

## Notice Concerning the Long-Term Vision and the New Medium-Term Management Plan

May 22, 2024

TDK Corporation (hereafter, TDK) today announced its long-term vision and new medium-term management plan (FY March 2025-FY March 2027). TDK starts its new medium-term management plan with the long-term vision "TDK Transformation".

#### **TDK Transformation**

 $\sim$ Accelerating transformation for a sustainable future $\sim$ 

- Contribute to the transition towards a sustainable future by accelerating the transformation of society
  and advancements in technology enabled by electronic devices developed through leveraging cuttingedge innovation in materials, processes, and software technology.
- Become the No.1 partner growing alongside our worldwide customers by pursuing continuous "transformation".

The main initiatives and quantitative targets are shown as follows.

- Main Initiatives
  - Strengthen management focusing on cash flows
  - ➤ Enhance business portfolio management (Emphasizing ROIC)
  - Evolving Ferrite Tree (Strengthen Pre-financial capital\*)
  - \*Non-financial capital which will be converted to future financial value is named "Pre-financial capital" in TDK.
- Quantitative Targets (FY March 2027)
  - > Sales 2,500 billion yen (CAGR approximately 5%)
  - > ROIC 8% or higher
  - Operating profit margin 11% or higher
- Shareholder Return Policy
  - Dividend payout ratio 35% (Raised by 5% from our previous medium-term guideline)

Please refer to the attached document or TDK website.

Materials can be found at:

https://www.tdk.com/en/ir/ir\_events/strategy/20240522/index.html

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## **Attracting Tomorrow**



## **TDK Transformation**

to enhancement of enterprise value

# Long-term Vision & New Medium-term Plan

TDK Corporation
IR&SR Group
May 22, 2024

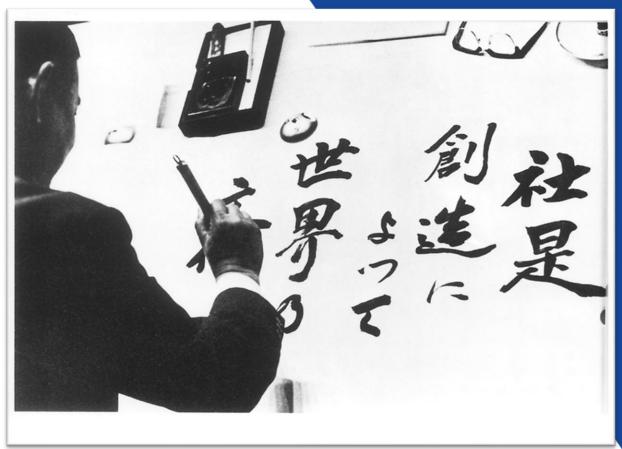




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## Long-term Vision





## My commitment as President & CEO



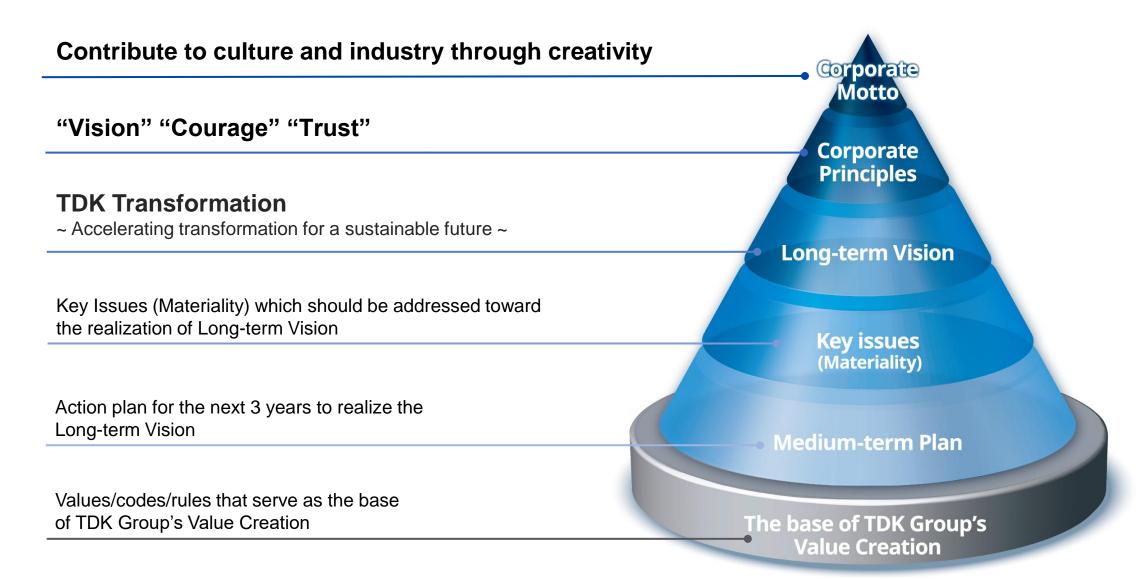


- We have formulated our vision of what we want to be 10 years from now (long-term vision). We have back-casted from our vision for 10 years to identify the path to enhancing our enterprise value.
- Based on our materials x processes x software technologies, we will become the No.1 partner for our world-wide customers and accelerate social transformation for a sustainable future.
- We will enhance our business portfolio management, increase the spread between ROIC and WACC, increase cash flows, improve capital efficiency, and strengthen business management to increase financial capital.
- We will evolve the Ferrite Tree and reinforce business management to increase pre-financial capital,
   which is the source of future cash flows.
- We will focus more on investor dialogue and investor relations.

#### **TDK Value Structure**







#### **TDK Transformation contains two our wishes**



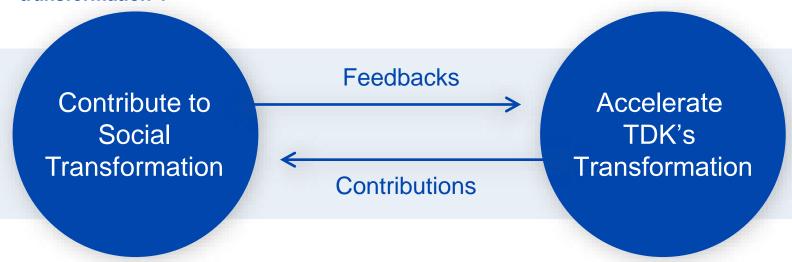


#### **Long-term vision**

## **TDK Transformation**

## **∼**Accelerating transformation for a sustainable future **∼**

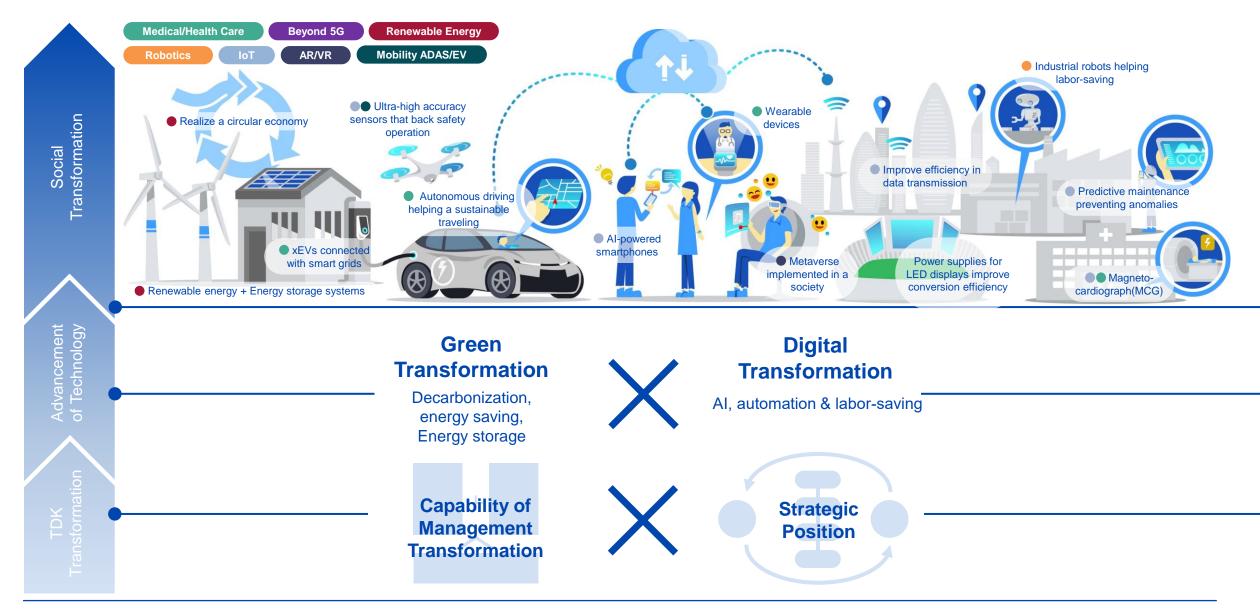
- Contribute to the transition towards a sustainable future by accelerating the transformation of society and advancements in technology enabled by electronic devices developed through leveraging cutting-edge innovation in materials, processes, and software technology.
- Become the No.1 partner growing alongside our worldwide customers by pursuing continuous "transformation".



## **Contribute to Social Transformation**





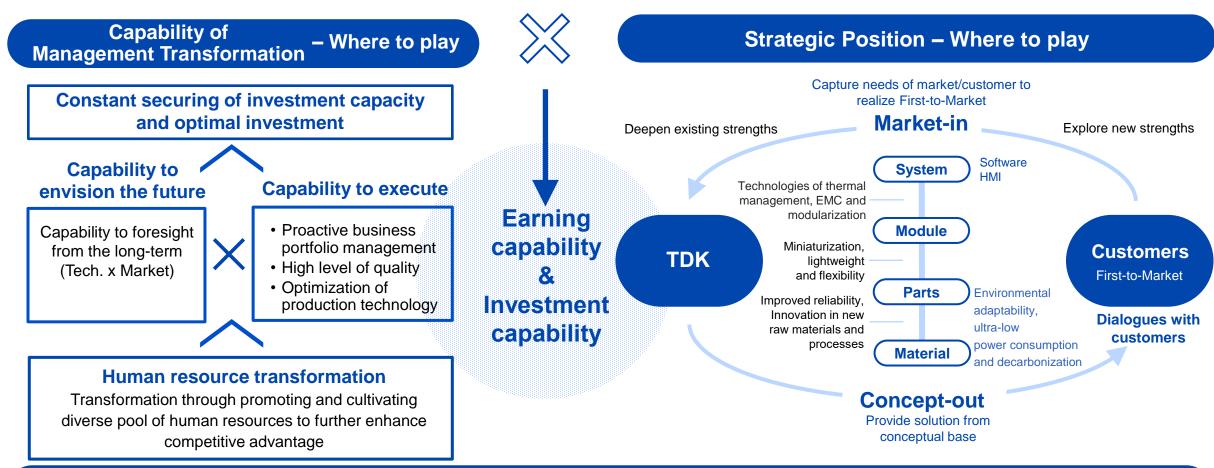


#### **Acceleration of TDK Transformation**





Contribute to the transition towards a sustainable society as the No.1 partner based on establishing leading position by
electronic devices developed through leveraging cutting-edge innovation in materials, processes and software technology
in organic growth and M&A.



TDK Venture Spirit, Ensuring empowerment and transparency, Functional equality, Respect for acquired companies, Cultures learning from each other on a global base, Integrating top-down and bottom-up approaches.

## **Defining Key issues (Materiality)**





 Key issues is set to realize long-term vision and enhance enterprise value through verbalization of sources of competitive advantage which have supported long-term growth.

#### Basic policy of key issues (Materiality)

#### Value creation and establishment of competitive advantage through business activities

## **Create customer value and build strong relationships**

- Build, maintain and deepen trust with customers
- Access in-depth sources of customer needs

## Contribute to social Transformation through R&D

- Continue commercialization of advanced technology
- Realize intellectual property investment and utilization that contributes to business

## Stabilize supply of high-quality products and increase production efficiency

- Maintain the capability to introduce products into market quickly and to ramp up mass production
- Improve predictability by sharing know-how
- Pursue zero defect and promote in-house production
- Maintain diversity in products, technologies and involved markets

#### Strengthening of the management foundation that envisions and realizes the future

## Transformation through promoting and cultivating diverse pool of human resources to further enhance competitive advantage

- Promote diversity, equity and inclusion through inclusive leadership practices
- Develop organizational capability to enhance innovation and efficiency
- Improve team member (employee) well-being and engagement

#### Advance group governance

- Evaluate the business portfolio continuously
- Empowerment & Transparency

## Address environmental and social issues

- Respect human rights
- Address climate change

# 2 Review of Previous Medium-term Plan





#### Review of the previous medium-term plan – Value Creation 2023 Attracting Tomorrow





- Achieved positive FCF after shareholder returns as a result of optimizing capital allocation in line with change of business environment.
- Several revenue sources following small capacity batteries have been developed in a certain level: Profitability of sensor application products, growth of passive components and transfer medium capacity batteries business to JVs.
- Issue: The undershooting of profitability targets.
  - ✓ Have the management emphasizing BizROA and cash flows penetrate still more.
  - Business growth with capital efficiency improvement, in particular passive components and sensor application products.
  - Address the turnaround businesses.

Targets and results in VC2023 KPIs			
	Targets FY3/24	Results FY3/24	
Net sales	¥2,000.0 bn	¥2,103.9 bn	
Operating profit margin (OPM)	12.0%	8.2%	
ROE	14.0%	7.9%	
FCF after shareholder returns	Profitability	¥52.9 bn	
Capex (over the three years)	¥750.0 bn	¥785.6 bn	

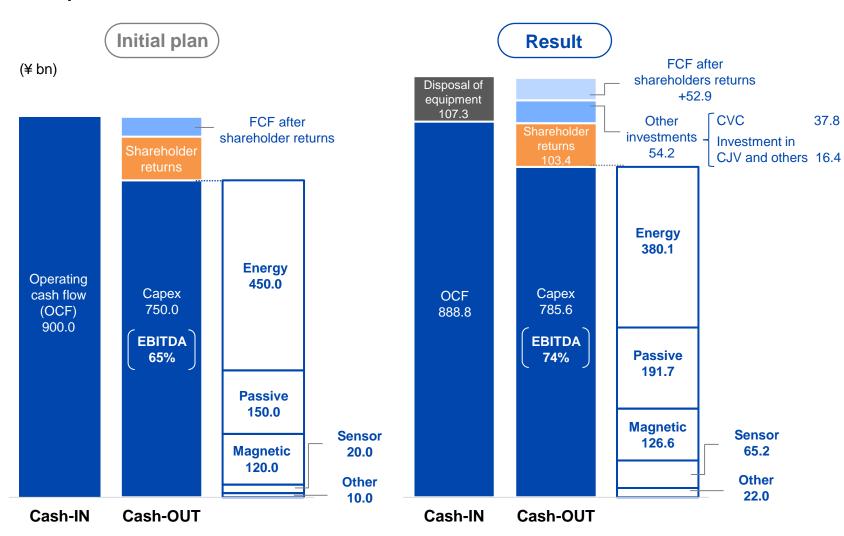
	Achievement	Issue
Passive Components	<ul> <li>Significantly increased production of products for automobiles, such as MLCCs</li> <li>Continuous developing high value-added products</li> <li>Productivity improved</li> </ul>	<ul><li>Accelerate developing new products</li><li>Optimization of manufacturing sites</li></ul>
Sensor Application Products	<ul> <li>Improved profitability, established surplus trend.</li> <li>Invested in increased production of TMR sensor</li> </ul>	Profitability improvement of the MEMS microphone business has been delayed
Magnetic Application Products	<ul> <li>Commenced mass production of next-generation technology MAMR</li> <li>Development progress in HAMR.</li> <li>Withdraw from the suspension application products business</li> </ul>	<ul> <li>Profitability of the HDD-related business deteriorated</li> <li>Profitability improvement of the magnet business has been delayed</li> </ul>
Energy Application Products	<ul> <li>Market share of small capacity batteries increased and profitability improved</li> <li>Manufacturing sites in India commenced</li> <li>JVs in medium-capacity batteries commenced full-scale operations and achieved profitability</li> </ul>	<ul><li>Accelerate developing new products</li><li>Optimization of manufacturing sites</li></ul>

## Improvement of capital efficiency remain challenges





Capital allocation in VC2023 (FY3/22 to FY3/24)



#### Financial guidance in VC2023

- Accelerate growth through inclined capital allocations in the rechargeable batteries, passive components and sensors businesses
- Strengthen financial discipline
- Secure long-term stable funds and optimize debt structure

#### **Achievements**

- Secure long-term stable funds
- Strengthen financial position

#### **Ongoing issues**

- Enhance business portfolio management
- Improve capital efficiency
- Strengthen shareholder returns

# New Medium-term Plan



## Position of the new medium-term plan





 The new medium-term plan is positioned as the plan to strengthen fundamental business to realize the Long-term Vision

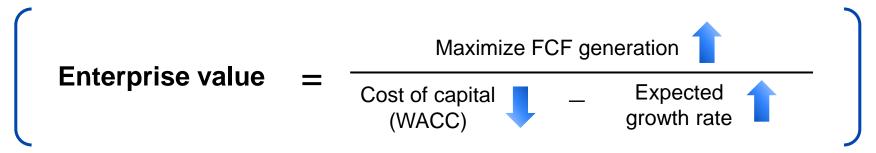
**Enhancement of Enterprise Value** Contribute to the transition towards a sustainable future Long-term by accelerating the transformation of society and **Vision** advancements in technology enabled by electronic **Back-casted from the** devices developed through leveraging cutting-edge long-term vision innovation in materials, processes, and software technology. Become the No.1 partner growing alongside our worldwide customers by pursuing continuous New medium-term plan "transformation". Strengthening fundamental business Previous medium-term plan Organic & inorganic Strengthening profitability of core growth Result business Balance of centripetal Diversifying sale resources Addressing turnaround and centrifugal forces Positive of FCF business Improving capability to generate FCF Strengthening business portfolio management Strengthening pre-financial capital FY3/21 FY3/24 FY3/27 FY3/33

## New medium-term plan: Key points





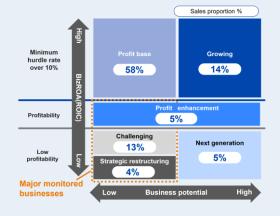
 To achieve what we want to be in the next decade, we are committed to strengthening management focusing on cash flows, enhancing business portfolio management, increasing pre-financial capital and engaging with investors.



#### **Key points**

Strengthen management focusing on cash flows

2 Enhance business portfolio management (Emphasizing ROIC)



**3** Evolve the Ferrite Tree (Pre-financial capital)



## Financial/Pre-financial KPIs





• Through enhancement of proactive business portfolio management, we aim to achieve KPIs that exceed plans.

			FY3/24	FY3/27 F	low we want to be in the medium-to long-term
<b>_</b>	Growth	Net sales [¥ bn] (CAGR)	2,103.9	2,500.0 (approx. 5%)	(10% or more)
nan		ROE	7.9%	10% or more	15% or more
cial i	Efficiency	ROIC (>WACC)	5.3% (<7.0%)	8% or more	12% or more
Financial indices		Operating profit margin(OPM)	8.2%	11% or more	15% or more
es	Financial	Shareholders' equity ratio	50%	50% level	
	soundness	D/E ratio	0.4x	0.3 - 0.4x	
P	KPIs	Team member engagement (TME)			
e-fir		Communication score	67pts.	75pts. or more	
Pre-financial indices		Response rate	80%	80% or more	
<u>න</u> :		CO <sub>2</sub> emission reductions* (vs. FY3/21)	42.9%	23.3%	42.0%

<sup>\*</sup>Note: CO<sub>2</sub> emission reductions = Targets of SBTi Scope1+2 CO<sub>2</sub> emission reductions, whose figures in FY3/24 is approximate.

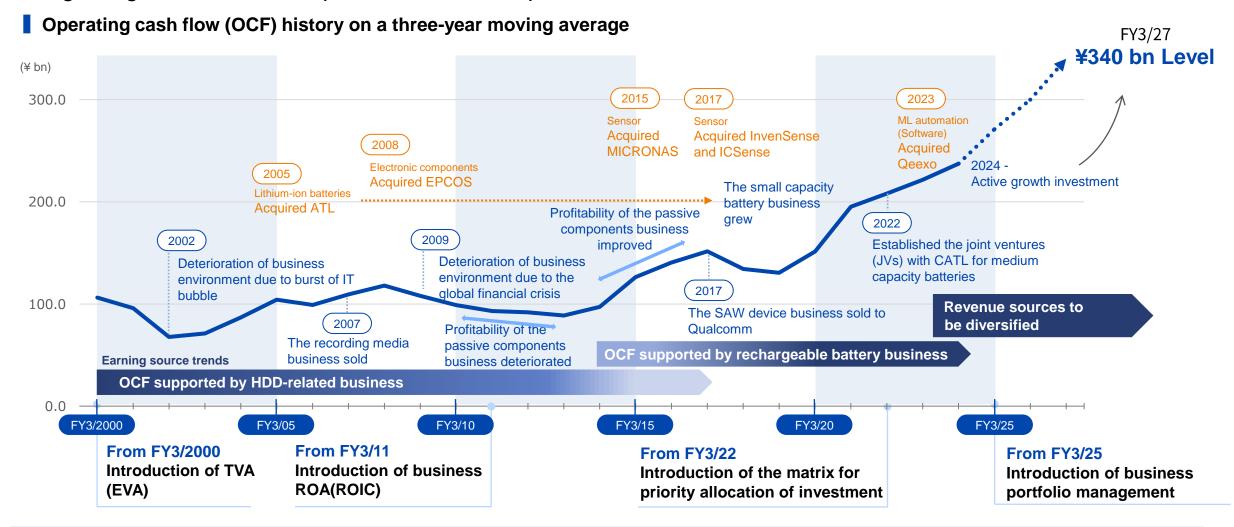
Exchange rate assumptions ¥144/US\$ ¥135/US\$ ¥135/US\$

## Aiming for operating cash flow growth





 We will improve cash flows over the medium- to long-term by enhancing our earning capability through organic growth, M&A, and proactive business portfolio transformation.

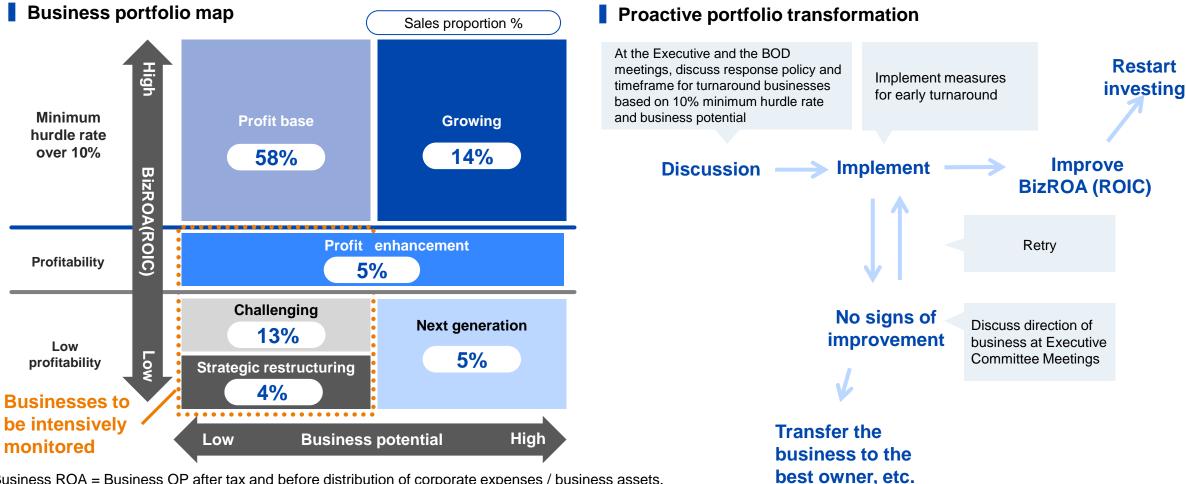


## **Enhancing business portfolio management**





- Have evolved from the previous double-axis investment allocation map to a double-axis business portfolio map.
- Appropriately address businesses that fall below the minimum hurdle rate and prioritize allocating capital into growth areas.



- Business ROA = Business OP after tax and before distribution of corporate expenses / business assets.
- The 10% minimum hurdle rate is calculated, considering the 7% corporate WACC and corporate expenses.

## (Reference) Examples of business portfolio management





#### Audio tape business

Divested at an appropriate time in line with the industry lifecycle.

#### Passive components(SAW devices) business

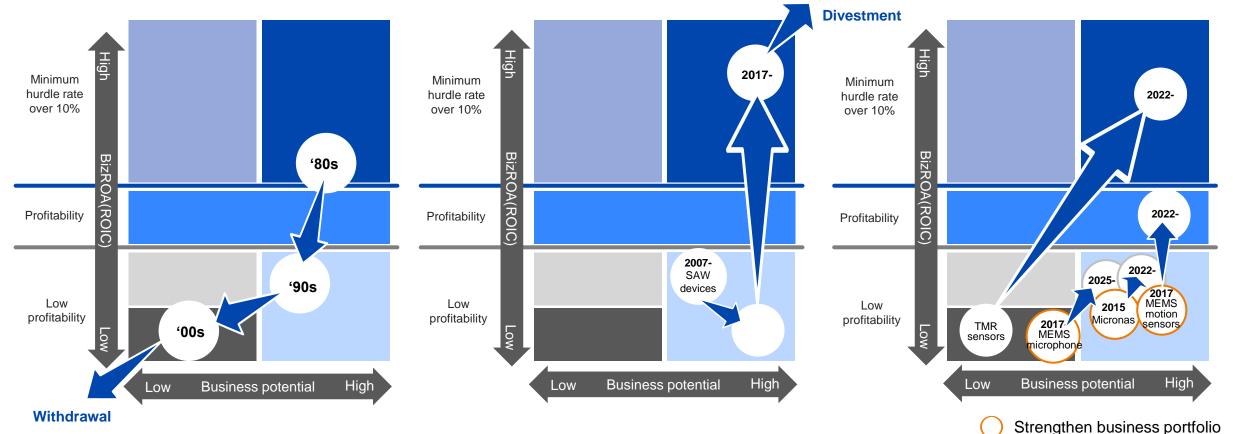
Increased added value and achieved turnaround by injecting processes technology after acquisition.

Subsequently divested from a best-owner perspective.

#### Sensor application products business

Applied magnetic and thin film technologies and developed the TMR sensor business.

Generated synergies by adding to portfolio and achieved turnaround through sales expansion.



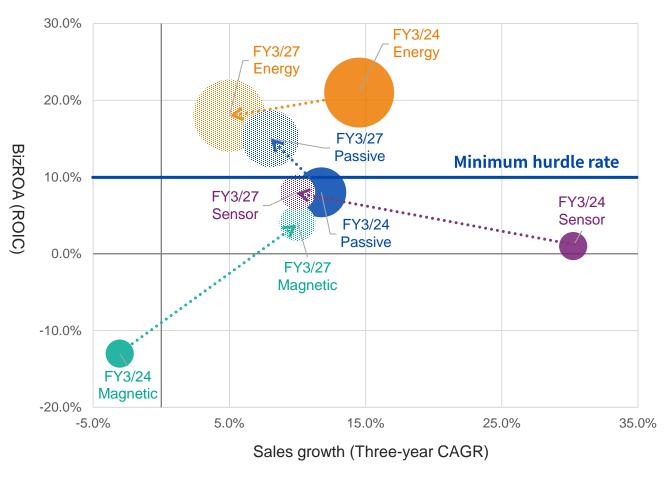
## **Business portfolio strategies**





• We will strengthen businesses with high profitability and capital efficiency to achieve higher operating profit margins and business ROA (ROIC).

#### Chart for growth and capital efficiency by segment



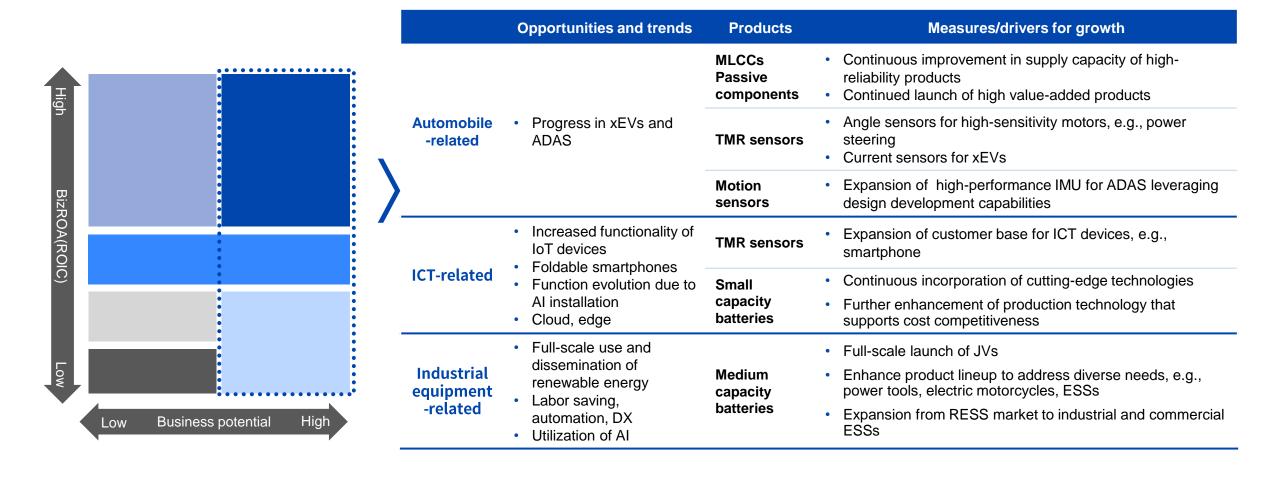
#### Net sales/BizROA by segment

(¥ bn)	FY3/21	FY3/24	FY3/27
Net sales (CAGR)	1,479.0	2,103.9	2,500.0 (5%)
Passive Components	407.1	565.6	CAGR 5-8%
Sensor Application Products	81.3	180.5	CAGR 8-11%
Magnetic Application Products	199.3	184.2	CAGR 8-11%
Energy Application Products	740.2	1,121.7	CAGR 2-5%
ОРМ	7.6%	8.2%	11.0%
BizROA (ROIC)	5.2%	5.3%	8.0%
Passive Components	_	7.7%	15.0%
Sensor Application Products	_	1.2%	8.0%
Magnetic Application Products	_	-12.2%	4.0%
Energy Application Products	_	21.5%	18.0%

## **Growth strategies for priority growth businesses**







## Financial strategies to enhance capital efficiency





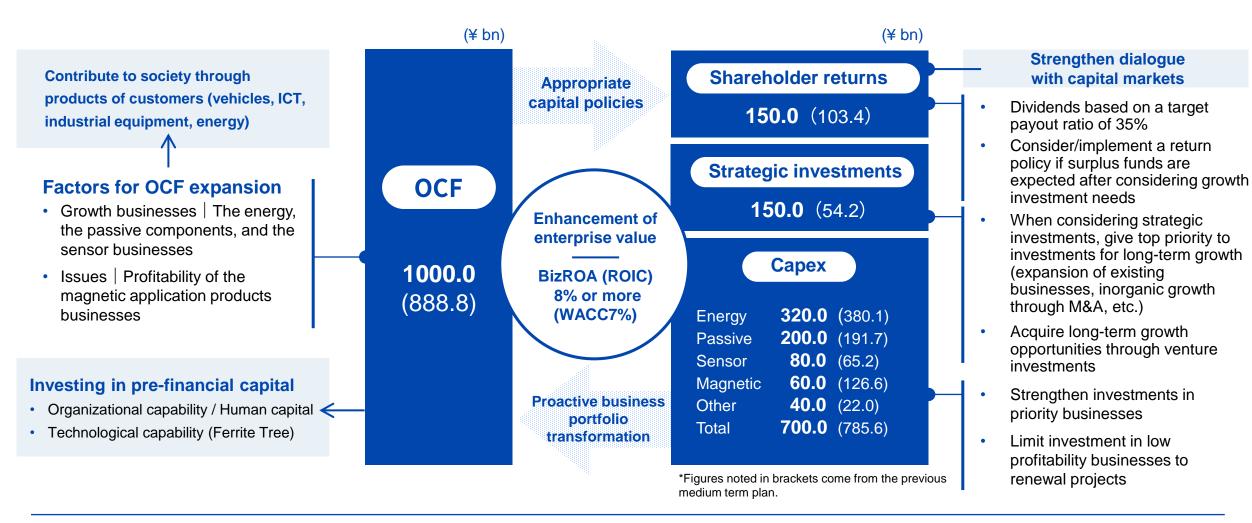
Three directions	Priority measures	
Enhance business portfolio management and BizROA (ROIC)	<ul> <li>Improve BizROA (ROIC) of businesses that fall short of the 10% minimum hurdle rate and determine the direction of the business.</li> </ul>	
Strengthen growth investment	<ul> <li>Determine areas for growth investment (e.g., further growth investment in existing businesses, potential M&amp;A)</li> <li>Prioritize allocation of FCF after returns to M&amp;A and growth investments (Surplus funds will be allocated to share buybacks and other forms of shareholder return.)</li> </ul>	
Optimize balance sheet structure and reinforce shareholder returns	<ul> <li>Achieve the optimal balance sheet structure based on financing needs to support the growth strategy</li> <li>Pay dividends based on a target dividend payout ratio of 35%</li> </ul>	

## Capital allocation plan (FY3/25 to FY3/27 accumulated)





 We will strengthen sustained cash flow generation and achieve an optimal balance sheet structure by allocating FCF after shareholder returns to growth investments.



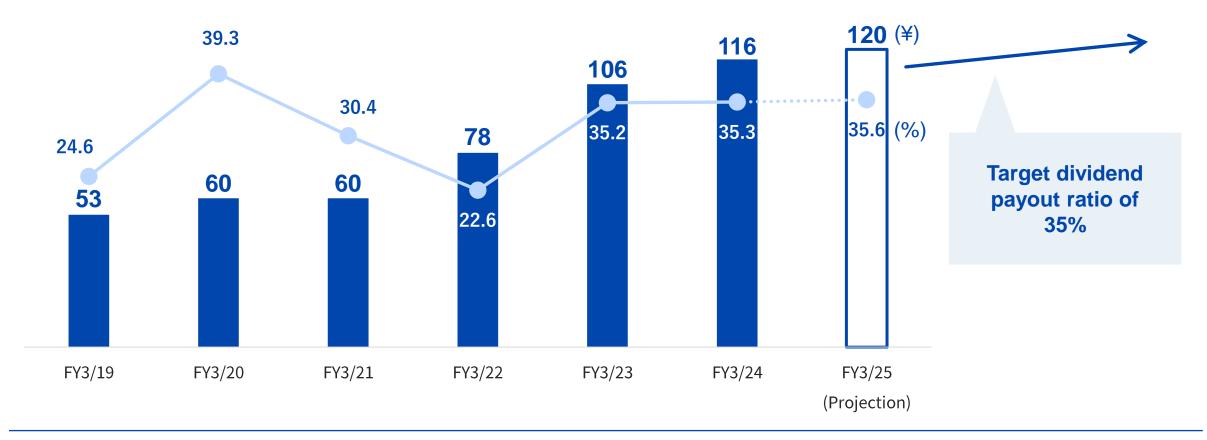
## Strengthen shareholder returns still more





- We have changed our payout ratio target from 30% to 35% in our dividend policy.
- We will enhance shareholder returns through flexible share buybacks, taking into account the situation of strategic investments.

#### Annual dividends and dividend payout ratio



# Pre-Financial Assets Supporting Transformation



## **Evolving the Ferrite Tree for further growth**





• The Ferrite Tree has continued to grow in response to changes in society. We will continue to evolve the tree ahead of social changes, such as green transformation and digital transformation.

#### What is the Ferrite Tree?

- We have gained competitive advantage through the materials and processes technology we have cultivated since our founding.
- In addition to R&D, we have strengthened our technologies in sensors and software through M&A.
- Even if we divest or withdraw from businesses, the technologies are accumulated at TDK and applied to current products, enabling the Ferrite Tree to progress day by day.

## Future Ferrite Tree





**Human capital** 

Organizational capability

## Pre-financial capital that backs TDK's value creation





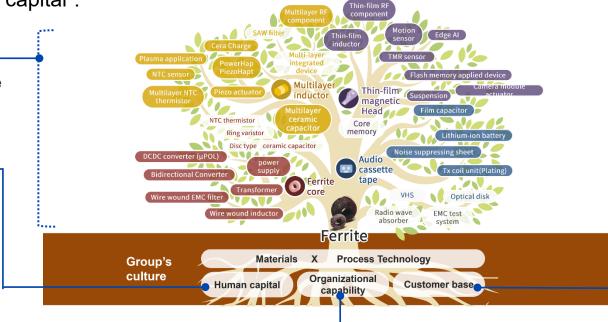
• TDK considers the following as capital capable of generating future cash flows and refers to them as "pre-financial capital" rather than "non-financial capital".

#### **Technological capability**

- Continuously evolving the Ferrite Tree.
- Highly refined manufacturing technologies.

#### **Human capital**

- Over 100K team members, about 90% of whom are non-Japanese members.
- Appointing members to important positions, including came from acquired and other companies.



#### **Customer base**

Deep connections to the world's leading-customers.

(High share of the global market)

#### Organizational capability

- Unique Group's culture, venture spirit and, permeating the "functional equality\*".
- Global management.
- Corporate governance.

\*Functional equality—is one of our values to encourage discussions in an open and equal atmosphere, based on functions (roles) rather than hierarchy.

#### Value creation process through pre-financial capital (Examples of the sensor business)

#### **Technological capability**

Apply world-class thin film and magnetic technologies and develop through behind-thescenes research.

#### Organizational capability

Take on numerous challenges with a venture spirit.

## Technological capability/ organizational capability

Identify and M&A with unique technologies.
Respect acquired companies' culture and diversity.

## Human capital/ organizational capability

Diverse members playing active roles
Fusion through transfer of authority and "function equality"

#### Organizational capacity/ human capital

Introduce TDK Quality into acquired companies.
Strengthen the global HR system.

#### **Customer base**

Suggestions and feedback from world-class customers.

Evolving and expanding the Ferrite Tree

Sharing successes and failures

Promoting personnel from acquired companies

Implementing global management

**Detecting trends** 

### Responding to market seeds/needs in a cross-sectional manner



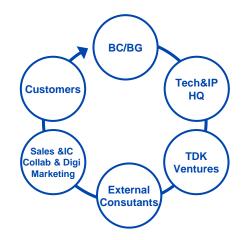


Strengthening marketing, innovation, and incubation capabilities across the Group.



**Responding to market** seeds/needs in a cross-sectional manner

We have provided new value to customers through cross-organizational efforts, primarily through Corporate Marketing & Incubation (CM&I).



Identifying technology trends in cutting-edge areas through **TDK Ventures** 

In addition to accelerating technology development and strengthening our growth strategy, we have identified the latest trends and implement an effective marketing strategy.

Major areas of investment



Next-Gen Materials



Energy &



Connectivity & Cleantech Computing



Industrial



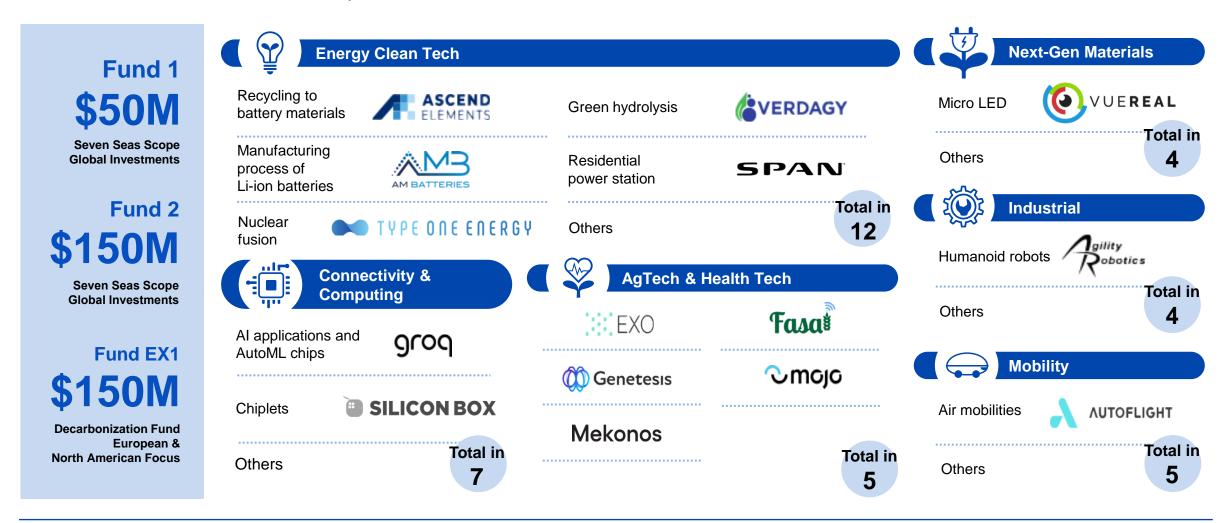
Mobility

Healthtech

## Open innovation activities



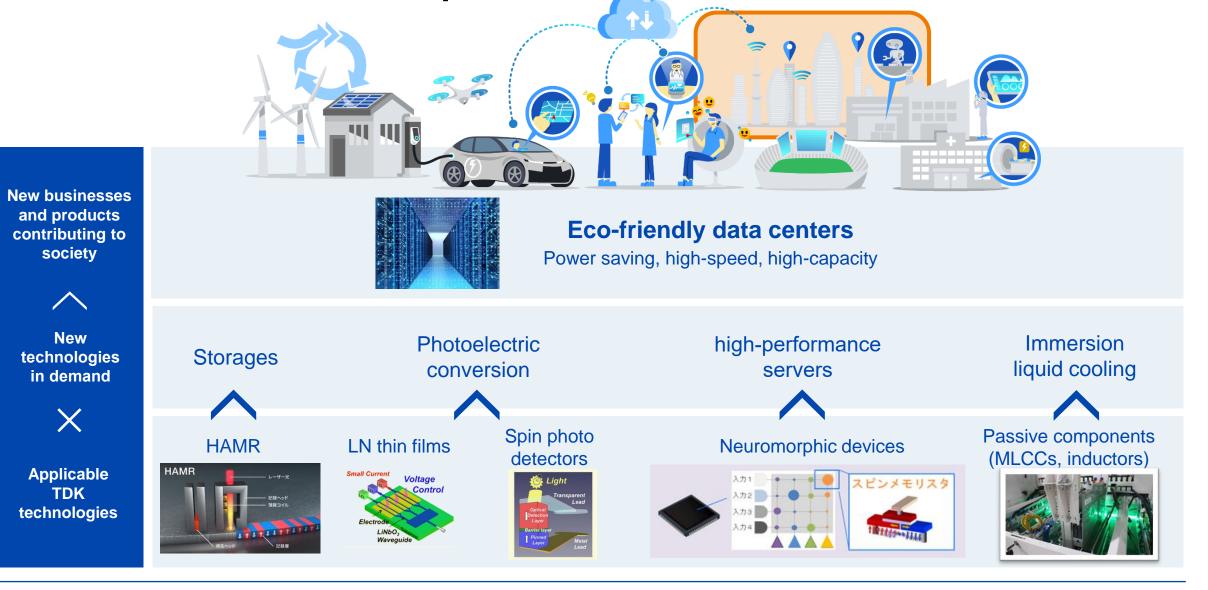
- Continuous exploring cutting-edge areas and future business investment possibilities through CVC activities.
- The fund has invested in 37 companies with a total amount of US\$ 350M as of 2024.







1. Data center-related components





2. Human Machine Interface



New businesses and products contributing to society





Applicable TDK technologies





3. Solution business



New businesses and products contributing to society



New technologies in demand



Applicable TDK technologies



**Sensors + Software**Predictive maintenance



Not only detects motion but also predicts anomalies and issues alerts.

**Motion Sensors** 





Magnetic Sensors



Current Sensors



Temperature Sensors



Battery / Energy Harvesting



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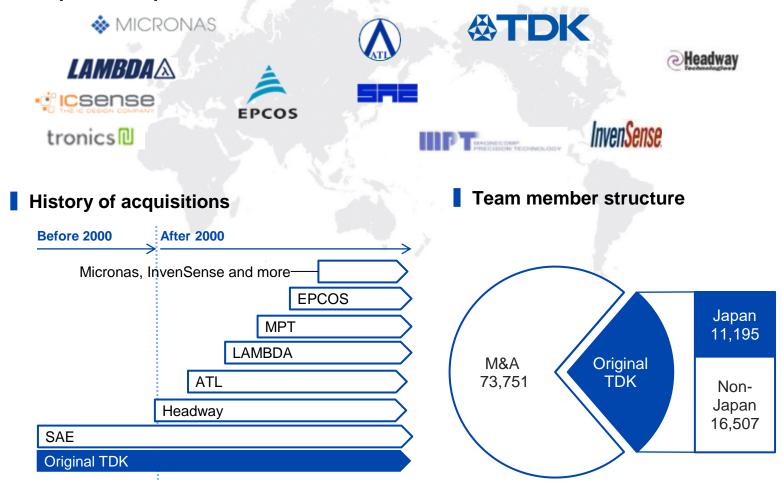
## Group's culture focusing on diversity





• German Executive Officer leads the global HR function and other team members have been also appointed to important positions from acquired companies around the world.

#### Acquired companies in the world



#### Original TDK's culture and HR capital

- Traditionally, the culture that is inclusive of all backgrounds.
- All executive committee meetings use English.
- A concept of "functional equivalence".



## Japanese members in parent company now a minority throughout M&A

- Japanese members: 10% (20 years ago: 25%)
- Members from acquired companies: about 80%



## Diversity significantly contributing to our enterprise value

Rather than being managed by the Japanese parent company, the Group's culture and organizational climate of the acquired companies are respected, and a culture of learning global best practices together is being accelerated.

## **Group governance**

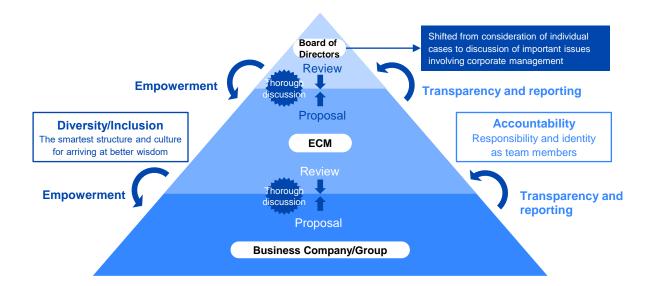




#### Delegation of authority for agile, efficient decision-making

- Separated supervision and execution since before.
- An outside director serves as chair of the board.
- Establish committees, with an outside director as the chair since before.
- Emphasis on empowerment and transparency.
- Allocate more time in board meetings to discuss management issues than on reporting.

## Roles and authority of the Board of Directors, ECM, and BCs/BGs



#### Global, open and flat culture

- TDK's corporate culture is our stance of delivering value to customers through the collaboration beyond national borders of team members (employees) with diverse individuals working around the world.
- Regarding M&A, TDK maintains equal relationships and respects one another's corporate culture through a policy of post-merger integration (PMI).

#### Non-Japanese corporate officers

**50**%, 9 out of a total of 18 corporate officers.



Michael Pocsatko Senior Vice President



Andreas Keller Senior Vice President



Albert Ong
Corporate Officer



Ji Bin Geng Corporate Officer



Werner Lohwasser Corporate Officer



Roshan Thapliya
Corporate Officer



Ludger Trockel
Corporate Officer



Joe Kit Chu Lam
Corporate Officer



Jim Tran Corporate Officer

(As of May 2024)

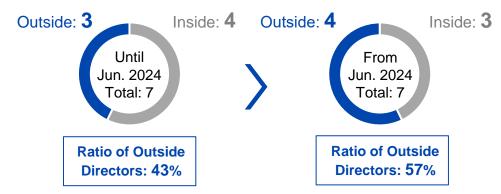
## **Evolving TDK's governance**





- Strengthen our board into a monitoring-oriented board
- Introduction of an executive remuneration system linked to medium- to long-term enterprise value growth

#### Board composition



## Mr. Toru Katsumoto, a candidate of new Outside Director

#### Career

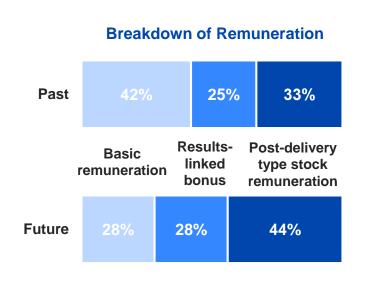
Former Senior Executive Vice President and CTO of Sony Group Corporation

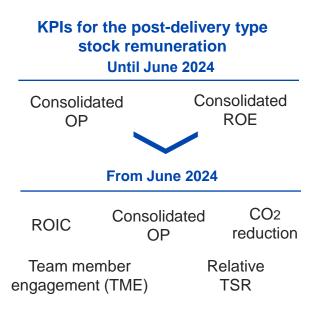
## and CTO

#### Reasons for nomination as a candidate

Mr. Toru Katsumoto has an abundance of experience and knowledge as a head of the technology division, CTO, and manager of a company that operates globally in the game, music and movie, consumer electronics equipment and other businesses. The Company expects him to supervise the overall management of the Company and to give advice and recommendations to ensure the legality and appropriateness of decision-making of the Board of Directors of the Company by utilizing his experience and insight, and has nominated him as a candidate for Outside Director of the Company.

#### Structure of remuneration for executives and KPIs





#### Introduction of post-delivery type stock remuneration plan for employees

**Purpose:** We want employees to understand the activities to enhance enterprise value as a personal issue in order to raise awareness of corporate management

**Applicable persons:** Employees working in Japan who are members of the TDK Employee Stock Ownership Plan

**Details:** Annual grant of 15 shares per person will be granted. 15 shares will be added, if the corporate targets will be achieved

## **Risk management**





- Improve continuously a series of risk management activities from dentification of risks to implementation.
- Potential risks in the new medium term plan

Category	Potential risks
Economic/Market trends	Slowdown of global economy, changes in societal trends, soaring prices and personnel expenses, hikes in raw material purchase costs and energy resource prices
Technological trends	Delay in the use of digital technologies, acceleration in technological transformation
Geopolitical risks	Geopolitical tensions, tightening regulations for technology export
Compliance	Deficiencies in compliance system, deficiencies in contract signing, insufficient legal due diligence, unauthorized access of technological know-how
Supply chain	Quality deficiencies in supply chains, soaring row material and logistic costs inadequate human rights efforts in value chains

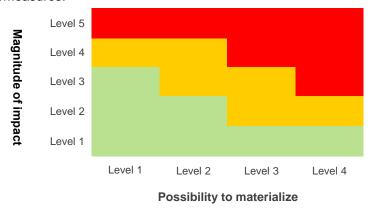
#### Risk management structure

We have established an ERM Committee to implement the PDCA cycle for risk management.



#### "Residual Risk" heatmap

We have created a residual risk heat map to visualize and assess the priority of implementing risk countermeasures.



## Enhancing enterprise value through the pursuit of quality





• We are calling for a thorough implementation of "Quality First" throughout the company. This applies not only to product quality but also to a wide range of improvements, such as improving production efficiency, improving yield rate, strengthening marketing, and even improving the work environment and employee motivation.

# **Quality First**

# **Quality of Operations**

- Promoting internal DX
- Promoting DX in sales, quality, and pre-financial matters

# **Quality of Products**

- Improving production efficiency
- Improving yield rate
- Strengthening marketing

# Quality of Health

We recognize that the physical and mental quality of each individual is one of our most important management issues.

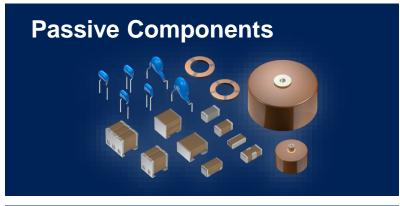
- Established the TDK Declaration of Health
- Participating in the Health & Productivity Management Alliance Alliance (an alliance of Japanese companies aimed at developing a health and productivity management model and co-creating a solution)

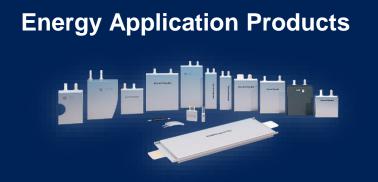
# Quality of Work environments

We are working to improve the work environment.

- Designing work satisfaction through urban development in public-private partnerships.
- Creating a pleasant work environment

# 5. Strategy by Segment











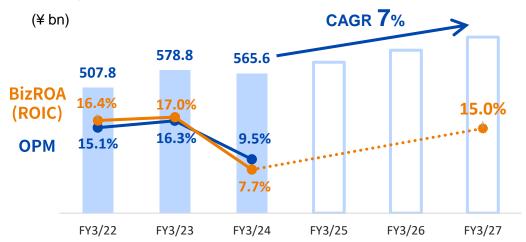
## **Passive Components business strategy**



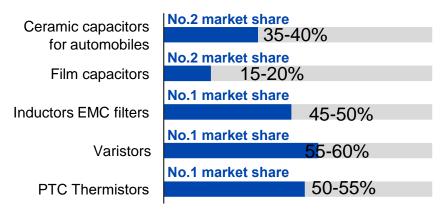


 Pursue continuous growth by providing timely products to the growing markets with leveraging materials, process technology and quality capability.

#### ■ Targets for net sales and BizROA(ROIC)



#### Priority products estimated market share



Strategies

- Further strengthen high-reliability products for powertrains
- · Launch new products for ADAS use
- Optimize investments and manufacturing sites in line with market growth
- Improve quality and productivity
- Combine optimal production methods, e.g., winding, layering, thin-film technologies, and materials

Opportunities

- Increase in added value and number of components due to the progress of xEVs and ADAS of vehicles
- Increase in demand for low power consumption passive components, e.g., Al servers
- Increase in demand for high value-added custom products for industrial equipment use

- Combination of materials and processes technology
- Long-standing quality track record in the automotive market
- High-reliability eco-friendly technologies, e.g., high-temperature and high-voltage
- In-house production engineering technology

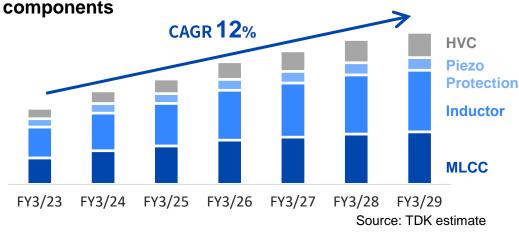
## Capacity expansion of passive components for automobiles



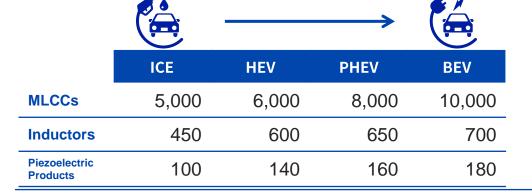


Continuous Expansion of high value-added passive components by seizing the electrification demand.

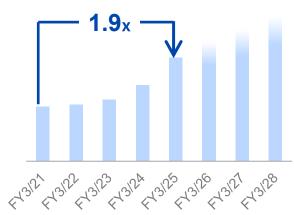
Estimated market demand for automotive passive



Number of components usage per Gasoline vehicle vs xEV vehicle



MLCC production capacity

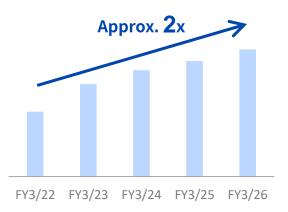


Expansion of Kitakami Factory, manufacturing MLCCs



Japan: MLCC factory, Iwate

Film capacitor production capacity



Establishment of new factory, manufacturing film capacitors



India: Film capacitor factory, Nashik

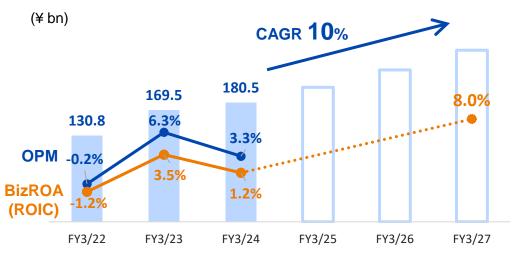
# **Sensor Application Products business strategy**





 Based on the strategic concept of "Create different and Connect," we have created new solution and achieved large market shares in focus markets.

#### Targets for net sales and BizROA(ROIC)



#### Major products estimated market share



# Strategies

- Establish a "market-in" business approach, which captures market/customer needs to achieve "First-to-Market," and a "concept-out" approach, which provides solutions based on concepts
- Expand collaboration with technology leaders and game changers that drive the industry forward
- Optimize the internal resources by transformation of organization structure

# Opportunities

# Increased demand for sensors due to the utilization of AI Increased business opportunities due to electrification of vehicles

#### Establishment of top position leveraging the cooperative relationships of existing and new businesses

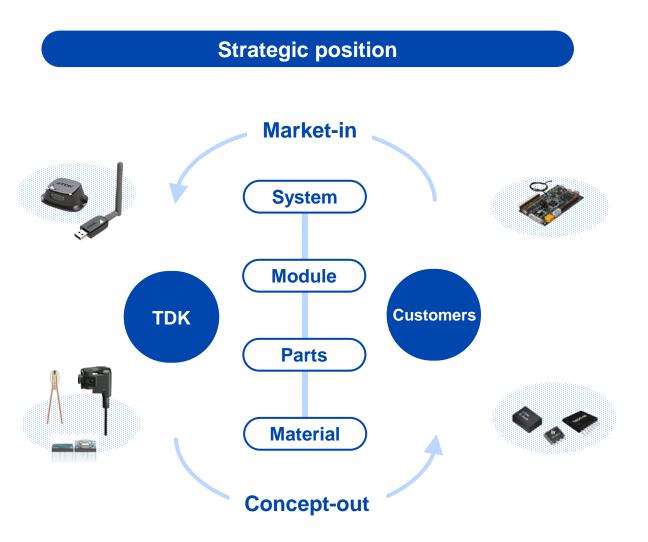
- TMR technology derived from long accumulated magnetic and thin-film technologies
- Temperature sensors with top share in the automotive market
- Our unique production methods, materials and processes technologies
- MEMS design technology
- IC design capabilities of IC Sense and Invensense, including expertise of sensor characteristics
- Product development capabilities by combining sensors and software

# **Sensor application products** | Positioning and capex

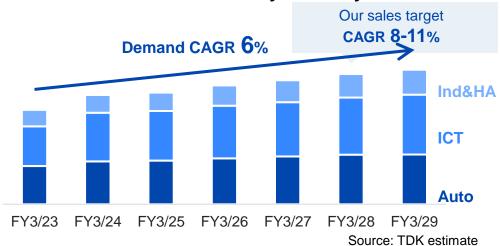
**Attracting Tomorrow** 



Strengthen investments in key products and high quality products, by capturing DX and EX trends.



#### Sensor demand estimate by industry



#### Investments for sensor capacity investment

Opening of Hungary factory (Temp. sensor for Auto/Ind&HA)



Temperature sensor factory in Hungary

ATF factory expansion (TMR sensor for ICT/Auto)



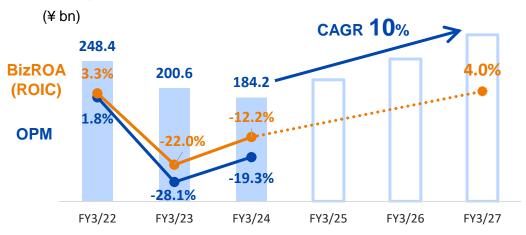
TMR sensor factory in Nagano

# **Magnetic Application Products business strategy**





#### Targets for net sales and BizROA(ROIC)

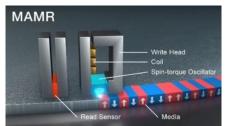


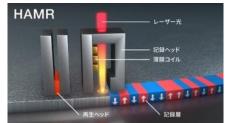
#### Major products estimated market share

HDD heads
HDD suspension assemblies

No.3 market share
20-25%
No.1 market share
40-45%

#### MAMR and HAMR, next generation magnetic recording technologies





Strategies

- Maintain MAMR technology leadership, accelerate development of HAMR technology, and prepare for mass production:
- Optimize production capacity and operations :
- Strive to increase market share of Tri-SA suspensions to support highcapacity N/L drives

Opportunities

- Increase in demand for data storage due to the progress of Al technologies and the spread of cloud services
- Leading in medium- to long-term innovation in cutting-edge technologies

- Ability to continuously develop and mass produce new technology products
- Optimize production capacity and operations by continuously working on automation and increasing the use of big data.

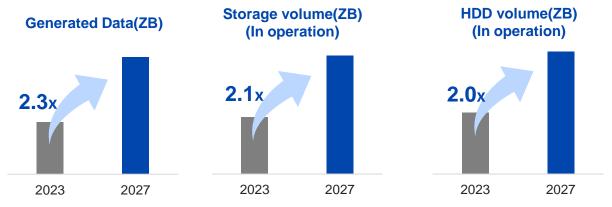
# Launch of next generation head technology





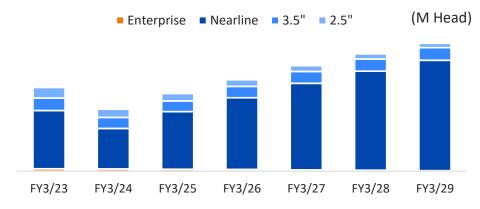
 Pursue profitability turn around by continuous launch of next generation value added technologies, e.g.MAMR, HAMR and Tri-SA in the back of increasing demand trend of nearline HDD.

#### Demand forecast of generated data and storage volume



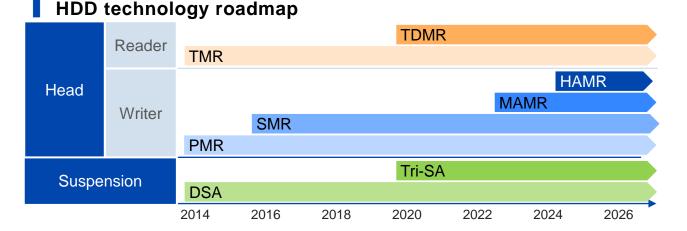
Source: IDC Worldwide Global DataSphere, Forecast, 2023-2027 (#US50554523) IDC Worldwide StorageSphere Forecast, 2023-2027 (#US50673423)

#### **HGA Demand forecast**



Source: TDK estimate

#### Tri-SA Suspension demand forecast





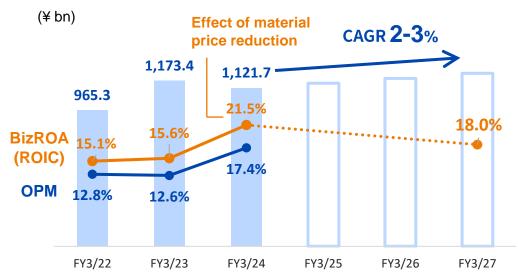
# **Energy Application Products business strategy**





 Pursue excellence in energy products and technologies through relentless technological innovation and empower people in their daily lives.

#### Targets for net sales and BizROA(ROIC)



#### Major products estimated market share



Strategies

- Maintain and enhance top position in the market for small capacity rechargeable batteries by continuous development of cutting-edge technologies.
- Establish the top position in the medium capacity battery market as sole medium capacity battery supplier.
- Further enhance market competitiveness by strengthening differentiation technologies and cost competitiveness

Opportunities

- Further expansion of applications requiring high-performance rechargeable batteries
- A boost in the high-end market due to the expansion of high-function devices, such as foldable smartphones and AI smartphones
- Increased added value in LIB for ICT (especially high-end) due to Si anodes and other new differentiation technologies
- Expansion of the storage battery market and demand for related devices due to the accelerated introduction of renewable energy (rechargeable battery and industrial power supply businesses)
- · Local demand increase in growth markets such as India

- · Ability to develop cutting-edge technologies as a technology leader in the industry
- Capability of management transformation based on "Capability to envision the future" and "Capability to execute"
- · High-reliability mass production technology, thorough safety risk management
- Cost optimization technology and production engineering technology capabilities
- Broad customer base and long-term partnerships

# Small capacity batteries | Growth strategy





• We will support the evolution of small electronic devices, such as smartphones, through advanced and innovative technologies.

- Offer new value through innovative technologies.
   Enhance user experience.
- Implement a China Plus One strategy in view of geopolitical risks.
- Maximize business value by strengthening the value chain.

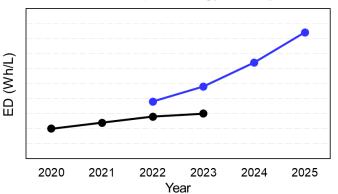




#### Increase in energy density with silicon anode

Improve energy density by 30-40% in the future

#### Road map of energy density



#### Battery production history and upcoming plan in India

**2017-** Start of Pack production

**2022-** Start of Cell Production

**2025-** Launch of new factory at Sohna

# Medium capacity batteries | Growth strategy





Provide the optimal technologies according to the characteristics of the device and contribute to the acceleration of Energy Transformation (EX).

#### **Superior Customer Service**

Propose and deliver products and technologies that meet customer needs from a wide range of resources (materials, designs, processes)

#### **Technology Advancement**

Technology and product strategies that further enhance customer value (High performance, long life, high quality, high reliability)

#### **Operational excellence**

Achieve outstanding QCD by launching a new plant

Expanding production capacity by launching a new manufacturing site in Xiamen, Fujian

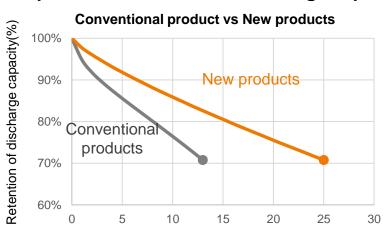
#### Medium capacity battery market demand growth



#### **Target Application**

- Energy storage systems
- Industrial equipment, Power-tools, EVs motorcycles, Drones, etc.

#### Comparison of retention of discharge capacity



Current product 10∼15 years endurance (6.000cvcles)



**New products** 20~25 years endurance (15,000cycles)

Years

## **Evolving the Ferrite Tree to contribute to social change**







technology

Organizational

capability

technology

**Customer base** 

**Materials** 

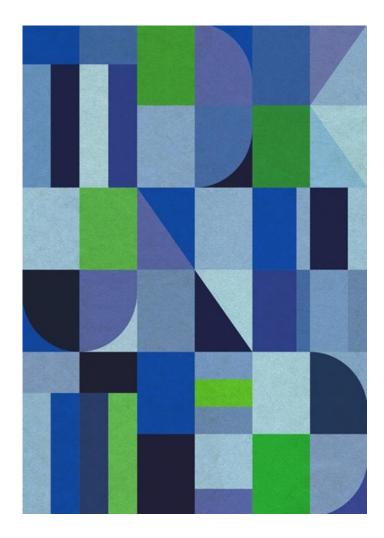
**Human capital** 

**Group's culture** 

# **Ending**

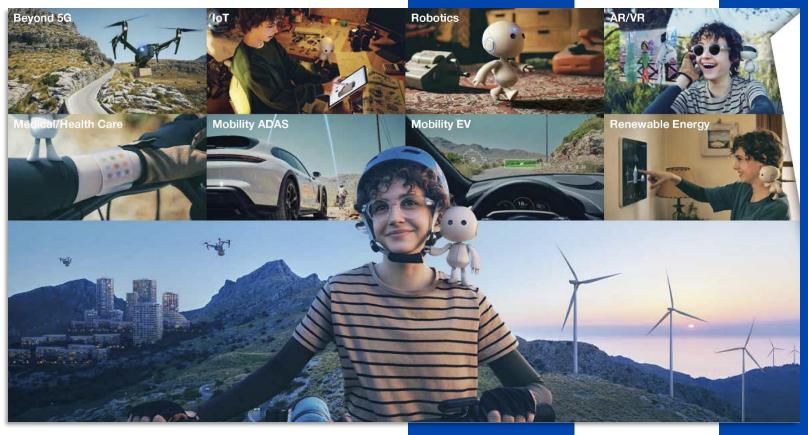






- We will accelerate the transformation within TDK through our capability to envision and implement the future and through the transformative power of human resources so that we can continue to contribute to social transformation.
- We will deepen existing core technology strengths and explore new strengths.
- We will enhance proactive business portfolio management.
- We will improve the spread between ROIC and WACC to increase cash flows and improve capital efficiency.
- We will strengthen management that enhances pre-financial capital, evolve the Ferrite Tree, and maximize our enterprise value.
- We will focus more on investor dialogue and investor relations.

# Appendix





# The history of TDK Our venture spirit





**1930: Dr. Yogoro Kato** and **Dr. Takeshi Takei** invented "Ferrite," a magnetic ceramic compound containing oxides of iron and other materials.



Dr. Yogoro Kato (left) Dr. Takeshi Takei (right)

**1935:** Dr. Kato's statement that "innovative work is the source of true industry," inspired **Kenzo Saito** to found TDK Corporation.



Kenzo Saito First president of TDK

**1937:** "Ferrite core" was produced and applied for the first time worldwide in a number of Japanese wireless communication units and radios.



Ferrite core

### **About TDK**





TDK Corporation is a manufacturing company that produces worldwide cutting-edge electronic components, contributing to cultures and industries in the world through creativity.

TDK at a glance

#### **Foundation year**

1935

TDK Venture Spirit, originated from the founders' passion for an authentically industrialized Japan with ferrite.

Net sales in FY3/24 (% of overseas)

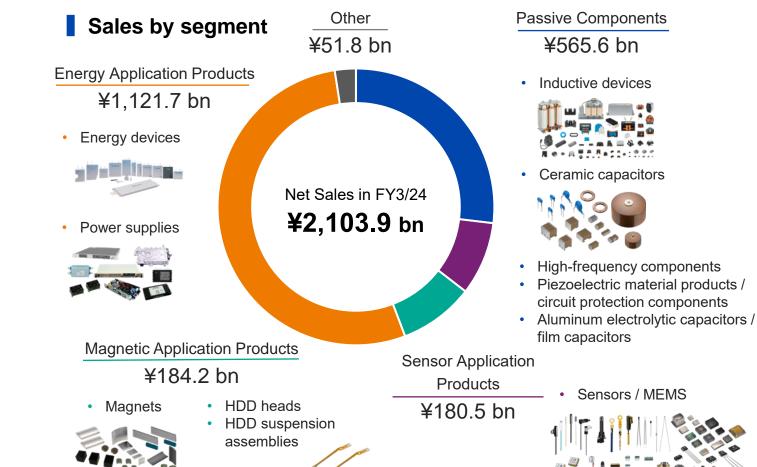
**¥2,103.9** bn (over 90%)

We offer a variety of products that respond to changes in the market and the needs of society.

Number of employees (% of non-Japanese)

Over 100,000 (about 90%)

Global team members who can contribute to TDK value creation

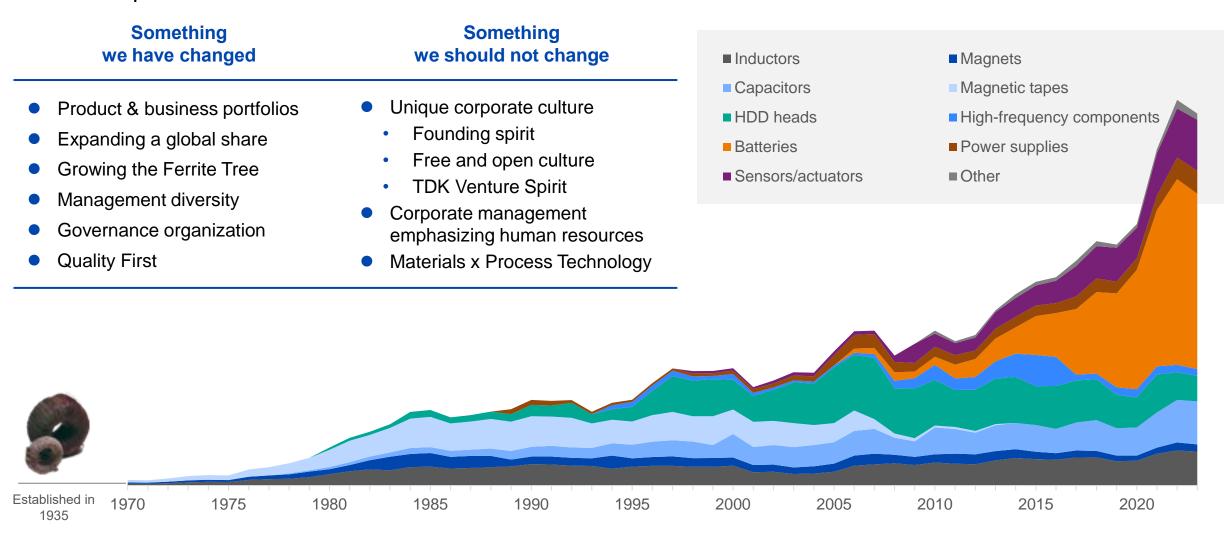


## Something we have been passed on





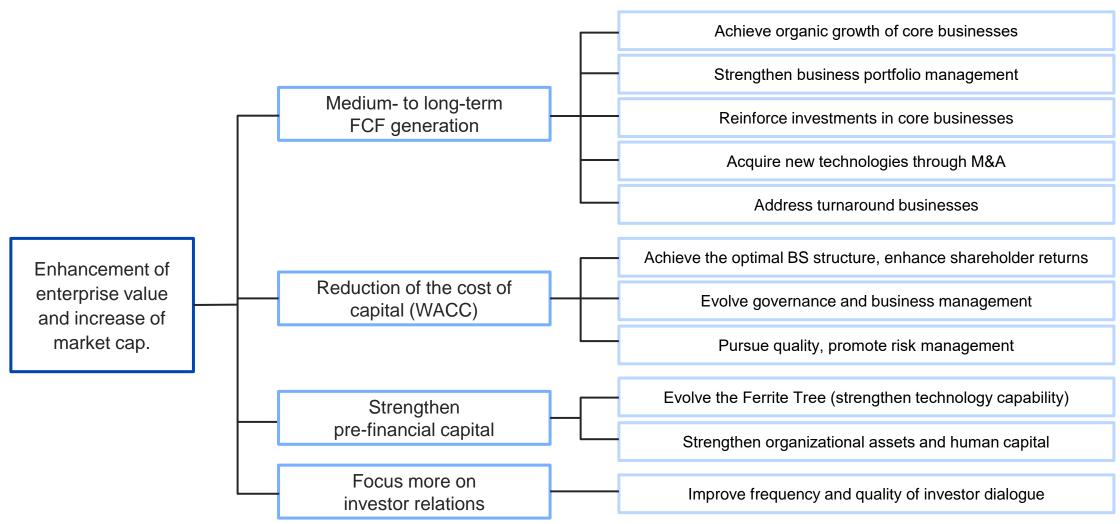
 We have grown up with evolving the electronic material technology originated from ferrite and optimizing business portfolio



# The path to realize the new medium-term plan



#### **Priority Measures**



# Cautionary statements with respect to forward-looking statements





This material contains forward-looking statements, including projections, plans, policies, management strategies, targets, schedules, understandings, and evaluations about TDK, or its group companies (TDK Group). These forward-looking statements are based on the current forecasts, estimates, assumptions, plans, beliefs, and evaluations of the TDK Group in light of the information currently available to it, and contain known and unknown risks, uncertainties, and other factors. The TDK Group therefore wishes to caution readers that, being subject to risks, uncertainties, and other factors, the TDK Group's actual results, performance, achievements, or financial position could be materially different from any future results, performance, achievements, or financial position expressed or implied by these forward-looking statements, and the TDK Group undertakes no obligation to publicly update or revise any forward-looking statements after the issue of this material except as provided for in laws and ordinances.

The electronics markets in which the TDK Group operates are highly susceptible to rapid changes, risks, uncertainties, and other factors that can have significant effects on the TDK Group including, but not limited to, shifts in technology, fluctuations in demand, prices, interest and foreign exchange rates, and changes in economic environments, conditions of competition, laws and regulations. Also, since the purpose of these materials is only to give readers a general outline of business performance, many numerical values are shown in units of a billion JPY. Because original values, which are managed in units of a million JPY, are rounded off, the totals, differences, etc. shown in these materials may appear inaccurate. If detailed figures are necessary, please refer to our financial statements and supplementary materials.