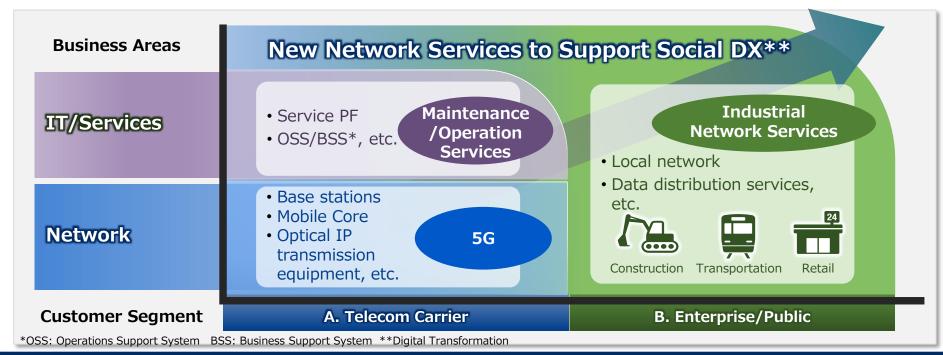


## **Network Services Business**

**Atsuo Kawamura, Executive Vice President** 

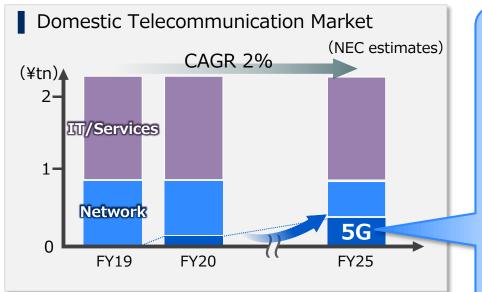
## Overview of Network Services Business

- Remain in a top position in the telecom carrier business
- Expand network services business to enterprise and public customers based on our strength in Network and IT

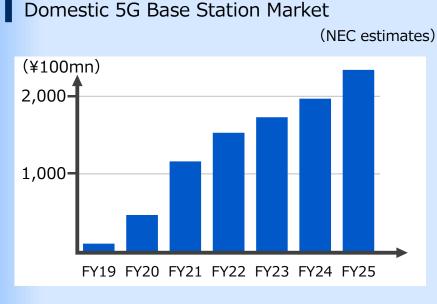


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## Market Environment [A. Telecom Carriers Domain]



- Total market size will slightly increase from over ¥2tn
- Maintenance/operation services domain is approx.¥600bn
- Composition of investments will change due to carriers' DX



- Market will rapidly grow from FY2021
- Market will grow to approx.¥250bn in FY2025

## NEC's Positioning [A. Telecom Carriers Domain]

Positioning in Network Business (Domestic) O's size indicates scales of sales NEC Domestic peers Overseas peers Breadth of Business Area

NEC's Strengths and Challenges

Domestic top position

Strengths

Fine customer service capability

High quality products / services

Co-creation of 5G use case

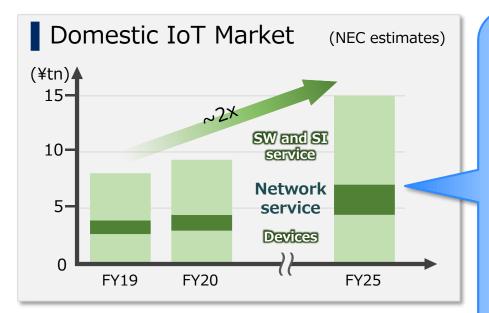
Challenges

Expansion of customer portfolio

Enhancing cost competitiveness

(By Revenue in FY2018, NEC estimates)

## Market Environment [B. Enterprise and Public Domain]



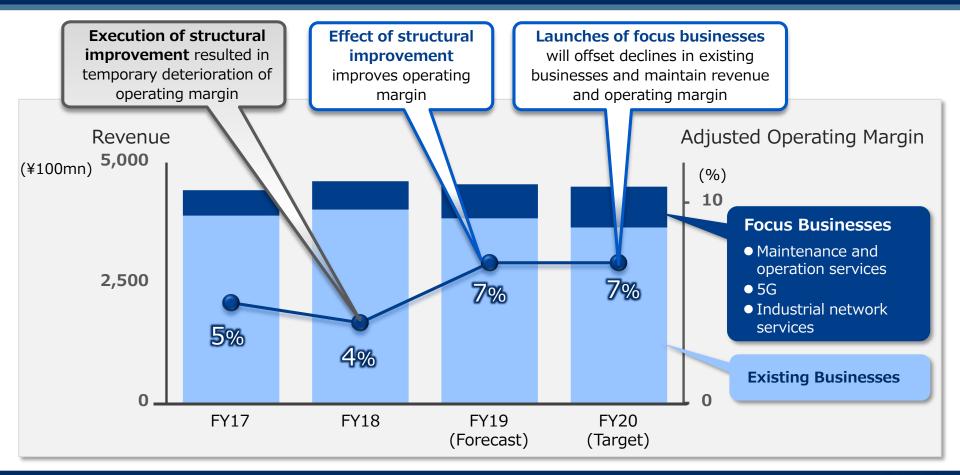
- Total market will be doubled
- Needs for network optimized for services
- Data utilization needs across the industries



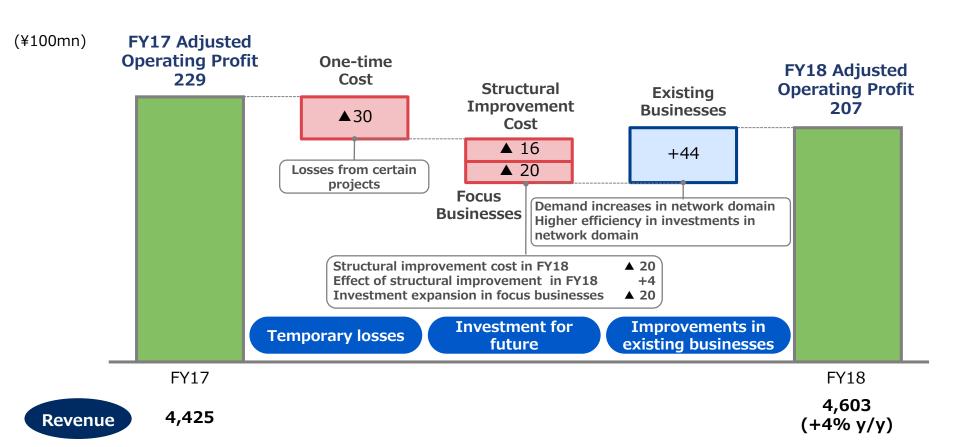


 Rapid ramp-up of data distribution service domain

## Trends of Revenue and Operating Margin from FY2017 to FY2020



## FY2018 Results



# nges Key /

## Summary of FY2018

#### <Securing of Future Earnings>

Execution of restructuring initiatives

#### <Maintenance and Operation Services>

Rakuten has selected NEC's OSS/BSS solutions

#### <5G>

- Contracts with NTT DOCOMO for base station equipment for 5G services
- Collaboration with Samsung for portfolio expansion
- Promotion of 5G trials with carriers and industrial partners

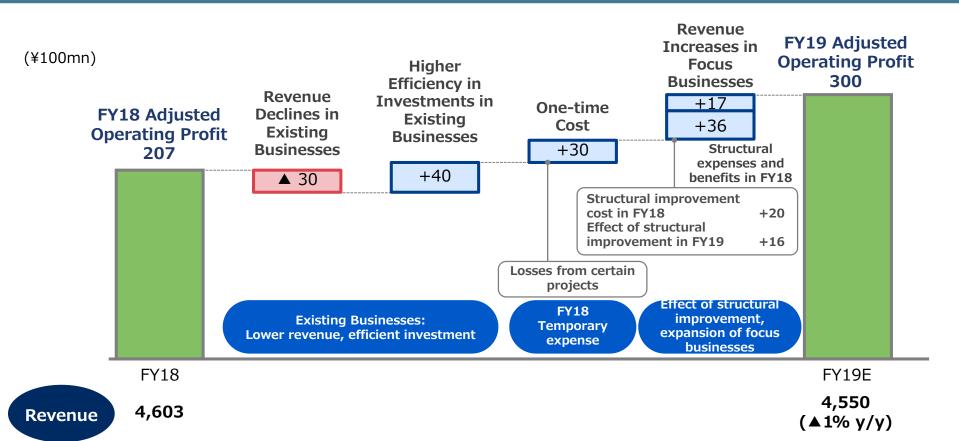
## Challenges

- Secure stable earnings by expanding maintenance and operation services business
- Early expansion of 5G and industrial network services businesses

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## FY2019 Outlook

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## Business Strategy in FY2019

#### <Expansion of maintenance and operation services to secure stable earnings>

Expansion of maintenance coverage of hardware

#### <Expansion of 5G and industrial network services for future growth>

- Maximization of entry opportunity to 5G businesses
- Acceleration of ramp-up in industrial network services businesses

## Maintenance and Operation Services Development of multi-vendor maintenance

- **5G**Solid shipment for pre-commercial services
- Industrial Network Services
  Building track record of local network business

## To Achieve Mid-term Management Plan

Numerical Targets (FY2020)

Revenue ¥450bn to ¥470bn

Adjusted Operating Margin

7%

Revenue from Focus Businesses\*

¥50bn to ¥70bn

Strategies to Achieve Numerical Targets

**Strategy-1: Telecom Carrier Market** 

Remain in a top position by expanding maintenance and operation services business

**Strategy-2: Telecom Carrier Market** 

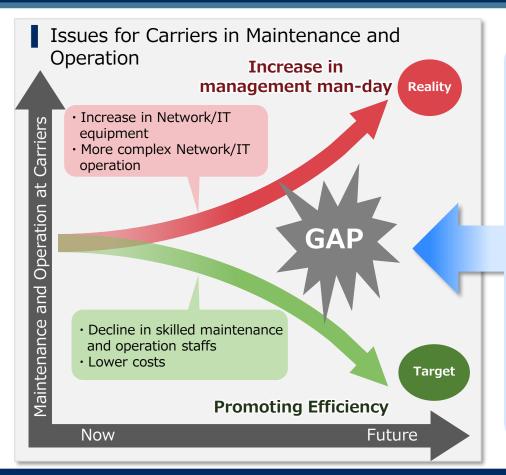
**Establish business foundation for expansion of 5G business** 

Strategy-3: Enterprise and Public Market

Grow industrial network services business by "NEC Smart Connectivity"

<sup>\*</sup>Focus businesses include maintenance and operation services, 5G and industrial network services

## Strategy 1: Expansion of Maintenance and Operation Services



NEC's Strategy

#### **Expansion of maintenance support domain**

- Reduction in maintenance and operation management man-day at customers
  - BPO development

## Automation and sophistication of operating system

- Operation administration which speeds up management
  - Sophistication by leveraging Netcracker
  - Automation by leveraging AI technologies

#### **E2E Network Solution**

- Secure delivery of products/services from HW to services
  - Use of ecosystem

## Strategy 2: Expansion of 5G Business

NEC's Strategy

Measures

Remaining in a Top Position

Share expansion in domestic market by leveraging strengths in wireless

Timey supply of products which match network expansion plans by customers

Market Expansion Supporting various needs (partnership with Samsung)

Joint proposal to customers in Europe and APAC by leveraging mutual complement of product portfolio

Market Expansion Promotion of cloud native (Open vRAN)

Approach to open-oriented carriers triggered by base station orders from Rakuten

Value Enhancement

Materialization of use case in 5G businesses

**Expansion of co-creation with telecom carriers and industrial partners** (Remote control of construction machines with KDDI and Obayashi)

### Strategy 3: Expansion of Industrial NW Services Business by "NEC Smart Connectivity"

Environment Change with Development of DX

Increase and diversification of connected devices

Exponential increase in amount of connected data

Needs of Industrial Players Dedicated safe and comfort network enabling to connect significant number of devices

Capitalization (monetization) of information by externally offering internal data

#### **NEC's Strategies**

#### **Local Network**

- Focusing on industries handling important infrastructure (Railway, construction, retail, public)
- "Connectivity" with value of flexibility, comfort, simplicity and agility

#### **Data Distribution Services**

- Realization of mutual usage of data across industries
- Secure data distribution (Authentication and security technologies)

**NEC's Strengths** 

Provide mission critical network in one stop

## Summary

Remain in a top position by expanding maintenance and operation services

**Establish business foundation** preparing for 5G business expansion

Business growth by "NEC Smart Connectivity" across industries

Business transformation by taking advantage of 5G and DX

In FY2020: ¥450bn to ¥470bn sales, 7% margin



## \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.

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## NEC