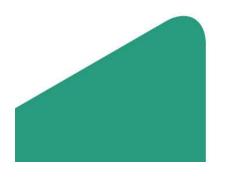
Continuous Growth with Sustainable Superior Profits

Hirokazu Hashimoto

Representative Director, Group CEO Anritsu Corporation

February/ March, 2019







TSE code: 6754 https://www.anritsu.com



Cautionary Statement

All information contained in this release which pertains to the current plans, estimates, strategies and beliefs of Anritsu Corporation (hereafter "Anritsu") that is not historical fact shall be considered forward-looking statements of future business results or other forward-looking projections pertinent to the business of Anritsu. Implicit in reliance on these and all future projections is the unavoidable risk, caused by the existence of uncertainties about future events, that any and all suggested projections may not, come to pass. Forward-looking statements include but are not limited to those using words such as "believe", "expect", "plans", "strategy", "prospects", "forecast", "estimate", "project", "anticipate", "may" or "might" and words of similar meaning in connection with a discussion of future operations or financial performance.

Actual business results are the outcome of a number of unknown variables and may substantially differ from the figures projected herein.

Factors which may affect the actual business results include but are not limited to the economic situation in the geographic areas in which Anritsu conducts business, including but not limited to, Japan, Americas, Asia, and Europe, changes in actual demand for Anritsu products and services, increases or decreases in the competitive nature of markets in which Anritsu sells products or buys supplies, changing aptitudes at providing services, and exchange rates.

You also should not place reliance on any obligation of Anritsu to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Anritsu disclaims any such obligation.



Agenda

I . Mid term Business Plan GLP2020 and Business Strategy

- 1. Basic Policy of Management Strategy
- 2. Outline of our business segments
- 3. Basic Policy of medium and long term business strategy

II. T&M business segment

- 1. T&M: GLP2020 Revenue and Operating profit plan
- 2. T&M: Mobile market trends and Business opportunity
- 3. Industrial Test Solutions
- 4. Network Reshaping Test Solutions

Ⅲ. PQA Business segment

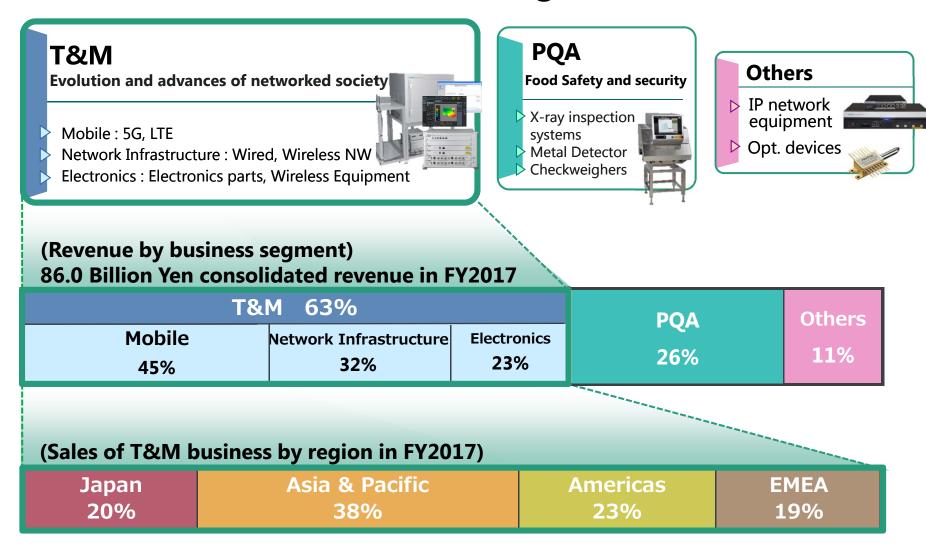
- **IV-1. Financial Strategy**
- **IV-2. Shareholder Return Policy**
- **IV-3. Corporate Philosophy and Sustainability Policy**
- **IV-4. Corporate Governance System**
- V. Financial Results for the 3rd quarter of the Fiscal Year ending March 31, 2019



I . Mid term Business Plan GLP2020 and Business Strategy

I -1. Basic Policy of Management Strategy Prosecute the policy "Continuous profitable growth" Make our best to accomplish 2020VISION/ GLP2020 * GLP2020 Plan = FY2018~FY2020 2020 2015 Ν 120th To be a global market leader To create new business through emerging business Creating the value that only Anritsu can deliver Driving innovation in new business areas Building a world-class, robust income structure

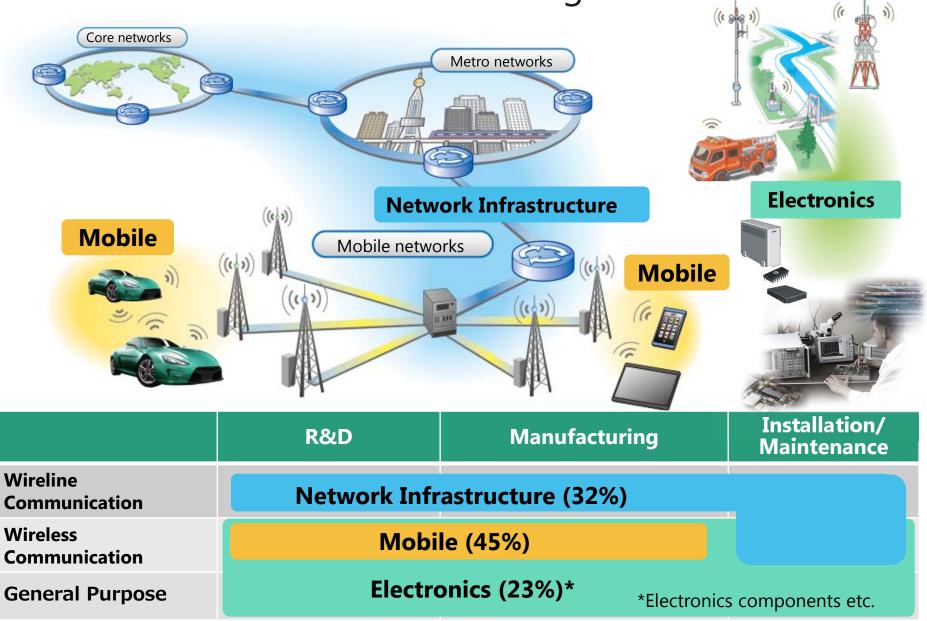
I -2. Outline of our business segments



T&M: Test & Measurement PQA: Products Quality Assurance



I -2-1. Outline of our business segments < T&M >





I - 3. Basic Policy of medium and long term business strategy

Capture growth drivers without fail, and realize "continuous profitable growth"

	Market average		Medium & long –term guideline		
	annual growth rate (estimated by Anritsu)	Vision/growth driver	Sales growth rate	Operating margin	
T&M	3-5%	Become a leading company supporting 5G/IoT society (1) 5G, LTE-Advanced (2) IoT/Automotive, Connectivity (3) IP Data traffic/Cloud Services	≧7%	≧20%	
PQA	3-5%	Become a world-class partner in quality assurance solution Expansion from contaminant inspection into the quality assurance market	≧7%	≧12%	
Consolidated	_	_	_	≧18%	
ROE	_		≧15%		

I - 3-1. GLP2020: Revenue and Op. profit Plan (1/2)

Upward revision > Initial plan GLP2020

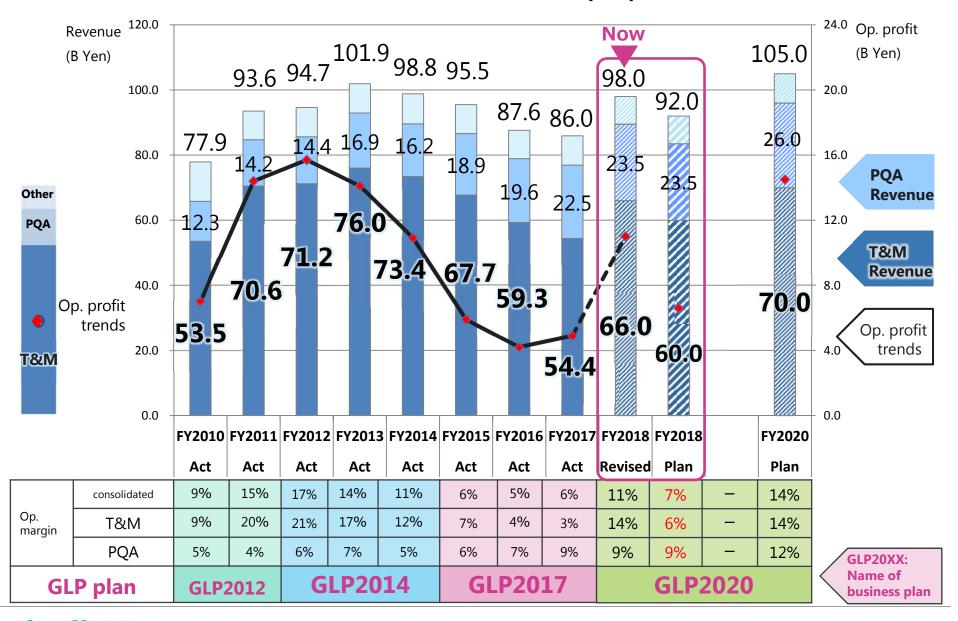
Indicators		FY2018	FY2018	FY2020
Revenue		98.0 B Yen	92.0 B Yen	105.0 B Yen
OP. profit		11.0 B Yen	6.6 B Yen	14.5 B Yen
Op. margin		11%	7 %	14 %
Profit		8.5 B Yen	5.0 B Yen	11.0 B Yen
ROE		10%	7%	12%
T&M	Revenue	66.0 B Yen	60.0 B Yen	70.0 B Yen
	Op. profit	9.0 B Yen	3.5 B Yen	10.0 B Yen
	Op. margin	14 %	6 %	14 %
PQA	Revenue	23.5 B Yen	23.5 B Yen	26.0 B Yen
	Op. profit	2.0 B Yen	2.0 B Yen	3.0 B Yen
	Op. margin	9 %	9 %	12 %

^{*}Anritsu announced the change of FY2018 Forecast in January.

(Note) Exchange rate for GLP2020: 1USD=105Yen, 1Euro=125Yen)



I - 3-2. GLP2020: Revenue and Op. profit Plan (2/2)

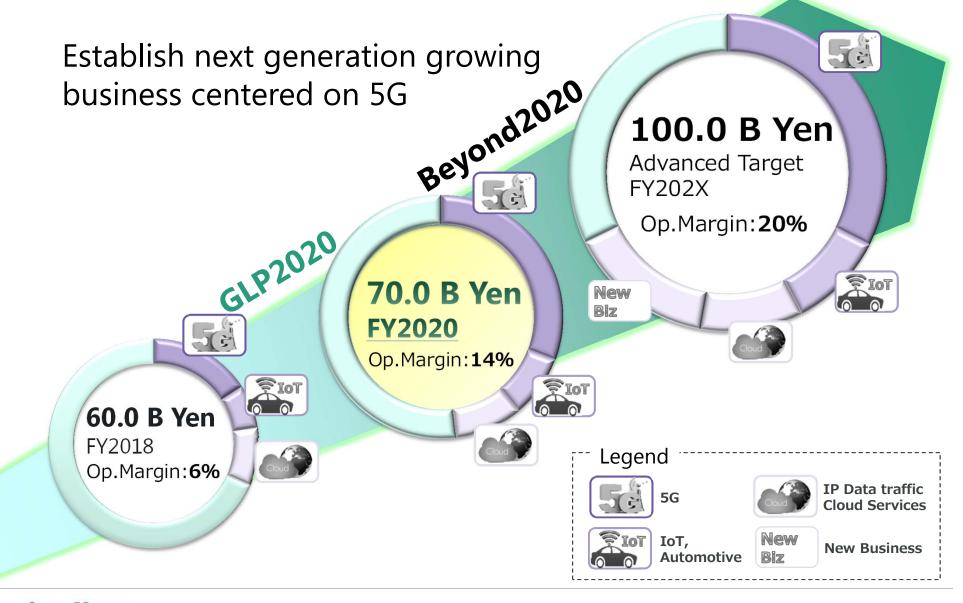




${\rm I\hspace{-.1em}I} \ . \ T\&M \ business \ segment$



II -1. T&M: GLP2020 Revenue and Operating profit plan



II -1-1. T&M: Profit structure improvement targets



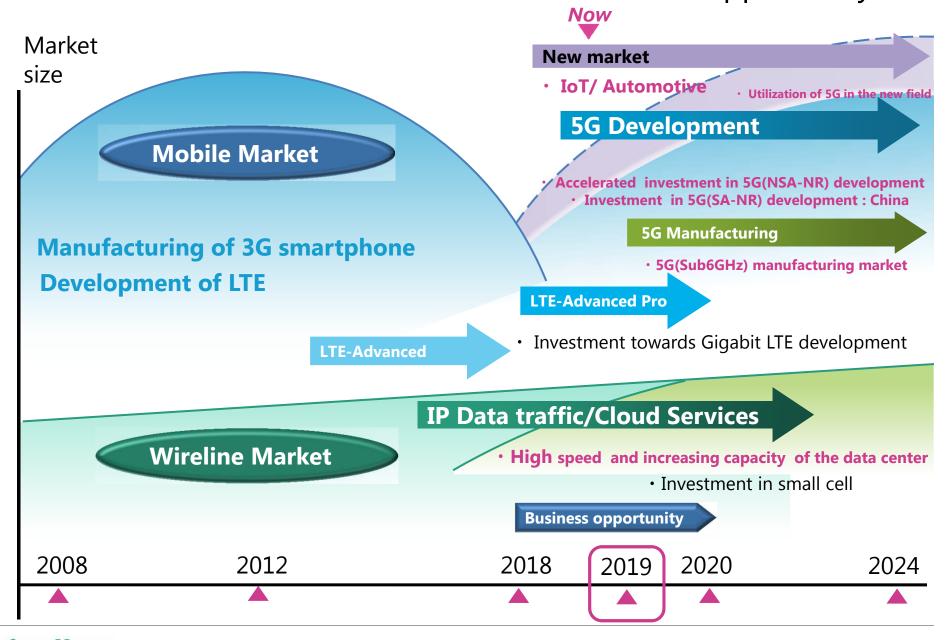
Cost structure improvement measures

- Introduction of high value added solutions (professional services, software)
- Thorough enforcement of development ROI & ROIC management (*1)
- SG&A expenses: Organizational structure and optimal allocation of human resources in response to changes in customer trends

^{*1:}KPI target index for R&D investments is an R&D ROI(gross profit / R&D investment value) of 4.0times or higher.

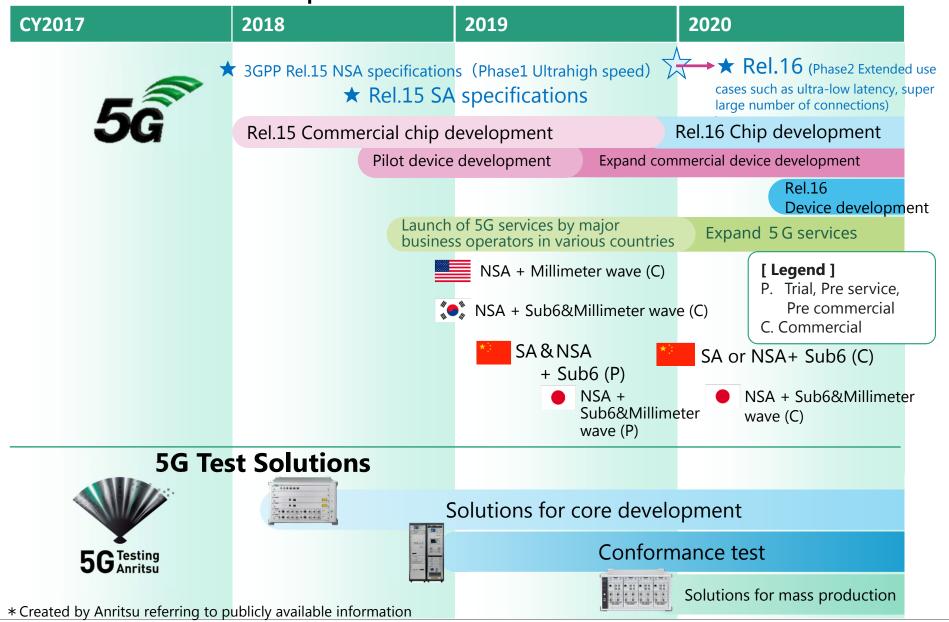


II -2. T&M: Mobile market trends and Business opportunity





II -2-1. Roadmap of 5G





$\rm II$ -2-2. Current status and outlook for major 5G vendors and operators

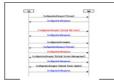
2018 2019 2020 2021 **★3GPP Release 15 ★3GPP** Release 16 **Chipset** Qualcomm(America) MediaTek (Taiwan) **Next Chipset** Samsung (Korea) **Intel (America) Device** LG (Korea) Samsung (Korea) **Next Device Huawei (China)** Motorola (America) Sharp (Japan) Sony (Japan) **Operators** Verizon CMCC (China) We expect full-scale (America) commercial service to AT&T **Docomo (Japan)** (America) begin in 2020 or later. KT, SKT (Korea)

*Created by Anritsu, with reference to materials from "Public Meeting for Exchanging Opinions on Radio Policy (58th Meeting)," issued by the Ministry of Internal Affairs and Communications (September 21, 2018), as well as other publicly available information.



$\rm II$ -2-3. 5G terminal development/manufacturing process and test solutions

Verification of Core Technologies at Chipset Vendors



Protocol



Baseband Chipset
/ RF Front End

Evaluation of Functions & Performance at UE Vendors



Evaluation of Functions & Performance

Conformance Test at UE Vendors & Test Houses

Conformance Test



Acceptance Test at Carriers & Test Houses

Carrier Acceptance Test (CAT)



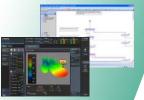
Mass Production Test at UE Vendors & EMS



RF Calibration & Inspection

(See Page34)





MT8000A Radio Communication Test Station



ME7834NR 5G NR Mobile Device Test Platform

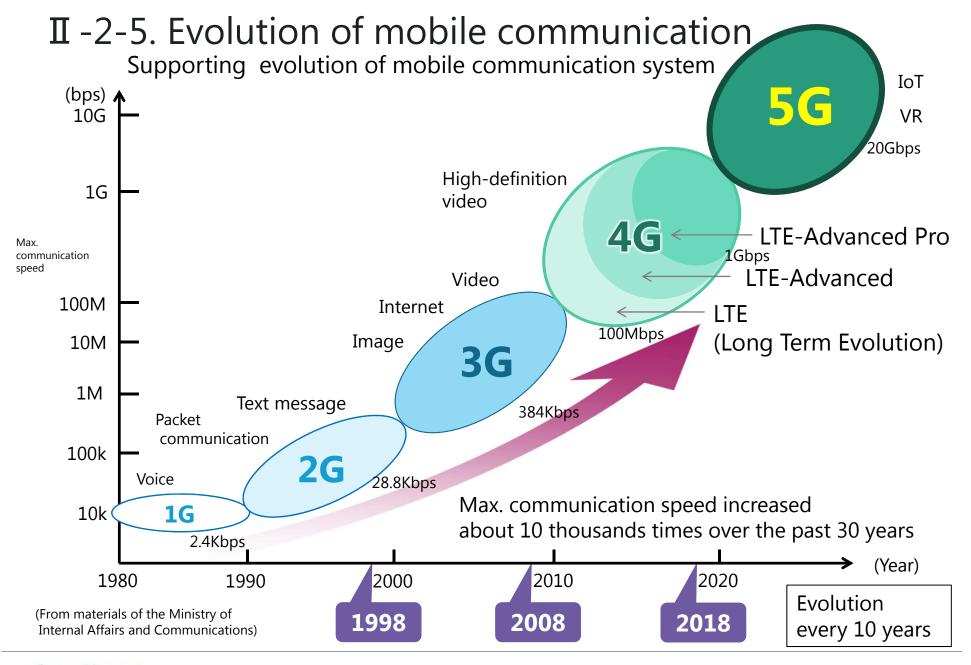


MT8870A Universal Wireless Test Set



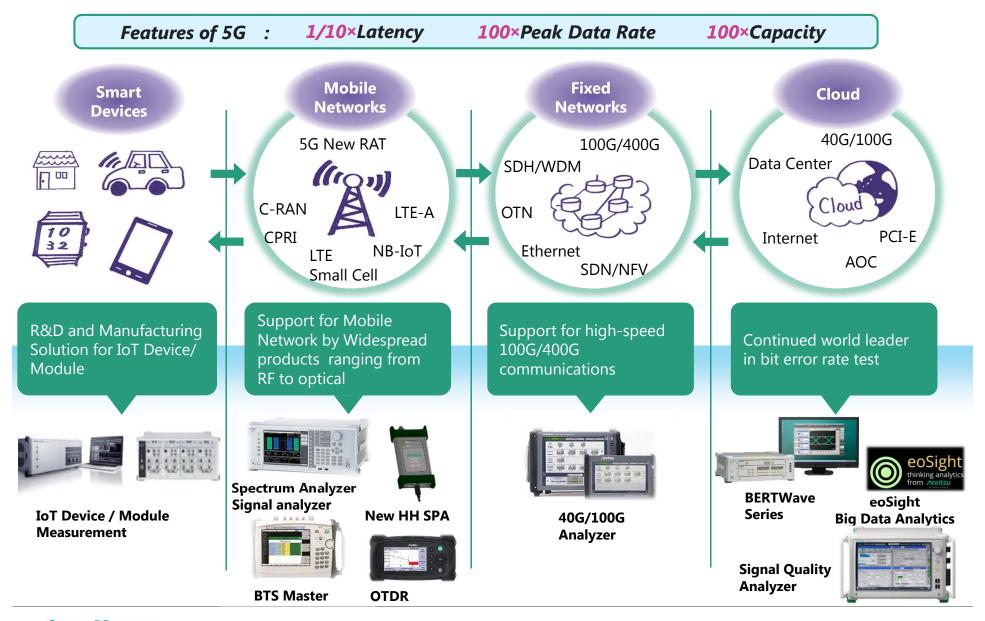
II -2-4. Mobile R&D business and solutions (The case of LTE)

	Platform(Core)	Conformance test		Operator	Smartphone
	Development	RF	Protocol	Acceptance test	Commercial test
Uses	Comm. standard development Chipset development	Conformance test Interoperability test		Comm. Carrier acceptance test	Application development UE operation test
Main customers	Chipset vendor UE vendor	Chipset vendor, UE Communication Car	•	Com Carrier, Test house, UE vendor	UE vendor Applications developer
Main theme	 FDD / TDD-LTE, LTE-Advanced, LTE-Advanced PRO CA (Carrier aggregation), VoLTE (Voice over LTE) MIMO (Multi Input Multi Output) Chipset unification of 3G/LTE and SRW (Short Range Wireless) 			Improve data throughputBattery consumption etc.	
Test solutions					
Main Competitors	Anritsu : No. Rohde & S	l	Rohde & Schwarz, Keysight(Agilent, Anite), Spirent		Rohde & Schwarz, Keysight

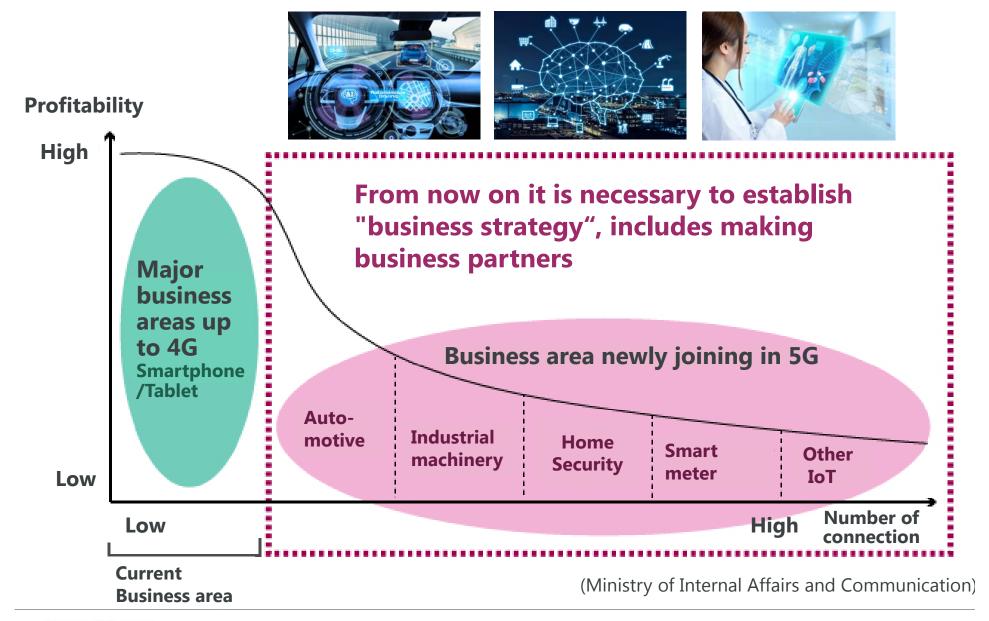




II -2-6. Contributing to the establishment of 5G network infrastructure

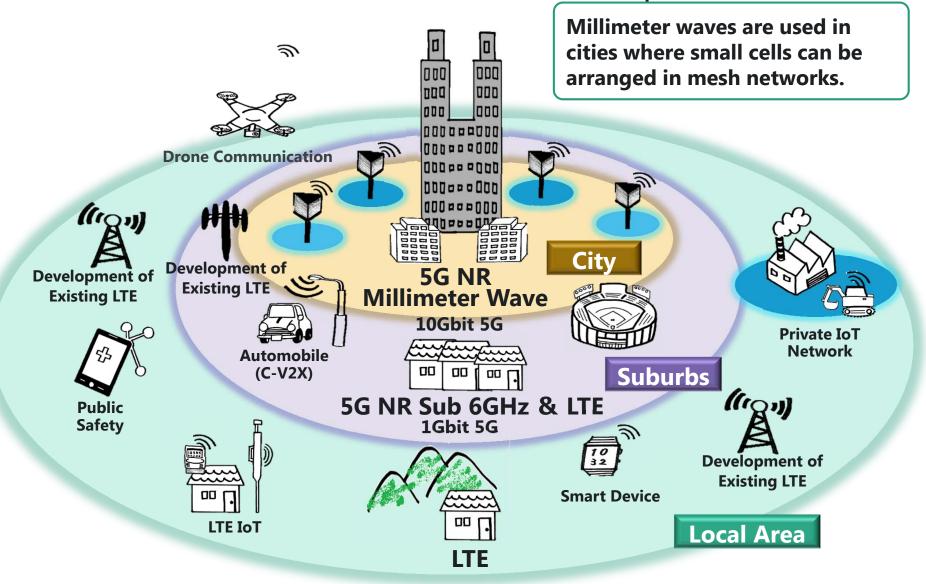


II -2-7. 5G will become the infrastructure of social innovation



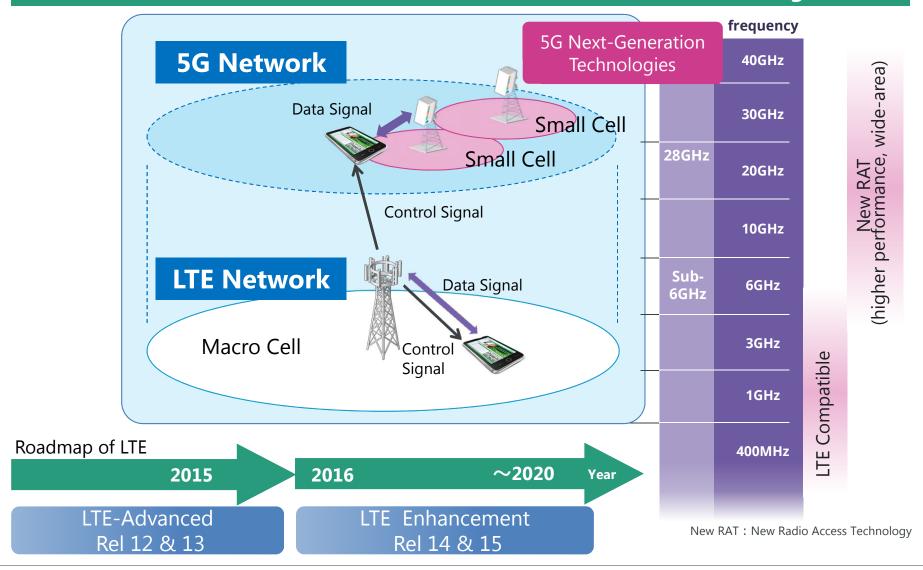


II -2-8. Outlook for 5G Service Development



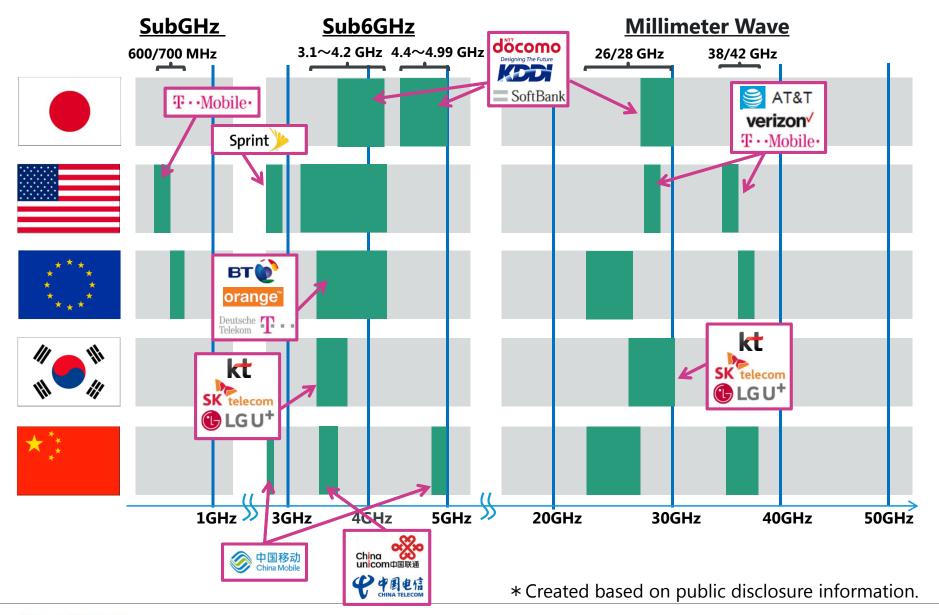
II -2-9. 5G and LTE coexist and interwork

5G = LTE Enhancements + Next-Generation Wireless Technologies





II -2-10. 5G Band Allocations in the World



II -2-11. Solutions for 5G chipset/device development

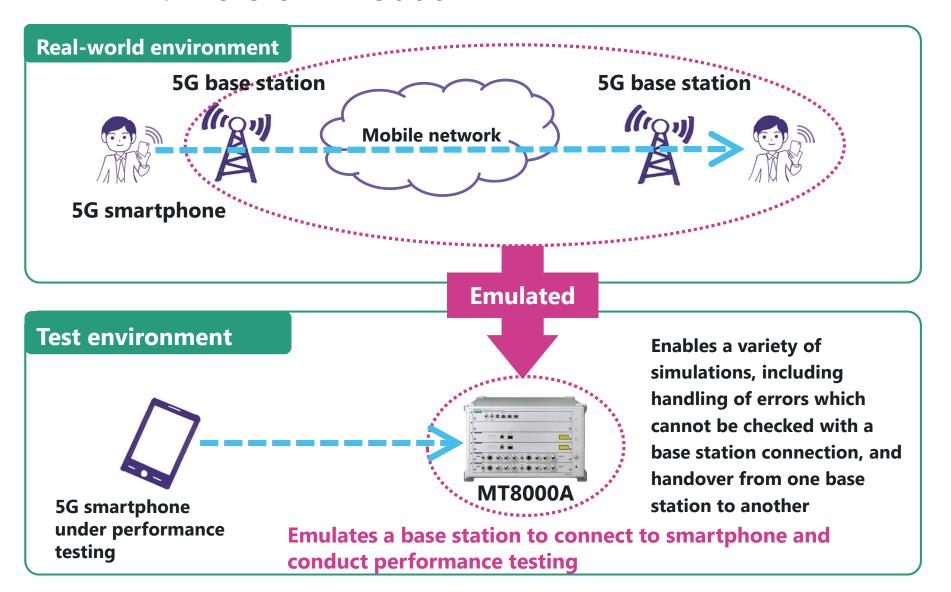
We have begun shipments of the Radio Communication Test Station MT8000A for development of chipsets, devices, etc. for the 5G market







II -2-12. Role of MT8000A



II -2-13. High-frequency (millimeter wave) measurement technology

For low-frequency



Accurate measurements are possible with a cable connection.

For high-frequency (millimeter wave)

Accurate measurements are possible with Over The Air (OTA) using chamber.

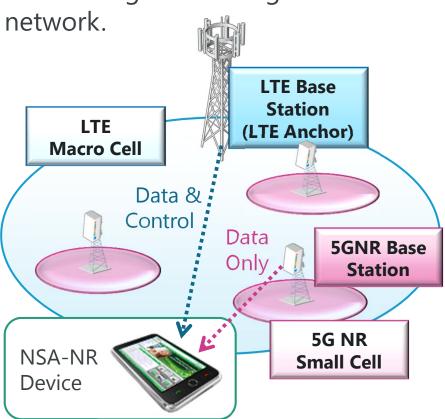




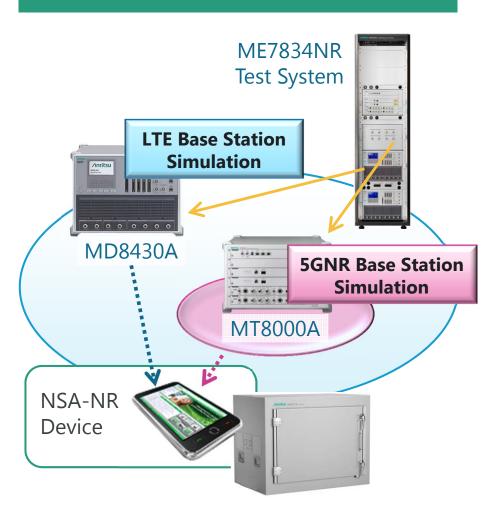
II -2-14. Test solution for 5G NSA-NR terminal development

NSA-NR Network Configuration

Introducing 5G utilizing the LTE core



NSA-NR Test Environment





II -2-15. Anritsu's Solution for 5G base stations and terminals



MS2850A Signal Analyzer Signal analyzer that realizes millimeter-wave measurement solutions required for R&D and manufacture of 5G base stations and terminals at unprecedented low prices

Frequency range: 9 kHz~32 GHz/44.5 GHz

Analysis bandwidth: 255 MHz (standard), 510 MHz(option),

1GHz (option)

Conventional Signal Analyzer for LTE



- Frequency is mainly 6GHz or less
- Analysis bandwidth is 20MHz to several hundred MHz

Signal Analyzer for 5G



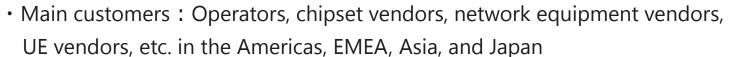
- Covers frequency up to 44.5GHz
- Coverage of analysis bandwidth is up to 1GHz
- Low price enables installation for commercial development and manufacture

II -2-16. Acquisition of Azimuth Systems, Inc.

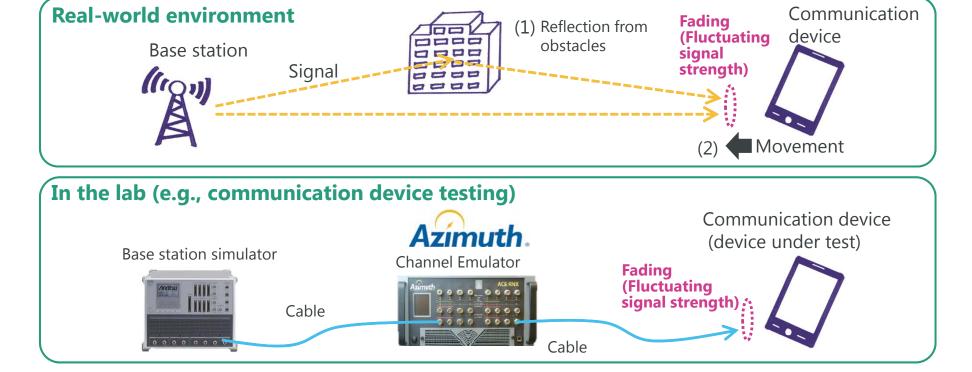
· Company Name: Azimuth Systems, Inc.

Headquarters: Boston, USA

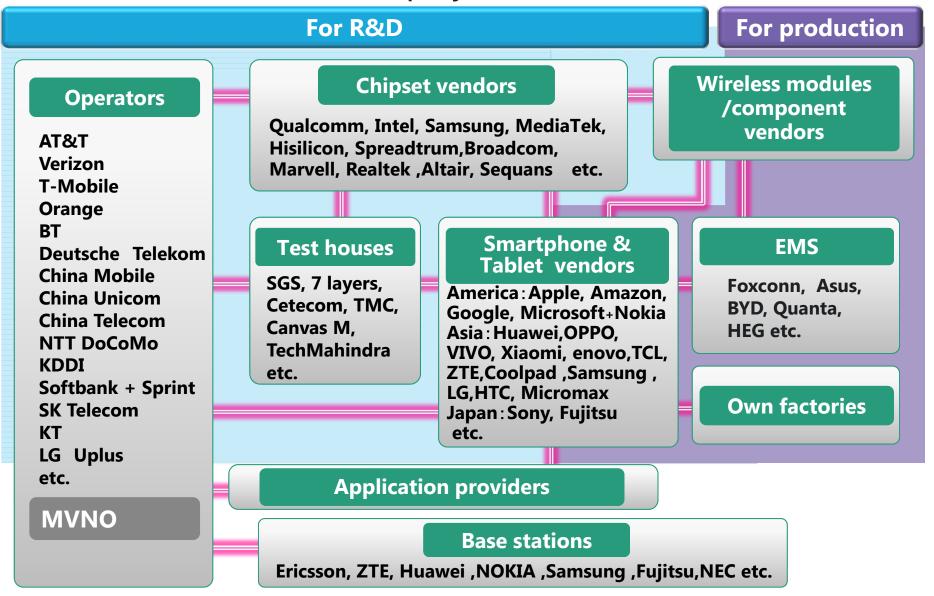






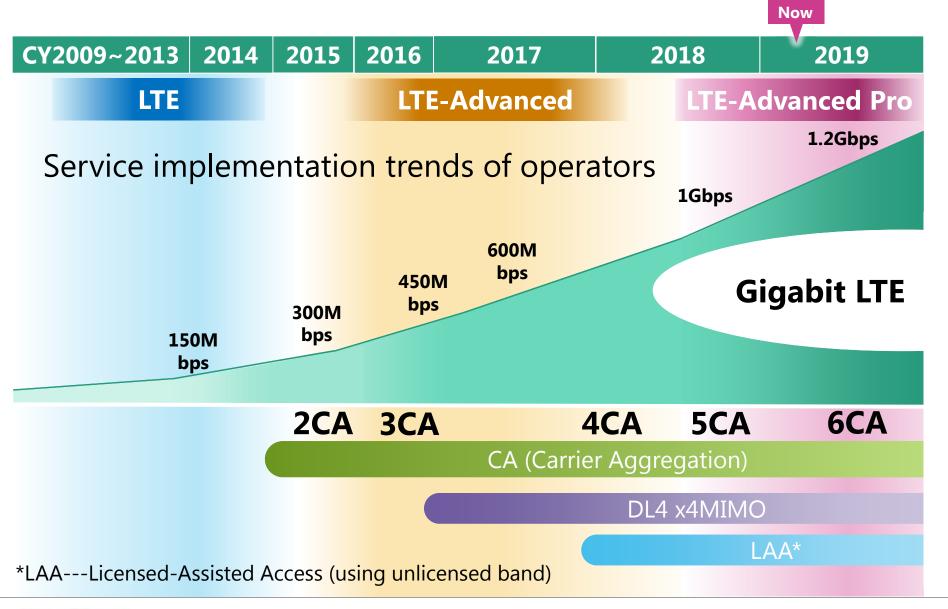


II -2-17. Food chain and players in mobile telecom market





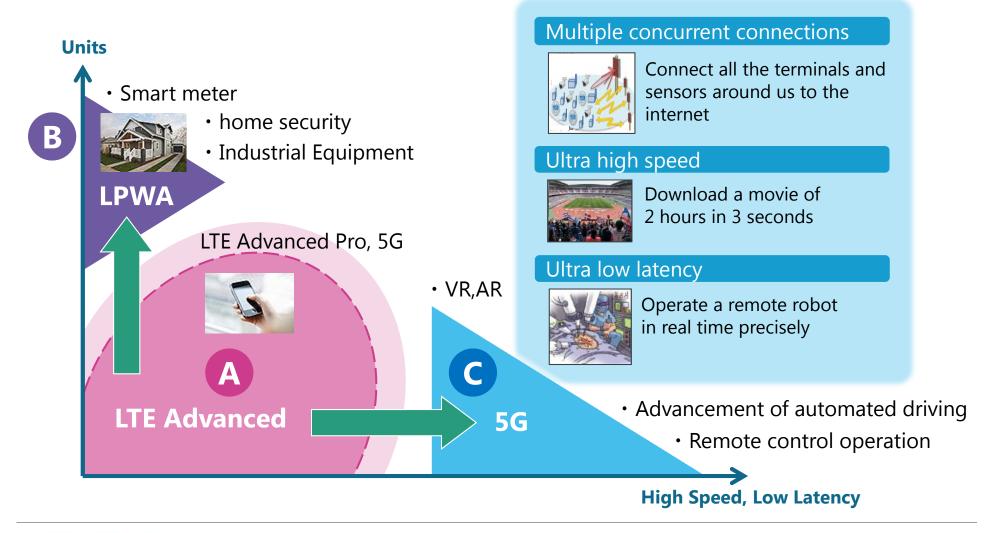
II -2-18. Roadmap of LTE service





II -3. Industrial Test Solutions

Expand Earnings Opportunities by Supporting the Creation of New Markets and Various Industrial Fields through the Utilization of 5G



II -3-1. Manufacturing solutions for Smart phone

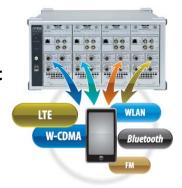


Current features

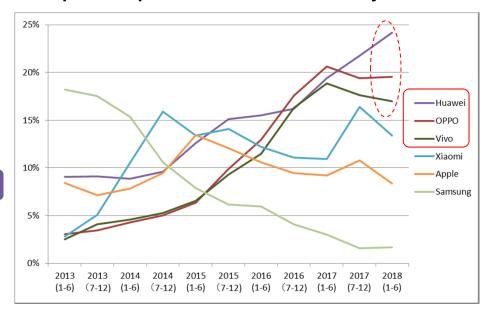
- 1. Huawei, Vivo, Oppo
 The rise of China vendors and intensifying competition ()
- 2. The growth of the manufacturing market in India

Solutions for 2G / 3G / LTE & Connectivity

MT8870A
Universal
Wireless Test Set



Smartphone Shipment Market Share in China by Vendor *



*Source: Gartner "Market Share: PCs, Ultramobiles and Mobile Phones, All Countries, 2Q18 Update" 24 Aug. 2018
Smartphone = Basic Phone, Premium Phone, Utility Phone
OS=Excluding WindowsRT and Proprietary
Graph created by Anritsu based on Gartner research

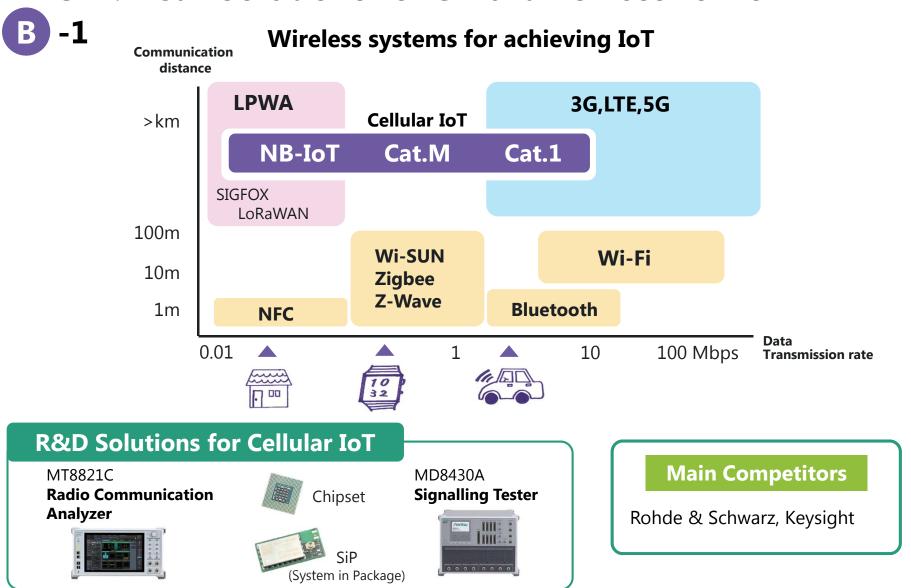
Main Competitors

Rohde & Schwarz, Keysight

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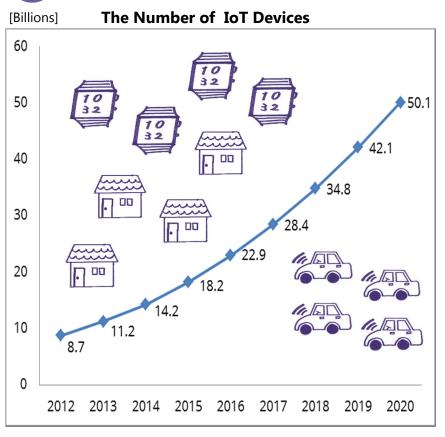
II -3-2. R&D solutions for Smart Devices for IoT





II -3-3. Manufacturing solutions for Smart Devices for IoT





*Source: World Economic Forum

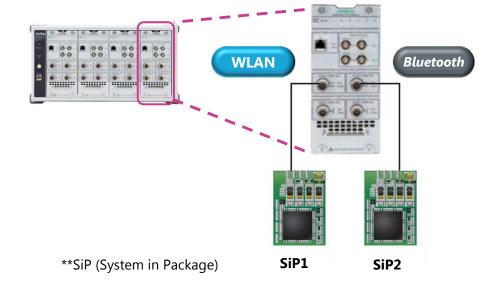
• The growth of Connectivity & Module markets for IoT

For WLAN / Bluetooth

MT8862C Wireless Connectivity Test Set



MT8870A Universal Wireless Test Set



Main Competitors

Teradyne, National Instruments, Rohde & Schwarz, Keysight



II -3-4. Adoption of new technologies in the automotive market and Anritsu's initiatives

2015 2016 2017 2018 2019 2020 2021 Advancement of automated driving Level 3 Level 2 Level 1 Spread of 4G telematics Mandatory deployment of eCall Increasing use of 79GHz radar Active verification testing of V2X Telematics/eCall * emergency calling system for vehicles **Mobile communication/connectivity** Wireless communication Mobile network RF performance test simulator V2X communication Millimeter wave signal quality assessment transmitter tester V2X (802.11p) * vehicle-to-vehicle/road-to-vehicle communications 79GHz high resolution automotive radar



II -3-5. Food chain and players in Automotive market

Safety, Emergency, Comfort, Infotainment, Diagnostic

Car Vendors

Autonomous car

ADAS

(Advanced Driver Assistance System)

Telematics

(Telecommunication + Informatics)

ITS C-ITS

(Intelligent Transport Systems)

Dashboard Vendors

Transceiver module

(Cellular + V2X + Connectivity + Antenna + etc.)

Rader module

Antenna

Satellite receiver

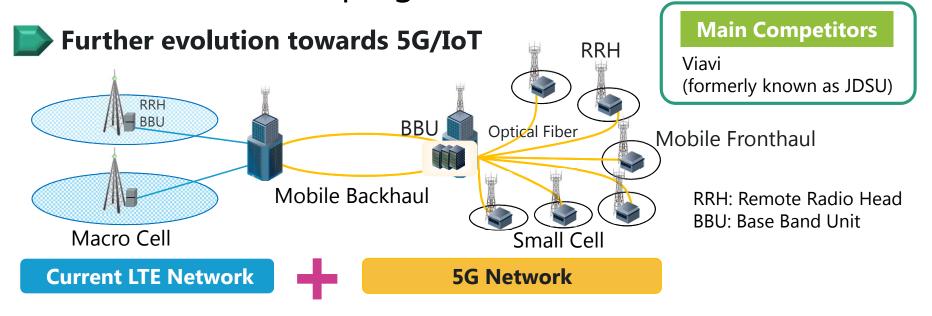
Tuner

Module Vendors

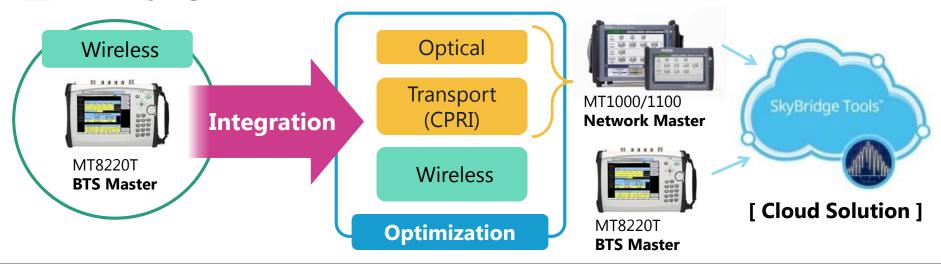
Cellular module, Connectivity module, V2X module, Rader, Antenna, Connector, Cable, etc **Chipset Vendors**

Semiconductors for communication

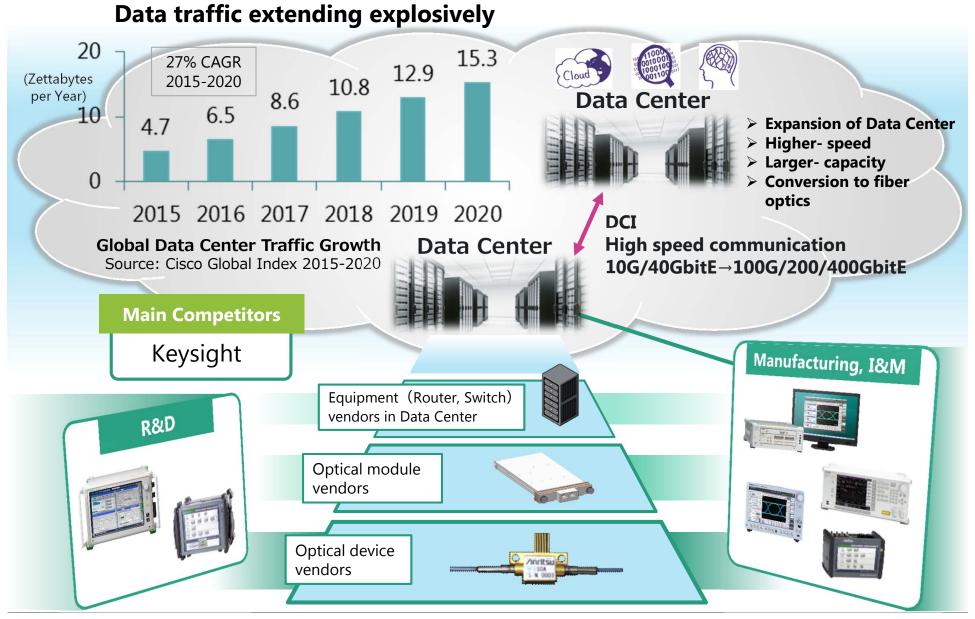
II -4. Network Reshaping Test Solutions



Reshaping the Future of Network Test Solution



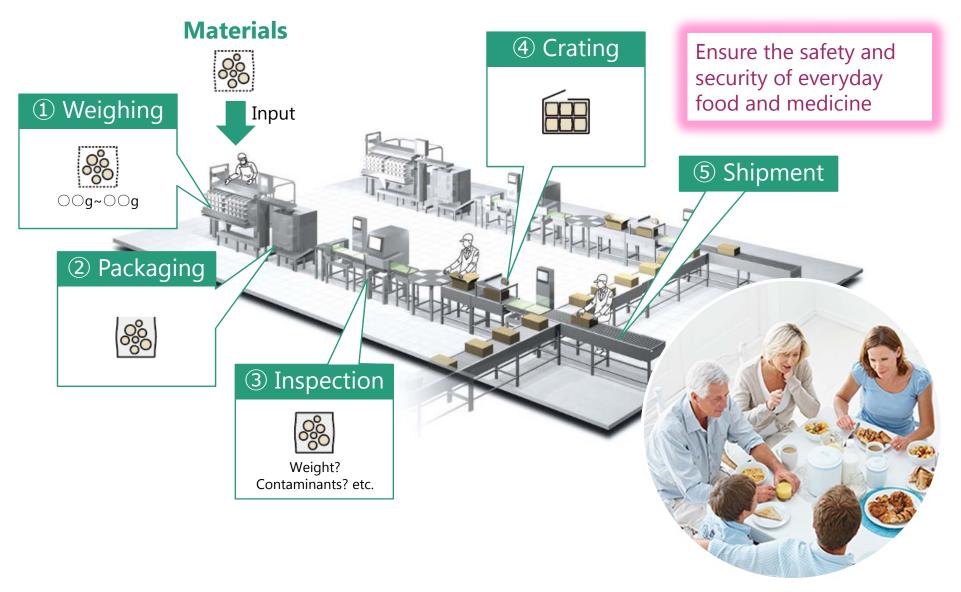
II -4-1. Test Solutions for support of Cloud Service expanding



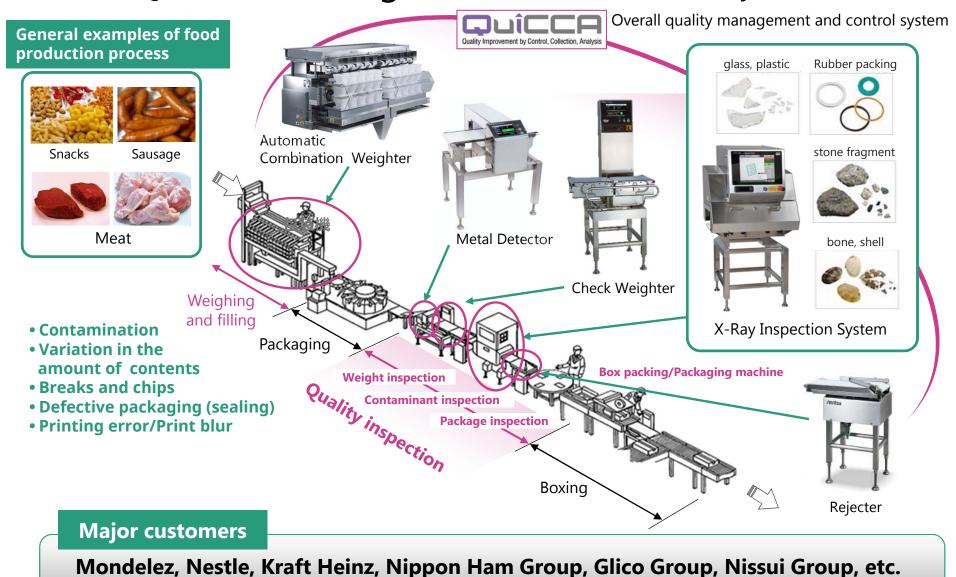
III. PQA Business segment



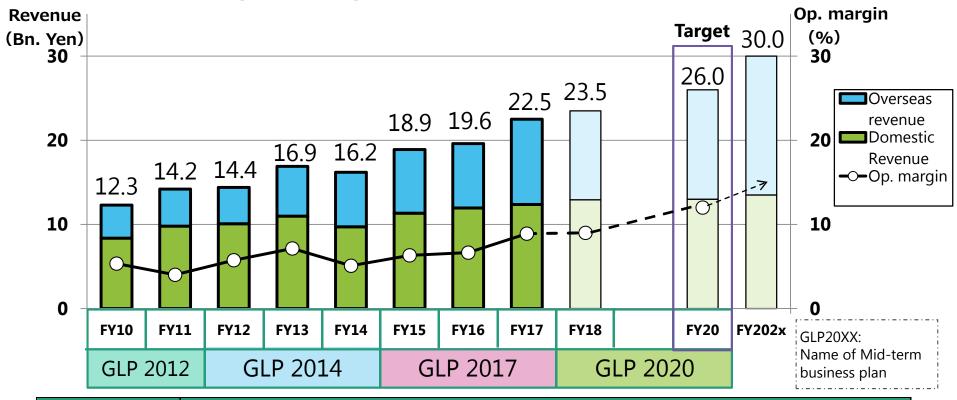
Ⅲ-1. Example of a Production line and Quality assurance



Ⅲ-2. PQA business segments (Products Quality Assurance)



\coprod -2-1. The growing PQA business < PQA >



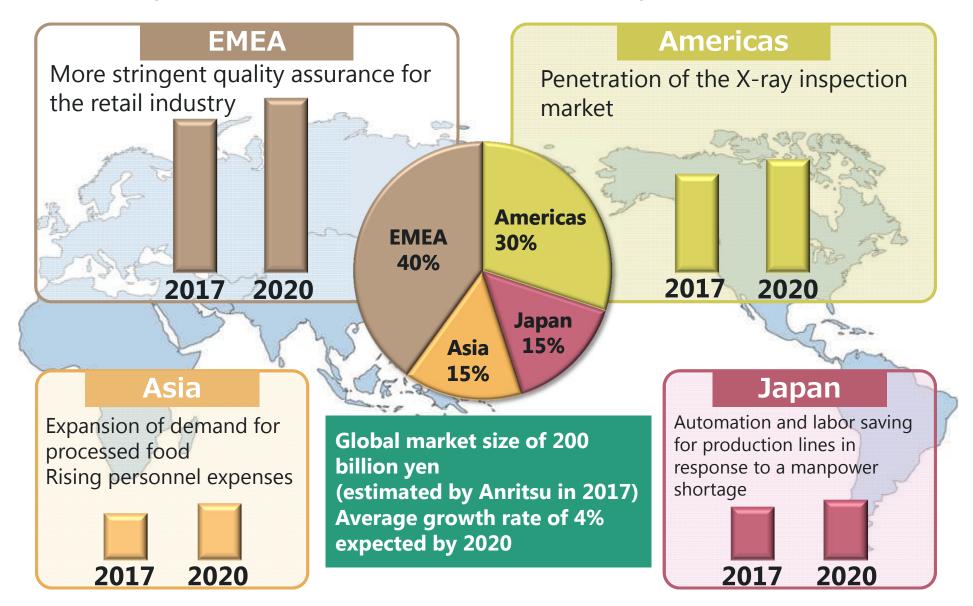
Market	Major initiatives				
North America,	Develop market with X-ray inspection systems as a key solution				
l Japan	Improve market share through quality assurance solutions with high added value				
	in response to cutting-edge needs				

Main Competitors

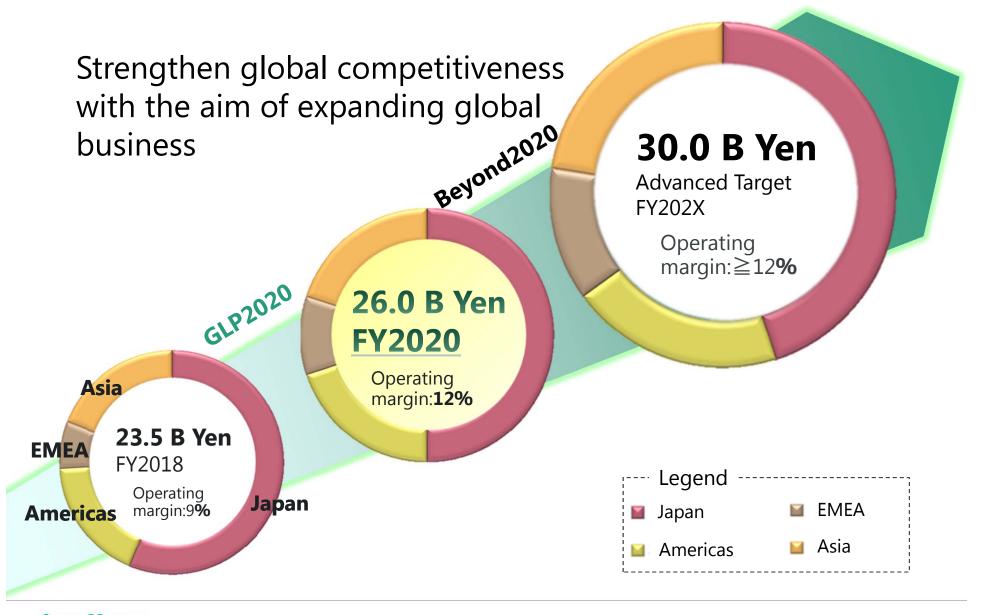
Mettler-Toledo, Ishida, Marel



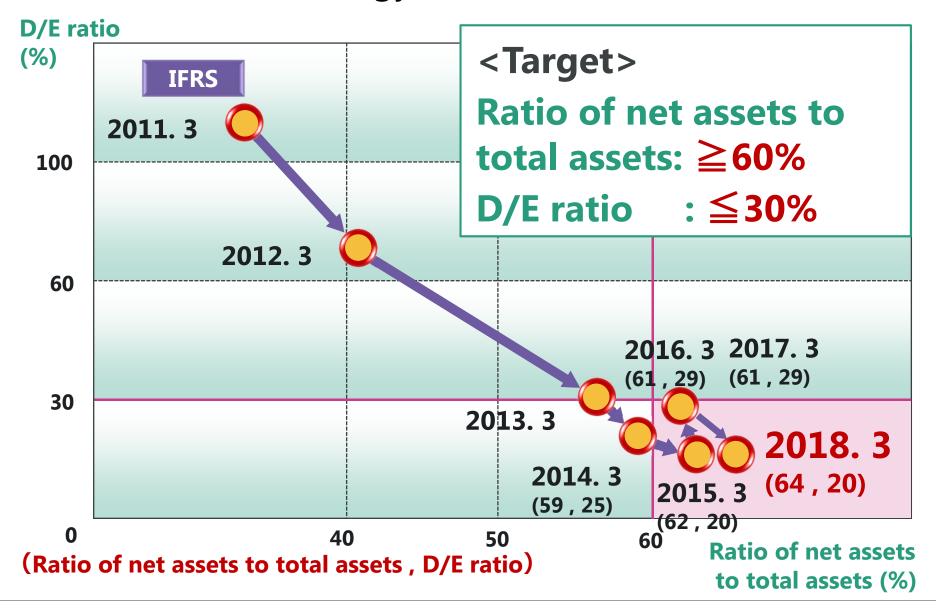
Ⅲ-2-2. PQA Business: Current Status of the PQA Market and Outlook



Ⅲ-2-3. PQA Business: GLP2020 Revenue and operating profit plan



IV-1. Financial Strategy

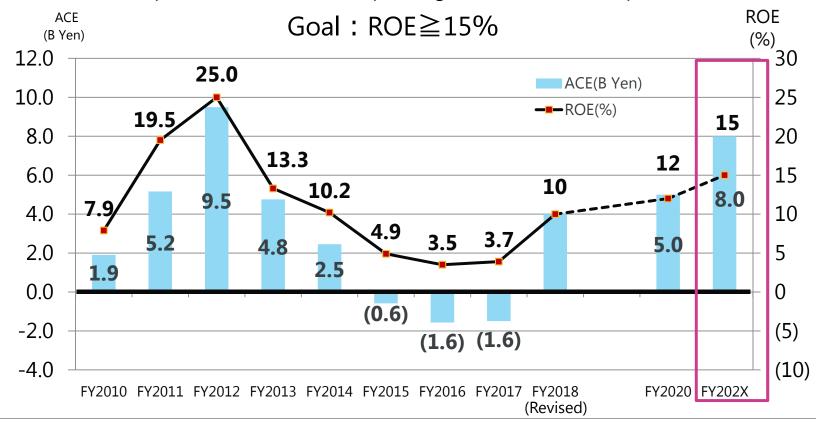


IV-1-1. GLP2020: Financial strategy

Basic policy

Improve corporate value KPI (ACE & ROE) through growth investment (including M&As) with a return of more than 7% of equity cost and capital efficiency improvements

* ACE (Anritsu Capital-cost Evaluation) :Operating income after tax-Capital Cost (WACC,5%)





IV-2. Shareholder Return Policy

D D

Dividend Policy

Distribute profits in accordance with its consolidated performance(Net profit) and by taking into account the total return

1. Take the basic approach of raising dividends on equity (DOE) in accordance with the increase in consolidated profits for the fiscal year

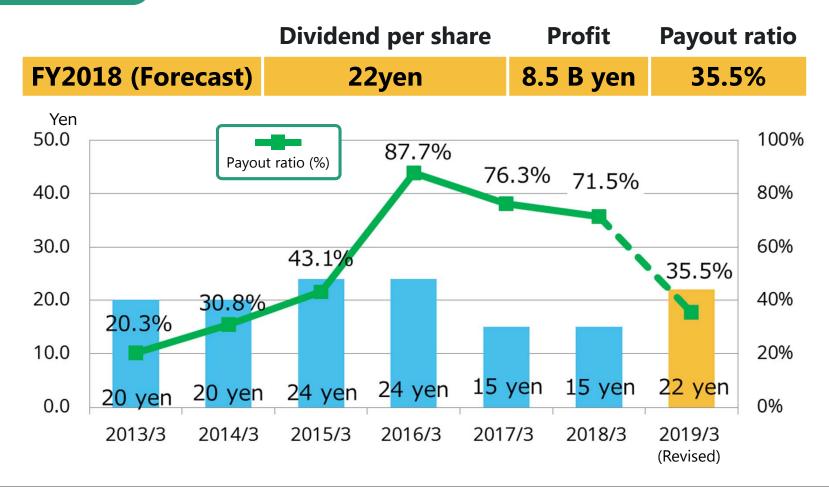
2. Aim at a consolidated dividend payout ratio of 30 percent or more

IV-2-1. Dividend forecast

Annual Dividend
Increase
in dividend

17 yen → **22** yen

(Interim dividend 8.5 yen, Year-end dividend 13.5 yen)





IV-3. Corporate Philosophy and Sustainability Policy

Company Philosophy

Contribute to the development of a safe, secure, and prosperous global society by offering Original & High Level products and services with sincerity, harmony, and enthusiasm.

Company Vision

Achieve continuous growth with sustainable superior profits through innovation, using all knowledge of all parties and contribute to the sustainability of society.

Sustainability Policy

- 1.We will contribute to building a safe, secure, and comfortable society through our business activities, based on our long-term vision.
- 2.We will maintain harmony with the global socio-economy and society through ethical company activities.
- 3.We will contribute to the preservation of the global environment by promoting environmental management for the coexistence of people and nature.
- 4.We will build strong partnerships by promoting communication with all stakeholders.



IV-3-1. Set sustainability management as our axis





IV-3-2. Sustainability Goals(SDGs)

Social Issues We Address through Our Business Activities



Put into place a safe and secure infrastructure which leads to the building of a sustainable society and encourages innovation

Test and Measure ment business



Product Quality Assurance business



Informati on and Communi cations



Devices



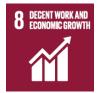
Major Issues in ESG

Maintaining Harmony with the Global Socio-Economy

Together with diverse Human resources, we seek to contribute to the creation of workplaces where each individual can achieve personal growth and experience job satisfaction.

Respect for human rights and diversity / Human resource development / Occupational health and safety / SCM that give due regard to human rights







Promoting Global Environmental Protection

Contributing to the creation of a society with sustainable consumption and sustainable corporate production practices. Reduction in CO2 emissions volume(energy usage volume) and water usage volume/developing and manufacturing of high-quality and environmentally friendly products/Supply chain management that lowers environmental burden







The Creation of Shared Value through the Promotion of Communication

Contributing to the creation of shared value with collaboration among all stakeholders

Providing information to and to communicating with stakeholders/Establishing compliance as a part of our mind –set/ Promoting risk Management



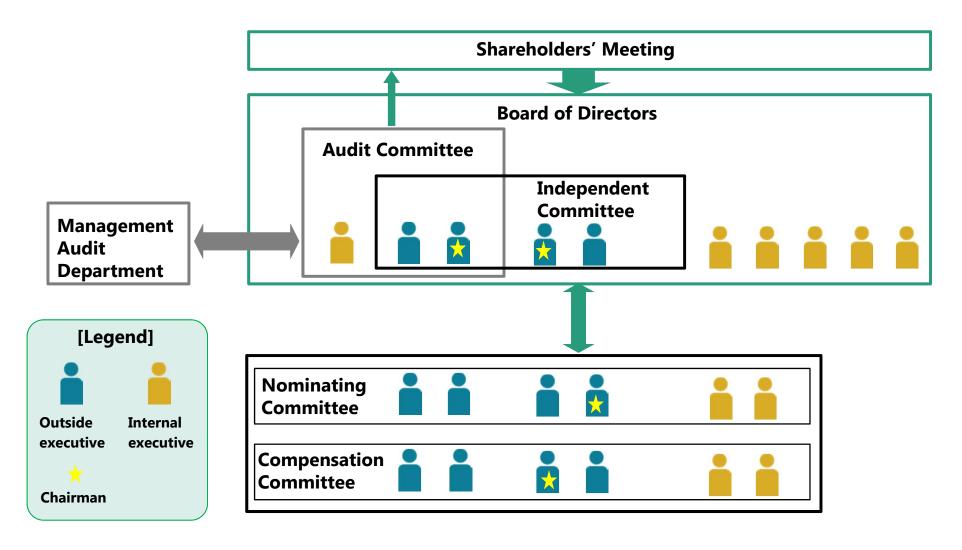






IV-4. Corporate Governance System

For improving competitiveness and continuously enhancing corporate value



V. Financial Results for the 3rd quarter of the Fiscal Year ending March 31, 2019



V-1. Overview of operations by business segment

Segment	FY2	018 3Q (April to December, 2018)			
T&M : Concrete roadmap for 5G commercialization					
	LTE- Advanced	Trend toward focusing investments on LTE-Advanced Pro			
Mobile	5G	Development demand materialized for chipsets and devices			
Network Inf	rastructure	Capital investment within US market was strong			
Asia Commercialization testing seen in China 5G (Su		ation testing seen in China 5G (Sub6GHz)			
Americas	Initial 5G deve	nitial 5G development demand grew steadily			
PQA: Continued strong investment by food market for quality assurance, automation, and labor saving both in Japan and overseas					

T&M: Test & Measurement PQA : Products Quality Assurance



V-2. Consolidated performance - Financial results -



Year-on-year growth in revenue and profit

Unit: Billion Yen

International Financial Reporting Standards (IFRS)	3Q FY2017 (Apr. to Dec.)	3Q FY2018 (Apr. to .Dec)	YoY	YoY (%)
Order Intake	64.2	73.9	9.7	15%
Revenue	62.3	71.1	8.8	14%
Operating profit (loss)	2.7	7.7	5.0	189%
Profit (loss) before tax	2.6	7.9	5.3	198%
Profit (loss)	1.5	6.3	4.8	326%
Comprehensive income	3.0	6.5	3.5	118%

Note: Numbers are rounded off to the first decimal place in each column.



V-3. Consolidated performance - Results by business segment -

T&M: Increase in revenue and profit through investment in initial

International Financial Reporting Standards (IFRS)		3Q FY2017 (Apr. to Dec.)	3Q FY2018 (Apr. to .Dec)	YoY	YoY (%)
	Revenue	40.1	48.6	8.5	21%
T&M	Op. profit (loss)	0.9	6.5	5.6	631%
	Adjusted operating profit (loss)	1.2 *	6.5	5.3	453%
DO A	Revenue	16.1	16.6	0.5	3%
PQA	Op. profit (loss)	1.3	1.0	(0.3)	-23%
Others	Revenue	6.0	5.9	(0.1)	-2%
	Op. profit (loss)	0.9	0.7	(0.2)	-19%
Adjustment	Op. profit (loss)	(0.4)	(0.6)	(0.2)	-
Total	Revenue	62.3	71.1	8.8	14%
	Op. profit (loss)	2.7	7.7	5.0	189%

Note1: Numbers are rounded off to the first decimal place in each column.

Note2: Adjustment includes elimination of inter-segment transactions and non distributed company-wide expenses of each business segment.

Note3: Way to allot headquarter administrative expenses to each business segment changed from the year ending March 31, 2019 and figures of operating profit for the year ended March 31, 2018 are restated.

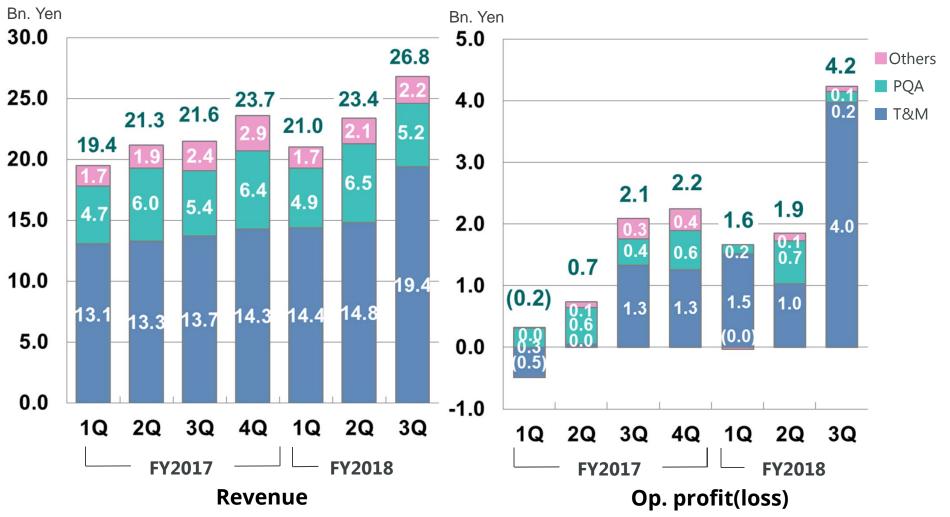
*Adjusted operating profit for T&M is the amount after deducting 0.3 billion yen in restructuring expenses in the U.S.

T&M: Test & Measurement PQA: Products Quality Assurance



V-4. Consolidated performance - Revenue and Op. profit by quarters -

3Q(Oct.-Dec.) Operating margin: Consolidated16%, T&M20%, PQA4%



Note1: Numbers are rounded off to the first decimal place in each column.

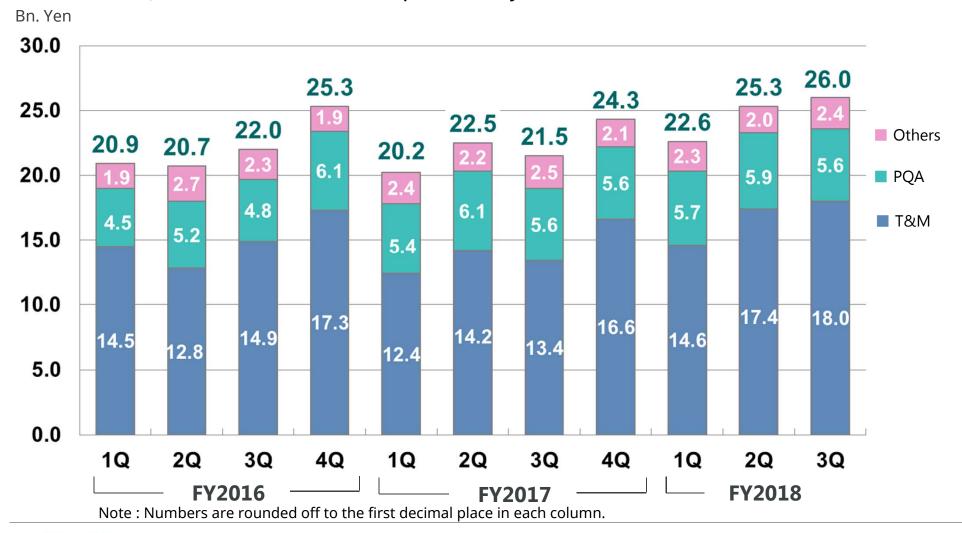
Note2: "Adjustment" is included in segment "Others" within the Op. profit(loss).



V-5. Transition of Order intake

T&M: 34% growth year on year

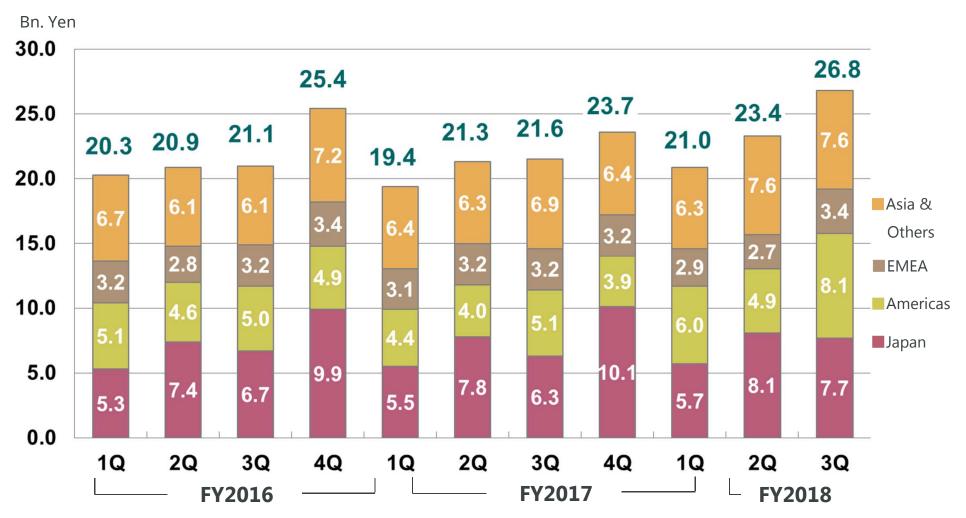
PQA: Same level as the previous year



V-6. Transition of Revenue by region



Increased revenue from investment in initial development for 5G



Note: Numbers are rounded off to the first decimal place in each column.



V-7. Cash Flow



Operating cash flow margin ratio was 13.2%

FY2018 3Q(9 months)

Operating CF: 9.4 Bn. Yen Investing CF: (1.1) Bn. Yen Financing CF: (1.7) Bn. Yen

Free Cash Flow

Op. CF + Inv. CF: 8.3 Bn. Yen

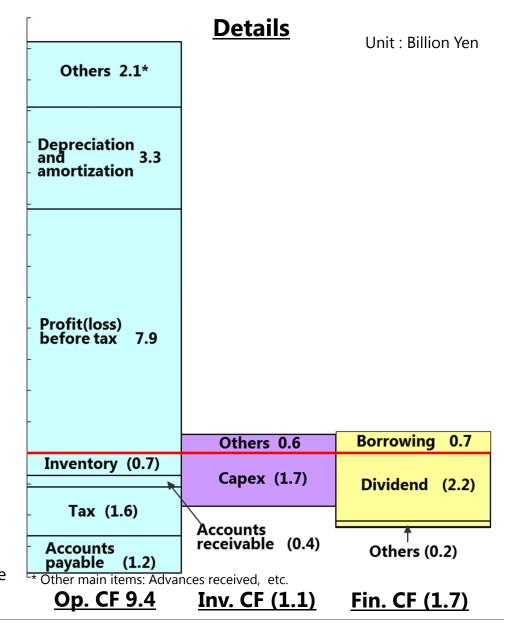
Cash at the end of period

42.1 Bn. Yen

Interest-bearing debt.

16.6 Bn. Yen

Note: Numbers are rounded off to the first decimal place in each column.



V-8. Forecast for full year of FY2018 (Consolidated)

Upward revision in revenue and profit forecast for T&M

Unit: Billion Yen

International Financial Reporting Standards (IFRS)		FY2017	FY2018				
		Actual	Previous Forecast (as of Apr. 26 2018)	Full Year Previous Forecast (as of Oct. 31 2018)	Revised Forecast	YoY	YoY(%)
Revenue		86.0	92.0	92.0	98.0	12.0	14%
Operating profit (loss)		4.9	6.6	7.0	11.0	6.1	124%
Profit (loss) before tax		4.6	6.6	7.0	11.0	6.4	139%
Profit (loss)		2.9	5.0	5.5	8.5	5.6	193%
TONA	Revenue	54.4	60.0	60.0	66.0	11.6	21%
T&M	Op. profit (loss)	2.1	3.5	5.0	9.0	6.9	319%
PQA	Revenue	22.5	23.5	23.5	23.5	1.0	4%
	Op. profit (loss)	2.0	2.0	2.0	2.0	0.0	2%
Others	Revenue	9.0	8.5	8.5	8.5	(0.5)	-5%
	Op. profit (loss)	1.5	4 4	0.7	0.7	(8.0)	-52%
Adjustment	Op. profit (loss)	(0.7)	1.1	(0.7)	(0.7)	0.0	-

Note 1: Numbers are rounded off to the first decimal place in each column.

Note 2:"Others" and "Adjustments" in this segment information are displayed together as "Others" in the previous forecast (announced on April 26,2018).

Reference: Exchange rate: FY2017 (Actual)

FY2018 (Initially Forecast) 1USD=105 FY2018 2H (Forecast) 1USD=105

1USD=111 yen, 1EURO=130 yen 1USD=105 yen, 1EURO=125 yen 1USD=105 yen, 1EURO=125 yen



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