

Refinement of the NTT Group Medium-Term Management Strategy

October 25, 2021

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Background of the Re-Examination of the Medium-Term Management Strategy

Our Vision



To resolve social issues through our business operation, **NTT Group works** together with our partners,

as "Your Value Partner."

Contribute to Realization of **Smart World** /Society 5.0



Partners

Social Issue Resolution through business operation **Digital Transformation** R&D Capabilities ICT infrastructure

× CSR Human Resources

Financial Base

Brand <u>Image</u>

Customer **Base**

NTT Group

As a Public Utility and a Private Company

Corporate Image to Strive For



Accelerate the transformation into an open, global and innovative new NTT, to become "Your Value Partner"



Future Changes in the Environment



Society/Economy

- Advancement of digitalization/DX
- Increasing the importance of economic security
- Expansion of Al/robotics usage
- Pluses and minuses of digitalization (surveillance capitalism)

During and After COVID-19

- Acceleration of the division of the world
- Co-existence with the threat of infectious diseases
- Advancement of a remote/decentralized society
- Social advancement of diverse kinds of personnel

Environment/Resources, Energy

- Increasing scale of natural disasters worldwide
- Realizing carbon neutrality by 2050

Technology

Breaking the existing paradigm, with new technologies:

Beyond 5G/6G, Quantum, Genome, Etc.

Directionality of NTT Group's Transformation



Social/Economic **Directionality**

NTT Group's Directionality

Society During COVID-19 and Post-COVID-19



Advancement of Digitalization/DX **Enhance Domestic and Global Business**

Realization of a **Well-Being Society**



Enhancement of Corporate Value through **ESG** Initiatives

Contribution to of a Sustainable **Achievement** Society



Pillars of the Refinement of the Medium-Term Management Strategy

New Strategic Framework



- Transformation to a New Management Style
- New style premised on remote work

② Enhance Domestic/Global Business

- Growth and strengthening of the newly formed DOCOMO Group
- Promotion of the IOWN development/rollout plan
- Enhance competitiveness in global business
- Promote B2B2X model
- Strengthening of new businesses

③ Enhancement of Corporate Value

- New Environmental and Energy Vision
- Disaster countermeasure initiatives
- Enhancement of returns to shareholders



Initiatives to Achieve the Strategy

Transformation to a New Management Style (1/4)



Transformation to a New Style Premised on Remote Work

Transformation of Business/ DX

Promotion of Remote Work

Re-examination of Systems/ General Improvements



Promotion of "work-in-life" (health management)
Open, global and innovative business operations



Support of Customers' DX

Promotion of Regional Revitalization

Improvement of Resiliency

Contribution to a Decentralized Society

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Etc.

Transformation to a New Management Style (2/4)



Transformation of Business/ DX

1 Introduction of Cloud-Based Systems/ Zero-Trust Systems

Development of an IT environment that enables employees to work from anywhere

Completion in FY2022⁽¹⁾ Completion in FY2023⁽²⁾

(1) Staff and sales teams. (2) All.

2 Automation/Standardization of Business Processes (Sales, Maintenance, Development, Etc.)

Promote the conversion into a Connected Value Chain that includes partner companies

Automated Processes 20 in FY2021⇒ Over 100 in FY2025

Expand customer reach through digital marketing (SMEs)

FY2025
Revenues: ¥140 billion

Contribute to the DX of society as a whole by offering the PF leveraged in our own DX to customers as well (Smart Infra Platform, etc.)

Completion in All Ordinance-Designated Cities in January 2023

3 Enhancement of Governance in Consideration of Conduct Risks

Identifying more than 170 risks and implementing measures such as building appropriate relationships with stakeholders, accurately managing the life cycle of services and other items, and improving crisis management capabilities

From FY2021

4 Promotion of Paperless Operations (Including Invoices/ Purchase Orders)

Paper usage of NTT Group to be reduced to zero in principle* (FY2020: 6,000t)

By 2025

Transformation to a New Management Style (3/4)



ew Manager Appointments: 30% in

■ Re-Examination of Systems/ General Improvements

⑤ Re-Examination of Systems to Promote Business Transformation/DX			
Systematizing information security that is appropriate for remote work			
Re-examination of the office environment (increase the amount of space per person in the office by 1.5x, and enhance the space for idea creation and cocreation)			
Development of core personnel for promoting DX (advanced personnel for data utilization, etc.)	FY2023: 2,400 persons		

6 Active Promotion of Women, External Personnel and Foreigners

Advancement of the promotion of female managers and directors Expansion of various kinds of support and training programs	FY2021	
	Managers: 15% in FY2025	
	Directors: 25-30% in FY2025	
Active recruitment of foreigners and external personnel, and development	Mid-Career Hire Ratio*: 30% in FY2023	
of global management personnel (expansion of overseas personnel development program)	FY2025 Total Number: 200 persons	

7 Introduction of Job-Based Personnel System (Released from Job Year-Based Placement)

Expansion of job-based personnel system for all managers	October 2021
Promotion of autonomous career development (personnel self-selection)	FY2022

Transformation to a New Management Style (4/4)



Promotion of Work-in-Life, and Open, Global and Innovative Business Operations

8 Promotion of Work-in-Life (Health Management) through the Workplace-Residence Proximity

Employees' work will be premised on remote work, and they can choose their own workplace (no need for relocations and unaccompanied assignments, recruitment of remote-based employees, expansion of satellite offices, etc.)

FY2022 260 or more locations*

Transformation from a "highly centralized organization" into an autonomous, decentralized "network-like organization"

From FY2022

* Satellite offices

9 Decentralization of the Organization (Including Head Officers and Back-Offices)

Decentralization of the organization from major metropolitan areas to regional areas (major urban areas)

From FY2022

Further acceleration of community-based regional revitalization businesses towards local primary industries

From FY2021

(10) Promotion of the Development of Information Infrastructure

Promote regional urban development and the introduction of new social infrastructure development (IOWN introduction plan, etc.)

Contributing to the development of resilient infrastructure and disaster mitigation against increasingly large natural disasters

Growth and Strengthening of the Newly Formed DOCOMO Group



■ Challenge of the New DOCOMO Group

New DOCOMO Group Medium-Term Strategy

Expansion of enterprise business

Strengthening the telecommunications business

Strengthening IT

Promoting ESG

Expansion of the Smart Life Business

Strengthening global business

Strengthening R&D



As the synergistic effect of integrating NTT DOCOMO, NTT Communications and NTT Comware,

Create profits of ¥100.0 billion in FY2023, and over ¥200.0 billion in FY2025

(Reference) New DOCOMO Group Medium-Term Strategy (1/2)



Enterprise business

- Integrate all enterprise business under the New DOCOMO Group
- Support all corporate customers with one stop through building up sales organization and enhancing FMC services/solutions
- Expand enterprise sales to over ¥2trillion in F/Y 2025

■ Smart Life business

- Through seamlessly linking membership base, data usage and services with a variety of handsets, co-create new values and lifestyles with partners
- Boosting existing businesses like finance/payment and video/entertainment, plus expansion into new domain will lead the growth of the new DOCOMO Group
- Make the majority of revenues of the new DOCOMO Group in F/Y2025 with smart life and enterprise businesses

Telecommunications business

- Quick expansion of 5G, and integration of network of DOCOMO and Communications realizes a higher-quality, economical network, enabling inexpensive, easy-to-use fixed/mobile services
- We realize with partners rates/services that meet diverse needs as well as reform of sales channels, and create customer experience beyond their expectations
- Maintain mid-term profit in telecommunications business/Realize a shift to the growth trajectory

(Reference) New DOCOMO Group Medium-Term Strategy (2/2)



Global business

 Develop Global Businesses Through converging Capabilities of DOCOMO and NTT Communications and Linkage with NTT Data, and NTT Ltd.

 Strengthen the software development capability to quickly provide new services to customers, and to accelerate DX of the whole group

■ R&D

Lead the Open Innovation, and Change the World with Partners

ESG

 Pursue Business and ESG Comprehensively, and Contribute Toward Creation of Sustainable Society

IOWN Rollout Plan

■ Contribution to the realization of a sustainable society by IOWN as a game-changing technology

 Legend I Actions PoC A Commercialization (planned) Exhibit 	Black: related to Communication	
	Green: related to Smart City	
	Blue: related to Maps/Cars	
	Red: Photonics-electronics Convergence Technology	

N y	by lown as a game-changing technology				
	FY	2021-22	2023-25	2026-30	
		Field Testing of Technologies	Advanced services for early adopters	Deploying to specific applications/areas Expanding the target	
Rollout Plan		Establishment of the IOWN Integrated Innovation Center	■ ITER Sea	amless communication services	
		 Strengthening manufacturing technologies of photonics-electronics 	Osaka/Kansai Expo (6G/IOWN exhibition, demonstration)	▲ Photonics-electronics convergence devices for	
		convergence devices (Establishment of NTT Electronics Cross Technologies Corp.)	Traffic flow managementQuantum cryptographic	mobile equipment	
		Cloud gaming for eSports (Low-latency connection)	communication Super White BOX	▲ Concatenated loop topology (Reliability/Flexibility/	
		Real-world sports viewing remotely (Ultra-realistic video transmission/ Low-	 (Next-generation computing platfor Space data center, etc. 	Extendability)	
		latency connection) ♦ Next-generation advanced office,	▲ Smart city projects (Phas		
		"Urbannet Nagoya Nexta Building" (PoC of DTC for urban development)	▲ Level 3 autonomous driving of agricultural machinery	▲ (Phase 2) ▲ Other smart city projects	
		Underground installation management with high-precision visualization (joint management with other utility companies)	▲ Connected car safe driving support	Autonomous driving/ Precise group control of robots	
_	DTC	Collection and analysis of spat massive sensor data searchi	iotemporal real-time Al vehicle processing vehicle	understanding of constitution and constitution and constitution of constitution of constitution areas	
Technol Compo	CF	Prediction of wireless communication quality affected by hand-over/masking	Integrated resource control for immediate responses to demand changes (including wireless communications)		
echnologica Components	Disaggregated Computing	Super White BOX: Step 0 (Optical direct path)	Super White BOX: Step 1 (Optical backplane)	Super White BOX: Step 2 (Full optical)	
logical nents	APN	Direct optical path (Hundreds of Gbps/ Non-dynamic routing) Post-quantum cryptographic communication	Connection High-precision op	Remote Core network for ordical path seamless Direct optical communication connection (1Tbps/	
			Optical transceivers for APN On-board co-packaged optical transceiver	Photonics-electronics convergence processor	

Enhance competitiveness in global business (1/2)



■ Strengthening Digital Business Consulting as One NTT

From	FY2 (121 to	FY2 (123

NTT DATA			Primary KPIs (for F	Y2023)
 Strengthen industry-specific consulting c Form a Global One Team across six industr solutions 	capabilities ries* to gain and develop the capabilities of indu * Healthcare, banking, insurance, automo	•	Cost of Sales Ratio	76%
• Further expansion of digital offering capa	SG&A Ratio	16%		
 Strengthen app modernization, data analysisthrough acquisitions, etc. 	Consulting Business Sales Ratio	25%		
 Governance reform based on EMEAL inte In addition to Simplification of the organizat appropriate risk management 	egration tion, strengthen monitoring and communication	, and	Market Share in Key Countries/Industries	Over 2%
	Marketing Based on the One NTT Value Propos City solutions, starting in North America)	sition		
 Sales structure that accelerates sales of h Formulation of account plans for target clien introduction of new sales incentives that foc 	High Value Services Sales Ratio	Over 50%		
 Further cost reductions Further optimization of G&A and other areas Prioritization of services and resource concerns 	G&A Costs	(12)%*		
Continued investment in existing services Continued investment in market-leading IT in	* Compared to	FY2020		
Development of new solutions Expansion of cloud-related services and edge				
Global HRM	Branding		Partnering	

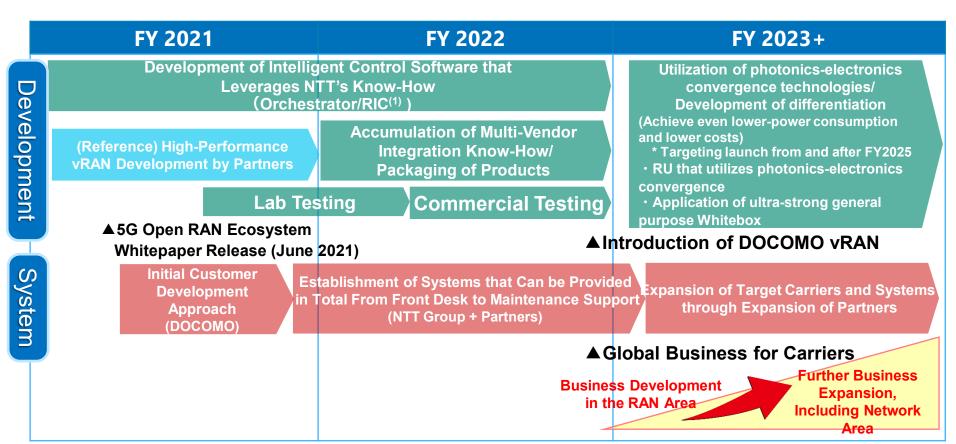
Overseas Operating Income Margin: FY2020: 3%
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Enhance competitiveness in global business (2/2)



■ Target Global Business with O-RAN/vRAN

- In collaboration with partners (NEC, Fujitsu and others), from the end of FY2022, will expand global business in the RAN area, and will provide services for multi-vendor integration, management/intelligent control software, construction, maintenance and operation, etc.
- From FY2023, will expand from the RAN area to the network area, to further promote openness and expand business areas as the foundations of future IOWN business



NTT Group's New Environment and Energy Vision (9)



Addressing Environmental Issues

Improving Economic Growth



Paraconsistent

NTT Green Innovation toward 2040

Achieving Zero Environmental Impact and Improving Economic Growth at the Same Time

Reduction of Environmental Impact through Business Activities



Creation of Breakthrough Innovation

NTT is Innovating for a Sustainable Environment

NTT Green Innovation toward 2040



2030

80% Reduction in Greenhouse Gas Emissions (compared to FY2013)

Mobile (NTT DOCOMO)

Data Centers

Carbon-Neutral

2040

Carbon-Neutral

Targets of the Above Reduction Objectives

GHG Protocol: Scope 1 (our own direct greenhouse gas emissions) and Scope 2 (indirect emissions associated with the purchase of electricity, heat and steam that are provided by other companies)

Mobile :15 companies in the NTT DOCOMO Group (as of September 28, 2021)

NTT Group's Reduction Target (Scope 1+2): Upgraded to SBT's 1.5 °C level

Towards the Achievement of Carbon Neutrality



Increased use of renewable energy: Reduce greenhouse gas emissions by 45%⁽¹⁾

1

 Lower energy consumption with IOWN technologies: Reduce greenhouse gas emissions by 45%⁽²⁾ 2

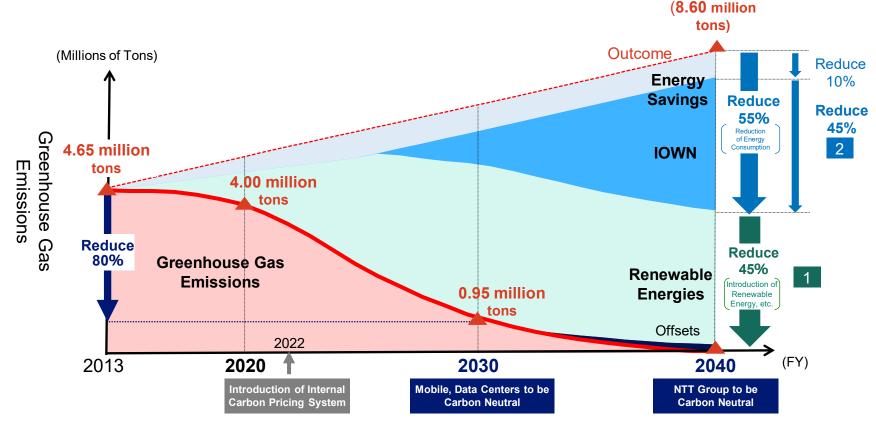


Illustration of NTT Group Greenhouse Gas Emission⁽³⁾ Reductions (Domestic + Overseas)

⁽¹⁾ Estimated Introduction of Renewable Energy (including actual renewable energy through Non-Fossil Fuel Certificates)

FY2020: 1.0 billion kWh; FY2030 to FY2040: around 7.0 billion kWh

The introduction of renewable energy will have the optimal types of energy determined on the basis of each country's energy composition, etc. Approximately half of the domestic renewable energy usage is anticipated to be from energy sources owned by NTT (FY2030).

⁽²⁾ Estimated Reduction of Energy Consumption through the Introduction of IOWN (Comparison to Outcome) → FY2030: (2.0) billion kWh ((15)%); FY2040: (7.0) billion kWh ((45)%) Percentage of Introduction of IOWN (Photonics-electronics Convergence Technologies, etc.) out of Total Energy Volume → FY2030: 15%; FY2040: 45%

⁽³⁾ GHG Protocol: for Scope 1 and 2

NTT's Contributions to Reducing Society's Environmental Impact



- Expanding adoption of IOWN technologies from the telecommunications field into other industries
 - Contribute to the reduction of greenhouse gases⁽¹⁾ in Japan and the world
 - > Japan ⇒ Reductions: over 0.02 billion tons; Reduction Rate: over 4%
 - > World ⇒ Reductions: over 0.3 billion tons; Reduction Rate: over 2%
 - Further accelerate DX⁽²⁾ (e.g. of digital twin computing)
 - Promote greenhouse gas reduction across the entire supply chain
- Providing new services that contribute to carbon neutrality
- Strengthening development and expanding introduction of NTT Group's Renewable Energy Plan
 - Promotion of local energy production for local consumption
 - (1) Conditions for Reduction Estimates
 - Target: beginning in FY2040
 - Adoption Rate of IOWN for Electric Semiconductors, etc. (Photonics-electronics Convergence Technologies, etc.): approximately 50%
 - CO₂ Emission Factor: Japan • 0.185kg-CO₂/kWh; World • 0.130kg-CO₂/kWh
 - 2) CO₂ Reduction Potential: approximately 50% (2030; Target: World, calculated based on GeSI and IEA estimates)

(Reference) NTT's Main Initiatives



Reduction of Environmental Impact through

Business Activities

Reducing society's environmental impact



- Further acceleration of DX and promotion of Remote World
- Promotion of regional urban development and the introduction of new social infrastructure development
- Promotion of greenhouse gas reduction across the entire supply chain
- Provision of new services that contribute to carbon neutrality
- Contribute to local production and consumption of energy, through smart grids based on battery farms
- Expansion of green electricity retail

Creation of Breakthrough Innovation

Creation of innovative environmental energy technology



- Use of 4D digital platform for future predictions / optimal use of urban assets*
- Optimal operation of fusion reactors (ITER/QST)
- Lightning charging
- Applied genome-editing technology for "Green" (Collaboration)

* Energy, transportation, logistics, etc.

Reducing Society's Environmental Impact

Contributions to

Green by

ICT

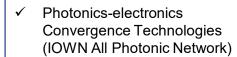
Introduction of IOWN and **Expansion of Renewable** Energy

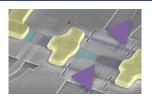


- Reduction of energy consumption through the
- Expansion of the development and usage of renewable energy
- Introduction of an internal carbon pricing system
- Issuance of green bonds

introduction of IOWN

Achievement of Ultra-**Low Power Consumption**





- **Creation of Decentralized Technology**
- Photonic disaggregated computing
- Space integrated computing network

Green of ICT

Reducing NTT's Own **Environmental Impact**



Refined Medium-Term Targets

Refinement of Medium-Term Financial Targets



Target	Current Target	New Target	(Reference) FY2021 Plan
EPS	Approx. ¥320 (FY2023)	¥370 (FY2023)	¥302
Overseas (1), (2) Sales	\$ 25B (FY2023)	 (FY2023)	\$ 19B
Overseas (1) Operating Income Margin	7% (FY2023)	7% (FY2023)	6%
Cost Reductions (3) (In Fixed-Line/Mobile Access Networks)	At least ¥(800.0) billion (FY2023)	At least ¥(1,000.0) billion (FY2023)	¥(840.0) billion
ROIC	8% (FY2023)	8% (FY2023)	7.4%
Capex to Sales (4) (Domestic Network Business)	13.5% or less (FY2021)	13.5% or less (FY2021)	13.5%

⁽¹⁾ Includes results from the global holding company, its subsidiaries and its affiliates.

Overseas Operating Income excludes temporary expenses, such as M&A-related depreciation costs of intangible fixed assets.

 ⁽²⁾ In addition to the change in accounting for some of the income, the impact of COVID-19 is also significant, so no target is set.
 (3) Figures above show cumulative reductions since FY2017. (4) Excludes NTT Communications' data centers and certain other items.



This document is a translation of the Japanese original. The Japanese original is authoritative.

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* "FY" in this material indicates the fiscal year ending March 31 of the succeeding year.



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