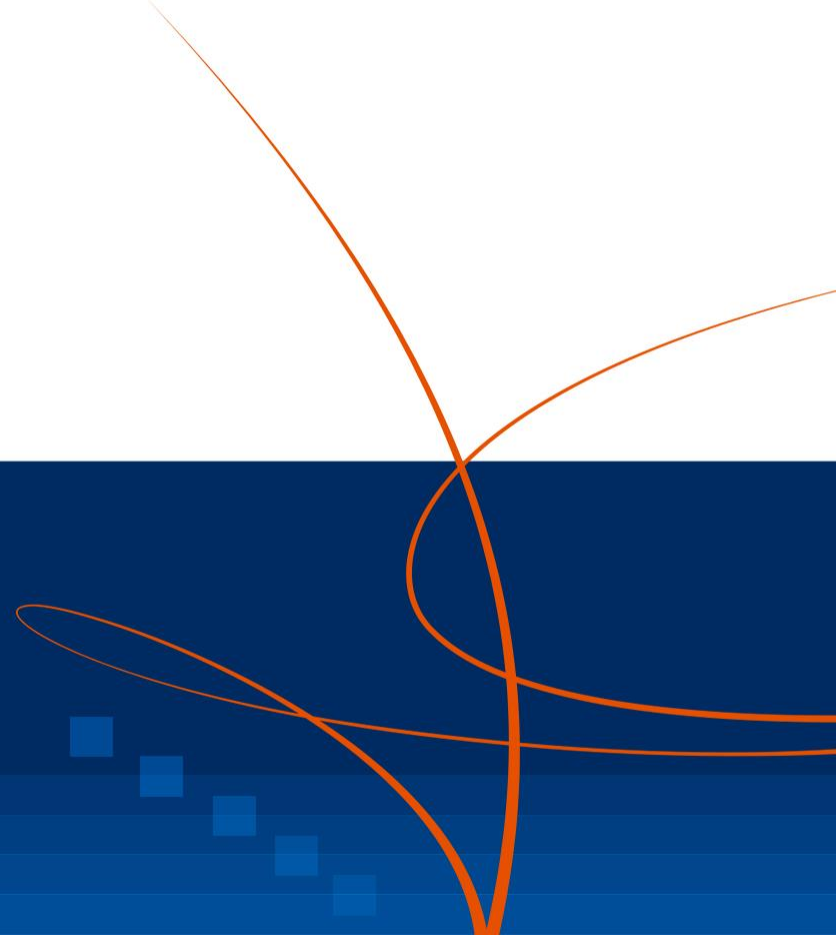


Enterprise Business

Kazuhiro Sakai, Executive Vice President



Overview of Enterprise Business Unit

- Provide advanced integrations of systems and services to private sectors including manufacturing, retail and services, and finance
- Going forward, expand cross-industry service platform-based businesses (new businesses) and provide solutions to deal with social issues

<Base Business: Major Solutions>

- **Manufacturing:** Global SCM systems (syst.),
Product lifecycle management syst.,
Production management syst.
- **Retail and services:** Retail syst. for stores and head offices,
Logistics management syst.
- **Finance:** Banking syst., Business branch syst.,
Insurance and securities infrastructure syst.

<Service Platform-based Business>

- **NEC Value Chain Innovation**

Orchestrating a brighter world

NEC
Safer Cities



Realize safe, comfortable,
efficient and fair society

NEC
Value Chain
Innovation

NEC Smart Connectivity



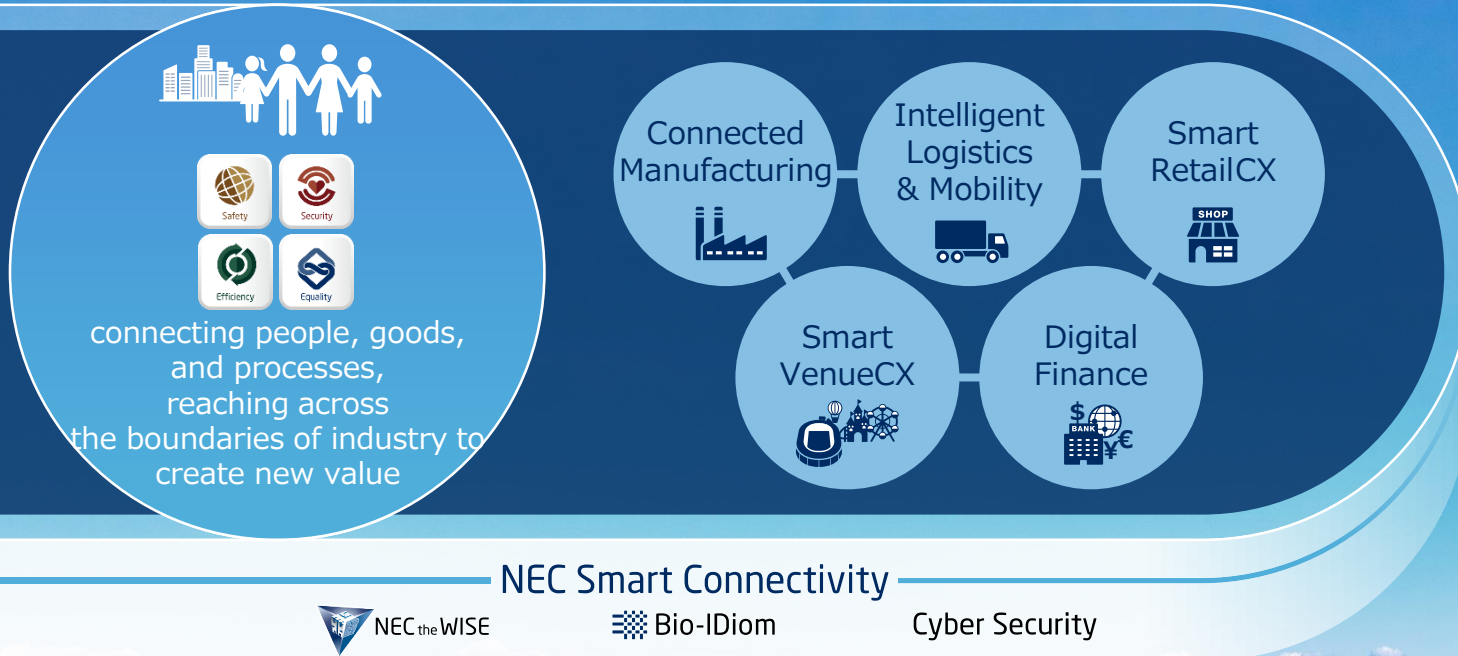
NEC the WISE



Bio-IDiom

Cyber Security

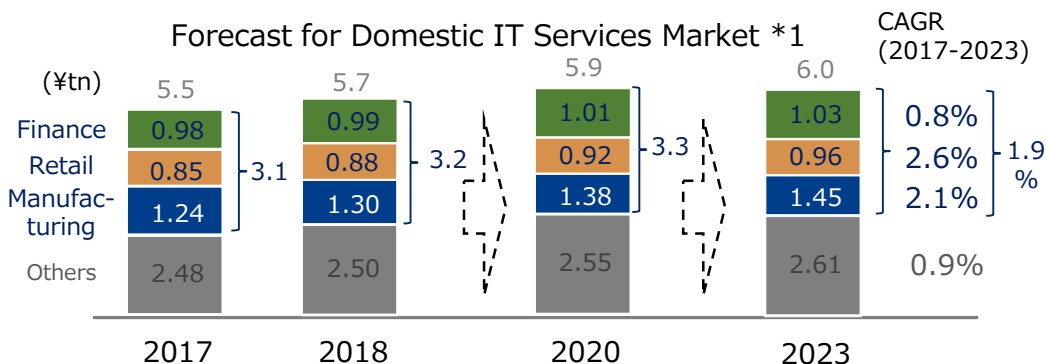
NEC Value Chain Innovation



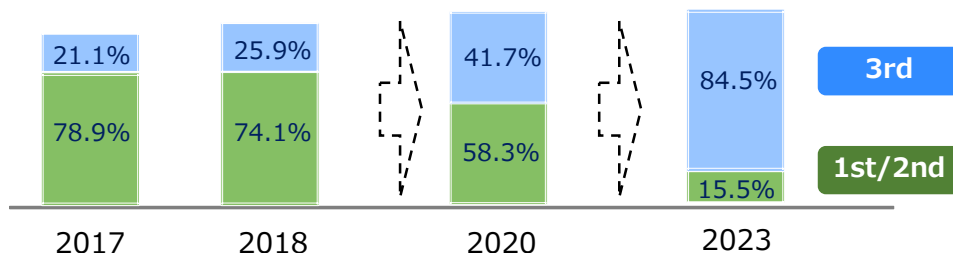
Market Environment

Domestic IT services market grows steadily driven by the 3rd platform

Market Size and Technology Trend



Forecast for Spending on 1st/2nd Platforms and 3rd Platform in Domestic IT Services Market *2



● Change in Domestic IT Services Market

- Overall market continues steady growth
- Market components change sharply (IDC: expansion of 3rd platform)

● Trends among Competitors

- Focus on new domains like AI/IoT/5G

*1: Calculated based on IDC Japan, February 2019
"Japan IT Services Forecast by Vertical Segment 2019-2023"

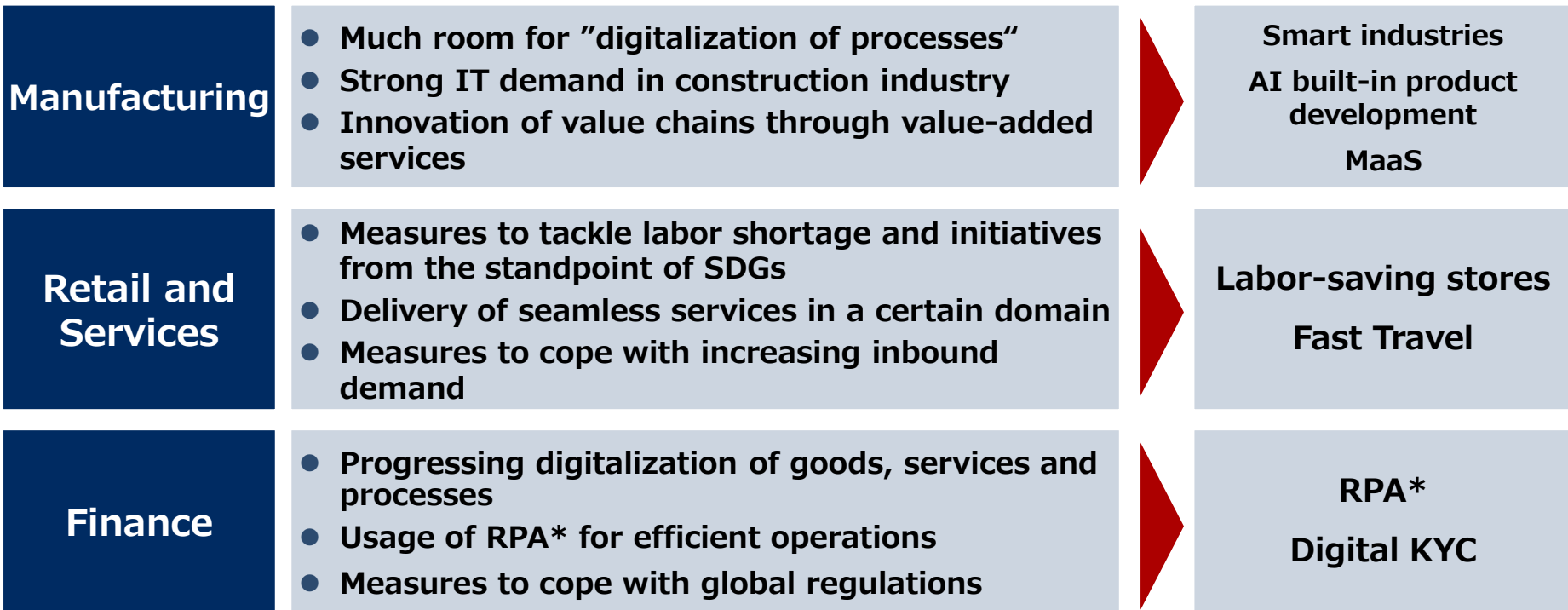
*2: IDC Japan, June 2018
"Japan 3rd Platform Forecast by Vertical Segment and Company Size 2018-2022"

*2: IDC Japan, June 2019
"Japan 3rd Platform Forecast by Vertical Segment and Company Size 2019-2023"

Definitions of platforms (IDC):
1st: mainframes, 2nd: client servers,
3rd: cloud, business analytics, enterprise mobility, and social business
Figures for the 3rd platform are simple sums from the four domains.
Actually there is considerable overlap

Business Opportunities by Sector

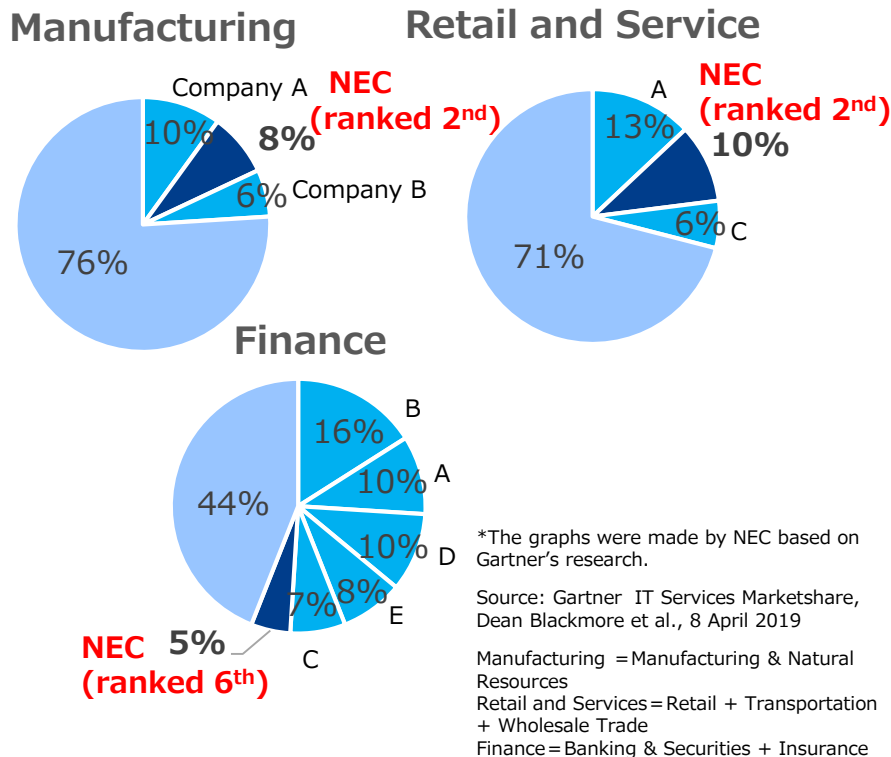
- Among all sectors, strong demand for business innovation and business process re-engineering through digitalization



* Robotic Process Automation

NEC's Positioning

Shares in Domestic Markets



NEC's Strengths and Challenges

Strengths

- Long-standing customer relationship and trust
- Ability to integrate advanced technologies and businesses
- Knowledge and expertise developed in our own manufacturing business

Challenges

- Securing IT personnel corresponding to market demand
- Initiatives for external collaboration such as open innovations

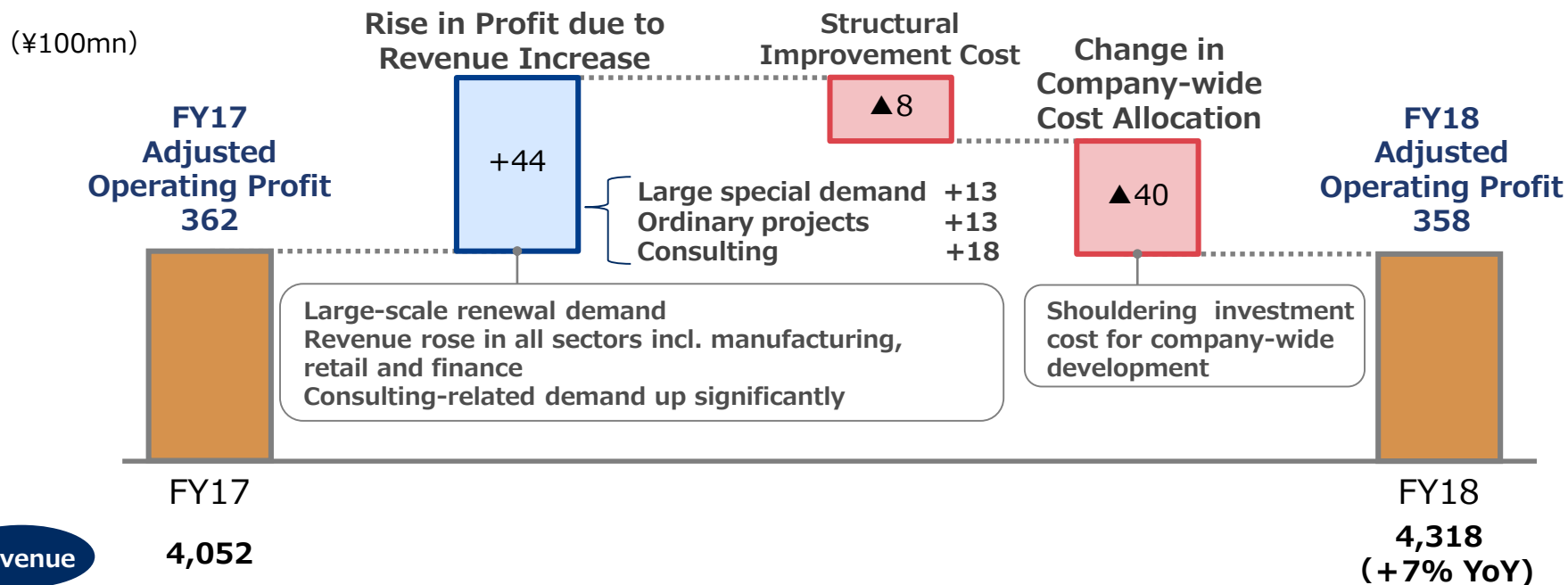
FY2018 Results

Revenue: ¥431.8 billion (+7%)

- Revenue from all sectors increased following favorable market conditions

Adjusted Operating Profit: ¥35.8 billion (down ¥400 million)

- Profit from system-related services increased, while overall profit fell due to rise in investments related to AI and IoT



Summary of Business in FY2018

Key Achievements

- Overall business growth was higher than market growth. The results for each sector remained robust
- The ratio of the 3rd platform: 27%* (IDC statistics: 25.9%**)
- Through NEC Value Chain Innovation, concrete use cases expanded to cope with changes in social issues and environment toward realization of new value (e.g. labor-saving convenience stores, forecast of demand using AI, AI Fraud detection, etc.)

Challenges

- Enhancement of capabilities and resources to support digital transformation (DX) of customers
- Shift to a service-type business model

*1 Ratio of the 3rd platform in FY 2018 revenue of the Enterprise Business Unit ** See IDC report on p.5

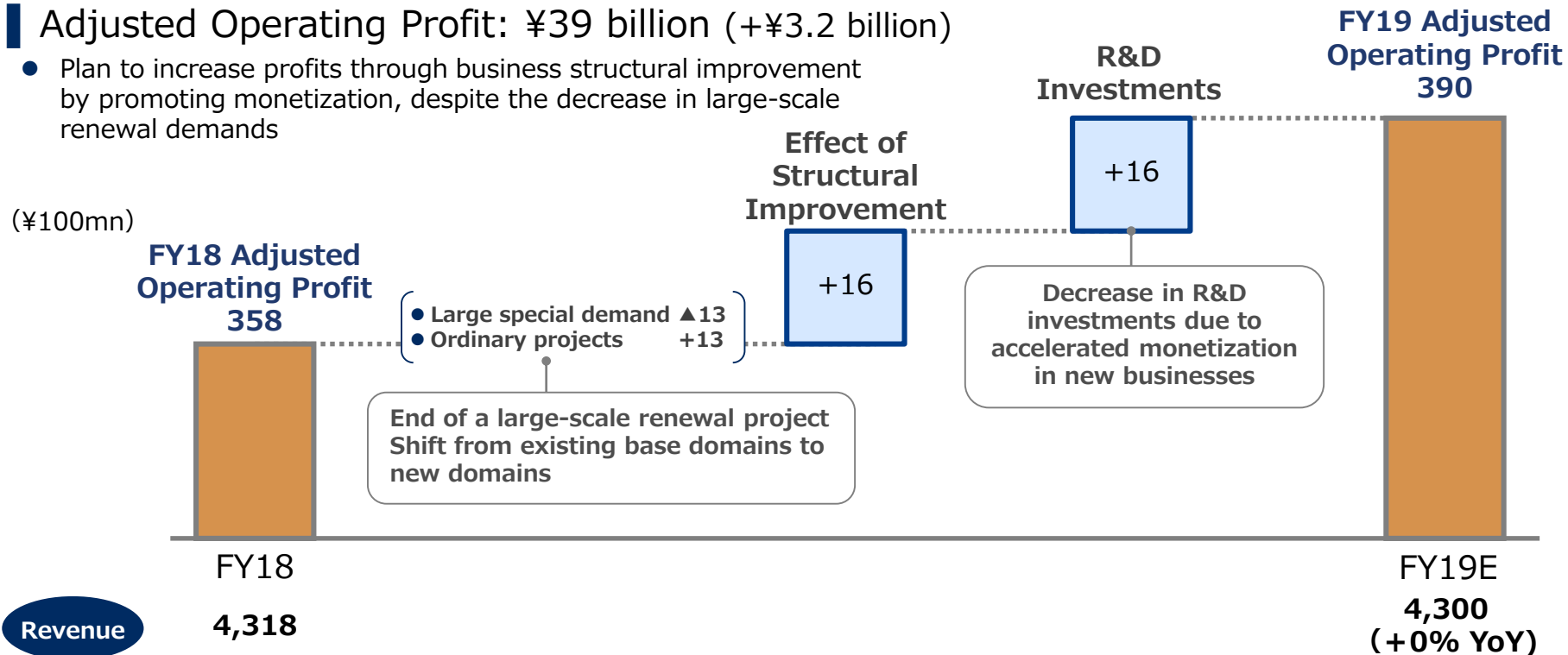
FY2019 Outlook

Revenue: ¥430 billion (+0%)

- The year-before level secured by offsetting a decrease in large special demand

Adjusted Operating Profit: ¥39 billion (+¥3.2 billion)

- Plan to increase profits through business structural improvement by promoting monetization, despite the decrease in large-scale renewal demands



Business Strategy for FY2019

Business Strategy

- Secure profitability of base businesses with firm executions
- Shift to new IT services business (for the 3rd platform)
- Expand NEC Value Chain Innovation

Focus Initiatives

- Establish a business model based on the VCI* platform in each business domain and expand revenue
- Enhance resources for new businesses and strengthen relationships with partner platforms (mega cloud vendors)

* NEC Value Chain Innovation

Service Platforms and Solutions that Support NEC Value Chain Innovation

Markets

Connected Manufacturing



Intelligent Logistics & Mobility



Smart Retail CX



Smart Venue CX



Digital Finance



Creation of new customer values / Solutions for various business domains

Solution Examples

- NEC Industrial IoT Platform
- Product demand forecast/ Service parts demand forecast
- PLM/SCM/MES

- Management service for logistics resources
- NEC Smart Analytics for Railway Operation & Maintenance

- Payment service with face recognition
- Forecast of demand for daily necessities
- Image analyses solution for the shelving allocation

- Value improvement solution for venue
- NEC volunteer support service

- Digital KYC
- AI Fraud detection

Supply and Demand Optimization Platform

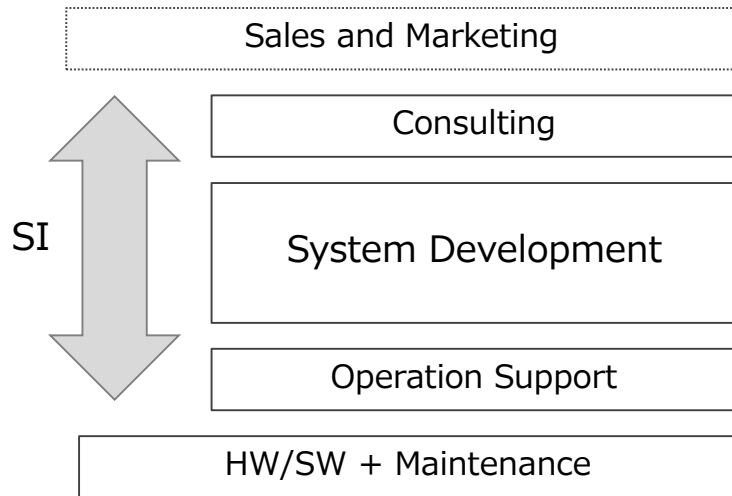
Service Platforms that Support NEC Value Chain Innovation
(VCI* Service Platform)

* NEC Value Chain Innovation

Shift to Service Platform-based Business

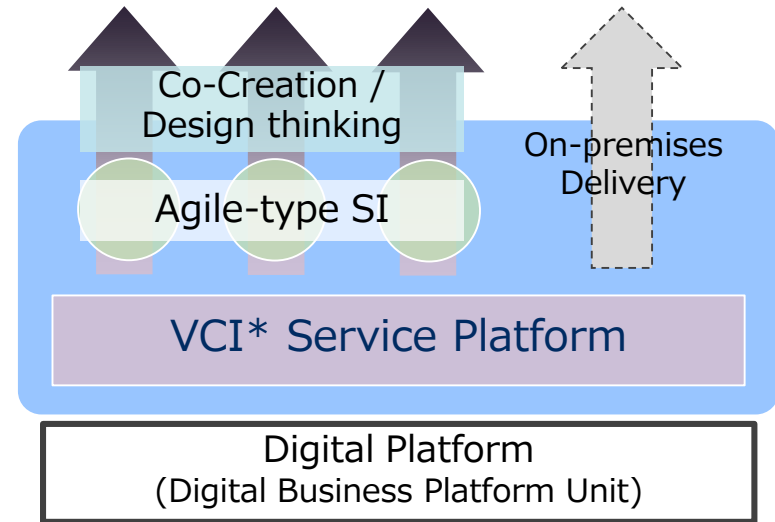
Shift to a high-speed and more efficient business model through business transformation

Base Business



DX

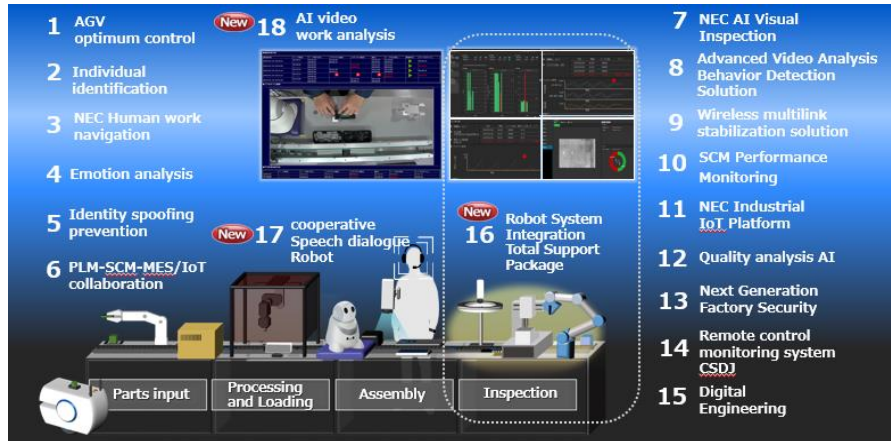
Service Platform-based Business



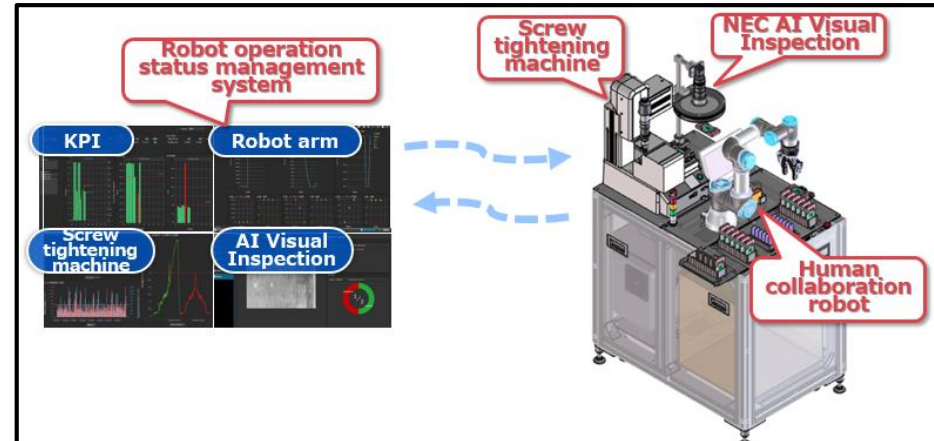
* NEC Value Chain Innovation

- NEC DX Factory's concept:
“Future of manufacturing” driven by digital transformation
- Implementation of AI and IoT solutions in the domains of design, production and logistics
- Strengthening solutions by adding “Total support packages in introducing robots”, etc.

Outline of “NEC DX Factory”



“Total support packages in introducing robots”



- Opened the first “labor-saving store” jointly with Seven-Eleven Japan Co., Ltd., using NEC’s AI and IoT technologies. Aim for rollout to stores for micro-market
- Aim to achieve labor saving with systems to support employees, in addition to implementation of systems to support customers’ comfort and convenience, such as “payment by face recognition” NEC introduced for the first time in Japan



- Provide “Digital KYC,” a personal identification service that supports identification procedures required for account openings, to financial institutions and FinTech operators
- Identify individuals speedily and securely online with easy operations using a smart phone app by leveraging our face recognition technology that triumphs as the world’s No.1 accuracy**
- Establish anti-spoofing technology to reduce the risk of illegal use by other persons

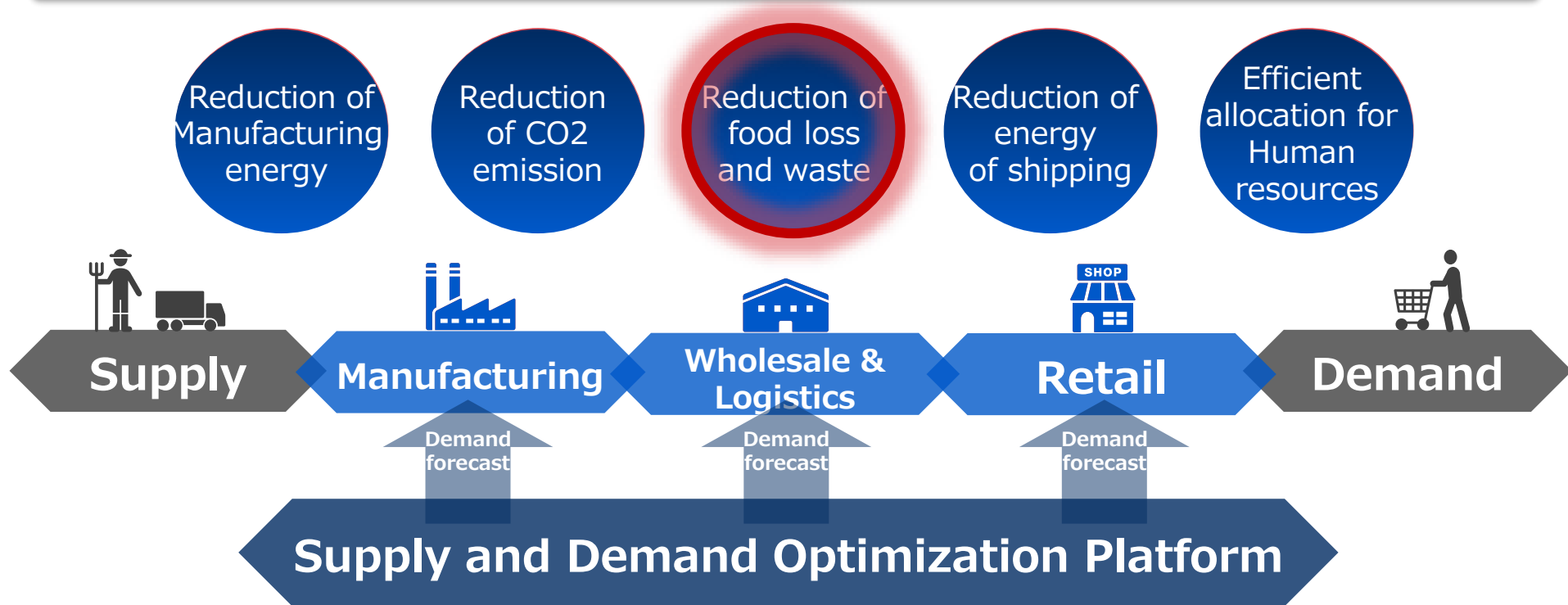


*Know Your Customer: Identification procedures required when financial institutions open accounts, customers conduct risky transactions or financial institutions continue to monitor customers

**Result of a contest by the U.S. National Institute of Standards and Technology (NIST)

Shift to New Business Structure: Case 4 (Optimization of Entire Value Chain)

Enhance accuracy of demand forecast and optimize production, inventories and orders by sharing and using various data through value chain



Increase Personnel for New Business: Securing Quantity and Quality

In-house Initiatives

To strengthen system-related talent

Assign younger and selected members to be **dedicated** to DX development projects

Foster agile-type SEs

- Promote project experiences and acquisitions of certificates

Promote fostering of **digital-oriented talent**, aiming to triple from FY2018 to FY2020

- Cloud engineers • Security engineers
- Analysis coordinators/Data scientists

To strengthen sales-related talent

Foster personnel who can execute a recurring model by implementing **design thinking + a lean-type business creation**

Foster **personnel for business creation and producing**, starting from management of investments for new businesses

Strengthen personnel to **cope with ecosystems**, starting from **alliances with cloud vendors**

Cooperation with External Parties and Partners

1) Cooperation with partner companies

Design comprehensive cooperation, accept and educate members

2) Cooperation with students and overseas companies

Strengthen education curriculums to enhance relations with partners, ally with overseas candidate companies

To Achieve Mid-Term Management Plan

■ Numerical Targets (FY2020)

Revenue

¥440bn-¥450bn

**Adjusted
Operating
Margin**

**9%
(aim at 10% for
the medium term)**

**Additional
Target**

**Continuous control
of risk costs**

■ Strategy to Achieve Targets

**Execute the base business steadily
Structural shift to new businesses
(the 3rd platform, NEC VCI*)**

**Further optimize the base business
Pursue a profitable business model
(NEC VCI*)**

**Enhance quality from a proposal phase
and on-site capabilities
Establish risk management
in new businesses**

* NEC Value Chain Innovation

Shift our business structure by capturing a major change in components of the market

**Execute the base business steadily
and expand new businesses
(the 3rd platform, NEC VCI*)**

**Aim at growth of the entire business by aiming
to be a category leader in domains
where NEC VCI* focuses**

* NEC Value Chain Innovation



\Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create the ICT-enabled society of tomorrow.

We collaborate closely with partners and customers around the world, orchestrating each project to ensure all its parts are fine-tuned to local needs.

Every day, our innovative solutions for society contribute to greater safety, security, efficiency and equality, and enable people to live brighter lives.

 **Orchestrating** a brighter world

NEC