

# Mitsubishi Electric Key Growth Businesses <br/> <br/>

November 11, 2021 Mitsubishi Electric Corporation

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- 2
- Establish growth targets for FY2025 with sales of ¥650 Bn. or more, and an operating profit margin of 10% or more (p.8)
- 3

Achieve ①strengthening competitiveness of products and services, ②expansion of solution business, and ③higher profitability by building a consistent business management system (pp.11-13)



Leveraging our strengths to provide energy-saving, safe, and secure solutions which offers comfort for Smart Buildings, and to contribute to the realization of Smart Cities (pp.18-22)



To strengthen elevators & escalators business on a global level, expand its portfolio as well as maintenance and renewal business (pp.23-30)



- 1. Business Overview
  - 1-1. Business Structure
  - 1-2. Business Details and Areas
  - 1-3. Business Management Policy
  - 1-4. Our Strengths
  - 1-5. Strengthening of Business Foundation
- 2. Medium-Term Management Plan of Key Growth Businesses
  - 2-1. Business Environment
  - 2-2. Overview of Key Strategy
  - 2-3. Growth Target
  - 2-4. Growth Strategy
  - 2-5. Initiatives on Social Challenges

Note

FY2018 : April 1, 2018 -March 31, 2019 FY2019 : April 1, 2019 -March 31, 2020 FY2020 : April 1, 2020 -March 31, 2021 FY2021 : April 1, 2021 -March 31, 2022 FY2025 : April 1, 2025 -March 31, 2026



# Business Overview

# 1-1 Business Structure



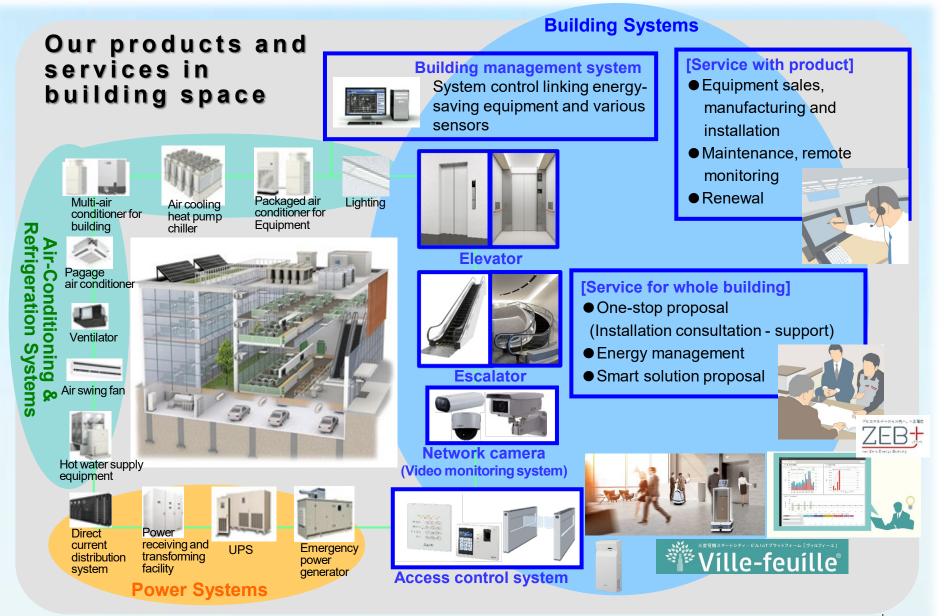
#### **Business Structure**

Segment	Sub-segment	Key Growth Businesses
Energy & Electric	Social Infrastructure	
Systems	Building Systems	Building Systems
Industrial Automation	Factory Automation (FA) Systems	FA Control Systems (PLC, Servo, and CNC)
Systems	Automotive Equipment	xEV/ADAS
Information & Communication	Information Systems & Service	
Systems	Electronic System	
Electronic Devices	Electronic Devices	Power Semiconductor Devices
Home Appliances	Home Appliances	Air Conditioning & Refrigeration Systems

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# 1-2 Business Details and Areas







- Aims -

To satisfy society, customers, shareholders and employees by creating solutions in building spaces that leverage our strengths to meet diversifying social challanges and by providing our company's unique value



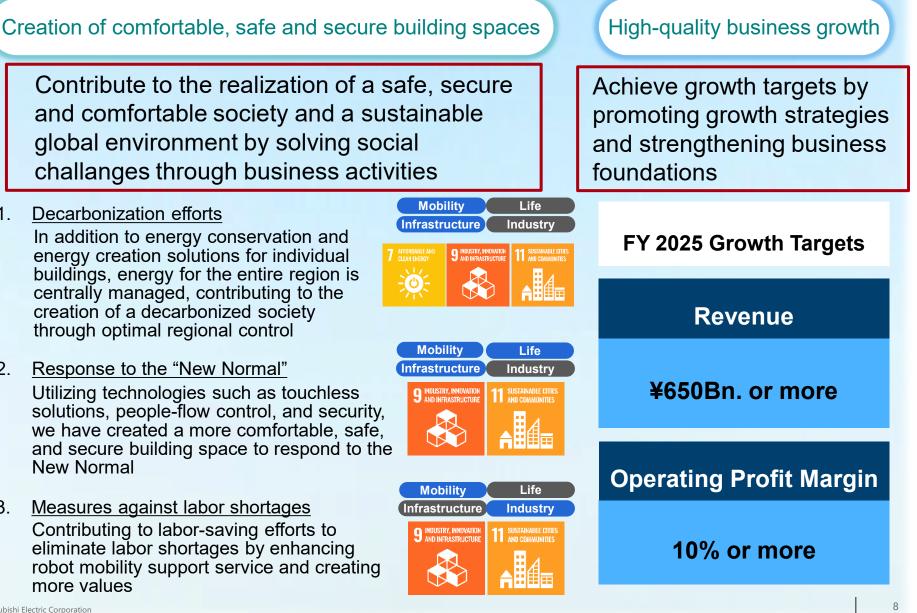
1

2

3.

## **Business Management Policy** - Efforts to Create Value -

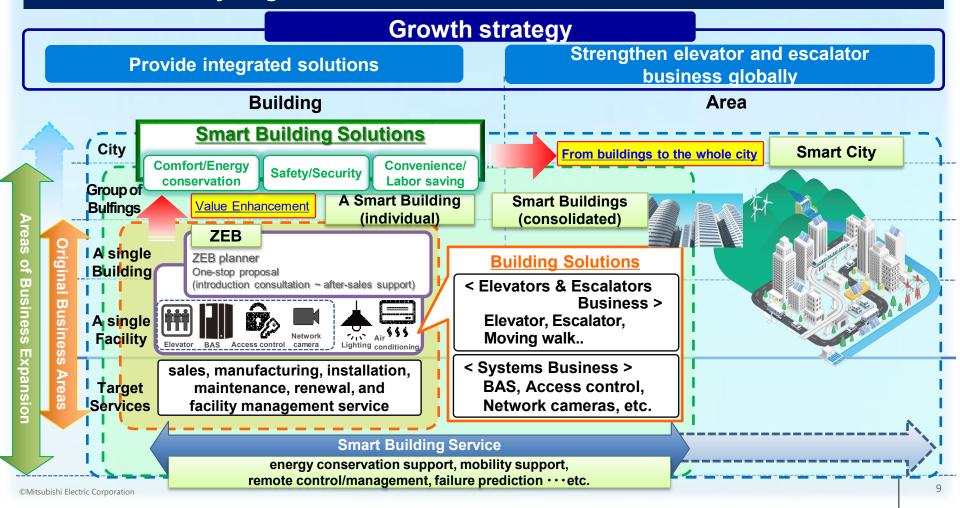




- Strategic Direction -

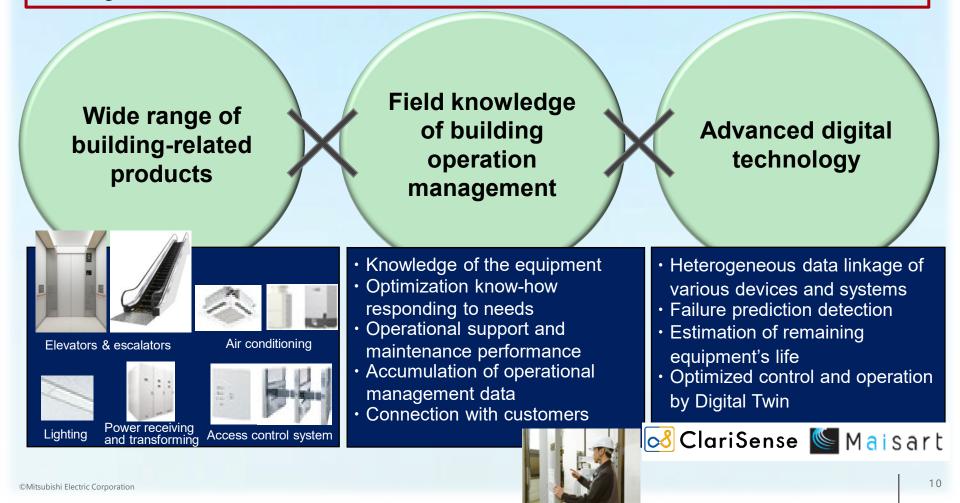


Based on the expansion of maintenance services, contribute to solving social challanges by creating comfortable, safe, and secure building spaces through the provision solutions making use of accumulated technologies and data, as well as multi-business synergies





By combining our diverse range of building-related products, including elevators & escalators, with a wealth of field knowledge in building operation management and advanced digital technology, our company provides unique integrated solutions

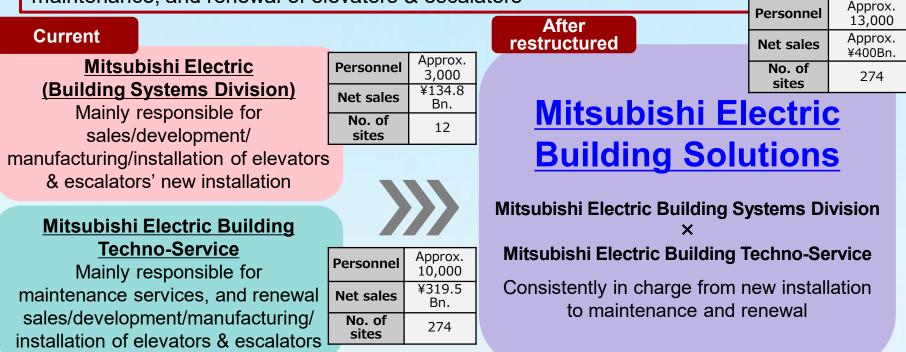


# **1-5** Strengthening of Business Foundation Changes for the Better



#### **Restructuring of Building Systems Group**

Building systems business will be integrated in April 2022 to enhance global competitiveness by building a consistent operational structure from new installation, maintenance, and renewal of elevators & escalators



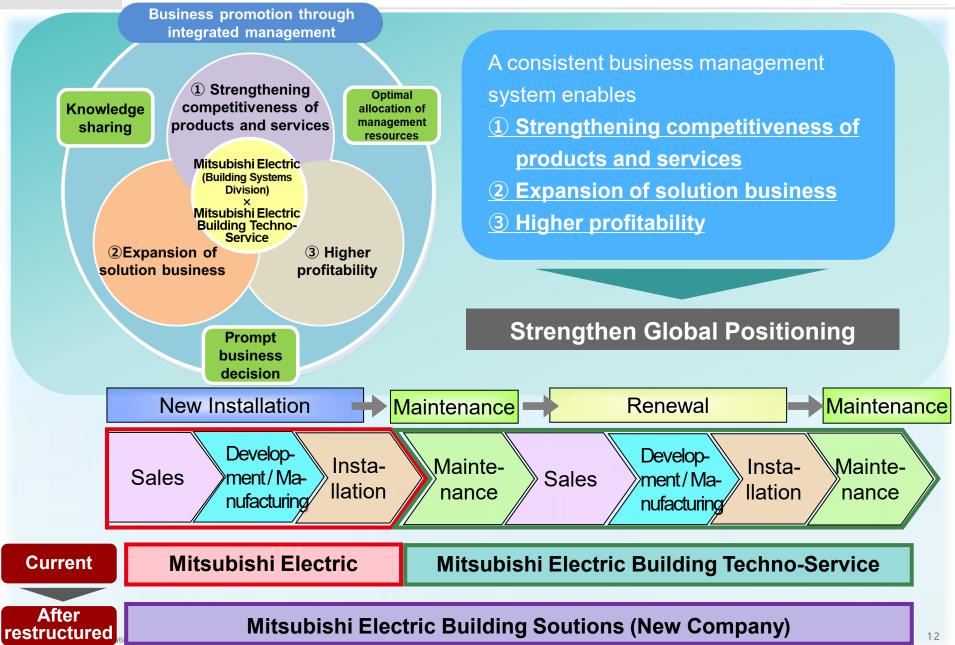
\*To be concurrent with Mitsubishi Electric for partial management and solution promotion across business segments



Create value in building spaces and contribute to solving social challanges by providing integrated solutions that combine products and services, which are the strengths of the new company, and the knowledge gained through their accumulation with advanced ICT

# 1-5 Strengthening of Business Foundation





# **1-5** Strengthening of Business Foundation Changes for the Better



#### < Effects of the Integrated System >

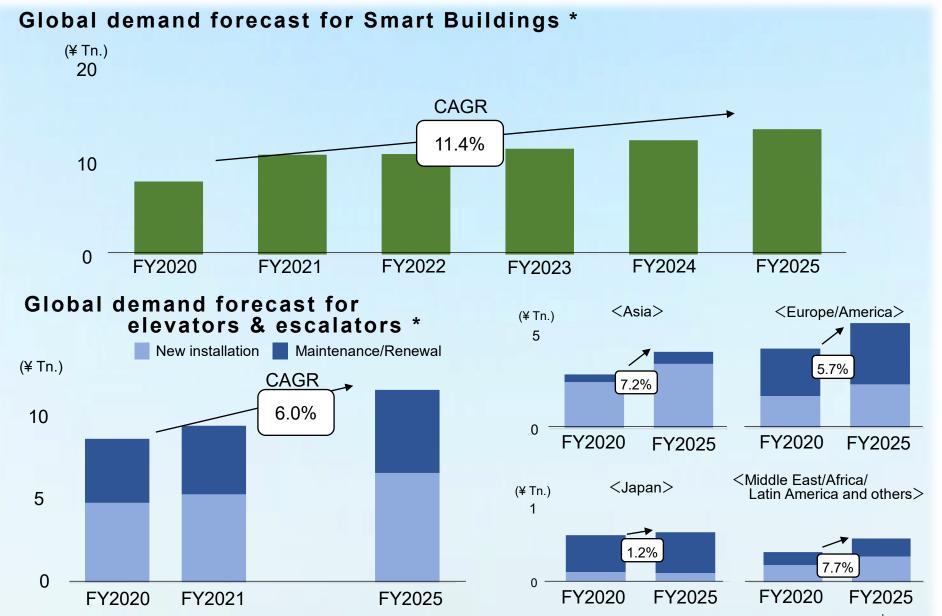
1 Strengthening competitiv	eness of products and services	
Sales	Enhancing customer responsiveness and improving service quality through o stop operations	
Development and manufacturing	Strengthening competitiveness of products and services through consistent development planning	
Installation and maintenance	Maximizing field capacity with multi-skills, optimizing resource allocation	
② Expansion of solution bus	siness	
Creation of new solutions by util elevators & escalators	izing accumulated technologies and data from various building facilities, mainly	
proposal capabilities	other businesses by sharing knowledge and enhancing group's comprehensive ons Division of Mitsubishi Electric to strengthen cooperation among business groups, apanies	
->Strengthening proposal capabilitie	conditioning & refrigeration systems business es utilizing knowledge based on Mitsubishi Electric Building Techno-Service's expertise ir ess of air conditioning & refrigeration systems	
<b>③ Higher profitability</b>		
Improving business processes	and streamline organizations by eliminating overlapped functions	
<ul> <li>Establishment of an independent check inspection operations</li> <li>Enhancement of inspection of Improving the level of busine</li> </ul>	corporate culture reform of new company> dent Quality Assurance department under the direct control of the President to operations through quantitative evaluation based on appropriate procedures ss quality by promoting standardization and digitization of business processes ate culture by active personnel rotation between Mitsubishi Electric and the new	



# Medium-term Management Plan of Key Growth Businesses

# 2





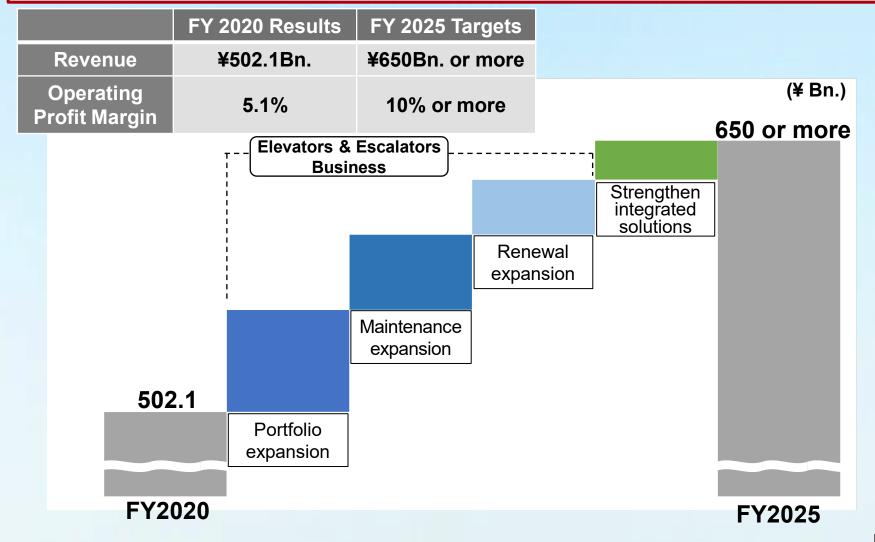
©Mitsubishi Electric Corporation \*Assumed values by Mitsubishi Electric. For Smart Buildings, it includes facility monitoring and control function and data linkage function in building management on a global scale.







Aim to achieve targets by expanding the system/solution business in addition to the new installation, maintenance and renewal business of elevators & escalators



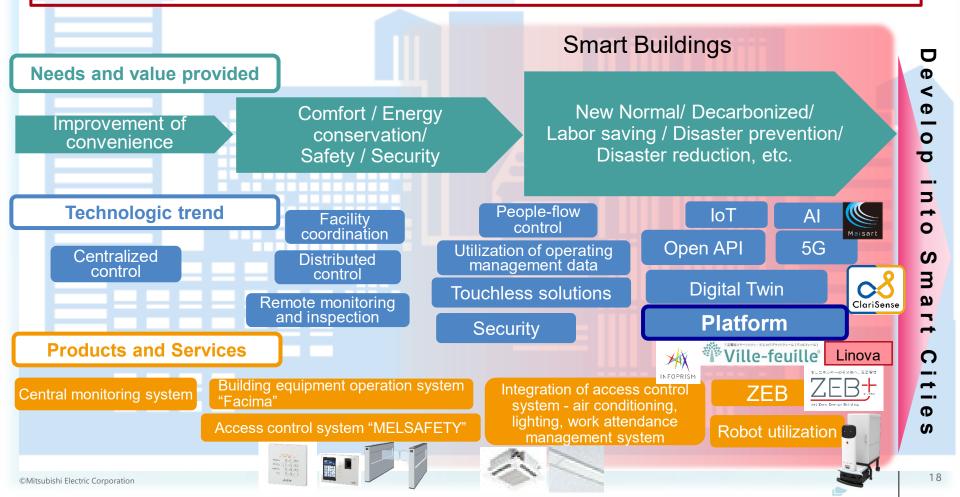
Growth Strategy:

(1) Provide Integrated Solutions



#### **Provide Smart Building solutions**

The needs and value of building solutions, and the key technologies that enable them have changed over time. In the future, platforms collaborating with various building facilities will play an important role



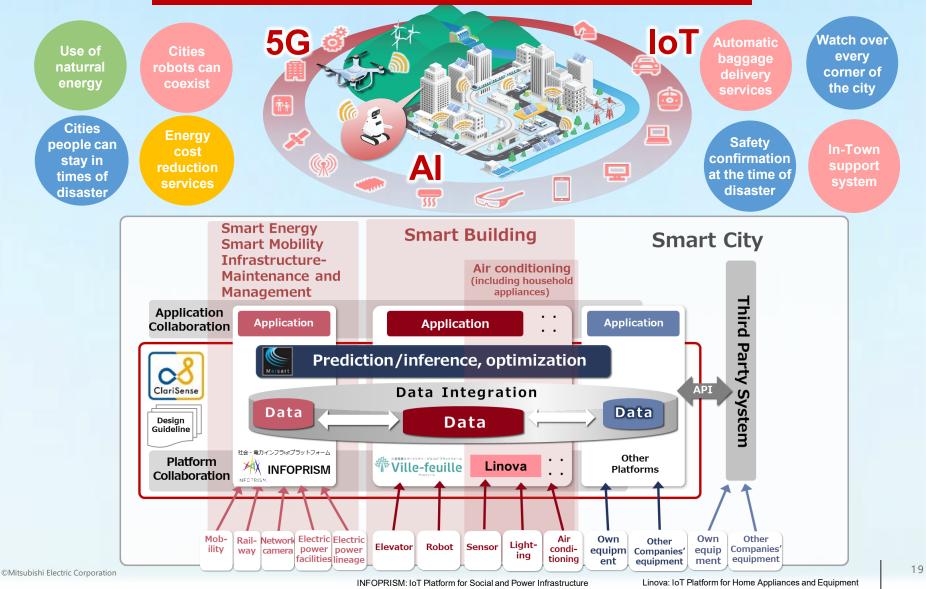
## Growth Strategy:

## (1) Provide Integrated Solutions





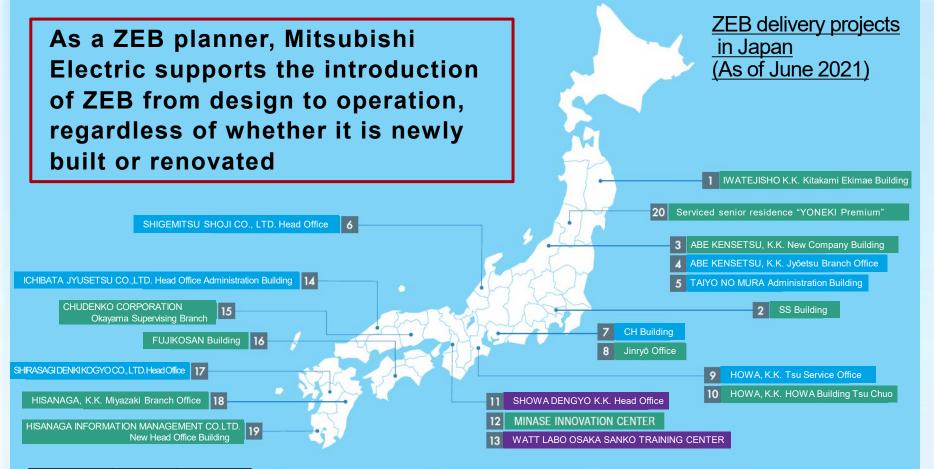
Solving social challenges by utilizing data beyond business boundaries





Growth Strategy: (1) Provide Integrated Solutions





(Unit:Items)	Market size	Orders Received
FY2018	83	10
FY2019	144	18
FY2020	204	31

#### ZEB Oriented

Buildings with a total area of 10,000 m<sup>2</sup> or more, excluding renewable energy, that are designed to save 30-40% of the standard temporary energy and introduce unevaluated technologies

#### ZEB Ready

Buildings designed to save 50% or more of the standard temporary energy, excluding renewable energy

#### Nearly ZEB

Buildings that meet the conditions of ZEB ready while adding renewable energy and reducing the standard primary energy consumption by 75% or more

#### *『ZEB』*

Buildings that meet the conditions of ZEB ready while adding renewable energy and reducing the standard primary energy consumption by 100% or more

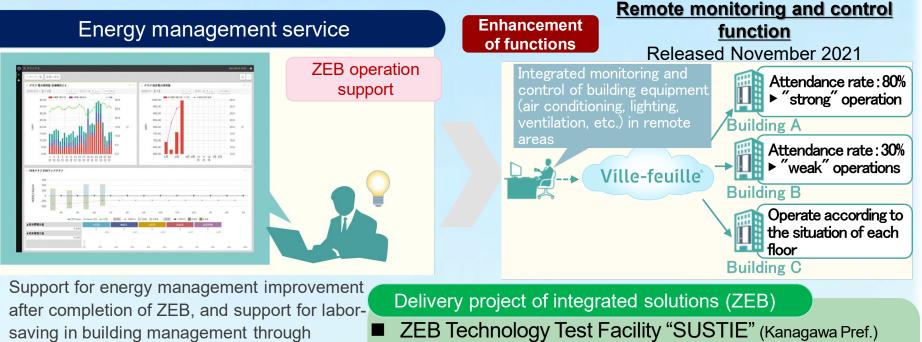
\*The market size is the number of ZEB certification acquired by BELS (Building-Housing Energy-efficiency Labeling system) in the fiscal year concerned. Orders received include projects for planners from other companies (equipment supply implementation in our company). ©Mitsubishi Electric Corporation

**Growth Strategy:** 

(1) Provide Integrated Solutions



## Promote ZEB and contribute to decarbonization





World's highest level of primary energy consumption in mediumsized office buildings of 6,000 m<sup>2</sup> or more

51151

Accelerate ZEB Support for medium-sized buildings through various demonstration experiments

centralized management of multiple buildings via the Internet

# Ville-feuille

Ville-feuille, Mitsubishi Electric's original IoT platform for Smart Cities and Burildings. In October 2020, we began providing building management services using this platform, and will continue to expand the services in the future.

Growth Strategy:

(1) Provide Integrated Solutions





Supporting the safe coexistence of humans and service robots for security, cleaning, and delivery in buildings

#### Deivery project of robot mobility support service

Tokyo Portcity Takeshiba (Tokyo Metropolis)



As a solution to realize Tokyo Portcity Takeshiba's "coexistence of humans and robots," Mitsubishi Electric provides a platform for security and delivery robots that autonomously ride on and out of elevators and move vertically

- < Products and Technologies Introduced >
  - Elevators
- Robot mobility support service
- Destination Oriented Allocation System "DOAS"
- •Access control system integrated with "DOAS"



SUBISHI

Chanaes for the Better

**Growth Strategy:** 

2-4

(2) Strengthen Elevators & Escalators **Business in Global Market** 



Expand portfolio of elevators & escalators

## **1** Further strengthening of premium market

Further expand share in premium market by providing new models and accelerating functional development to meet social needs

## Improving added value through the development of new products and new functions to meet social needs

->Touchless, antibacterial/antivirus, security, BCP measures, robot collaboration, etc.





Project responding to Social Needs

- Tenjin Business Center (Fukuoka Pref.)
  - < Products and Technologies Introduced >
  - Elevators
  - Destination **Oriented Allocation** System "DOAS"



- Access control system integrated with "DOAS"
- Visitor reception system using an aerial display



Achieving touchless offices and contributie

to infectious disease control

Continue to expand functions to meet social needs and gain further presence

Completed in 2021



Growth Strategy: (2) Strengthen Elevators & Escalators Business in Global Market



### **2** Capturing volume market

Increase share by capturing volume market where demand continues to grow by utilizing products developed independently by regional bases

## Segment-by-segment strategy utilizing costcompetitive products originally developed by manufacturing bases

Increase share in volume market, -continue sales expansion with models that meets regional needs and characteristics -develop and introduce models with local specifications





MOVE Made by EMEC machine-room-less elevator **LEHY** Made by SMEC elevator with machine room

-Increase the number of maintenance units by expansion of new installation
-Aim to grow as a cyclical development business for future renewal

Growth Strategy: (2) Strengthen Elevators & Escalators Business in Global Market

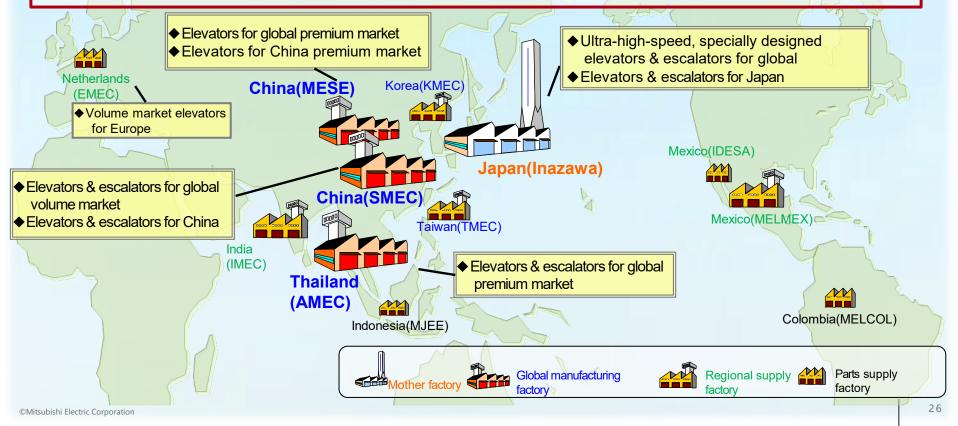


# China to be a major global development and production base in addition to Thailand

Enhance product competitiveness by consolidating global development and production into two bases

## Other bases to be regional development and production bases

Strengthen local development and introduction of models with local specifications that meet regional characteristics



Growth Strategy: (2) Strengthen Elevators & Escalators Business in Global Market



#### Expand maintenance and renewal business

### **1** Expand maintenance services utilizing ICT and Al

Further improve maintenance quality, sophisticate/optimize in maintenance service through utilization of remote monitoring/facility operation data

240,000 units as the largest number of maintenance units in Japan (as of October 2021)

High-quality 24/7 maintenance service with abundant field knowledge



Remote maintenance service "ELE FIRST Smart" utilizing AI, launched in Japan in April 2021

#### Advanced inspection services utilizing Al

Remote inspection is performed 24/7, and the modulation before failure is automatically notified to the information center. In addition to predicting deterioration signs and life of equipment and parts with AI and preventing failures, AI analysis is used to estimate the cause of failures and remote restarts reduce downtime due to failures.



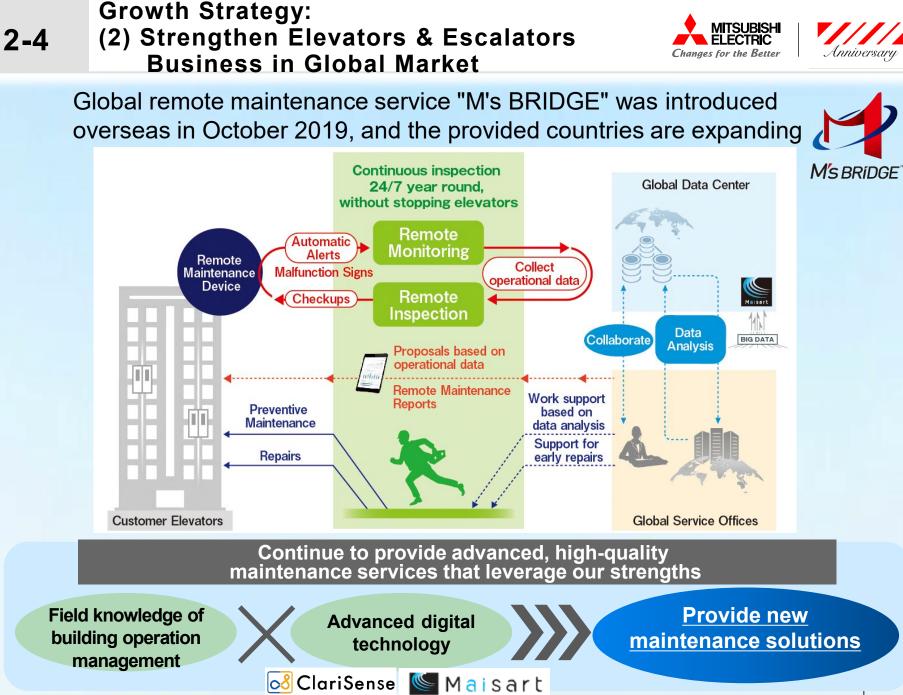
#### **Response to disasters**

• Automatically diagnoses elevators that have been stopped by the control operation device during an earthquake, and after confirming safety, resumes operation in a minimum of about 15 minutes.

(Ávailable up to 200Gal and seismic intensity 5+)



 Linked with "risk distribution of heavy rain warning (flood damage)" data of the Japan Meteorological Agency. When an alarm is issued, it automatically waits / pauses on the upper floors to reduce flood damage.



Growth Strategy: (2) Strengthen Elevators & Escalators Business in Global Market



### **(2)** Expand maintenance portfolio with multi-brand maintenance

Expand maintenance business by expanding the scope of maintenance services including other than our own products

<Japan> Utilizing the know-how of Hanshin Transport Co., Ltd. in our group, we will expand maintenance menus and develop a multi-brand maintenance system



#### <Overseas>

Aggressively carry out our group's maintenance activities, including products other than our own. At the same time, in order to acquire know-how for multi-brand maintenance, expand the maintenance menu, and strengthen the business foundation, we will consider capital participation and cooperation with maintenance-dedicated companies

By increasing the number of maintenance units, we aim to grow as a cyclical development business that will lead to future renewal

## Growth Strategy: (2) Strengthen Elevators & Escalators Business in Global Market



Since the export of the first unit to overseas in 1950, we have expanded our business to 94 countries, and aim to expand market coverage and acquire missing parts by promoting various strategies including capital participation and collaboration for further development

#### **Overseas business strategy**

- Strengthen product capabilities by launching new models and expand market coverage by utilizing regional production bases
- Rapid launch of products that meet market needs through collaboration and expansion of portfolio by capital participation in companies with manufacturing and development functions in the target area
- Expansion of maintenance business through capital participation and collaboration with a maintenance company
- Expansion of global remote maintenance service utilizing technology and know-how cultivated in Japan
- Building a regional-led management system by establishing the Regional Strategy Office
- Expansion of Smart Building business by utilizing original IoT platform
- Expansion of solution business in collaboration with air conditioning & refrigeration systems business

Utilize Mitsubishi Electric's strategic investment facility for capital participation and collaboration with companies with manufacturing and development functions and maintenance companies



## Contributing to solving social challenges to achieve sustainability

- ·Achieving a sustainable global environment by contributing to the spread of ZEB
- Realization of a safe, secure, and comfortable society through solutions to respond to the New Normal

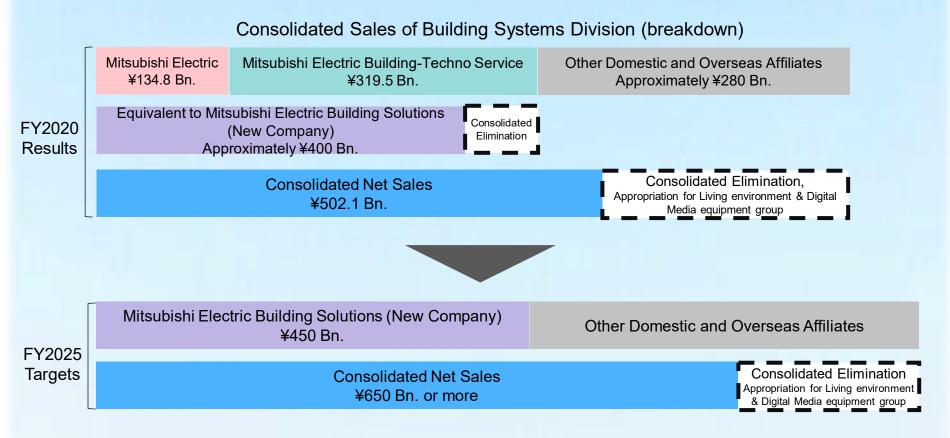




# Appendix



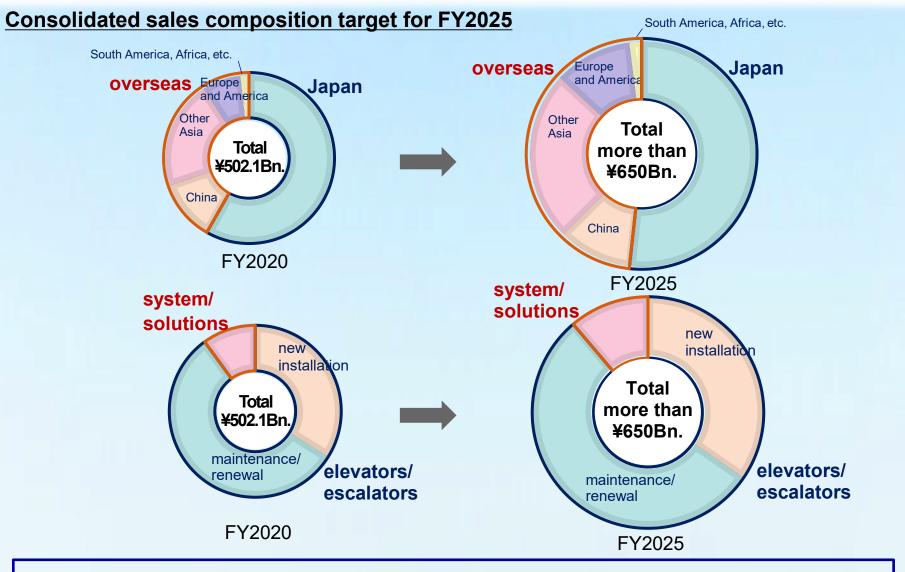
#### Consolidated sales and new company sales of building systems business



Aim for consolidated sales of ¥502.1Bn. in FY2020 to more than ¥650Bn. in FY2025

The new company aims to achieve sales of ¥450Bn. in FY2025, up from about ¥400Bn. which is equivalent to the actual amount of FY2020 (Including appropriation for Living environment & Digital Media equipment group)



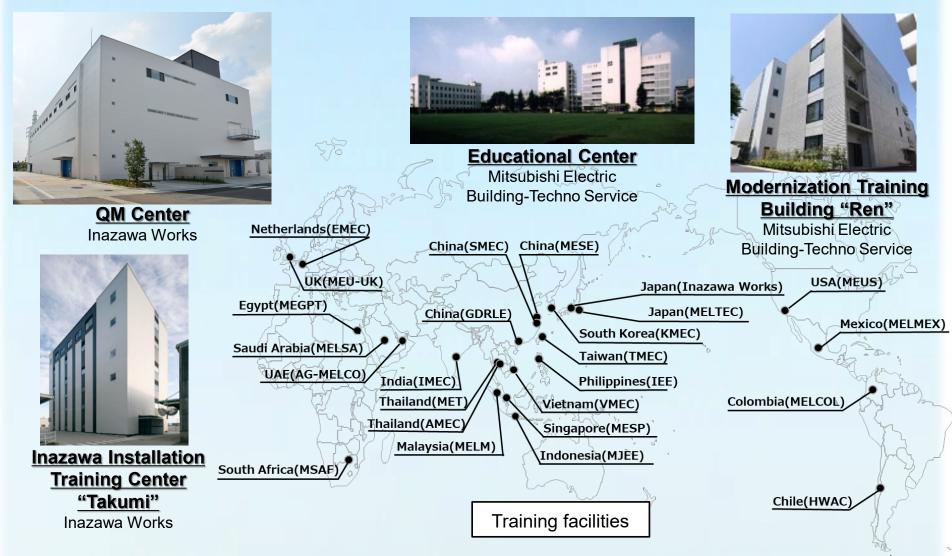


Expand overseas ratio from 42% to 48% by capturing overseas volume market and maintenance demand
 Expansion of new Installations, maintenance/renewal, and system/solutions





#### Main HR development and technnical verification facilities for maintaining and improving the quality of building system products and services





#### List of affiliated companies appearing in the materials

Abbreviation	Country	Name	Business summary
MELTEC	Japan	Mitsubishi Electric Building Techno-Service Co., Ltd.	maintenance / repair / installation of various building equipment and various electrical machinery / equipment and comprehensive management of the building
SMEC	China	Shanghai Mitsubishi Elevator Co., Ltd.	manufacturing / sales / installation / maintenance of elevators & escalators
MESE	China	Mitsubishi Electric Shanghai Electric Elevator Co.,Ltd.	manufacturing / sales / installation / maintenance / research / development / engineering of elevators
GDRLE	China	Guangdong Ryoden Lift & Escalator Co., Ltd.	manufacturing / sales / installation / maintenance of elevators & escalators
KMEC	South Korea	Mitsubishi Elevator Korea Co., Ltd.	manufacturing / sales / installation / maintenance of elevators & escalators
TMEC	Taiwan	Taiwan Mitsubishi Elevator Co., Ltd.	manufacturing / sales / installation / maintenance of elevators & escalators
AMEC	Thailand	Mitsubishi Elevator Asia Co., Ltd.	manufacturing / sales of elevators & escalators
MET	Thailand	Mitsubishi Elevator (Thailand) Co,. Ltd.	sales / installation / maintenance of elevators & escalators
IEE	Philippines	International Elevator & Equipment, Inc.	sales / installation / maintenance of elevators & escalators, refrigeration systems, generators
MJEE	Indonesia	PT. Mitsubishi Jaya Elevator and Escalator	manufacturing / sales / installation / maintenance of elevators & escalators
MELM	Malaysia	MITSUBISHI ELEVATOR MALAYSIA SDN. BHD.	sales / installation / maintenance of elevators & escalators, refrigeration systems, building equipment
MESP	Singapore	MITSUBISHI ELEVATOR (SINGAPORE) PTE. LTD.	sales / installation / maintenance of elevators & escalators, building equipment, and electronic equipment
VMEC	Vietnam	MITSUBISHI ELEVATOR VIETNAM CO., LTD	sales / installation / maintenance of elevators & escalators



#### List of affiliated companies appearing in the materials

Abbreviation	Country	Name	Business summary
IMEC	India	Mitsubishi Elevator India Private Limited	manufacturing / sales / installation / maintenance of elevators & escalators
AG-MELCO	UAE	AG MELCO Elevator Co. L.L.C.	sales / installation / maintenance of elevators & escalators
MELSA	Saudi Arabia	Mitsubishi Electric Saudi Ltd.	sales / installation of heavy electric appliances, elevators & escalators, and electronic devices, civil engineering work, and local transportation contracts
MEGPT	Egypt	MELCO-MEC Egypt for Elevators & Escalators	sales / installation / maintenance of elevators & escalators
MSAF	South Africa	Melco Elevator (South Africa) Pty. Ltd.	sales / installation / maintenance of elevators & escalators
EMEC	Netherland	Mitsubishi Elevator Europe B.V.	manufacturing / sales / installation / maintenance of elevators & escalators
MEU	Netherland	Mitsubishi Electric Europe B.V.	Mitsubishi Electric's general sales company in Europe (sales of refrigeration systems, semiconductors, automobile equipment, FA equipment, video information equipment, heavy electrical work, material procurement)
MEUS	USA	Mitsubishi Electric US, Inc.	Mitsubishi Electric's representative organization in U.S. and its sales subsidiary (refrigeration systems, elevators & escalators, semiconductors and video-information equipment, material procurement)
IDESA	Mexico	Internacional de Elevadores, S.A. de C.V.	manufacturing of elevators
MELMEX	Mexico	Mitsubishi Electric de Mexico,S.A. de C.V.	manufacturing / sales / installation / maintenance of elevators & escalators, and manufacturing / sales / maintenance of rolling stock systems
MELCOL	Colombia	Mitsubishi Electric de Colombia Ltda.	manufacturing / sales / installation / maintenance of elevators & escalators, and sales / installation / heavy electrical work of refrigeration systems
HWAC	Chile	Heavenward Ascensores S.A.	sales / installation / maintenance of elevators & escalators



#### Cautionary Statement

While the statements herein including the forecast of the Mitsubishi Electric Group are based on assumptions the Group considers to be reasonable under the circumstances on the date of announcement, actual results may differ significantly from forecasts. Such factors materially affecting the expectations expressed herein shall include but are not limited to the following:

- 1. Any change in worldwide economic and social conditions, as well as laws, regulations, taxation and other legislation
- 2. Changes in foreign currency exchange rates, especially JPY/dollar rates
- 3. Changes in stock markets, especially in Japan
- 4. Changes in balance of supply and demand of products that may affect prices and volume, as well as material procurement conditions
- 5. Changes in the ability to fund raising, especially in Japan
- 6. Uncertainties relating to patents, licenses and other intellectual property, including disputes involving patent infringement
- 7. New environmental regulations or the arising of environmental issues
- 8. Defects in products or services
- 9. Litigation and legal proceedings brought and contemplated against the Company or its subsidiaries and affiliates that may adversely affect operations or finances
- 10. Technological change, the development of products using new technology, manufacturing and time-to-market
- 11. Business restructuring
- 12. Incidents related to information security
- 13. Large-scale disasters including earthquakes, typhoons, tsunami, fires and others
- 14. Social or political upheaval caused by terrorism, war, pandemics, or other factors
- 15. Important matters related to the directors and executive officers, major shareholders and affiliated companies of Mitsubishi Electric Corporation



