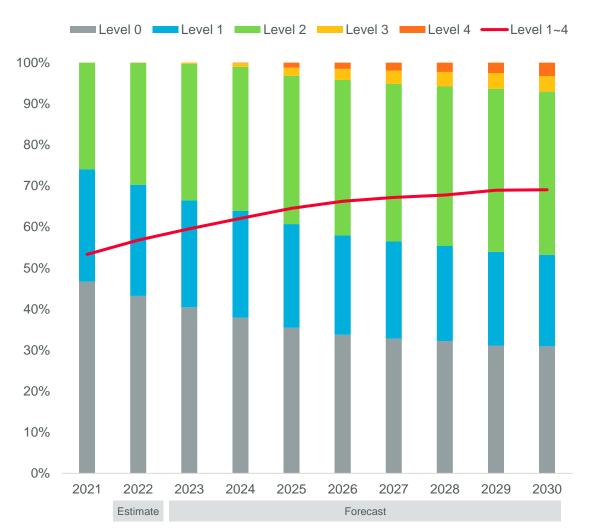


(Source: Estimated by Murata based on S&P Global Mobility)

#### MLCCs (pcs/by our research)

Conventional vehicles	HEV	EV
Autonomous driving Lv0	Autonomous driving Lv2	Autonomous driving Lv3
3,000	Min. 6,000	Min. 10,000

Autonomy Level Forecast, Share of Total



(Source: Estimated by Murata based on S&P Global Mobility)

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# Taking on Challenges: The Environment and Wellness

### **The Environment**

#### **Murata's contributions**

- Contributing to the decarbonization of society through the battery and power supply business
- Realizing environmental monitoring using modules and sensors
- Developing production knowhow for energy savings and renewable energy

### Examples of initiatives

Internal verification testing in preparation providing systems that combine solar panels + storage batteries + control software



Instability of power system due to the increase in distributed power supply



control software "efinnos" Storage batteries and control are becoming indispensable

Strengths of our control software, which is based on our knowledge cultivated in the battery and power supply business. Prepare for external sales.

## Wellness

#### **Murata's contributions**

- Providing compact, high-quality electronic components
- Providing solutions that combine Murata's technologies and ideas
- Producing innovation by pursuing safety, efficiency, and convenience through the use of the fundamental technologies that Murata has cultivated

### Examples of initiatives

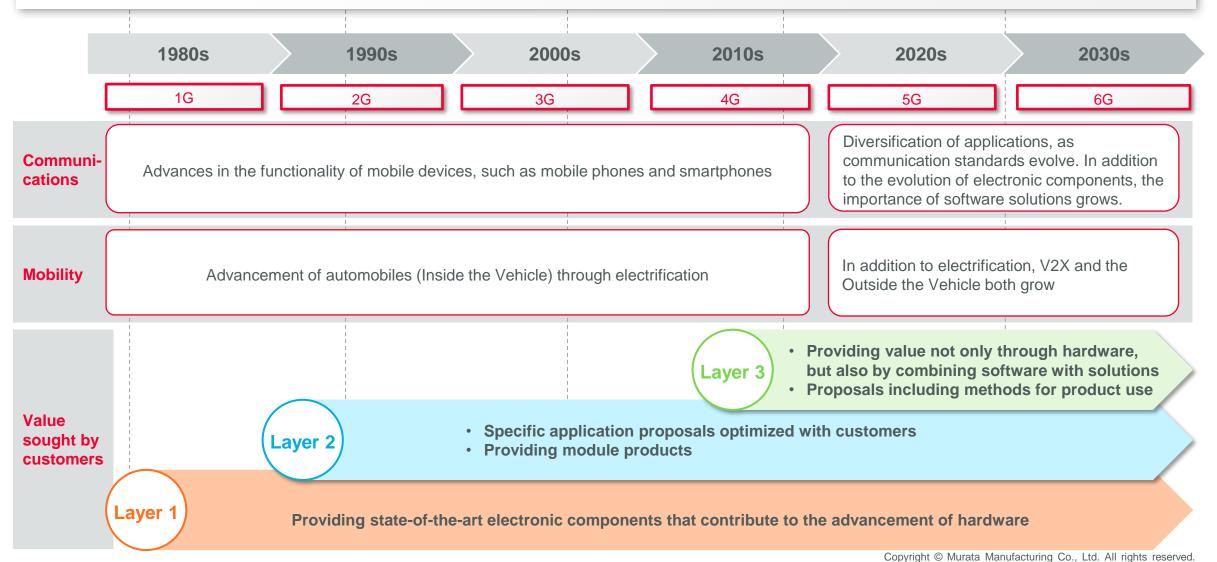


# Creating a system for providing the solutions needed in medical environments

Reached an agreement with Social Medical Corporation Seikoukai on a cooperative framework to develop equipment that addresses the needs of medical environments

# Reason for Working on the 3-Layer Portfolio

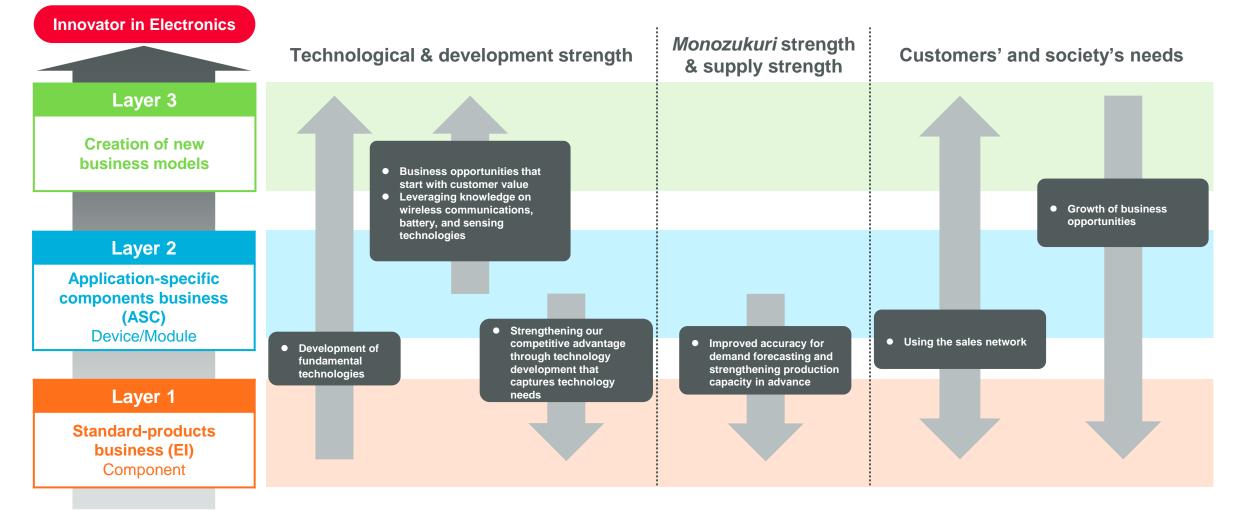
### Transforming our business model in line with changes in customer needs and technological innovation



# Synergy among the 3-Layer Portfolio

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- Until now, synergy between layers 1 and 2 has supported Murata's competitive advantage as well as product and technology innovation.
- As the value sought by customers undergoes tremendous change, we will achieve further growth through the synergy among the three layers.
- An organizational culture that values coordination and cooperation will support the synergy among the 3-layer portfolio. Strengthening our human capital will be also essential.

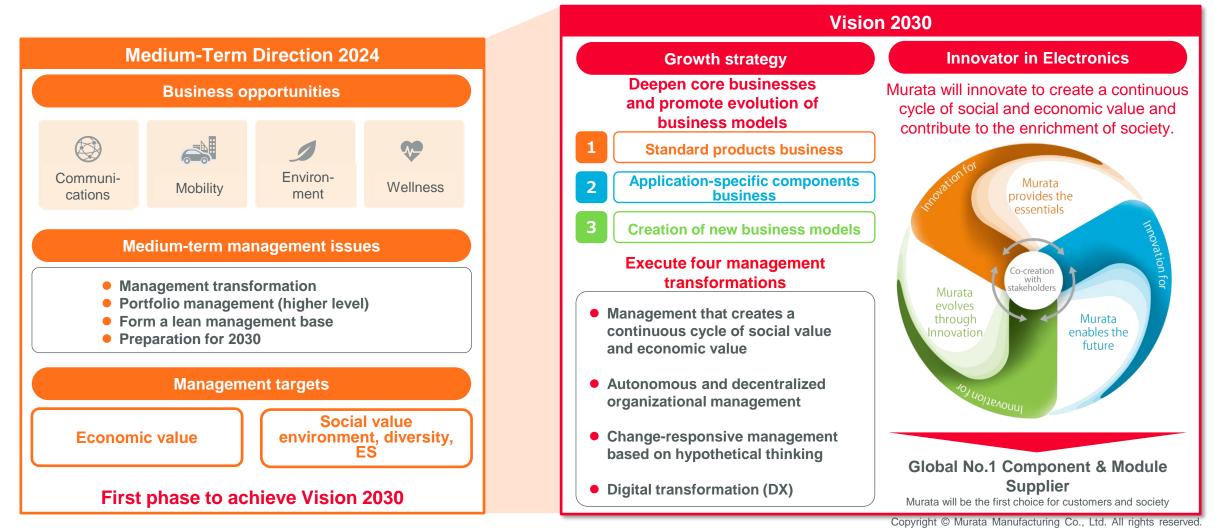


# 02

# Vision 2030 and Medium-Term Direction 2024

# Vision 2030 and Medium-Term Direction 2024

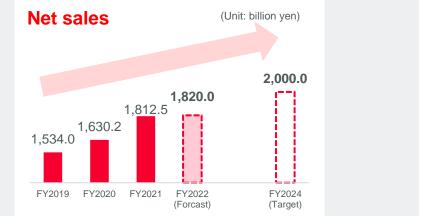
- To continuously increase corporate value, we established Vision 2030 to indicate our long-term direction.
- Medium-Term Direction 2024 covers three years that are vitally important to creating sustained growth for 2030 and beyond.
- Make steady preparations by backcasting from environmental changes viewed from a long-term perspective



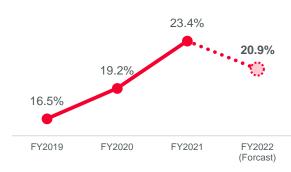
# Progress toward Economic Value Goals

	FY2021	FY2	FY2024	
	Actual	Forecast (Oct. 2022)	YoY (vs FY2021)	Targets
Net sales (JPY)	1,812.5 billion	1,820.0 billion	+0.4%	2,000.0 billion
Operating income ratio	23.4%	20.9%	–2.5 pt.	20% or higher
ROIC (pre-tax basis)	22.6%	18.7%	–3.9 pt.	20% or higher

\* ROIC (pre-tax basis) = Pre-tax operating income / Average invested capital at the beginning and end of the period(=Net fixed assets[book value] + inventories + accounts receivable-trade – accounts payable-trade)



### Operating income ratio



#### **ROIC (pre-tax basis)**



#### **Net sales**

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Although the weaker yen has had a positive effect on sales, the company plans to remain flat from the previous fiscal year due to a decline in demand caused by a decline in production of smartphones and PCs.

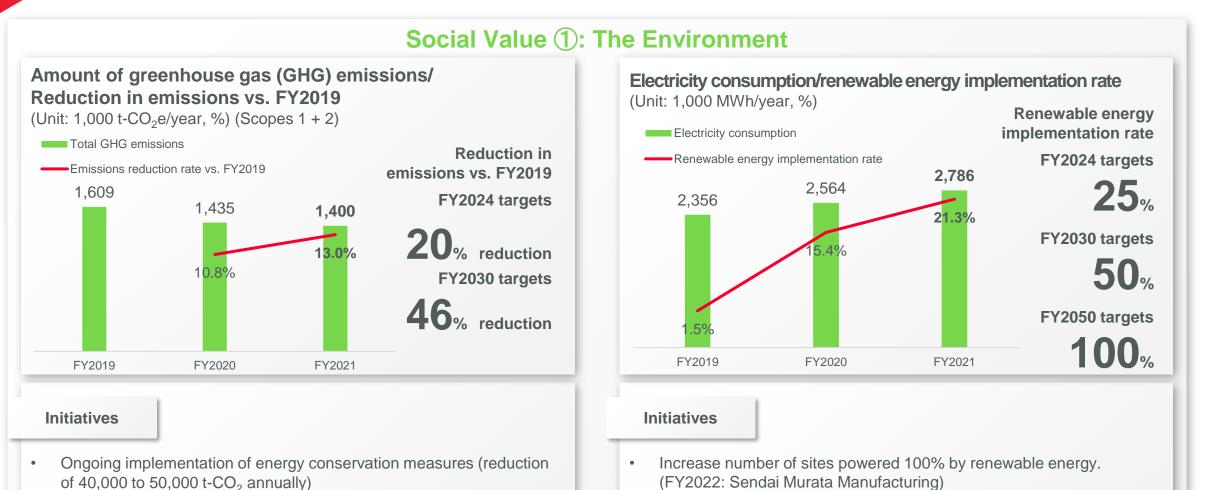
Operating income ratio

Profit decreased from the previous fiscal year due to a drop in the operation rate, although profit increased due to the weaker yen.

#### **ROIC (pre-tax basis)**

Expected to deteriorate due to a decline in operating profit against an increase in invested capital due to an increase in inventories and property, plant and equipment.

# Progress toward Social Value Goals ①



- Began operation of internal carbon pricing system and sustainable investment promotion system
- Acquired SBT certification. Set Scope 3 GHG reduction target. Scope 3: By FY2030, reduce by 27.5% vs. FY2019 (WB2.0°C level)

- Began investigation of Japan's largest renewable energy procurement trial using a virtual PPA
- Entered into contract with Chugoku Electric power to purchase green energy and more

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## Progress toward Social Value Goals 2

## Social Value 1: The Environment

Sustainable resource usage rate* <sup>1</sup>	Resource recovery rate*2
FY2024: 1% <sup>*3</sup>	FY2024: 5% <sup>*3</sup>
FY2030: 25%	FY2030: 50%
FY2050: 100%	FY2050 <sup>°</sup> : 100%

- \*1 Rate of use of sustainable resources: Rate of use of resources with lower risk of depletion that can be used sustainably by building a recycling scheme, etc. (Resources that have risks of depletion: Ag, Ni, etc.)
- \*2 Resource recovery rate: Rate of Murata's outputs (emissions) recycled as resource
- \*3 Target at FY2024 indicates the improvement range from the current state. FY2021 figures are currently being tabulated

#### Initiatives

#### **Closed-loop recycling of PET film**

Became the first company in the electronic component manufacturing industry to successfully create a closed-loop recycling system for polyethylene terephthalate (PET) film used in the manufacturing process for forming dielectric sheets for multilayer ceramic capacitors (As of May 2022, own research)



### Social Value 2: Diversity

Percentage of overseas indirect employees<sup>\*4</sup> with experience working at other sites

> FY2021: 3% FY2024: 7% FY2030: 10%

\*4 Overseas local staff excluding employees from Japan

#### Initiatives

- Provided diverse dispatching for employees going overseas
- Expanded and enriched predispatch training and strengthened support for employees being sent overseas



### Social Value 3: ES\*5

Positive employee engagement response rate

FY2021: 68% FY2024: 70% or higher FY2030: 76% or higher

\*5 ES(Employee Satisfaction):every employee achieves satisfaction and continuing growth through the performance of their work duties.

Issues and initiatives

#### Issue

Actions for employees closely related to manufacturing sites



- Implement workshops and training for department heads
- Strengthen dialogues with employees working in the field
- Ongoing review of workstyles

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# Medium-Term Direction 2024 Capital Allocation Policy

- Continue growth investment in layers 1 and 2, and steadily create cash flow
- Position long-term environmental investment, acquisition of technologies, IT infrastructure improvement, etc., as strategic investments and actively pursue them
- Increase shareholder returns while maintaining a strong financial foundation

### FY2022-FY2024 cumulative (Unit: billion yen)



# Effective resource allocation and shareholder returns

Based on the capital allocation policy
 Growth investments focused on ROIC and growth

- Implement strategic investments in preparation for the future
- Shareholder returns that can realize a minimum DOE of 4% in line with a dividend payout ratio of 30% as the guideline
- Flexible acquisition of treasury stock

### **Sustained growth**

- Management that creates a continuous cycle of social value and economic value
  - Economic value: Net sales ¥2,000 billion, Operating income ratio 20% or higher, ROIC (before tax) 20% or higher
- Social value: the environment, diversity, ES

### **Strong financial foundation**

- Secure credit lines from financial institutions
  - Cash reserves on an appropriate level

- Operate with a cash reserves turnover of 2.5 to 3.5 months as the guideline

# Medium-term management issues Portfolio management (higher level)

03

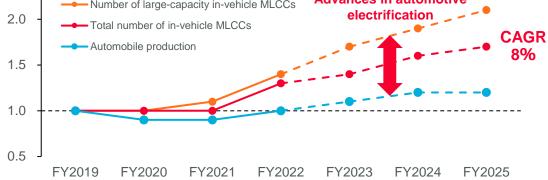


To realize medium- to long-term growth, we believe it will be essential to deepen core businesses and promote the evolution of business models. That is why we are working to solve issues faced at each layer and striving to take our 3-layer portfolio management to a higher level.

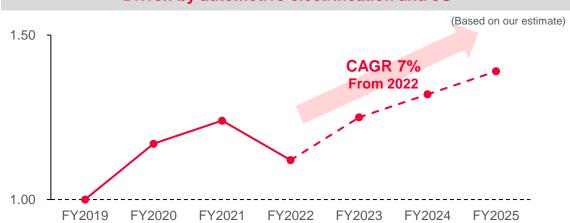
	Sales classification	Issues	Direction taken
Layer 1	Capacitors Inductors/EMI filters	<ul> <li>Expand and reinforce production capacity to respond to stronger demand</li> <li>Maintain and improve our competitive advantage, such as technological strengths</li> <li>Improve business efficiency to further bolster our business foundation</li> </ul>	<ul> <li>Expand and reinforce production capacity</li> <li>Strengthen cutting-edge technologies</li> <li>Improve business efficiency</li> </ul>
Layer 2	High frequency devices and communications modules Battery and power supply Functional devices	<ul> <li>Develop technologies that differentiate us from our competitors</li> <li>Completely standardize processes and materials, promote mass customization</li> <li>Strengthen financial position of businesses with low profitability</li> </ul>	<ul> <li>Strengthen differentiated technologies</li> <li>Improve profitability and establish a healthy portfolio</li> </ul>
Layer 3	Others	<ul> <li>"Creation of new business models" from a long-term perspective</li> <li>Build up successful cases with the aim of becoming business mainstays in 2030 and beyond</li> </ul>	<ul> <li>Search for fields where we can leverage our strengths</li> <li>Implement mechanisms for creating ideas</li> </ul>

# [Layer 1] Expand and Reinforce Production Capacity

# In-vehicle MLCCs market forecast (quantity basis) Trend of automotive electrification remains unchanged. Large-capacity components especially are increasing rapidly. (Based on our estimate) Advances in automotive



### Market forecast for inductors/EMI filters (quantity basis)



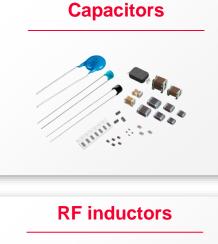
#### Driven by automotive electrification and 5G

### Capital investment for growth in demand in the future





# [Layer 1] Strengthen Cutting-Edge Technologies



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- Small size and higher capacity
- High levels of reliability
- High temperature support
- Withstanding increased voltage, etc.

Miniaturization Low loss (high Q)

Strong currents

etc.

**Technology trends** 

### The power to read the future

- Our sales network, built by supplying products with strong market shares, and our connections with customers in a broad range of industries
- Coordination with our network among global sites
- Our robust technical support system



#### The power to give shape to needs

- Vertically integrated production system
- Our unique platform and core technologies
- Advanced coordination among all of our functions, such as development and manufacturing

## These factors enable us to take the lead over competitors and create state-of-the-art products



#### **Power inductors**



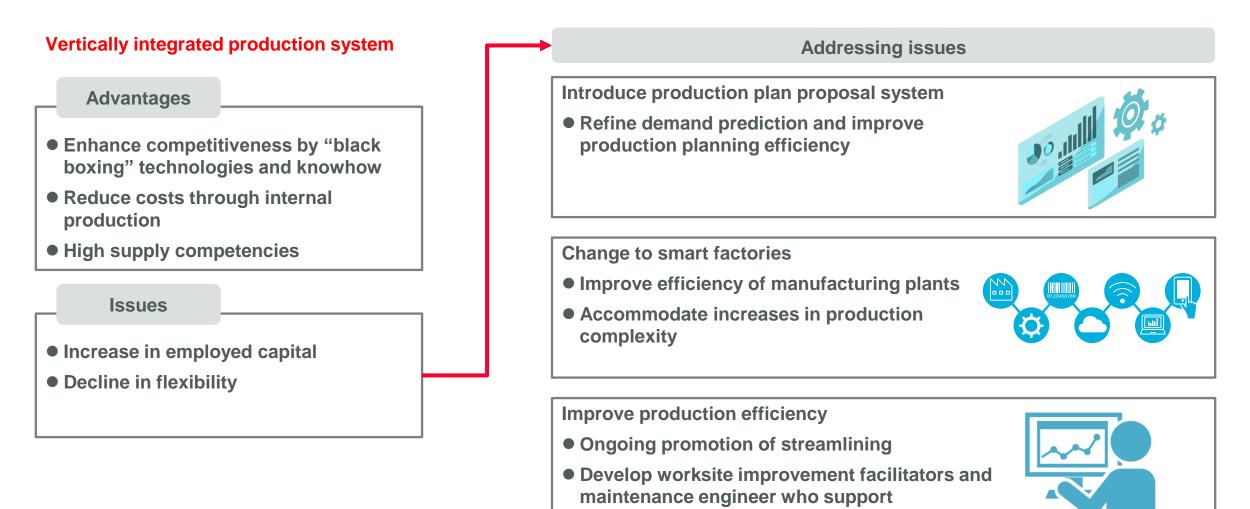
#### **Technology trends**

High temperature support,

- Small size and high
   frequency
- Strong currents
- Low profile, etc.

# [Layer 1] Improve Business Efficiency

- One of Murata's strengths is an integrated production system, which includes everything from raw materials to products.
- We will strive to improve business efficiency and raise ROIC by addressing issues with the integrated production system.



manufacturing plants

# 24 [Layer 2] Establish Differentiated Technologies

Category	Products/ technology	Application	Differentiated points	Initiatives for strengthening differentiated technologies
	XBAR technology		<ul> <li>Important technology for realizing high-speed wireless communications, such as 5G</li> <li>High performance characteristics in high frequency/wide bandwidths</li> <li>High degree of affinity with SAW filter technology</li> </ul>	<ul> <li>Development of 5G and next-generation Wi-Fi<sup>®</sup> standards</li> <li>Aim for adoption in a wide range of mobile devices, not limited to smartphones</li> </ul>
High frequency devices and communications modules	Digital ET technology	Used in mobile devices, such as smartphones and wearable devices	<ul> <li>Technology that contributes to energy savings in high-frequency circuits</li> <li>Synergy with Murata's high-frequency circuit design technologies</li> </ul>	<ul> <li>Apply to high-frequency circuits that support wide bandwidths communications systems, such as 5G and 6G</li> <li>Aim for adoption in a wide range of mobile devices, not limited to smartphones</li> </ul>
	Multi-layer LCP Product		<ul> <li>Superior high-frequency characteristics</li> <li>Stability due to low water absorption</li> <li>Highly multiple layers and flexibility for design freedom</li> </ul>	<ul> <li>Reinforce competitive advantage of characteristics for high-frequency regions, such as 5G and 6G</li> <li>Aim for adoption in a wide range of mobile devices, not limited to smartphones</li> </ul>
Functional devices	MEMS sensors	Used in the automation of mobility, such as automobiles and construction/ farming equipment	<ul> <li>High sensitivity, high accuracy, robustness, reliability and low noise level achieved with Murata's unique 3D-MEMS technologies</li> <li>Function safety design and customer system support for state-of-the-art autonomous driving systems</li> </ul>	<ul> <li>Aim to expand business in the autonomous driving market, which is expected to grow in the future</li> <li>Aim to become a sensor supplier that is essential for vehicle control in the increasingly diverse mobility market</li> </ul>
Energy power	FORTELION	Used in in-house consumption storage batteries	<ul> <li>High output</li> <li>Safety, long life, and high temperature characteristics</li> <li>Packaging technology for impact resistance and miniaturization</li> <li>LFP(Lithium Iron Phosphate)</li> </ul>	<ul> <li>Leverage Murata's unique materials technology and ensure competitive advantage</li> <li>Create environmental business through synergy with other businesses</li> <li>Copyright © Murata Manufacturing Co., Ltd. All rights reserved.</li> </ul>

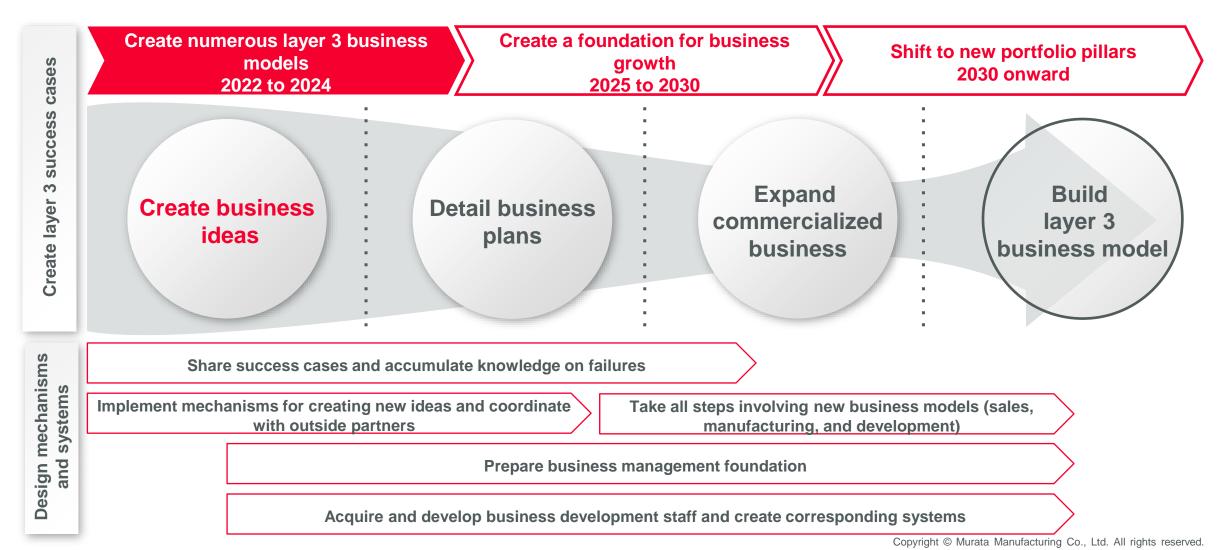
# [Layer 2] Improve Profitability and Build a Healthy Business Portfolio

- Introduce a business evaluation model based on growth potential and ROIC, review and revise business portfolio
- Shift portfolio to fields with high growth potential where Murata's strengths can be leveraged

Target field	Initiatives		Future direction
Lithium-ion secondary battery	Contract business involving laminated type batteries for smartphones	-	<ul> <li>Focus on high-capacity cylindrical batteries for power tools, etc.</li> <li>Build a business foundation for businesses that make environmental contributions</li> </ul>
Connectivity modules	Review and revise smartphone- oriented business structure		<ul> <li>Focus on in-vehicle and IoT-oriented business, promote sales growth of modules that use in-house technologies to meet millimeter wave, UWB, and other communication standards</li> <li>Emphasize added value from super small modules +α</li> </ul>
Power supply modules	<ul> <li>Sell off custom power supply business for office equipment</li> <li>Conduct M&amp;As to reinforce differentiated technologies (high efficiency, high power density, etc.)</li> </ul>		<ul> <li>Focus on low power and high power fields</li> <li>Expand business aimed at data centers and servers</li> </ul>

# [Layer 3] Search for Fields Where We Can Leverage Our Strengths

- Under Medium-Term Direction 2024, we will identify the fields where we can leverage Murata's strengths.
- In 2030, as layer 3, we aim to achieve sales of ¥100.0 billion.



# [Layer 3] Implement Mechanisms for Creating New Ideas

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To promote innovation, we will create technology displays that enable us to show our technologies to customers and partners, and we will promote knowledge collaboration outside our company.

Initiatives	Overview	Aims	
KUMIHIMO Tech Camp with Murata	Through this project, we will provide Murata products to start-ups and solicit ideas for new products and services, then, together with our partner companies, we will provide support for everything from prototype production to mass-production and sales support in order to commercialize these ideas.	<ul> <li>Increase awareness of Murata's highly reliable, highly accuracy sensor devices and other products</li> <li>Work together with start-ups to provide support for the market launches of new products and services, thereby promoting the creation of new business</li> </ul>	
MURATA MIRAI MOBILITY	Experience-based facility for introducing Murata's solutions and technologies for the in-vehicle system market	<ul> <li>Reinforce external collaborations, such as technology exchange</li> <li>Reinforce collaborations with research and development sites</li> <li>Create industry-leading, innovative products and technologies</li> </ul>	
Murata Interactive Communication Space	A facility that promotes knowledge collaboration. Visitors can experience Murata technologies and products that are connected to the technologies and applications of the future.		
Acquire the seeds of new business through venture capital (VC) funding	We will invest in VC-funded companies in Japan and overseas. We will collect information about cutting-edge products from companies, such as start-ups around the world, and search for the seeds of new business.	<ul> <li>New commercialization of Murata technologies</li> <li>Take on the challenges of new business fields, such as drones, healthcare, storage batteries, and services</li> </ul>	

# [Layer 3] Examples of Initiatives

### PIECLEX

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New business and partner company that combines with the strengths of Murata



Murata and Teijin Frontier have jointly developed PIECLEX, the world's first piezoelectric fabric that generates electrical energy and is antimicrobial when motion occurs.



Acquiring new capabilities through business tie-ups has made commercialization possible

### Worker safety monitoring system

New business that helps to resolve customers' problems and provide more experiential value



Together with another company, we have developed a "worker safety monitoring system" that uses sensor devices attached to a helmet to monitor bioinformation and surrounding environmental conditions (work environment) in real time.



Linking the resolution of customers' problems and experiential value to business

### **Traffic counter system**

New business that leverages data to help resolve social issues



This system leverages communication and power technologies to collect traffic volume data. Through this business, we are establishing technologies, collaborating with local companies, and creating a platform of extensive knowledge on certification procedures and more.



## We will apply this platform to other businesses as well, expanding our data business

# Medium-term management issues Form a lean management base Strengthen human capital

04

# Fundamental Approach to Human Capital

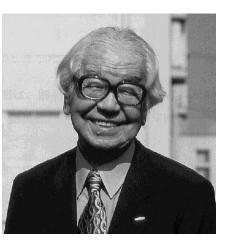
- Murata's human capital: "A company is its people, and it's people who are at the core of value creation."
- We emphasize that employees, with which the Murata Philosophy resonates, can achieve satisfaction and continuing growth, then build trust and cooperate with others to demonstrate collective strength, in this way creating new innovations.
- Employees share the same objectives and respond to the changing business environment.

## **Murata Philosophy**

# We contribute to the advancement of society

by

enhancing technologies and skills applying scientific approach creating innovative products and solutions being trustworthy and, together with all our stakeholders, thankful for the increase in prosperity.



Founder Akira Murata

### Murata's human capital strengths developed over years of practicing the Murata Philosophy

**Global penetration of Murata Philosophy** 

Employees who sympathize with the Murata Philosophy and

sincerely practice it

CS\* and ES\* as key values

An organizational culture that maximizes potential of diverse

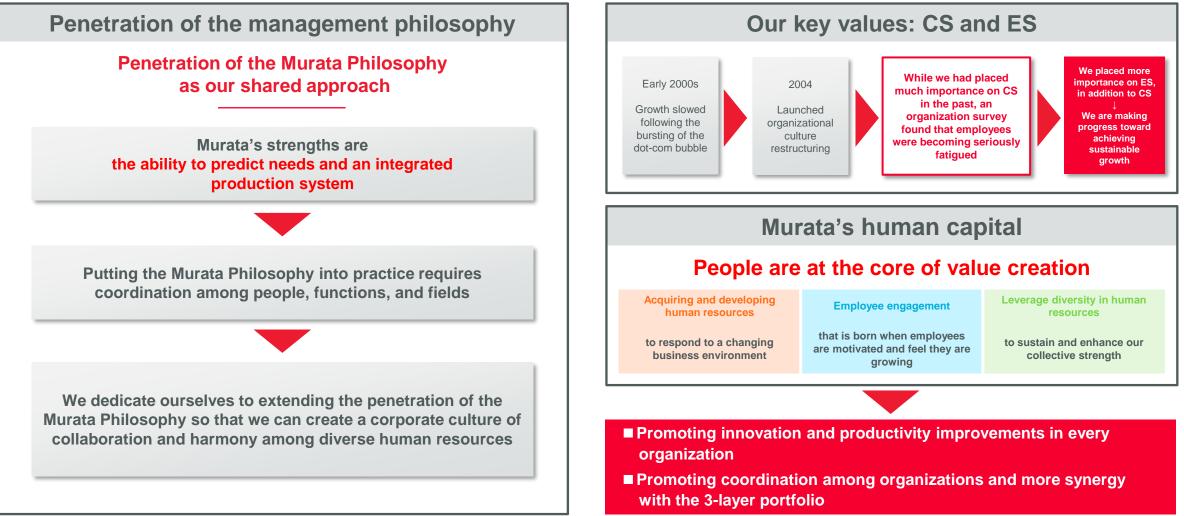
individuals and helps their collaboration

A corporate culture that values innovation

<sup>\*</sup> CS (customer satisfaction): Continuing to create and provide value that is recognized by the customer. \* ES (employee satisfaction): Every employee achieves satisfaction and continuing growth through their work.

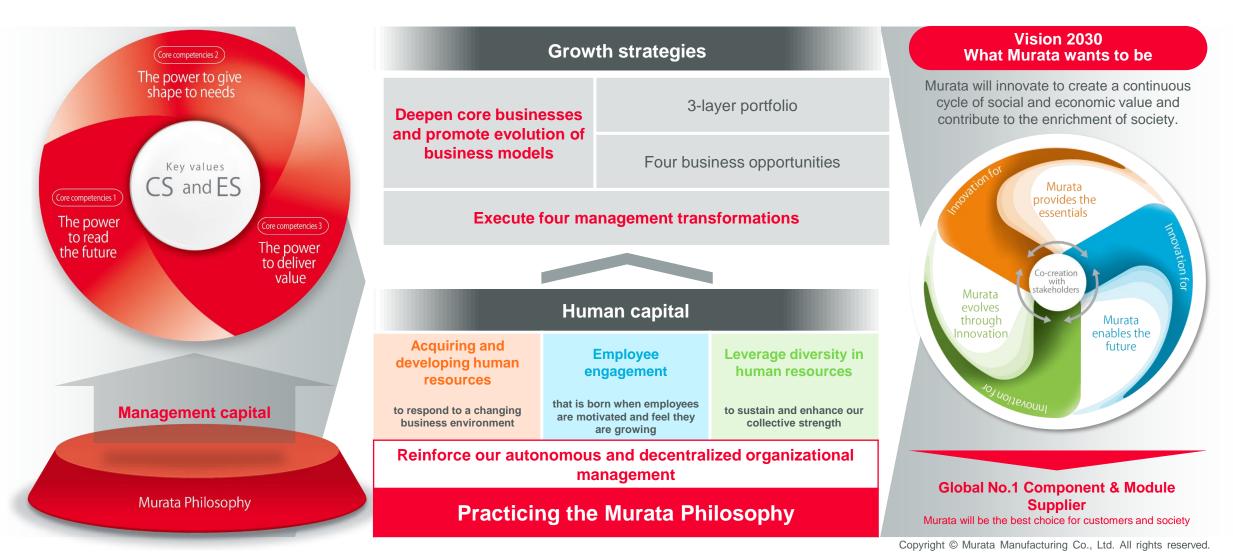
# Our Cherished Beliefs

- When managing Murata, we strive to have everyone share and implement the Murata Philosophy, which serves as a compass that directs the actions of management and of each and every employee.
- Our key values are CS and ES, which came up when our business performance was slumping in the early 2000s, and we work to improve our competencies.



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Led by our belief that a company is its people, and it's people who are at the core of value creation, we aim to achieve continuous growth by strengthening our human capital and linking them to our management strategy.





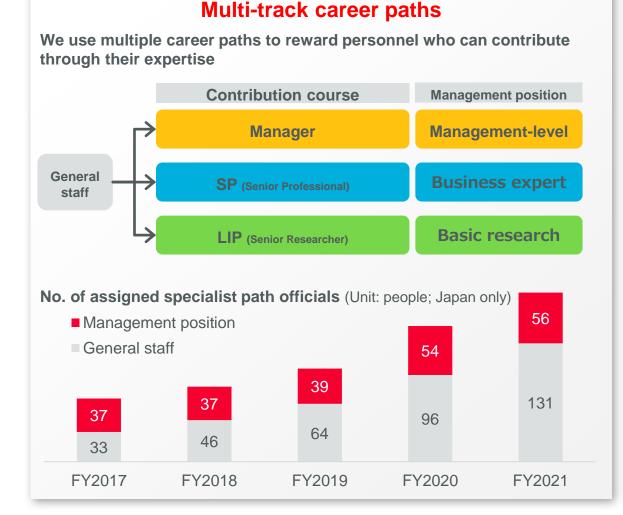
Under Medium-Term Direction 2024, we intend to strengthen our human capital by taking action listed below

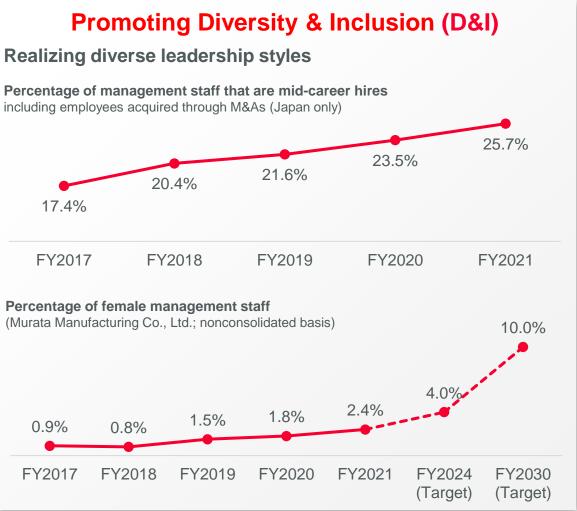
	Issues	Actions	
Leverage diversity in human resources to sustain and enhance our collective strength	<ul> <li>Enable all employees to gain wide-ranging, borderless experience.</li> <li>Enhance the strength of organization through collaboration and cooperation among diverse human resources.</li> </ul>	<ol> <li>Promote global rotation of employees</li> <li>Acquire diverse personnel with a variety of experience and leverage the diversity</li> <li>Provide a variety of career paths</li> <li>Promote women's participation</li> </ol>	
Employee engagement that is born when employees are motivated and feel they are growing	<ul> <li>Enable employees to act autonomously for overall optimization.</li> <li>Ensure that employees can work in safety and peace of mind.</li> </ul>	<ol> <li>Use global survey to improve the organizational culture</li> <li>Encourage conversation between top management and employees</li> <li>Establish employee-friendly work environments and systems</li> <li>Provide safe and secure workplaces and practice health management</li> </ol>	
Acquiring and developing human resources to respond to a changing business environment	<ul> <li>Acquire, develop, and deploy human resources to achieve Vision 2030.</li> <li>Prepare management for the future.</li> </ul>	<ol> <li>Attracting and acquiring human resources</li> <li>Develop human resources</li> <li>Continual training of candidates for next generation of management</li> <li>Acquire and develop employees for DX (digital transformation)</li> </ol>	



## Initiatives for Leverage Diversity in Human Resources: Multi-track Career Paths and D&I

We are creating environments where employees with diverse experience and ways of thinking respect each other and work together, leveraging their full abilities.

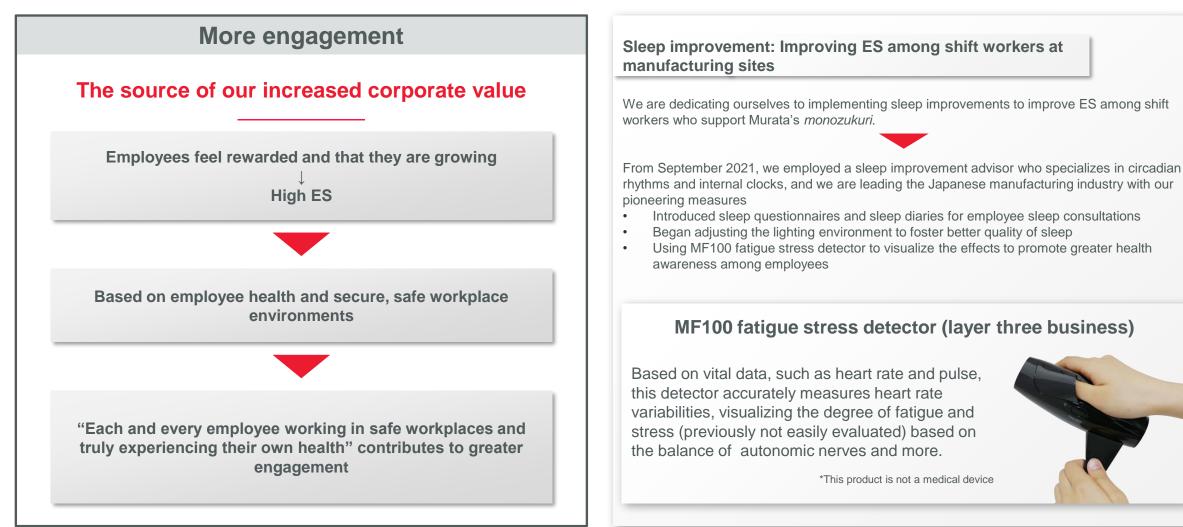




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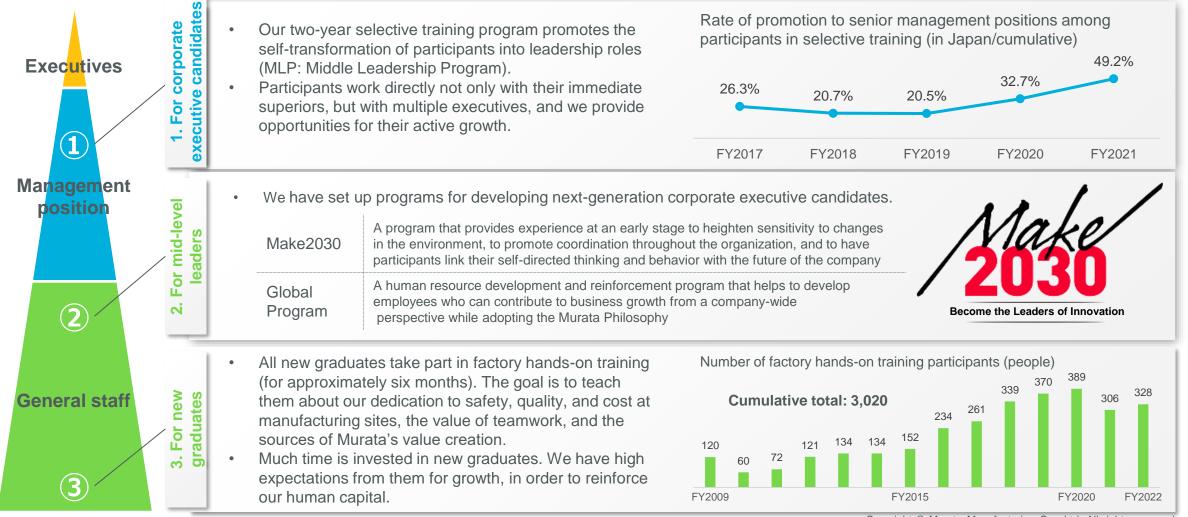
# Initiatives for Employee Engagement: Health Management

As part of our initiatives, we are preparing secure, safe workplace environments and actively promoting health management.



# Initiatives for Acquiring and Developing Human Resources: Level-Specific Training Program

- During their first year with the company, and as members of the manufacturing industry, employees take part in factory hands-on training to learn how interesting *monozukuri* is and gain an understanding of areas of dedication at manufacturing sites.
- We have developed level-specific training programs for nurturing candidates who will become corporate executives in the future.



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## Initiatives for Acquiring and Developing Human Resources: Developing *Monozukuri* Employees

For Murata, as a manufacturer, manufacturing sites are the wellspring of value creation, so the development of *monozukuri* employees is an important task.
 Murata devotes special attention to developing *monozukuri* employees for worksite improvement as well as maintenance engineer who are responsible for equipment maintenance.

#### The human resources that support *monozukuri* sites

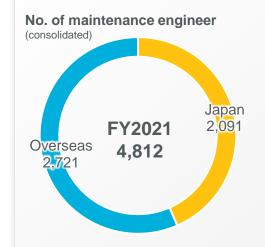
### Worksite improvement facilitators

- Worksite improvement employees, who specialize in improvement technologies (*kaizen*) that support our competitiveness in *monozukuri*, are primarily manufacturing supervisors and workers on the front lines at manufacturing sites. They are remarkable for their implementation of scientific management techniques and the fact that they steadily produce improvements.
- We focus on providing them with wide-ranging experience so that they develop diverse perspectives and skills.

#### Worksite improvement facilitators 1.716 ----Percentage overseas 1,501 18.8% 1,290 1,074 14.5% 887 11.0% 9.5% 7.7% FY2017 FY2018 FY2019 FY2020 FY2021

#### Maintenance engineer

- Maintenance engineer are essential for Murata's equipment-focused processes, as they help ensure that factories operate steadily and maintain supply capabilities, one of Murata's strengths.
- We write down and standardize maintenance skills, which take a lot of time to acquire, and reinforce our development of maintenance engineer through maintenance training rooms at our main production sites.





In the maintenance training room

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#### No. of worksite improvement facilitators (consolidated)

### **Cautionary Statement on Forward-looking Statements**

This report contains forward-looking statements concerning Murata Manufacturing Co., Ltd. and its group companies' projections, plans, policies, strategies, schedules, and decisions.

These forward-looking statements are not historical facts; rather, they represent the assumptions of the Murata Group (the "Group") based on information currently available and certain assumptions we deem as reasonable. Actual results may differ materially from expectations due to various risks and uncertainties. Readers are therefore requested not to rely on these forward-looking statements as the sole basis for evaluating the Group. The Company has no obligation to revise any of the forward-looking statements as a result of new information, future events or otherwise.

Risks and uncertainties that may affect actual results include, but are not limited to, the following:

- 1. Economic conditions of the Company's business environment, and trends, supply-demand balance, and price fluctuations in the markets for electronic devices and components
- 2. Price fluctuations and insufficient supply of raw materials
- 3. Exchange rate fluctuations
- 4. The Group's ability to provide a stable supply of new products that are compatible with the rapid technical innovation of the electronic components market and to continue to design and develop products and services that satisfy customers
- 5. Changes in the market value of the Group's financial assets
- 6. Drastic legal, political, and social changes in the Group's business environment
- 7. Other uncertainties and contingencies.

The Company undertakes no obligation to publicly update any forward-looking statements included in this report.