



JPX
JAPAN EXCHANGE
GROUP

Medium-Term Management Plan 2024

Update for FY2023

Exchange & beyond

Japan Exchange Group, Inc.

March 30, 2023

Major Themes in the External Environment and Long-Term Vision



Major Themes in the External Environment Looking Ahead to 2030

Worldwide

- Shift to a decarbonized society
- Population growth pushing the limits of supply and demand of food and resource
- Deepening fourth industrial revolution
 - AI
 - Big data
 - IoT etc.

Asia

- Population growth
 - Economic growth
- The center of the global economy may shift to Asia.



Japan

- Progression of super-aging society
- Dwindling working-age population
- Mounting social security expenses
- Deteriorating social infrastructure

- Amid these changing times, the world, Asia, and Japan itself must make the shift to a sustainable society and economy.
- In order to support this transition from the financial and capital markets side, our business development will need to focus on providing solutions for societal issues.

“Target 2030” and Our Long-Term ESG Target

“Target 2030”: our long-term vision to be achieved by 2030

Contribute to sustainable societal and economic development by evolving into a global, comprehensive finance and information platform* which provides solutions for a wide range of societal issues, centered on the ability to raise and circulate capital

*Named “G-HUB” (Heighten market integrity, Unlock opportunity, Benefit society)

Long-term ESG target

Contribute to sustainable societal and economic development by providing solutions for a wide range of societal issues



Environmental Vision

Japan Exchange Group will maintain and further develop the capital market into one that can coexist with the environment, by creating a clear action plan on environmental issues and making ongoing efforts to reduce our environmental footprint

Aim for carbon neutrality in securities market operations (our value chain) by 2030

Basic Policy and Three “Focus” Areas



Updated Policy from the Second Year On

Updated Policy

- As there have been no major changes in the business environment that would compel a shift in the basic aims of the Medium-Term Management Plan 2024, JPX will maintain the overall framework of the plan and continue to steadily implement each project while making necessary improvements.
- In particular, with government proposals for a "New Form of Capitalism" including the Doubling Asset-based Incomes Plan taking shape, JPX must recognize that its role in creating a "virtuous cycle of growth and distribution" has become more important than ever.
- On the topic of information provision, JPX will consider ways to further increase awareness and understanding about its initiatives both inside and outside Japan.

Medium-Term Management Plan 2024: Basic Policy

Basic Policy of the Medium-Term Management Plan 2024

- A three-year plan from FY2022 has been developed as the first stage of progress towards Target 2030.
- We will utilize new frameworks including JPX Market Innovation & Research to take proactive action on building the foundations of the global, comprehensive finance and information platform “G-HUB”.

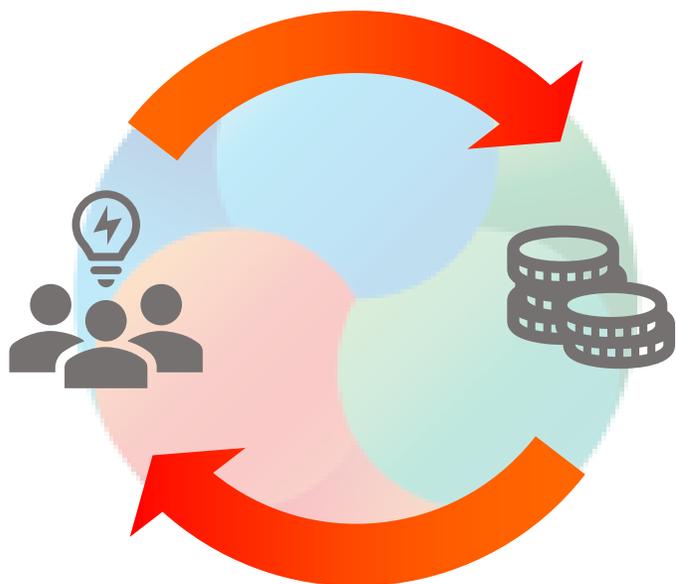
Exchange & beyond

To contribute to improving the attractiveness of the Japanese financial and capital markets as a whole and enhance their global competitiveness, we will prioritize initiatives in three specific “Focus” areas.



Focus 1 | Facilitating Cycle of Corporate Innovation/Growth and Asset Formation

- In our role as a core infrastructure supporting fundraising by companies and asset formation by the public, as well as supporting innovation and growth at companies, we will develop the primary and secondary markets so that the profits stemming from companies' efforts generate asset formation among the general public, leading back to further innovation and growth at companies



Actions

■ Develop an environment that supports sustainable growth at companies

- Enhancement of financing functionality for growth companies
- Promotion of corporate value improvement at listed companies
- Establishment of IPO ecosystem that contributes to revitalizing regional economies
- Provision of trading opportunities for after delisting etc.

■ Develop products and rules to contribute to asset formation

- Expansion of the ETF market
Target: 30% increase* in average daily trading value and net assets held in ETFs, etc. in FY2024
*In comparison with FY2021. Average daily trading value excluding leveraged/inverse products. Net assets excluding BOJ purchases
- Revisions to trading rules to allow smooth execution
- Development of an environment enabling secure and easy investment while considering investor protection
- Promotion of listings of cross-border companies, mainly from Asia
Target: 20 listings of cross-border companies in the 3 years of the plan
- Provision of comprehensive financial education including life planning, and strengthening of collaborative activities with industry players etc.

■ Further improve convenience and resilience as a market infrastructure

- Ongoing improvement of systems and their operation, and system replacements
Target: Replacement of cash equity trading system in 2H FY2024, Extension of trading hours at the time of replacement
- Strengthening of BCP function to ensure stable market operations etc.

Focus 1 | Review of the First Year of the Plan (FY2022) and Planned Activities

- We will support sustainable growth and value enhancement of companies and encourage mid- to long-term asset building among the public through the provision of attractive products as well as financial and economic education, thereby contributing to the "virtuous cycle of growth and distribution" that the Doubling Asset-based Incomes Plan aims for.

Review of the First Year of the Plan

Planned Activities

Develop an environment that supports sustainable growth at companies

- Summarized discussions of the Council of Experts Concerning the Follow-up of Market Restructuring and set out TSE's future actions
- Released outline of new index focusing on value creation
- Released outline of specifications for a smoother initial listing process and other things
- Concluded capital and business alliance agreement with Minsetsu, Inc. and made SCRIPTS Asia, K.K. a wholly owned subsidiary with the aim of promoting constructive dialogue between listed companies and investors

- Establishing a framework to motivate autonomous actions to enhance listed companies' medium- to long-term corporate value
- Examining ways to make the Growth Market better fulfill its functions
- Starting calculation of and promoting use of new index focusing on value creation
- Reviewing TSE's quarterly disclosure rules in light of the legal revisions while promoting proactive disclosure
- Promoting constructive dialogue between listed companies and investors with SCRIPTS Asia, K.K., ICJ, Inc. and Minsetsu, Inc.

Develop products and rules to contribute to asset formation

- Released outline of specifications for active ETFs
- Released outline of specifications for optimization of tick sizes for medium liquidity stocks
- Requested issuers to lower investment units
- Launched "JPX Manebu Lab," a comprehensive financial and economic education portal site that provides information from a fair and neutral standpoint
- Published list of TOPIX phased weighting reduction constituents

- Listing active ETFs and exploring further advancement
- Implementing optimization of tick sizes for medium liquidity stocks
- Further promoting financial and economic education in cooperation with related organizations in line with expansion of NISA scheme
- Steadily implementing the transition of TOPIX and determining rules for post-transition

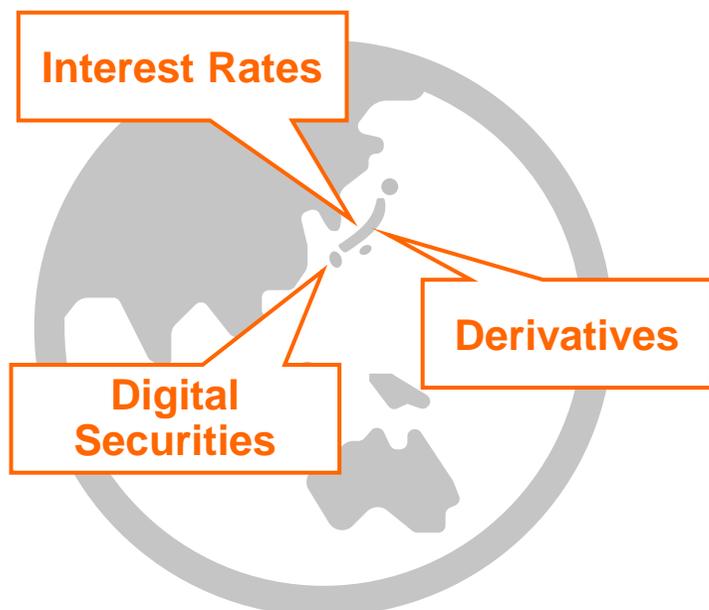
Further improve convenience and resilience as a market infrastructure

- Started development for upgrading the cash equity trading system
- Completed construction of the secondary data center in the Kansai area in preparation for the predicted large earthquake under Tokyo

- Further developing and launching the next generation cash equity trading system, and extending cash equity trading hours at the time of launch
- Developing an effective BCP system to improve resilience

Focus 2 | Achieving Market Transformation(MX)

- In order to serve as a hub for circulating capital in the Asia Pacific region while keeping focused on changes in the interest rate environment, we aim to enable optimal allocation of risk/return across society by ensuring systems for raising and managing funds function smoothly and sufficiently, not only for stocks but for other products as well.
- In addition, to reduce the costs of raising and managing funds, we will advance digitization in all corners and enhance information usage.



Actions

■ Strengthen functionality of interest rate-related markets

- Revitalization of JGB-linked derivatives
- Introduction of short-term interest rate derivatives **UPDATED**
- Promotion of professional-oriented bond market etc.

■ Invigorate the derivatives market

- Listing of small lot products linked to index futures and options
- Improvement of convenience for retail investors
- Expansion of flow from global investors
- Entrenchment of holiday trading **UPDATED** etc.

■ Advance digitization and enhance information usage

- Creation of a digital securities market
Target: Creation of a market and start of trading of new products by the end of FY2024
- Development of new services utilizing digital technologies for internal and external use
Target: 3 services in the 3 years of the plan
- Strengthening of index businesses and enhancement of investment-related information etc.
Target: 280 new clients for information services and 12 cases of creating new information services or updating existing information services and rules in the 3 years of the plan **UPDATED**

Focus 2 | Review of the First Year of the Plan (FY2022) and Planned Activities

- We will further invigorate the derivatives market through the enhancement of interest rate derivatives and small lot products, as well as creating new markets and services utilizing digital technology and using information in a more sophisticated way, thereby contributing to the efficiency of asset management.

Review of the First Year of the Plan

Planned Activities

Strengthen functionality of interest rate-related markets

- Released outline of specifications for short term interest rate futures linked to the Bank of Japan's TONA

- Offering market infrastructure that enables trading, clearing, and settlement of long- and short-term interest rate products at a single venue
- Introducing cross margining between interest rate swaps and short-term interest rate futures

Invigorate the derivatives market

- Launched holiday trading to enhance investor convenience by providing hedging opportunities
- Released outline of specifications for Nikkei 225 micro Futures and Nikkei 225 mini Options
- Released outline of specifications for the introduction of a new margin calculation method (VaR Method) for listed derivatives

- Listing Nikkei 225 micro Futures and Nikkei 225 mini Options
- Changing derivatives trading hours in light of the extension of cash equity trading hours
- Introducing the VaR Method

Advance digitization and enhance information usage

- With the aim of creating a digital securities market, issued a Digitally Tracked Green Bond, established a study group, joined consortia on digital issues, began joint discussions on establishing Progmatt, and invested in BOOSTRY
- Implemented DLT technology for settlement by physical delivery and payment of rubber futures contracts

- Collaborating with domestic platform providers to create a digital securities market
- Using blockchain technology to further enhance settlement efficiency and future readiness

Focus 3 | Promoting Sustainability that Connects Society and Economy

- We will assist the creation of a sustainable society by utilizing market mechanisms to provide solutions for a wide range of societal issues, through the provision of an environment where sustainability-related information, products, and services are easily accessible to all.



Actions

■ Strengthen dissemination of sustainability-related information

- Creation and enhancement of information platform
Target: Launch of information platform for publicly offered ESG bonds in FY2022 **Achieved**
- Support for sustainability information disclosure from issuers
- Participation in international debate and standard-setting on sustainable finance etc.

■ Calculate ESG indices and list related ETFs/futures

- Calculation of ESG-related indices, listing of related futures etc.
Target: Launch of new ESG index **Achieved**
and Listing of related futures in FY2022

■ Vitalize the energy market, advance the creation of an emissions trading market

- Increase in trading of electricity/LNG futures
Target: Trading volume on electricity futures in FY2024 5 times that of FY2021
Target: Permanent listing of LNG futures by FY2024
- Study and work towards the creation of a Japanese carbon credit market **UPDATED** etc.

Focus 3 | Review of the First Year of the Plan (FY2022) and Planned Activities

- We will contribute to the creation of a sustainable society by promoting sustainable finance through the use of ESG-related information or other means.

Strengthen dissemination of sustainability-related information

Review of the First Year of the Plan

- Launched ESG Bond Information Platform to improve convenience for market users and visibility of the products
- Launched "JPX Listed Company ESG Information WEB (beta version)," which provides a list of links to reports containing ESG information

Planned Activities

- Reviewing the ESG bond information platform and considering further enhancement based on the review

Calculate ESG indices and list related ETFs/futures

- With FTSE, launched FTSE JPX Net Zero Japan Index Series, an index series using environmental metrics
- Released outline of specifications for futures contracts based on ESG indices
- Released outline of specifications for the revision to the contract unit of silver futures and palladium futures

- Listing futures on ESG indices
- Implementing the revision to the contract unit of silver futures and palladium futures

Vitalize the energy market, advance the creation of an emissions trading market

- Launched Electricity Futures as a permanent listing and LNG Futures as a trial listing
- Signed MoU with Japan Electric Power Exchange
- Conducted trial trading of carbon credits as part of the "Technical Demonstration Project for Carbon Credit Market" commissioned by the Ministry of Economy, Trade and Industry

- Enhancing product and service lineups to develop the electricity futures market and streamlining calculation of margin
- Discussing the creation of a Japanese carbon credit market

Global Strategy, Green Strategy



Global Strategy Initiatives

- We will aim to continue as a central market for the Asia-Pacific region, and a key market globally, by attracting global investment into Japan while creating an environment that enables one-stop investment in stocks and other products from across the globe

Attracting global investment into Japan

- **Market/infrastructure functionality**

Strengthening of market resilience and convenience through extension of cash equity market trading hours, replacement of cash equity market trading system, launch of derivatives holiday trading, enhancement of functionality in interest rate-related markets and clearing, expansion of English disclosure, etc.

UPDATED

- **Promotion**

Development of extensive relationships with investors and information vendors and advancement of marketing and sales in trading and information services areas

Enabling one-stop investment in global products

- **Cross-border companies**

Expansion of campaign to attract cross-border company listings, mainly in Asia

- **ETFs/ETNs**

Proactive work to attract issues linked to indices covering foreign stocks, etc.

- **Bonds**

Promotion of TOKYO PRO-BOND Market, the market for professional investors

Strengthening the foundations of our global business

- **Human resource investment**

Creation of an environment and investment to enable obtainment and nurture of diverse human resources, as well as development and demonstration of employee capabilities

- **Overseas cooperation**

Cultivation of business opportunities through collaboration with overseas companies mainly in Asia

- **Market/regulation trends**

Research and analysis of global trends in markets and regulation, etc. through mainly the overseas offices

- **International standards, etc.**

Participation in debate about and creation of international standards relating to sustainable finance

- **Overseas technology assistance**

Work to contribute to sustainable development and create business opportunities in the countries we assist

Green Strategy Initiatives

- To support the shift to carbon neutrality in Japan, we will push forward with our environmental strategy both as a market operator and as a business corporation.

Utilizing Market Mechanisms to Promote Sustainability

- Promotion of action on sustainability issues and information disclosure at listed companies, through the Corporate Governance Code
- Strengthening of sustainability-related information functions (further development of information platform for publicly offered ESG bonds, including functionality enhancement) **UPDATED**
- Calculation of ESG indices and listing of related ETFs/futures
- Vitalization of the energy market, advancement of an emissions trading market (study and work towards the creation of a Japanese carbon credit market) **UPDATED**
- Promotion of use of Digitally Tracked Green Bonds that utilize digital securities **UPDATED**
- Enhancement of the "JPX ESG Knowledge Hub" to support listed companies' ESG information disclosure

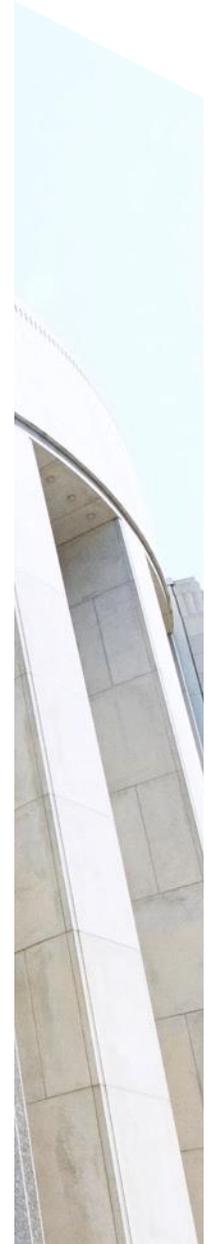
Aiming for Carbon Neutrality across Group by FY2024

- Direct contribution to environmental conservation through owning our own renewable energy generation facilities - not just purchasing carbon credits
- Endorsement of METI's "GX League Basic Concept"

Aiming for Carbon Neutrality in Securities Market Operations (Our Value Chain) by 2030

- Working towards securities market operations that underpin a sustainable society by utilizing and implementing JPX's own initiatives in cooperation with market participants

Financial Policies



Financial Targets, CAPEX, and Capital Policy

- We will maintain financial targets by thoroughly managing expenses and prioritizing investments, while continuing to enhance market convenience and resilience and invest for future growth.

Financial targets for the final fiscal year

Operating Revenue	JPY 147.0 bil.
Net Income (attributable to owners of the parent company)	JPY 53.0 bil.
ROE	At least 15%

CAPEX

- While working on enhancing market convenience and resilience, we will invest in building the foundations of a global, comprehensive finance and information platform.

Total CAPEX over 3 years **Approx. JPY 50 bil.**

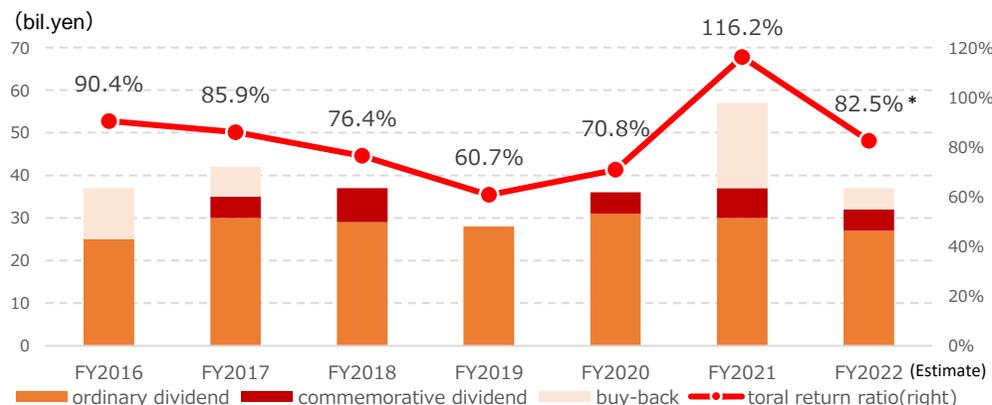
Capital policy

- Support the sustainable development and evolution of the market by making constant investment while keeping a balance between shareholder returns and financial resilience for stable market operations
- Irrespective of market conditions, maintain **ROE of 10%** exceeding capital cost over the mid- to long-term

Return to
shareholders

- **Dividend payout ratio of approx. 60%**
- Flexibly implement further shareholder returns in consideration of future investments, etc.

(Ref.) Past total return ratios & returns to shareholders



*Estimated based on earnings and dividend forecasts published on March 22, 2023 and the status of acquisition of own shares as of the end of February 2023.

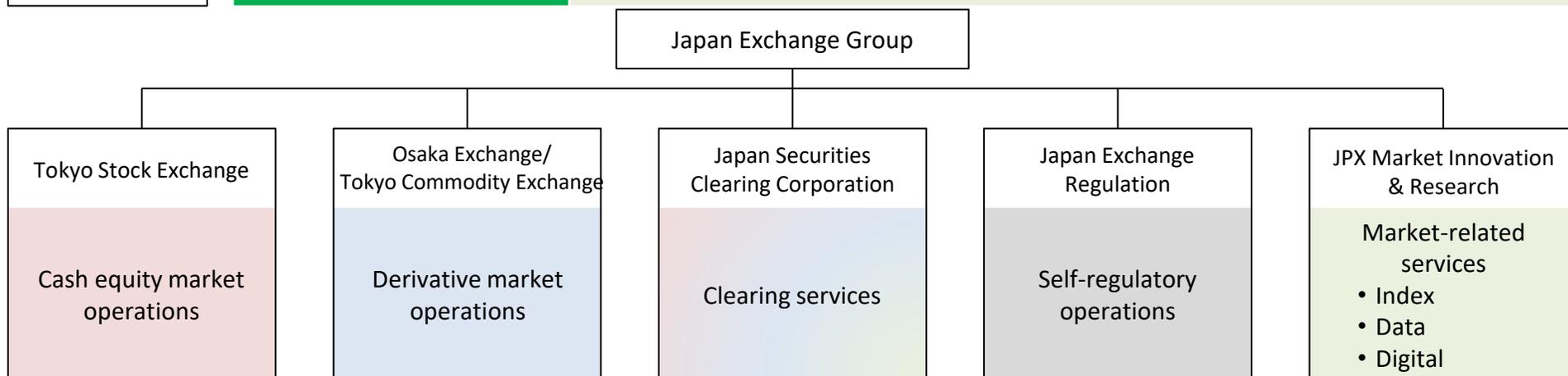
Reference | Organizational Structure from FY2022 onward

Aims

- With Target 2030 as the goal, in our role as a core infrastructure of Japan’s financial and capital markets, JPX Group companies will work as one to consistently provide the functions fundamental to market operations, from listing and trading to clearing and settlement as well as data services.
- Furthermore, we will increase the added value we provide to society while working to create new services, stabilize profits, and maintain robust financial foundations.

Current status of and outlook for business

Cash equity market operations	<ul style="list-style-type: none"> • We have been seeing stable revenue growth in this area • We will continue to focus on stable development as one of the world’s prominent markets
Derivative market operations	<ul style="list-style-type: none"> • We have been working on expanding the market in this area • With continued anticipation of the latent growth potential of the market, reflecting the situation overseas and other factors, we will continue to act determinedly
Market-related services	<ul style="list-style-type: none"> • We have increased revenue in this area that is not affected by Japanese stock market movements • We will work towards entering new fields in addition to developing the existing index, data, and IT services, by nurturing a company culture that encourages more positive, proactive action and leveraging M&As



Reference | JPX Market Innovation & Research, Inc.

- JPX Group has established JPX Market Innovation & Research, Inc. (JPXI) as a new subsidiary parallel to the exchanges, the self-regulatory organization, and the clearing house. It will start business on April 1, 2022.
- As well as taking on JPX Group's index, data, and digital-related services, thereby enabling us to provide all market-related services from under one roof, JPXI will play a key role in creating the global, comprehensive financial and information platform "G-HUB" as set out under Target 2030.
- Furthermore, JPXI will contribute to bolstering the competitiveness and status of Japanese financial and capital markets by enriching services on ESG, listed company, and others considered necessary to enhance the attractiveness of the market, as well as envisioning how financial and capital markets should look with the use of new technologies.

Bolstering the competitiveness of Japanese financial and capital markets

- Through the development of new indices and support for information provision and corporate value enhancement at listed companies, we will facilitate companies' capital raising by creating an environment where domestic and overseas funds flow easily into the Japanese financial and capital markets, thereby supporting proactive investment and business development among listed companies.
- We will contribute to the efficiency of asset management by providing an environment that enables efficient investment in an array of products, including digital assets, green financial products, bonds, and foreign assets.
- We will contribute to making the financial and capital market more sophisticated by enriching data services, advancing digitalization, and providing infrastructure such as refined network and IT solutions, thereby supporting the operations of investors, securities companies, asset management companies, financial institutions, and information vendors.

Proactive creation of various market services

Expansion of index lineup, enrichment of data services, advancement of digitalization

Provision of refined network and IT solutions

Expansion of listed company services

Responses to new needs, including green-related services

Hub for new partnerships

- We will aim to become a hub for new partnerships through the utilization and nurture of highly skilled personnel, as well as M&As and capital investment.

Drawing on experience gained as a market infrastructure

- We will proactively create markets and services that have connections and commonalities with exchange market operations, built on the foundations and know-how we have gained as a market infrastructure.



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