#### **Yokogawa Electric Corporation**

# Fiscal Years 2018-2020 Mid-term Business Plan Transformation 2020



May 8, 2018



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Review of Transformation 2017 (TF2017) & Development Background of New Mid-term Business Plan

#### **TF2017 objectives**

# Establishing a foundation for growth by transforming our business structure

Three reforms

► FY17 Targets

#### **Customer focus**

- -Develop business by pursuing close relationships with customers.
- -Expand our business with our current customer base.

#### **New value creation**

- -ICT advances are leading to new business opportunities.
- -Co-create value across companies and markets by improving efficiency and achieving overall optimization.

#### Highly efficient global company

- -Globally optimize all functions and operations.
- -Be more profitable than our competitors.

| 11 or more  | ROE (%)                        |
|-------------|--------------------------------|
| 6 or more   | ROA (%)                        |
| 440.0       | Sales (billion yen)            |
| 45.0        | Operating income (billion yen) |
| 10.2        | ROS (%)                        |
| 100 or more | EPS (yen)                      |
|             |                                |

\*Exchange rate: 1\$=110 yen



#### TF2017 review: Three transformations

# We recorded various achievements, but certain issues need to be addressed speedily.

#### **Customer focus**

#### New value creation

#### Highly efficient global company

# Achievements

- Significantly enhanced ability to provide solutions to customers by acquiring KBC
- Provision of new solutions using the GRANDSIGHT<sup>TM</sup> value co-creation environment
- Started development of IIoT architecture

| Investment                       | Result                 | Achievement   |
|----------------------------------|------------------------|---|
| Strategic<br>investment<br>(M&A) | 34.1<br>billion<br>yen | Prepared way for growth of<br>solution service business<br>through M&A and other<br>means (9% sales growth<br>starting in FY14) |

# senss

- Creating synergy with KBC
- Roll-out of solutions business to new regions and industries
- Transformation of business model from the simple selling of product and services

- Centralized engineering function
- Improved efficiency of back office operations outside Japan
- Reduced production, logistics, and procurement costs

|                      | FY14   | FY17           | FY17             |
|----------------------|--------|----------------|------------------|
|                      | result | initial target | result           |
| Cost                 | -      | 20 billion yen | 13.2 billion yen |
| reduction            |        | (3 years,      | (3 years,        |
| (compared with FY14) |        | cumulative)    | cumulative)      |
| COGS ratio           | 58.3%  | 57% or less    | 56.9%            |
| SG&A ratio           | 34.4%  | 32.8% or less  | 35.1%            |

- Reduction of fixed costs
- Achieving a more radical improvement in the efficiency of business processes
- Transformation of SG&A structure



#### **TF2017 review: Management indicators**

- The market downturn was greater than anticipated due mainly to declining oil prices.
- No matter what happened in our business environment, our major objective was to improve profitability.

#### Management indicators

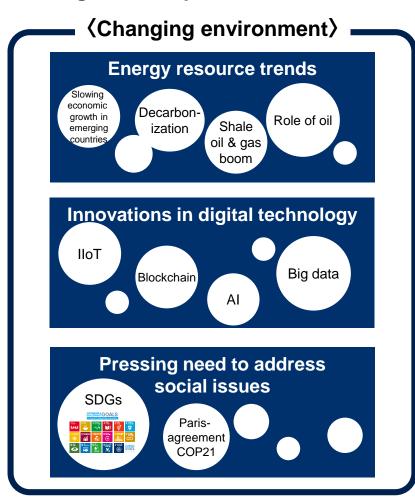
|  | FY14<br>results (A) | TF2017<br>targets (B) | FY17<br>results (C) | Difference<br>(C) – (B) |
|--|---------------------|-----------------------|---------------------|-------------------------|
| ROE (%)  | 8.6                 | 11 or more            | 8.1                 | (2.9)                   |
| ROA (%)  | 4.1                 | 6 or more             | 4.8                 | (1.2)                   |
| Sales (billion yen)                                    | 405.8               | 440.0                 | 406.6               | (33.4)                  |
| Operating income (billion yen)                         | 29.8                | 45.0                  | 32.7                | (12.3)                  |
| ROS (%)  | 7.3                 | 10.2                  | 8.0                 | (2.2)                   |
| EPS (yen)  | 66.9                | 100 or more           | 80.27               | (19.73)                 |
| Operating cash flow (3 years, cumulative, billion yen) | -                   | 100.0                 | 103.1               | 3.1                     |
| E 1 40   | 440.50              | 440                   | 440.70              |                         |

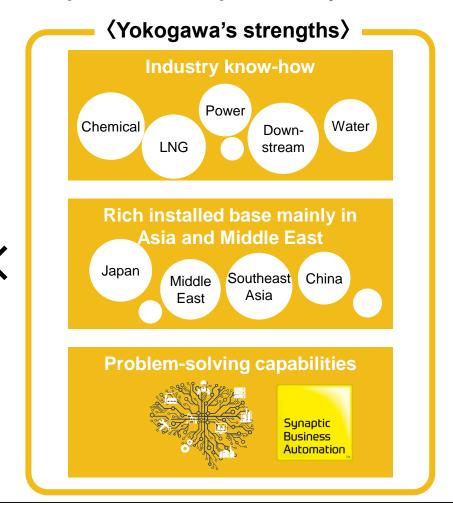
Exchange rate: 1\$ 110.58 yen 110 yen 110.70 yen



#### **Changes to environment & current situation**

- Change to a growth model that is not dependent on conventional energy resources.
- We believe that the current situation provides us a good opportunity to use our strengths to help our customers realize radical improvements in productivity.





#### Development of new mid-term business plan



Establishing a foundation for growth by transforming our business structure

Due to factors such as a greater than anticipated decline in the oil price and slowing economic growth in emerging countries, the market suffered a downturn and competition increased.

Declining investment by our customers (CAPEX stagnation ⇔ OPEX firm growth)

Our existing businesses face an uphill struggle: sales are flat for energy-related businesses. Reform growth model: opportunities for growth as a result of innovations in digital technology, SDGs, and other changes in our external environment

In order to improve profitability, we must continue to transform ourselves.

New mid-term business plan
Transformation 2020

Creating opportunities and establishing a foundation for growth

Build a sustainable society.







#### Long-term business framework



Through "Process Co-Innovation," Yokogawa creates new value with its customers for a brighter future.

Delivering maximum economic value to our customers and addressing social issues

Benefiting society and the environment through the solutions that we provide to our customers

Business areas to focus on

Mid- to long-term view

✓ Natural resources, energy, and material-related industries

✓ Industries supporting health and the enrichment of lives

**Long-term view** 

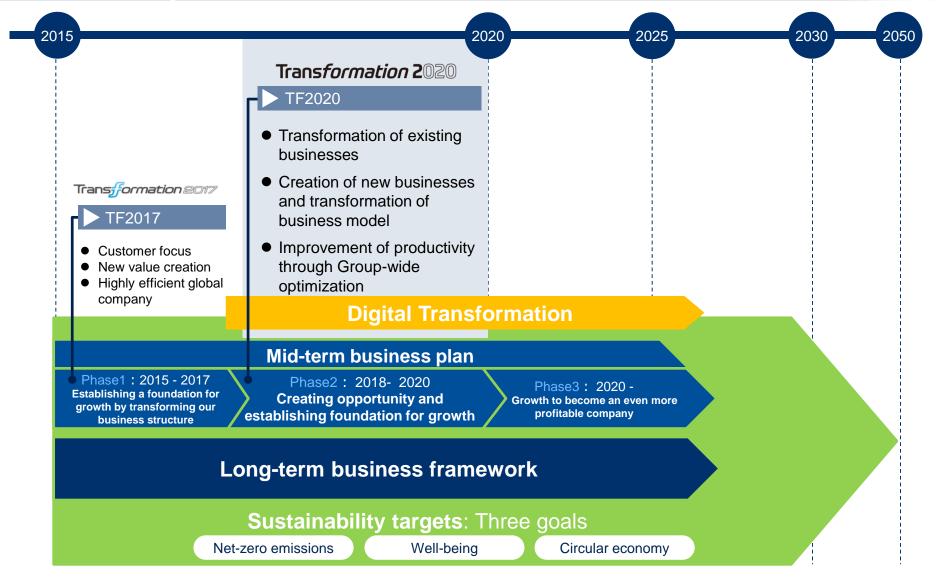
√ Bio-economy business

#### Addition of bio-economy to business focus areas

- Promising new markets are expected to emerge in the health and food industries
- Ability to utilize the measurement and control expertise and technologies that we have developed through our work for customers in the manufacturing sector
- Our efforts in the bioprocess technology field are contributing to the achievement of a sustainable society



# Overview of long-term business framework and mid-term business plan





#### Sustainability targets: Three goals

Selected themes that will have a major impact on our customers, society, and the environment and which we seek to address through

our business activities

Vision toward 2050 (Three goals)



Renewable and

low-carbon energy





Material theme and sustainability stories

Reduction of CO2 emissions through offering of renewable energy and LNG solutions

# Life innovation and safety

Support people's health and prosperity through provision of life-innovation solutions and assurance of safe and comfortable workplaces

## **Energy saving** and resources

Contribute to sustainability and economic growth through stable and efficient operation, and resource regeneration

Related SDGs target

















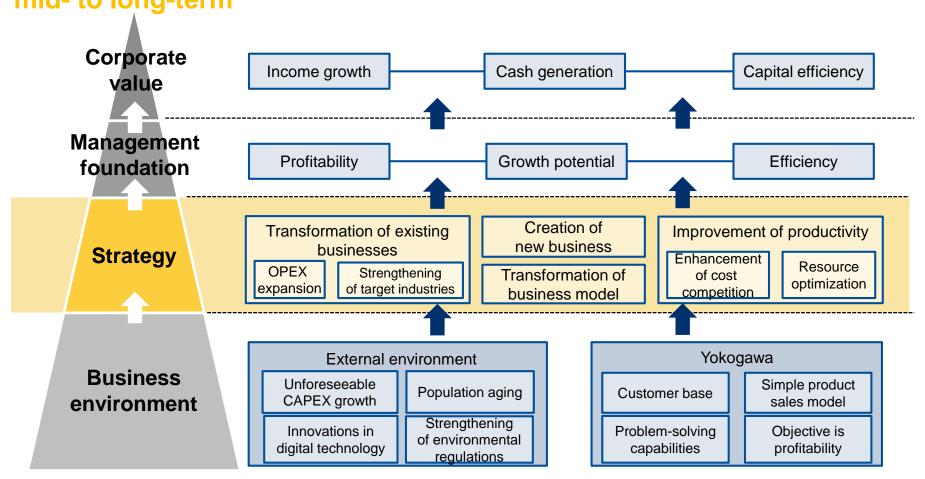




# New Mid-term Business Plan Transformation 2020 Creating opportunity and establishing foundation for growth

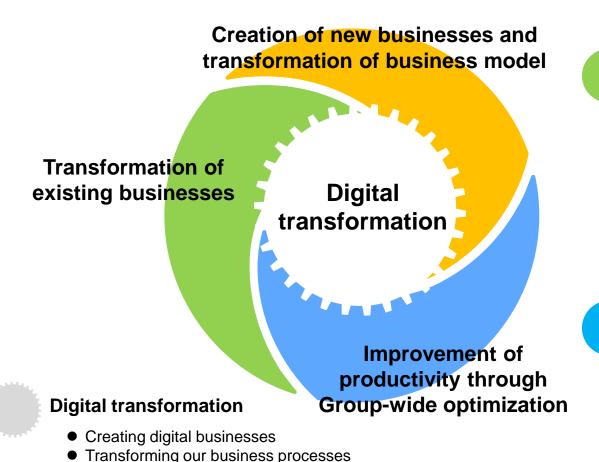
#### Transformation 2020 (TF2020) overview

Based on an accurate understanding of our business environment, we have formulated a strategy for maximizing our corporate value over the mid- to long-term



#### TF2020 basic strategy

#### Transform our businesses to achieve a sustainable society.



• Strengthening our information technology infrastructure

#### Working with customers to radically improve productivity

- Expansion of the OPEX business
- Further strengthening of target industries

## Sustainably creating value through innovation

- Creation of life innovation business
- Creation of recurring model business

## Significantly improving business efficiency

- Enhancing cost competitiveness
- Optimizing utilization of resources



#### **Expansion of OPEX business**

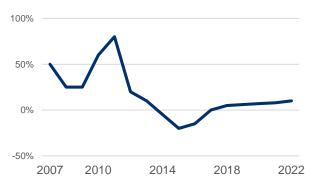


#### Focusing on our installed base to expand the OPEX business

#### Background

- Customers are shifting investment from CAPEX to OPEX.
  - -CAPEX: New plant construction
  - -OPEX: Revamp of existing plants to improve productivity

#### Oil & Gas Industry, CAPEX growth ratio for IA market



Source: ARC Capital Expenditure Report

#### Strategy

- Expand our Japan solutions business and KBC's consulting business to other regions and industries.
- Utilize data obtained from a rich installed base to optimize the service business.

#### Target

#### OPEX growth\*: 7 to 10% per year

\* Control business OPEX orders

Note: Project orders exceeding 1 mil. USD are considered CAPEX; anything less
than this amount is regarded as OPEX.

#### Portfolio

- Control systems, field instruments
- KBC consulting
- Energy-saving, cyber security, and other solutions





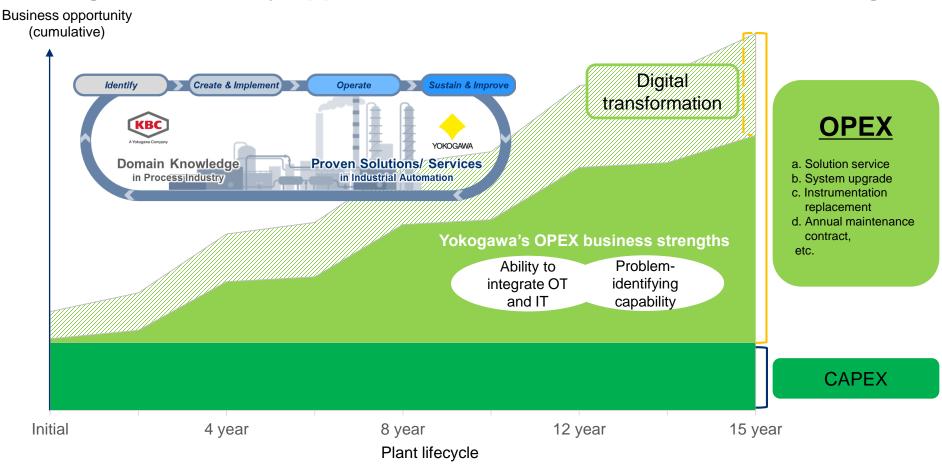




#### Plant lifecycle (example of a Japan chemical project)

An OPEX business is cumulative, providing solutions over the entire lifecycle of a plant.

Yokogawa has many opportunities in this field to exercise its strengths.



#### Further strengthening in target industries (chemical, renewable energy

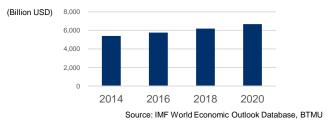


#### **Expansion of business in growth industries**

#### Background

- Investment is expected to increase in the chemical industry due to economic growth in emerging countries and strengthening environmental regulations.
- Efforts to reduce CO2 emissions by building renewable energy plants are accelerating.

#### □ Chemical market outlook



■ World electricity generation by source (New policies)



Source: IEA, World Energy Outlook 2017

#### Strategy

- Expand our bulk chemical and specialty chemical businesses outside Japan.
- Develop new renewable energy markets.

#### Target

Targeted growth\*: 3 to 5% per year

\*Control orders in chemical and renewable energy industries

#### Portfolio

- Control systems, field instruments
- Manufacturing execution systems
- Information systems
   (asset management systems)
- KBC consulting











#### **Creating sustainable value through innovation**

#### **Creation of life innovation business**



# Focusing on the pharmaceutical and food industries, establish a support business that improves safety and enriches lives.

#### Environmental changes and issues

- The business environment has changed significantly due to issues such as population growth in developing countries and population aging in developed countries.
- The need to address a variety of global social issues is leading to the development of bio technology solutions using genome and digital technologies and a change in general attitudes on health, food, and medicine.



#### Aim

• Through the use of measurement, control, and information technology, radically improve productivity across the entire value chain, from basic research to logistics and services.

#### Strategy

- Expand business based on existing pharmaceutical/food industry businesses and new technologies and products that are under development.
- Expand solutions portfolio by actively utilizing external resources and M&A.

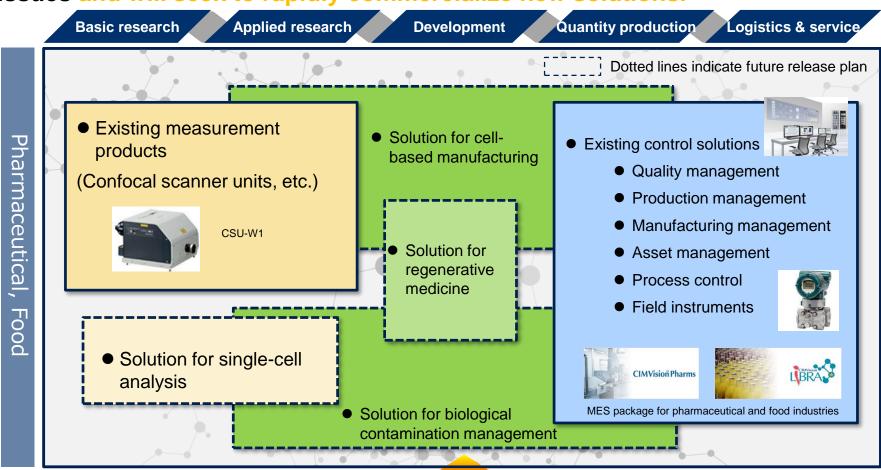
#### Target

Through new businesses, increase orders\* **2 to 3 times** by FY20 (compared to FY17)
\*Orders for pharmaceutical and food industries \*FY17 result: approx. 10 billion yen



#### Solutions that improve safety and enrich lives

Areas in which we can make an important contribution in addressing social issues and will seek to rapidly commercialize new solutions.



#### M&A, alliance



#### Moving to a recurring business model



#### Transform from simple selling model to recurring model

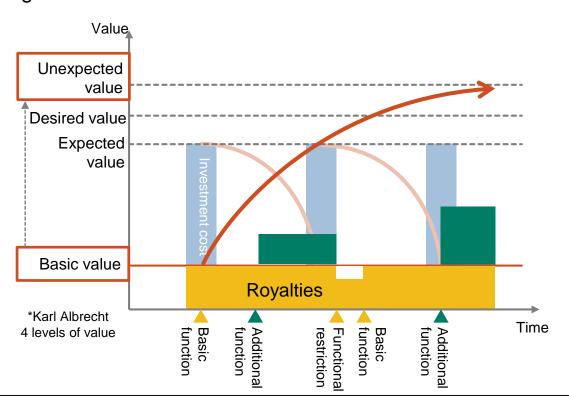
- Benefit: Reduction of customers' initial costs and stabilizing our revenue
- Strategy: Use the IIoT cloud platform that is under development.
   First, roll this out to new businesses. Then, using the know-how that has been gained, roll out to existing businesses.

#### Simple selling model

- Need to adapt to technology
- Continue maintenance to maintain value
- When replacing, opportunity for other companies to enter the project

#### Recurring model

- Platform is always up to date
- Improve functionality with periodic application update
- Personalized services

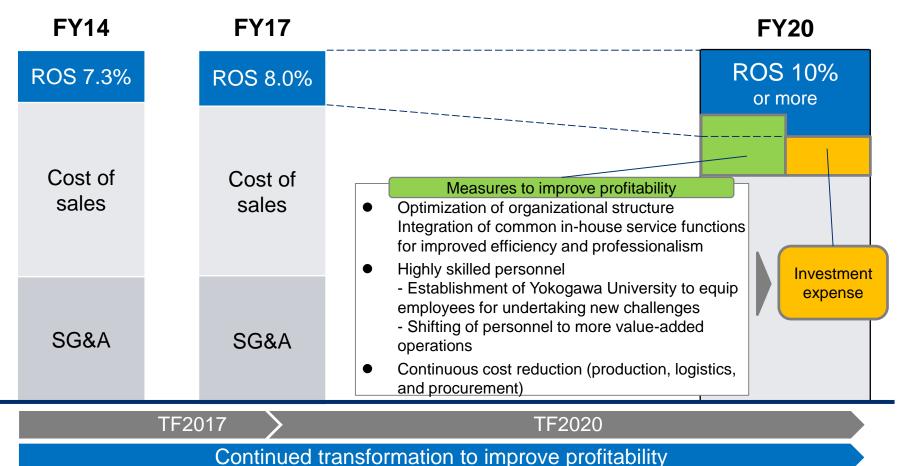




#### Improvement of productivity through Group-wide optimization



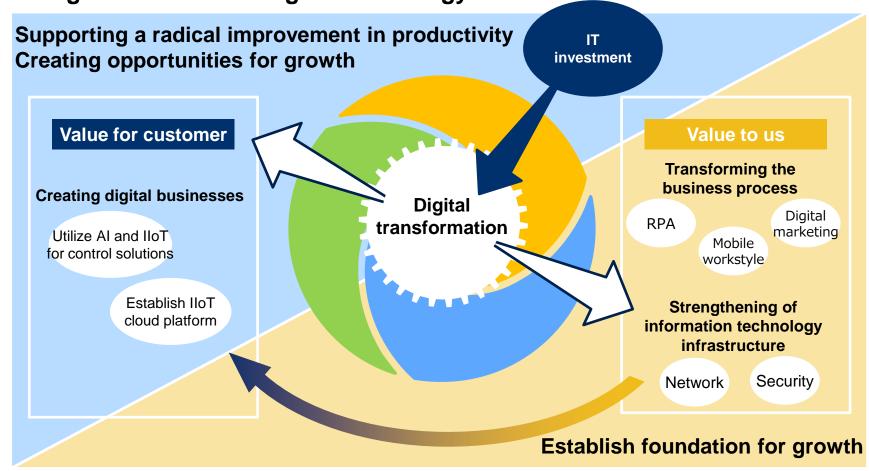
Establish foundation for mid- and long-term growth: Improve profitability to generate the funds needed to invest in growth (10 billion yen).



#### **Digital transformation**

Digital technology is the foundation for all our transformations.

Creating opportunities and establishing a foundation for growth by making the best use of digital technology



#### Measurement business, aviation & other businesses



- •Focusing on competitive products
- Targeting new growth markets













Oscilloscopes, optical test equipment

Aviation & other

Transform into growing businesses





Flat panel displays, gyrocompasses



#### **Management indicators**

By creating opportunities and establishing a foundation for growth, maximize corporate and shareholder value over the mid- to long-term.

#### Points

- Expanding business in focus areas and exceeding the market growth rate
- Increasing profitability regardless of what happens in external environment
- Reallocating management resources to focus areas
- Maximizing cash generation by increasing income and improving capital efficiency

#### Targets

| Order & sales<br>growth | <b>3</b> to <b>5</b> %/ year                        |
|-------------------------|---|
| EPS growth              | <b>7</b> to <b>9</b> %/year*1                       |
| ROS                     | <b>10</b> % or more (FY20)                          |
| ROE                     | <b>10</b> % or more (FY20)                          |
| Organic FCF*2           | <b>85</b> billion yen or more (3 years, cumulative) |

Exchange rate (1\$): 110 yen



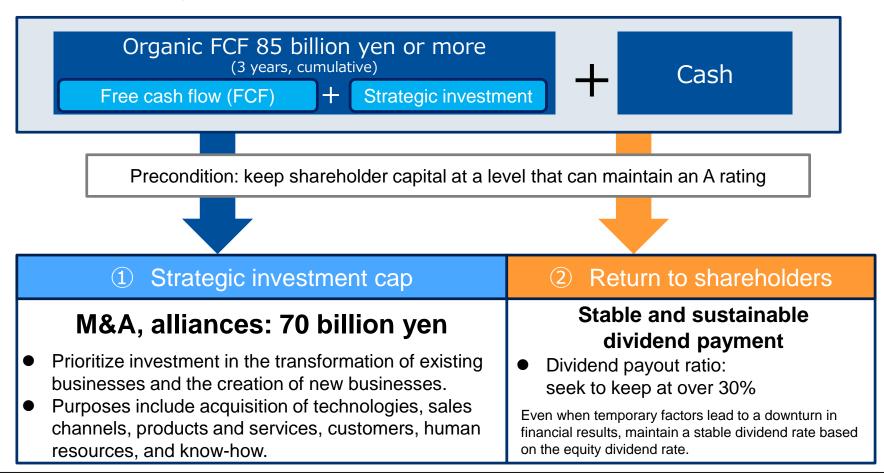
<sup>\*1</sup> Excluding the FY17 impairment of goodwill, credit to allowance for doubtful accounts, and asset sales

<sup>\*2</sup> Free cash flow (FCF) + strategic investment (3 year cumulative total of 70 billion yen)

#### Treasury strategy and capital policy

Prioritize investments that maximize corporate value over the mid- to long-term.

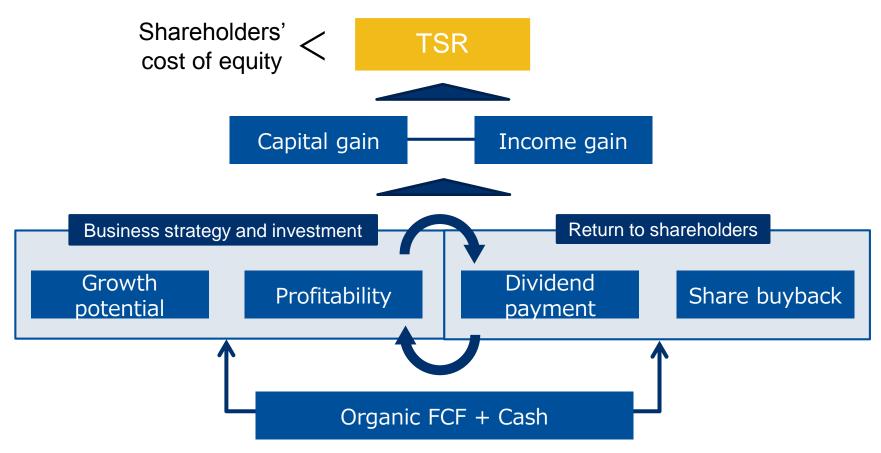
Also, proactively increase dividends.



#### Shareholder value

Ensure that TSR\* exceeds shareholders' cost of equity while seeking to maintain a close dialogue with the capital markets (investor relations).

Maximizing the shareholder value over the mid- and long-term

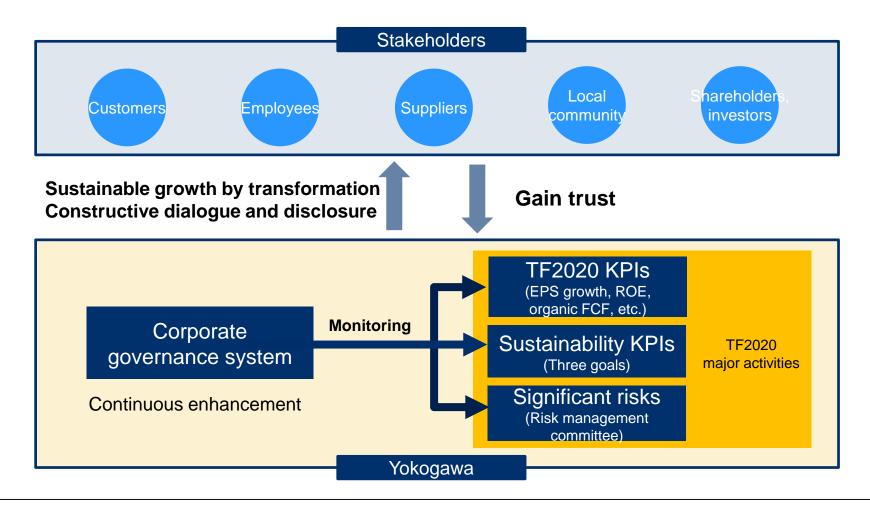


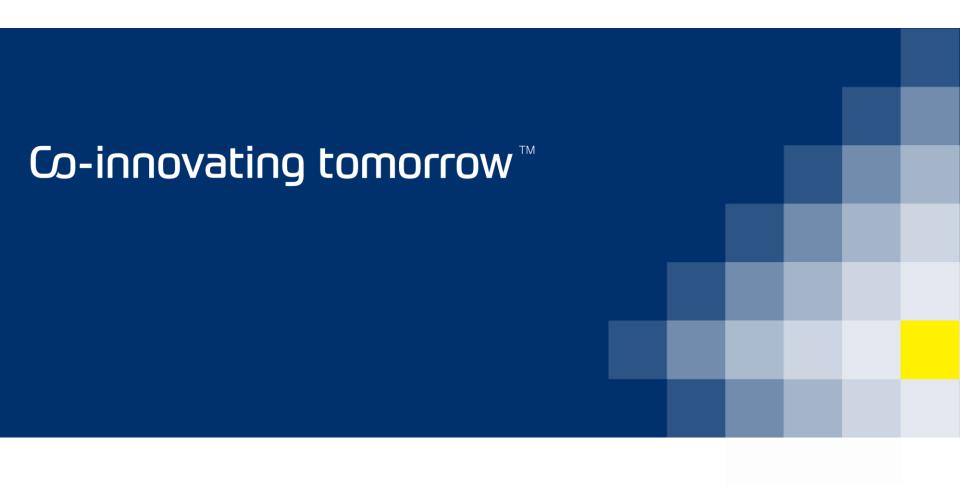
\*TSR: Total Shareholders Return



#### **Corporate governance**

While monitoring to ensure the achievement of all key TF2020 transformation targets, work to gain the trust of all stakeholders.







#### Reference: Enhancement of corporate governance

|        |  |    |         | ors          | Auditors |         | Officers |                            |
|--------|--|----|---------|--------------|----------|---------|----------|----------------------------|
| Year   | Action   | In | outside | Outside<br>% | in       | outside |          | (doubling as board member) |
| 2003   | Introduced outside directors   | 7  | 1       | <b>13</b> %  | 2        | 2       | 24       | 6                          |
| 2004   | Abolished retirement bonuses for directors   | 7  | 1       | <b>13</b> %  | 2        | 3       | 24       | 6                          |
| 2005   |  | 7  | 1       | <b>13</b> %  | 2        | 3       | 26       | 6                          |
| 2006   | Introduced one year tenure system for directors and revised articles of incorporation to reduce number of directors $(25\Rightarrow15)$  | 9  | 1       | 10%          | 2        | 3       | 27       | 7                          |
| 2007   | Increased number of outside directors Introduced takeover defense measures   | 8  | 2       | 20%          | 2        | 3       | 29       | 5                          |
| 2008   | The oddeed takeover defense medsures   | 7  | 2       | 22%          | 2        | 3       | 28       | 5                          |
| 2009   | Increased number of outside directors Renewed takeover defense measures  | 7  | 3       | 30%          | 2        | 3       | 15       | 5                          |
| 2010   |  | 5  | 3       | 38%          | 2        | 3       | 14       | 3                          |
| 2011   | Renewed takeover defense measures<br>Sold shares of a listed affiliate   | 4  | 3       | 43%          | 2        | 3       | 15       | 2                          |
| 2012   |  | 4  | 3       | <b>43</b> %  | 2        | 3       | 14       | 3                          |
| 2013   |  | 4  | 3       | <b>43</b> %  | 2        | 3       | 12       | 1                          |
| 2014   | Established Nomination and Compensation Committee (voluntary advisory body) Discontinuation (non-renewal) of takeover defense measures Introduced standards to ensure independence of outside directors  | 6  | 3       | <b>33</b> %  | 2        | 3       | 12       | 3                          |
| 2015   | Established Nomination Advisory Committee and Compensation<br>Advisory Committee (voluntary advisory bodies)<br>Conducted outside evaluation of Board of Directors<br>Established Yokogawa Corporate Governance Guidelines                         | 6  | 3       | <b>33</b> %  | 2        | 3       | 11       | 3                          |
| 2016   | Increase number of outside directors Introduction of a Restricted Stock Compensation Plan  | 6  | 4       | 40%          | 2        | 2       | 12       | 3                          |
| 2017   | Appointed a woman as an outside member of the Audit & Supervisory Board Appointed 2 foreign nationals as officers  | 6  | 4       | 40%          | 2        | 3       | 17       | 4                          |
| (Plan) | Abolishment of the Senior Advisor, Advisor, and Honorary Corporate Associate Positions An Outside Director will be nominated for the position of chairman of the Board of Directors Introduction of new performance-linked stock compensation plan | 5  | 4       | 44%          | 2        | 3       | 17       | 4                          |
|        | (performance share unit plan)  |    |         |              |          | VOK     | ( )( -   | ΔΛΛΔ                       |

Co-innovating tomorrow

#### Reference: Yokogawa's main ESG indexes

As of May 2018

DJSI-Asia Pacific FTSE4Good Index Series MSCI ESG Leaders Indexes CDP MS-SRI FTSE Blossom Japan Index

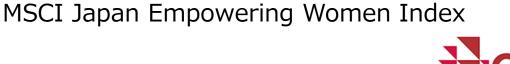
MSCI Japan ESG Select Leaders Index

MEMBER OF Dow Jones Sustainability Indices In Collaboration with RobecoSAM (





2017 Constituent MSCI ESG
Leaders Index













#### **Disclaimer**

The information pertaining to our business plans and forecasts that has been provided in this presentation and at analyst meetings contains forward-looking statements that are based on our management's current knowledge and require the making of assumptions about future events.

As such, it cannot be guaranteed that these statements will not differ materially from actual results.

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The information has not been restated to reflect the revision of the initially allocated acquired costs that was decided upon finalization of the tentative accounting treatment.

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