

3rd Medium-Term Management Plan

FY2019 FY2021

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Review of 2nd Medium-Term Management Plan(2016-2018) JPX

- Expect to meet the target on net income in the last fiscal year (FY2018). Met the target in advance in FY2017.
- Made great progress in transforming into an entity not heavily reliant on financial market conditions in Japan by expanding our ETF market and developing new fields such as index and information services, colocation, and clearing of OTC JGBs.

	Term for 2nd Medium-Term Management Plan				
_	FY2016	FY2017	FY2018 earnings forecast	Targets in the last fiscal year of 2nd MTMP	
Operating Revenue (JPY)	107.8 bil.	120.7 bil.	120.0 bil.	123.0 bil.	
Net Income* (JPY)	42.1 bil.	50.4 bil.	48.0 bil.	48.0 bil.	
ROE	16.4 %	19.0%	17.2%	Approx. 17 %	
*attributable to own	ners of the parent company				
	I	Main Achievem	ents		
Asset building gained momentum More ETF holders (+129,000) New ETF market making incentive scheme New global environmental indices © 2019 JAPAN EXCHANGE GROUP, I	Corporate value of companies incre • Revised corporate gover • Yearly IPOs count steady • 43 new ETFs Inc. All Rights Reserved.	• Shorte mance code y at 80s to 90s • Streng	Reinforced market structure of ned JGB settlement cycle(to T+1) ced backup capabilities in Tokyo saka thened market surveillance based registration regime	 Entered new fields of exchange business Advanced POC testing for utilization of Blockchain Incorporated AI into market surveillance Listed products related to sustainability 	



3rd Medium-Term Management Plan (2019-2021) Management Policy and Four Core Strategies



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3rd Medium-Term Management Plan (2019-2021) Management Policy

Sail to the future. Keep the market secure.

Under rapid innovation and global dynamics, we aim to evolve into a total smart exchange, where anyone can trade any product in a secure and easy way, by further cooperating with stakeholders and entering into new partnerships.

3rd Medium-Term Management Plan (2019-2021)

Four Core Strategies

 Pursue "the shape of the market" toward the next generation
 I
 Launch and develop a comprehensive exchange

 Diversify and propel data services into the next generation
 Diversify and propel
 Develop a foundation to support the future of our business and the society



Core Strategy I

Pursue "the shape of the market" toward the next generation



6

Raise global competitiveness while working on enhancing the appeal of the Japanese market in various ways, from reviewing TSE's market structure and improving corporate governance to moving to T+2 stock settlement cycle.

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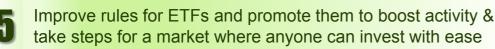
3rd Medium-Term Management Plan (2019-2021) Core Strategy I – Initiatives

Build market platforms that adapt to market needs and external changes

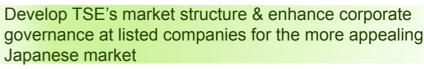
- Replace the platform for cash product trading (arrowhead) and systems for off-auction trading and index calculation
- Develop a next-generation derivative platform that enables timely launch new products
- Conceptualize a next-generation platform for cash products that meets diverse trading needs and adapts to global trends and innovation

Shorten stock settlement cycle & improve clearing services for better global competitiveness

- Shorten stock settlement cycle to T+2
- Boost activity in the ETF market via introduction of creation/redemption services
- Refine margin rules and framework for listed derivatives and increase the use of clearing services



- Boost activity in the ETF market via updates of its Market Making Incentive Scheme and investor-directed promotion
- Take steps for a market that facilitates trading for a wide-range of investors
- Boost trading of Flexible Options and such non-flagship products as TSE Mothers Index Futures



Aiming to enhance the investment appeal of the Japanese market and encourage listed companies to raise corporate value:

Review TSE's market structure

2

Further enhance substantial aspects of corporate governance at listed companies and cultivate an environment conducive to more dialogue between investors and listed companies

Create new communication channels with retail investors & enhance support for global investors

- Improve marketing to attract more flow from retail investors and develop a new system for trading participants
- Improve marketing and strengthen ties to attract more flow from global investors
- Revamp outreach to global investors to attract more investment in Japanese equity

Expand lineup of high-quality listed companies and products with high investment appeal

- Attract a greater variety of enterprises to the market (focus on: startups at universities, regional banks as part of cooperative efforts, cross-border listings, and PRO-Market)
- Create a greater variety of investible products (focus on: diversifying ETF pool and developing PRO-BOND, REIT, and infrastructure funds markets)





Core Strategy II

Launch and develop a comprehensive exchange

Evolve into a leading global derivatives market via early integration with Tokyo Commodity Exchange, generating a more vibrant market in Japan.



3rd Medium-Term Management Plan (2019-2021)PxCore Strategy II – Initiatives

Expand into and develop a commodity derivatives market

- Realize early integration with Tokyo Commodity Exchange
- Take steps to attract global/retail investors after expansion into a commodity derivatives market

Adopt measures for clearing commodity derivatives to raise reliability

Build a commodity clearing scheme, develop and maintain systems pursuant to commodity clearing
 Integrate with Japan Commodity Clearing House (JCCH)

Build surveillance & examination systems tailored to become a comprehensive exchange

- Develop market surveillance and examination systems suitable for a comprehensive exchange
- Offer support to potential trading participants, new partners, and stakeholders in establishing management systems

Realizing our medium- to long-term vision

Drive initiatives in such areas as relationship building and R&D to evolve into an exchange where anyone can trade any product



Core Strategy III Diversify and propel data services into the next generation



Explore our new business models as an exchange by creating highly convenient data services emerging from an open and innovative framework.



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3rd Medium-Term Management Plan (2019-2021)PXCore Strategy III – Initiatives

Create new information services by utilizing innovation and partnerships

- Create new services by setting up an open and innovative framework that enables startups to capitalize on data/information
- Research investor needs and tailor data/information services to meet the needs

Build a next-generation system for disseminating information that employs API* & cloud

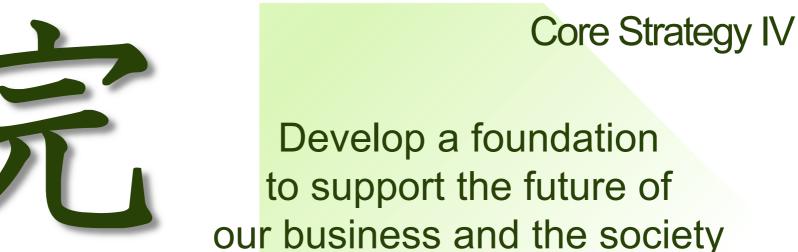
- Build a next-generation system for disseminating information that incorporates the use of API and cloud computing
- Tap into new user segments with diverse services generated from next-generation systems * API = Application Programming Interface.

Develop indices & enhance operations in response to needs & external changes

- Strengthen ties and partnerships and leverage TSE brand in developing indices
- Develop indices that reflect review of TSE's market structure and new investment needs
- Raise robustness and efficiency of operation of an index calculation system by improving IT infrastructure for calculating indices and for managing basic data

Realizing our medium- to long-term vision

Drive initiatives in such areas as relationship building and R&D to evolve into an exchange where anyone can trade in a secure and easy way



Keep our market robust as a secure and reliable infrastructure through means such as developing and managing secure IT systems and enforcing appropriate self-regulations.

Contribute to a sustainable society by raising financial literacy in an aged society, advocating for



ESG investment.



3rd Medium-Term Management Plan (2019-2021) Core Strategy IV – Initiatives

Develop and manage IT systems that are secure and reliable for users

* Details in "IT Master Plan"

Set up a backup center to improve reliability of the market in Japan

- Launch a backup center and develop backup systems smoothly
- Improve stability of market operations with higher quality BCP

Exercise optimal self-regulation that adapts to external changes

- Conduct listing examinations and monitor listed company compliance in ways that reflect external changes (such as review TSE's market structure new business models, approach to corporate governance)
- Promote measures to enhance self-awareness at listed companies
- Develop a new surveillance system employing advanced methods
- Support trading participants in improving their compliance
- Inspect trading participants optimally to reflect external changes

Promulgate ESG investment and promote sustainability to contribute to SDGs (Social Development Goals*)

- Instill TCFD**guidance and ESG investment, as well as deliver ESG training programs directed at listed companies and investors
- Offer support in developing and promulgating ESG-related products (indices, ETFs, Green/Social bonds, infrastructure funds)

* A collection of 17 global goals set by the UNGA for the year of 2030

** Task Force on Climate-related Financial Disclosures set by Financial Stability Board



H.

Bolster system bases & develop highly-skilled personnel to turn IT into our source of competitiveness

- Promote the use of fintech in business
- Adopt the most advanced technologies
- Increase efficiency/sophistication of operations by replacing information systems and incorporating the latest technologies
- Educate/train human resources on digitalization, etc.

Support asset building for aged population & raise financial literacy among less-experienced investors

- Advance programs to increase retail investors (especially those with minimal interest in investment or no investment experience)
- Drive efforts pursuant to educate on economics/finance and raise financial literacy in the age of the 100-year lifespan
- Promote education on investment in derivatives for asset-building

Strengthen business foundations

- Develop human resources and advance work style reforms
- Research global regulations, regimes, and competitiveness and take strategic steps
- Improve R&D, etc.

- Strengthen corporate communications, PR, and IR
- Promote cooperation with foreign exchanges and support YSX
- Make operations efficient and sophisticated

JPX	3rd Medium-Term Management Plan (2019-2021) Primary Targets on Core Strategies				
I	Pursue "the shape of the market" toward the next generation	 Complete trading platforms for cash products in FY2019 and derivative products in FY2021 Meet system requirements for trading platforms Shorten stock settlement cycle to T+2 in FY2019 Aim for IPO count of approx.100/year 			
Π	Launch and develop a comprehensive exchange	 Achieve early integration with TOCOM Achieve integration of clearing houses Raise trading volume by synergy 			
Ш	Diversify and propel data services into the next generation	 Diversify channels incorporating API, etc. in FY2020 Create 10 new services and attract 150 new clients 			
IV	Develop a foundation to support the future of our business and the society	 Launch Kansai backup center in phases starting in FY2021 Build industry-shared Blockchain/DLT* infrastructure in FY2021 Contribute to 10% annual increase in the number of users of Tsumitate NISA & iDeCo via initiatives to raise financial literacy * Distributed Ledger Technology 			

3rd Medium-Term Management Plan (2019-2021) Initiatives in Global Strategy

Aim to continue being a leading market in the world as a pivotal trading venue in the APAC region where global wealth is accumulated via vital capital circulation

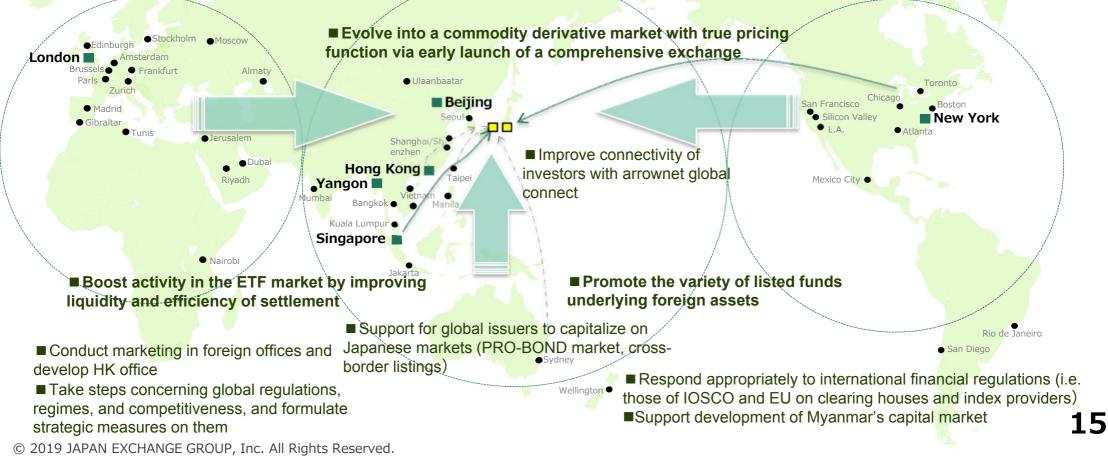
■ Take measures to yield flow and investment in Japanese equity from global investors getting influence in the world

■ Improve reputation of listed companies among investors through better corporate governance and enhancement of dialogue between investors and listed companies

 Promote global cooperation with foreign exchanges (primarily in Asia such as Japan-China ETF connectivity)

Conceptualize a next-generation platform for cash products that adapts to global trends and innovation

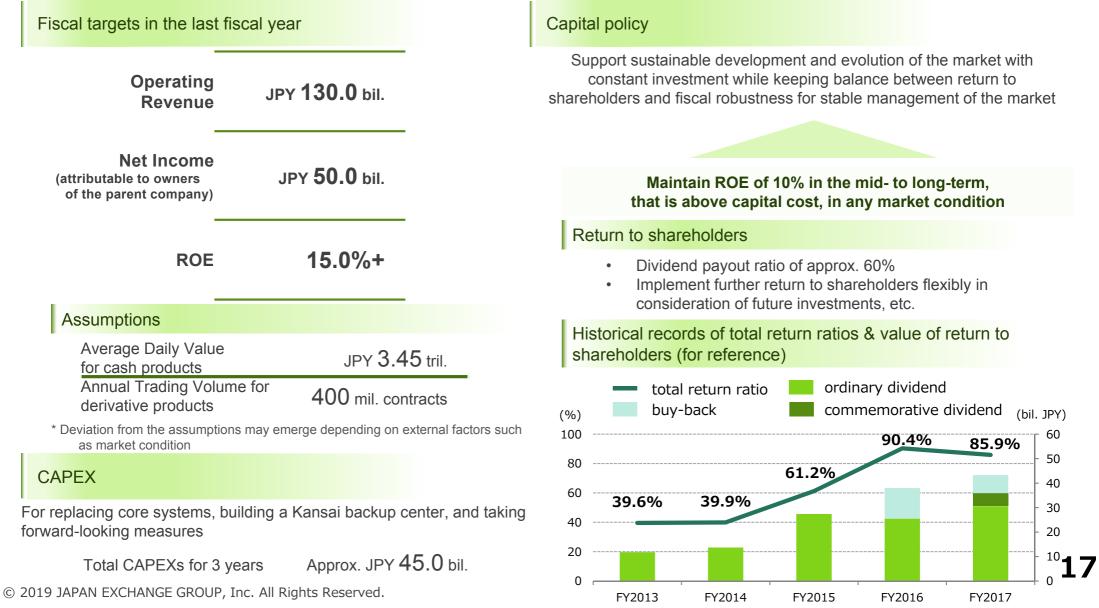
Raise competitiveness by shortening stock settlement cycle (to T+2)



3rd Medium-Term Management Plan (2019-2021) Financial Policies

3rd Medium-Term Management Plan (2019-2021) Financial Targets and Capital Policy

- Implement forward-looking measures while investing in IT and BCP to fulfil our responsibility to the market.
- By implementing our core strategies, aim to increase bases for revenue generation such as trading volumes in the mid- to long-term.









IT Master Plan

FY2019 FY2021

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The IT Master Plan is, as an accompaniment to the Medium-Term Management Plan, formulated to clearly communicate JPX's direction and strategy on IT internally and externally and drive business by aligning management and IT policies for achieving business targets set in the Medium-Term Management Plan.

Basic Concept of IT Master Plan

We design the vision for JPX's IT divisions looking ahead 10 years into the future. Based on such mid- to long-term vision, we formulate and advance measures that contribute to achieving the targets in the 3rd Medium-Term Management Plan.

JPX IT Divisions' 10-Year Vision

1.

IT as source of competitiveness and key to maintaining industrial edge

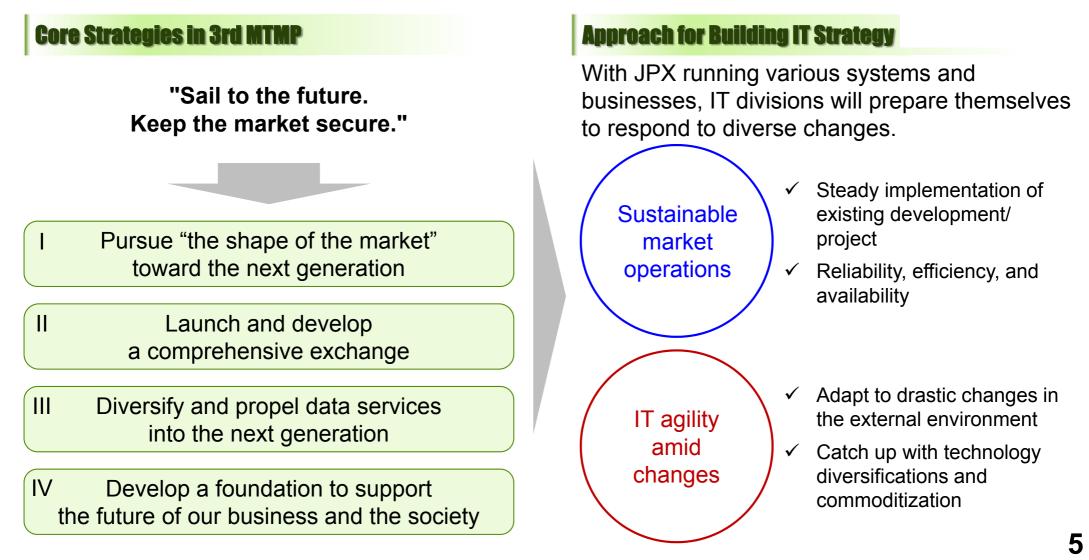
2.

Maximal use of rapidly evolving technology The exchange is a systems infrastructure, and IT lies at the foundation for driving our business forward and creating new business. Thus, JPX identifies IT as its source of competitiveness and the key to maintaining its edge in the industry. We incorporate the latest in IT to provide highly reliable and convenient market infrastructure and services.

Aiming for stable market operations and apt response to changes in the market environment, **business administration and IT** collaborate closely in market operations. As a market infrastructure provider, JPX makes maximal use of evolving technology at an accelerated pace and supports market operations via the use of technology.

Approach for Building IT Strategy

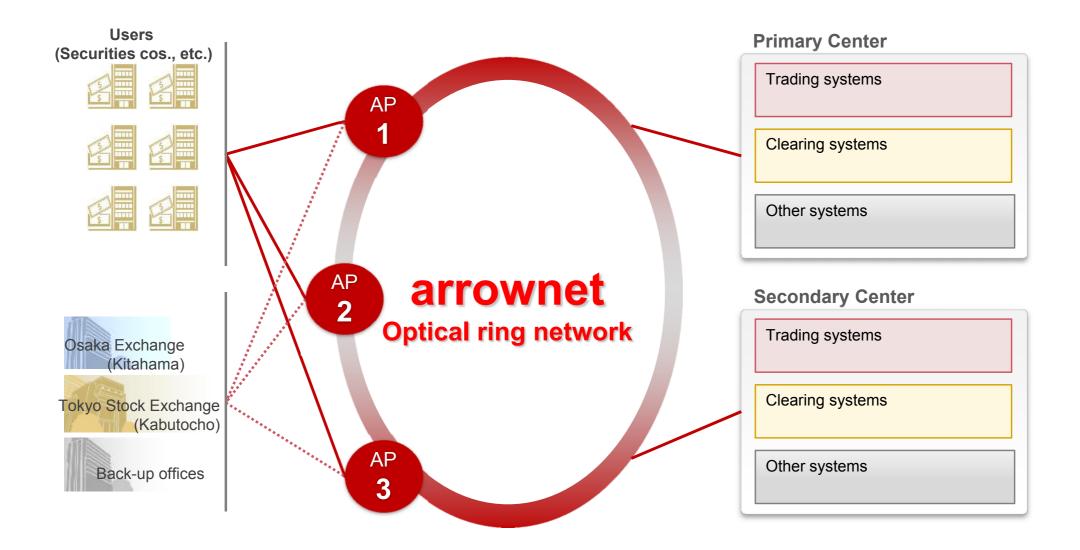
IT divisions need to stably operate markets while responding to changes based on the basic policy of 3rd Medium-Term Management Plan.



Specific Measures

Med-term Management Plan	Sustainable market operations		IT agility amid changes		
I. Pursue "the shape of the market" toward the next generation	I(1) Improve reliability and convenience via system upgrades		I(2) Raise the topline by building new platforms		
II. Launch and develop a comprehensive exchange	II(1) Realize flexible launch of new products and functions				
III. Diversify and propel data services into the next generation			III(1) Use accumulated information resources	III(2) Diversify channels that enable flexible information distribution	
IV. Develop a foundation to support the future of our business and the society	IV(1) Improve BCP measures by building new secondary center IV(3) Optimize operations via cloud and automation	 IV(2) Enhance stability by using new technology IV(4) Strengthen measures against more complex cyber-attacks 	IV(5) Proactively adopt advanced technology	IV(6) Train/develop human resources to use technology	

Overview of JPX Systems (As of April 2019)



IT Systems Plan

		FY2018	FY2019	FY2020	FY2021	FY2022-
Systems	arrowhead (Cash Equities)	Sep. 2015 Upgrade	Nov. 2019 Replacement Expand risk management i			*
	J-GATE (Futures/Options)	Jul. 2016 Upgrade	Improve trading schem	e, etc.	FY2021 (Scheduled) Replacement (Including work for new secondary center)	
Trading	ToSTNeT (Off-Auction)	Mar. 2017 Upgrade	Nov. 2019 Replacement Hardware Replaceme	ent		*
F	ISC (Index & Statistics Calculation)	Sep. 2015 Upgrade	Nov. 2019 Replacement			*
Clearing Systems	Cash Equities Clearing System	Feb. 2018 Partial Replacement	Jul. 2019 Replacement Upgrade/ Shorten			*
	Derivatives Clearing System	Feb. 2018 Launch	Settlement Cycle			*
	JGB Clearing System	May 2018 New Function Shorten Settlement Cycle 				*
C	OTC Clearing System	Feb. 2018 Upgrade				*

* Details of the system architecture at the new secondary center will be subject to future discussions to match the replacement schedule of the relevant systems. © 2019 JAPAN EXCHANGE GROUP, Inc. All Rights Reserved.



