

FY2019-2021 Mid-term Business Plan "Challenge 25"

June 6th, 2019

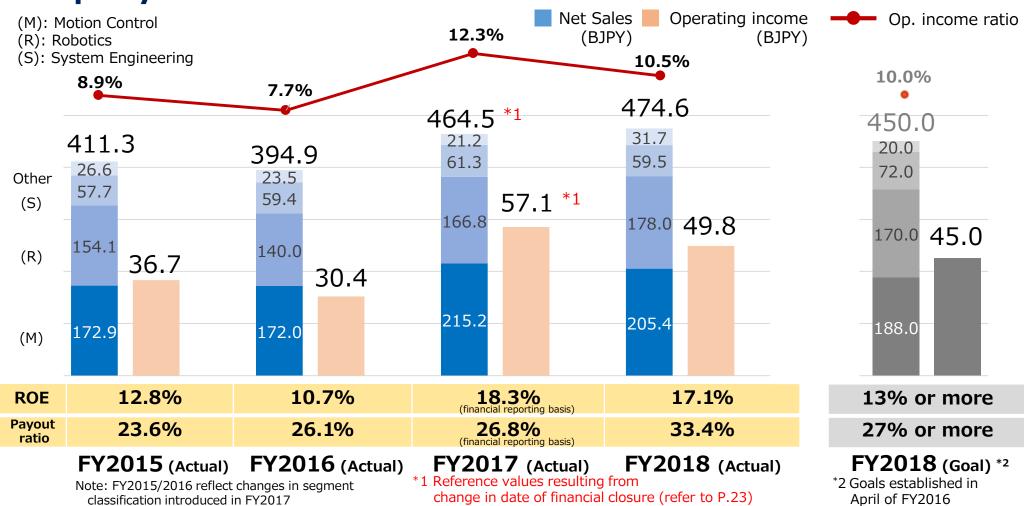
YASKAWA ELECTRIC CORPORATION

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Review of Previous Mid-term Business Plan "Dash 25"

Review of Previous Mid-term Business Plan "Dash 25" (1)

Company-wide financial indices for "Dash 25" were achieved



Mid-term Business Plan "Dash 25" (FY2016-FY2018)

Review of Previous Mid-term Business Plan "Dash 25" (2)

"Dash 25" achievements and challenges

Maximize Results of "Realize 100"

- Expanded lineup of core products and its sales
- ✓ Strengthened sales capabilities by integrating sales functions
- ✓ Expanded local production, particularly in China and EU

Establishing a competitive advantage for products and services in the automation domain

Build Foundation for Realizing "Vision 2025"

- ✓ Started new solution concept i³-Mechatronics
- Established FAMS Co. for fullfledged automation of food production
- ✓ Established AI Cube Inc., subsidiary for AI solutions

Creating businesses based on i³⁻Mechatronics concept

Grow Clean Power as Core Business

- Growth of sales and improved profitability for wind power generation equipment
- ✓ Launched new products for PV equipment
- ✓ Mass production of EV components at Chinese JV
- ✓ Restructuring of the global Clean Power business structure

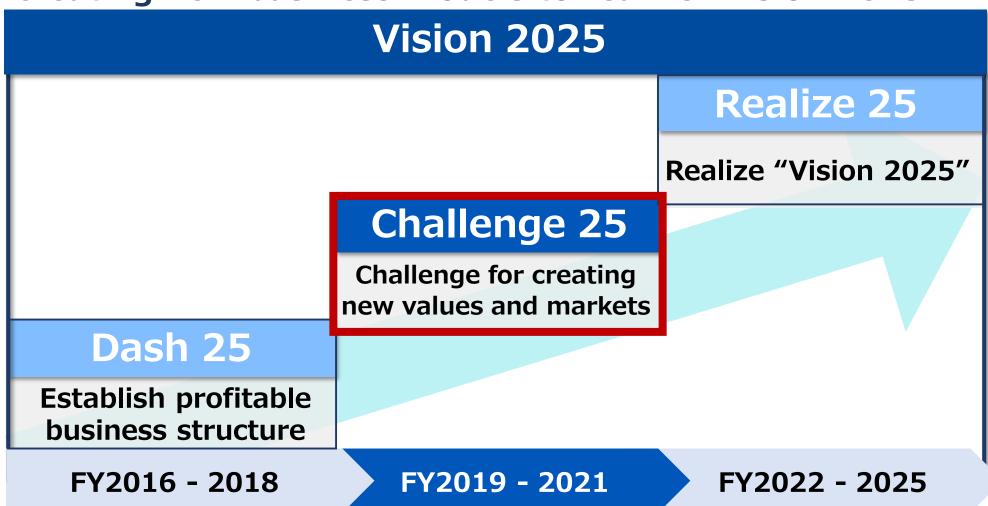
Building a stable profitability structure for Clean Power business

Develop measures for "Challenge 25"

New Mid-term Business Plan "Challenge 25" ~ Financial Targets and Basic Policies ~

Positioning of New Mid-term Business Plan "Challenge 25"

In "Challenge 25", Yaskawa will take on a challenge for creating new business models to realize "Vision 2025"



Net Sales and Operating Income Targets

Aim for operating income of 70.0 B.JPY and operating income ratio of 13.0% in FY2021, through setting "Operating Income" as the most important KGI for realizing Vision 2025

Net Sales: 474.6 B.JPY

Op. Income: 49.8 B.JPY

Op. Income ratio: 10.5%

Net Sales:

465.0 B.JPY

Op. Income: 46.5 B.JPY

Op. Income Ratio : 10.0%

Net Sales: 540.0 B.JPY

Op. Income: **70.0 B.JPY**

Op. Income Ratio: 13.0%

Exchange rate

1USD: FY2018 FY2021 110JPY 110JPY 1EUR: 129JPY 125JPY

FY2018 Actual FY2019 Plan

FY2021 Target

Net Sales and Operating Income Targets by Segment

		FY2018 Actual	FY2019 Plan*	FY2021 Target
Motion Control	Net Sales	205.4 B.JPY	207 B.JPY	240.0 B.JPY
	Op. Income	33.9 B.JPY	30.6 B.JPY	43.4 B.JPY
	Op. Income Ratio	16.5%	14.8%	18.1%
Robotics	Net Sales	178.0 B.JPY	175.7 B.JPY	210.0 B.JPY
	Op. Income	17.3 B.JPY	17.6 B.JPY	27.3 B.JPY
	Op. Income Ratio	9.7%	10.0%	13.0%
System Engineering	Net Sales	59.5 B.JPY	54.6 B.JPY	60.0 B.JPY
	Op. Income	0.1 B.JPY	0.7 B.JPY	1.8 B.JPY
	Op. Income Ratio	0.1%	1.2%	3.0%
	Exchange rate	1 USD: 110 JPY 1 EUR: 129 JPY	1 USD: 110 JPY 1 EUR: 125 JPY	1 USD: 110 JPY 1 EUR: 125 JPY

^{*}Figures reflect the impact of revision of segment classification from FY2019

Core Indicator of "Financial Capital Strategy"

Pursue "Financial Capital Strategy" aimed at raising corporate value

FY2019 Outlook FY2021 Target FY2018 Actual **Financial** 15.0% or more ROE*1 17.1% 13.8% 15.0% or more ROIC*2 17.2% 13.5% indicators Dividend 30.0% + a33.4% 38.9% **Payout ratio** FY2019-2021 Cumulative investment (Including M&A investment): **Investment Plan 100 B.JPY**(6.6% of cumulative net sales)

^{*1} ROE: Return on Equity = Net income attributable to owners of parent divided by shareholders' equity

^{*2} ROIC: Return on Invested Capital = Net income attributable to owners of parent divided by invested capital

Basic Policies of "Challenge 25"

Basic Policy 1



Transform
Business Model
through
i³-Mechatronics

Basic Policy 2



Maximize
Profitability in the
Growing "Robotics"
Business Field

Basic Policy 3



Expand New
Domains by
Strengthening
Resources through
"Selection and
Concentration"

Basic Policy 1.

Transform Business Model through i³-Mechatronics

Contribute to solving customer's managemental issues through evolution of production, sales and technology

Customers' management issues



Establish Sales Structure to Realize i³-Mechatronics

Develop Technologies and Products to Realize i³-Mechatronics



Centralization of technology and product development functions that accurately meets customer needs

Analysis of customer issues

Data linkage integration

Real-time feedback

Data analysis

Understand Customers' issues through approach to top management

Strengthen Manufacturing Function to Demonstrate i³-Mechatronics



Development of next-generation factories

that will transform manufacturing and business

Establish Sales Structure to Realize i³-Mechatronics

Establishment of a sales scheme that enables transformation to "Component + Digital Data Solution" sales

Contribute to solving issues through implementing i³-Mechatronics

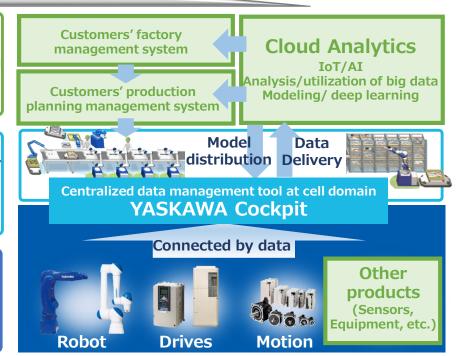
"Component"

"Digital data
Solution"
Sales

Solutions that leverage external resources including collaboration with partner companies

Achieve real-time data collection, visualization, and analysis through "YASKAWA Cockpit"

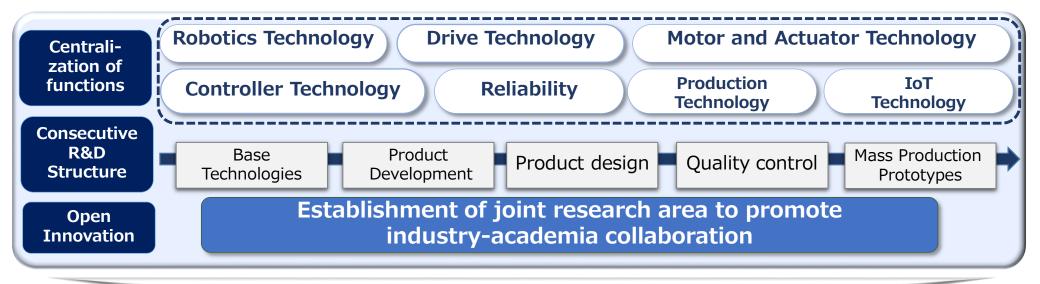
"Component sales" using Mechatronics products



Understand customers' management issues through communication between top managements

Develop Technologies and Products to Realize i³-Mechatronics

Increase product development speed by centralizing R&D functions to the YASKAWA Technology Center* (Tentative name)



*YASKAWA Technology Center (Tentative name):

YASKAWA's R&D base, which integrates the functions of technology & product development, and production technology development, from the development of base technologies to prototypes for mass production.

(To be established in 2020)

Develop Technologies and Products to Meet Customer Needs in a Timely Manner



*Completion image

Strengthen Manufacturing Function to Demonstrate i³-Mechatronics

Evolve i³-Mechatronics through implementation of the concept at the next-generation factory "YASKAWA Solution Factory*"

YASKAWA Solution Factory





Visualization and utilization of data





High efficiency

High-quality

Non-stop

Productivity improvement

Apply know-how gained from next-generation factory to product R&D

Propose specific solutions to improve customer's productivity

*YASKAWA Solution Factory:

A new AC-servo drive manufacturing plant that uses YASKAWA's automation technology and the latest ICT/AI technology to implement YASKAWA's Smart Factory and i³-Mechatronics concept **Expand YASKAWA Solution Factory concept to global sites**

Basic Policy 2. Maximize Profitability in the Growing "Robotics" Business Field

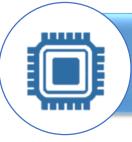
Promote business expansion in the rapidly growing "Robotics" market*1



Create presence in Chinese and Asian markets centered on "3C" *2 market



Promote initiatives with car manufacturers and parts manufacturers in "Automotive" market



Strengthen initiatives in the "Semiconductor" production equipment market

^{*1 &}quot;Robotics" Market: Automation areas including robots

^{*2 3}C: Abbreviations for consumer and digital communications equipment (from acronyms of Computer, Communication and Consumer Electronics)

Basic Policy 3. Expand New Domains by Strengthening Resources through "Selection and Concentration"

Centralize resources to fields where strength of mechatronics technology can be leveraged, and accelerate expansion of new business domains



Energy Saving

Energy saving devices

High efficiency motors

Expand application field



Food & Agri

Vegetable production system

HMR* Factory
Automation



Clean Power

Wind power
Solar power
Electric vehicle
(EV)

Enhance profitability



Rehabilitation equipment

Biomedical

Construct business model

Full-scale launch of business

*HMR: Home Meal Replacement

Expansion of Energy Saving Application through New Value Proposals

Expand scope of energy saving applications through high addedvalue proposals through combining high-performance AC drives and high-efficiency motors

- Improvement of machine performance through application-specific functions
 - High added-value through combined proposal of AC drives and highefficiency motors



Drive function field

Crane

Energy saving function field

Compressor

Water

treatment

Full-scale launch of Food & Agri business

Strengthen automation solutions for food production process

Challenges of Food Manufacturing Industry

Safety and health

Stable procurement of raw materials

Securement of labor productivity

Promote commercialization of automated solutions through collaboration with key partners

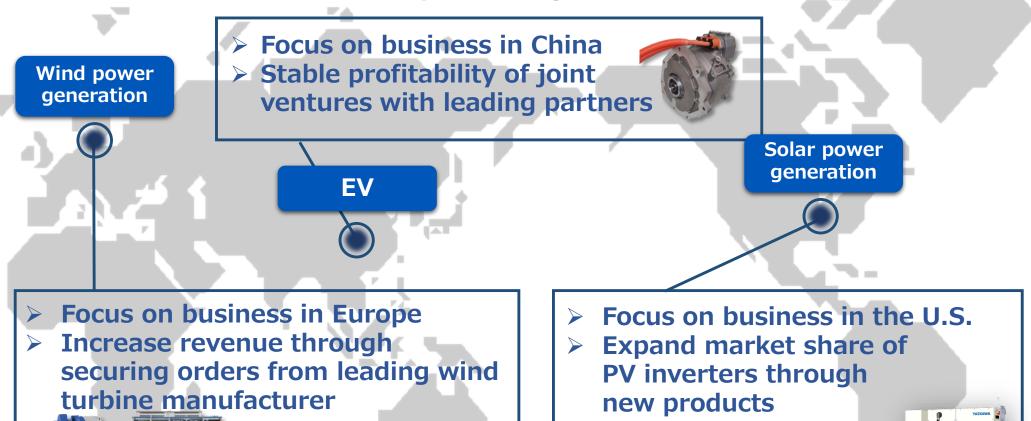




Realize "predictive maintenance" and "traceability" through i³-Mechatronics

Strengthen Profitability of Clean Power Business

Strengthen profitability by focusing on competitive fields and specific regions



Improvement of profitability by restructuring business structure



Building Business Models for Humatronics Equipment

Develop business model by expanding demonstration of Humatronics equipment

Rehabilitation Equipment

Deepen robot rehabilitation market by strengthening sales schemes and expanding product lineup



AR² for upper limb rehabilitation system



Ankle assist device AAD



Forearm rehabilitation device PR² (Under clinical evaluation)

- ✓ Strengthen sales activities with sales partners (leasing business, etc.)
- Enhance product capabilities by promoting clinical evaluation

Biomedical Robot

Establish trustee business of genome analytics by accelerating industry-academia-government collaboration

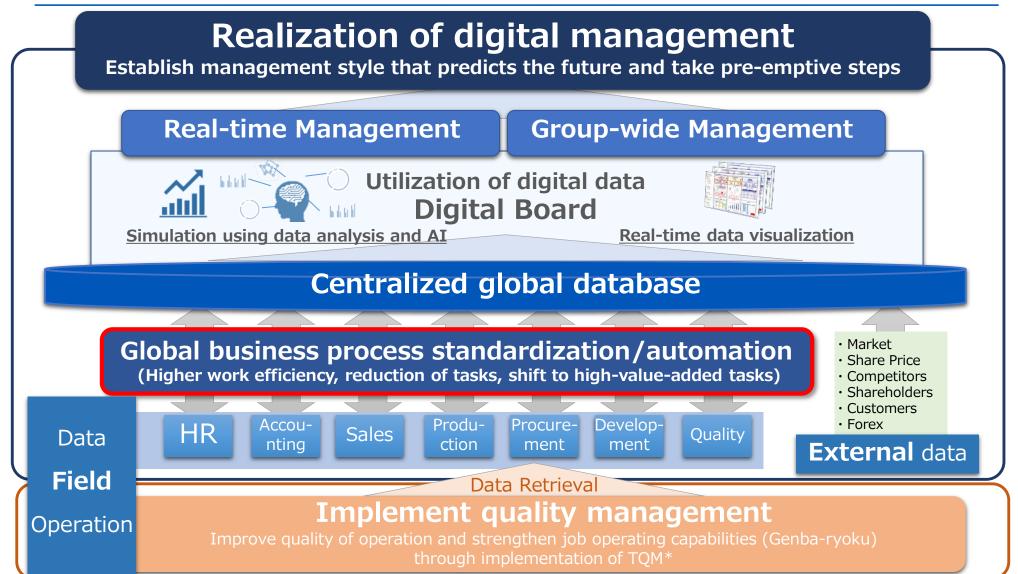


Life sciences research robot LabDroid

- Commercialize trustee business for preprocessing of cancer genome diagnostics
- Strengthen trustee business of genome analysis for drug discovery research

New Mid-term Business Plan "Challenge 25" ~ Enhancement of business foundation ~

Improve Management Efficiency through Digital and Quality Management



*TQM: Total Quality Management

Initiatives for Sustainable Social Development and Enhancement of Corporate Value

Energy saving and reduce environmental impact



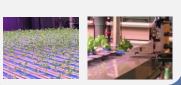
Increased use of renewable energy



Liberation from 3D labor through automation



Stable food supply by vegetable factories



Contribute to medical and welfare Sector



Environment



Environmental contribution through "Green products" and "Green Process" (CCE100*)

Green products:

Improve energy consumption by spreading the use of products **Green Process:**

Reduce effects on the environment throughout Yaskawa (e.g. 100% use of renewable energy at Japan HO)

Society



- Coexistence with glocal communities
- Support development of next-generation engineers by utilizing YASKAWA **Innovation Center**
- Guaranteeing product safety and quality
- Reform personnel system with emphasis on employee job satisfaction
- Empower highly diverse Human Resources
- Build a sustainable supply chain

Governance



- Establish a "defensive" governance system through measures against company compliance and internal control
- Strengthen initiatives for an "offensive" governance system using Corporate Governance Code

*CCE100: Contribution to Cool Earth 100; while reducing CO₂ emission, Yaskawa aims to reduce 100 times more CO₂ through its products

Customer

Dialogue & Co-creation

Distributor

Supplier

Shareholder Investor

Local Community

Student

Employees

Creating **social value** through

Business Activity

Corporate Activity

Dialogue & **Co-creation**

Disclaimer

- The Company changed its accounting period in fiscal 2017 from March 20 to the last day of February. The results of fiscal 2017 are shown as <reference>.
 The <reference> figures are based on an assumption that the accounting period remained unchanged (from March 21, 2017 to March 20, 2018).
- The information within this document is made as of the date of writing. Any
 forward-looking statements are made according to the assumptions of
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