



November 2017

PITCH BOOK

LIQUIDITY • LOWER COSTS • TIGHT SPREADS • LARGE PARTICIPANT BASE

Evolution of the Exchange



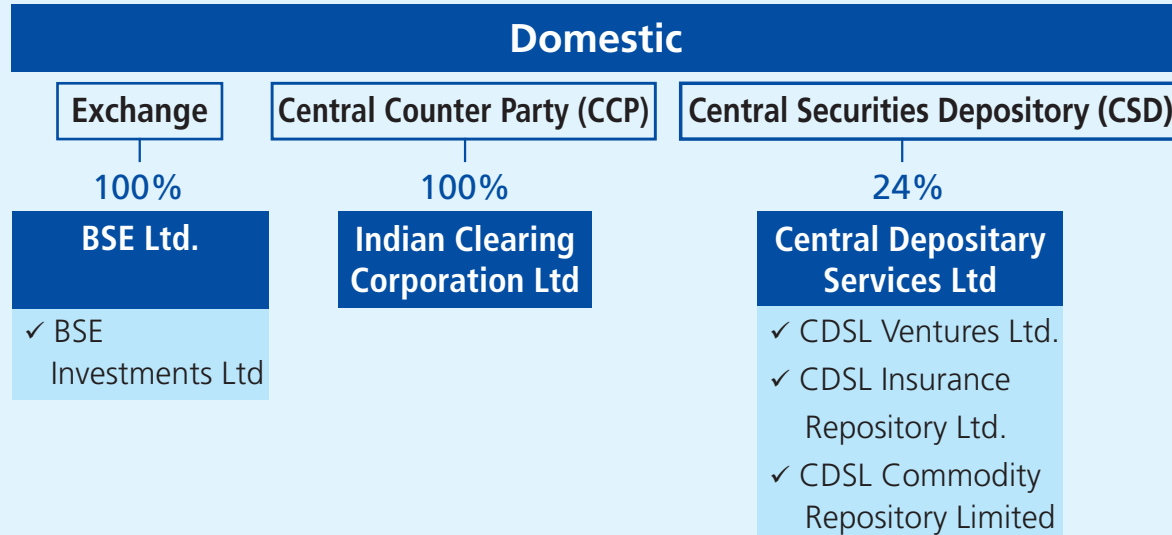
Key Milestones

Date	Milestones
26th Oct, 2017	India's Premier Stock Exchange BSE and World's largest Insurance Exchange Ebix, Inc. Sign MOU to Launch Joint Venture Company, for Setting up Pioneering Insurance Distribution Network in India
10th Oct, 2017	Marketplace Tech Infra Services 100% subsidiary of BSE signs an MOU with Thomson Reuters to deploy BEST (BSE Electronic Smart Trader), a robust, state-of-the-art hosted trading solution built on Thomson Reuters Omnesys NEST platform, for BSE members and customers.
22nd Aug, 2017	Asia Index Private Limited launches the S&P BSE Bharat 22 Index
3rd Feb, 2017	BSE becomes India's 1st listed Stock Exchange
16th Jan, 2017	Commencement of Trading at India INX
9th Jan, 2017	Hon'ble Prime Minister of India, Shri Narendra Modi inaugurated India International Exchange (IFSC) Ltd, India's 1st International Exchange
9th July, 2016	Shri Arun Jaitley, Hon'ble Minister of Finance Unveiled the Commemorative Postage Stamp Celebrating 140 glorious years of BSE
2nd Jan, 1986	S&P BSE SENSEX, country's first equity Index launched (Base Year: 1978-79 =100)
31st Aug, 1957	BSE granted permanent recognition under Securities Contracts (Regulation) Act (SCRA)
9th July, 1875	The Native Share & Stock Broker's Association formed

BSE Group

BSE*

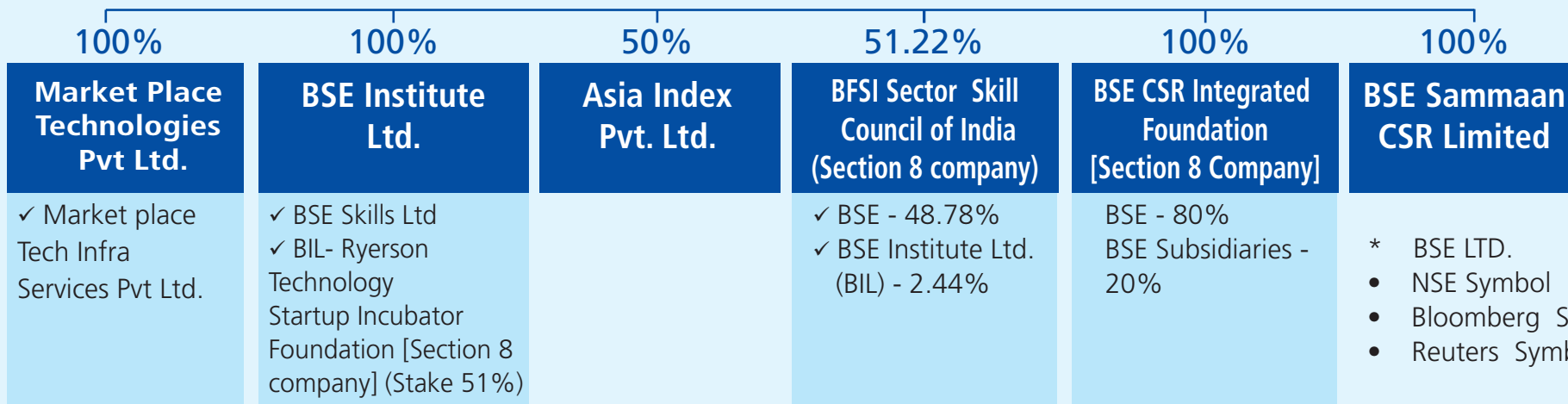
Domestic



IFSC-GIFT CITY



SERVICES



- * BSE LTD.
- NSE Symbol : BSE
 - Bloomberg Symbol : BSE IN
 - Reuters Symbol : BSEL.NS

BSE Shareholding Pattern

As on 30th September 2017

Category	%
Trading Members and Associates of trading members	36.79%
Promoter & Promoter Group	0
Public	63.21%
Non Promoter- Non Public	0
Shares underlying DRs	0
Shares held by Employee Trusts	0
TOTAL	100%


BSE & Its Partners




- Board Presence
- Eurex T7 trading architecture
- 4.75% investment in BSE to expand Asia presence and increase footprint in multiple time zones



- Sensex Licensing to Korea Exchange





- Listing of Sensex



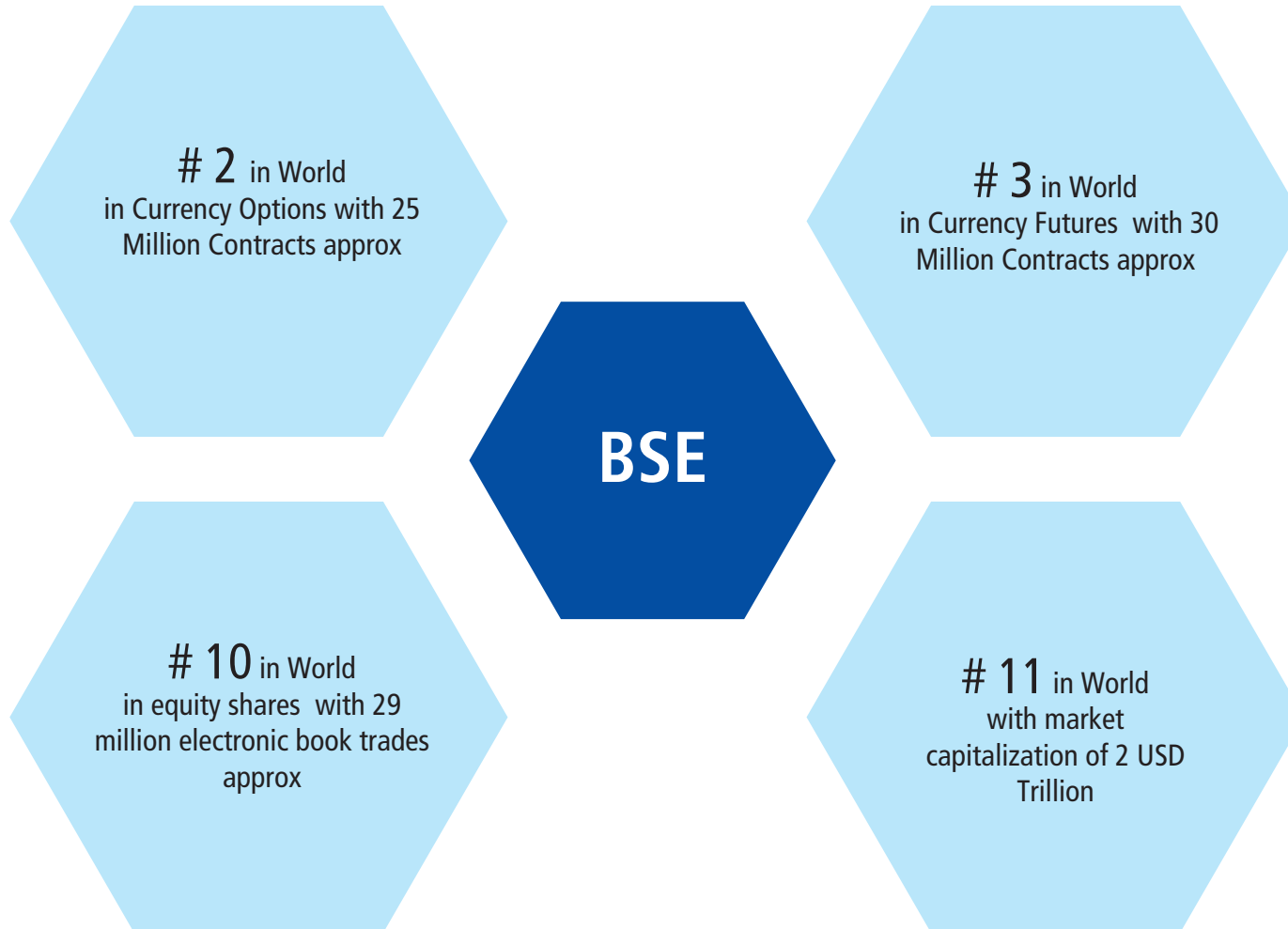
- Calculation & maintenance of all BSE Indices
- Index Product sales abroad
- Partnership on Index products

- 4.75% investment in BSE by State Bank of India as key user and supporter of platform
- 4.98% Investment in BSE by Smallcap World Fund, Inc.



- 4.68% investment in BSE as key user and supporter of platform
- Board Presence

Global Ranking



Source: World Federation of Exchanges


Data as of September 2017

Key Highlights





- 1** Strong Distribution Network
- 2** Diversified Business Model
- 3** Alliance with Global Exchanges
- 4** State –of-the -Art Infrastructure and Technology
- 5** Active Relationship with Market Participants
- 6** Financial Strength




Board of Directors

	NAME / TITLE	DESCRIPTION
	<p>Shri Ashishkumar Chauhan Managing Director & CEO</p>	<ul style="list-style-type: none"> ■ Shri Ashishkumar Chauhan is the MD & CEO of BSE (Bombay Stock Exchange), the first stock exchange of Asia. He is one of the founders of India's National Stock Exchange ("NSE") where he worked from 1992 to 2000. He is best known as the father of modern financial derivatives in India due to his work at NSE. He was instrumental in setting up India's first fully automated screen based trading system and first commercial satellite communications network. He also created several path breaking frameworks including Nifty index, NSE certifications in financial markets etc. ■ From 2000 to 2009, he worked as the President and Chief Information Officer of Reliance group and was also the CEO of the cricket team Mumbai Indians in its formative years. He also handled additional responsibilities as the Head, Corporate Communications for Reliance Group from 2005 – 2006. ■ He joined BSE as Deputy CEO in 2009 and was appointed as CEO in 2012. He is credited with reviving BSE including making it the fastest Exchange in the World with less than 6 microseconds response time, introduction of Mobile Trading first time in India, state of the art online real time surveillance system, introduction of several market leading products like SME, Currencies, Mutual Funds, Corporate Bonds distribution, Offer for Sale, Offer to buy etc. He was also instrumental in setting up India's First International Exchange "India International Exchange", which was inaugurated by the Hon'ble Prime Minister of India Shri Narendra Modi in January 2017 at Gandhinagar, Gift City. He has successfully completed the IPO of BSE which was pending for over 10 years. BSE IPO was oversubscribed 51 times with close to 12 lakh applications in January 2017. ■ Ashish has won several International and Indian awards including: Distinguished Fellow, Institute of Directors 2017, New Delhi Distinguished Alumnus Award 2016 - IIM Calcutta CEO of the Year, Diamond Sabre Awards 2015, Hong Kong Indian Business Leader of the Year, Horasis Interlaken/Switzerland 2015 RH Patil Award for Excellence in Financial Services, June 2015 Distinguished Alumnus Award, Indian Institute of Technology, Bombay, 2014 Best CEO in the Financial Markets in the Asia Pacific by the Asian Banker, 2014 Zee Business Awards- Special contribution in Commodities and Capital Market, 2013 TOP 50 CIOs, Information Week, US, 2009 ■ He holds a B Tech in Mechanical Engineering from IIT Bombay and a PGDM from IIM Kolkata. He is a Distinguished Visiting professor at Ryerson University, Toronto, Canada. Due to his work in various fields spanning a quarter of a century, he is considered one of the foremost experts in the fields of Information Technology, Finance, Markets, Micro structure of markets, cricket, telecommunications, organized retail, Oil & Gas refining and Indian social issues. ■ He is the Chairperson on the Board of Governors (BoGs) of the National Institute of Technology (NIT) Manipur, member of the Board of Governors at IIM Raipur and an Independent Director of the ICSI Insolvency Professionals Agency, a 100% subsidiary company of The Institute of Company Secretaries of India. He is the Chairman of South Asian Federation of Exchanges (SAFE), a forum of 28 member entities from the SAARC region and neighbouring countries which aims to provide platform to share, exchange and promote the technologies, experiences for the rapid growth and development of capital markets and regional as well as global integration. He is a member of the Advisory Committee of Ministry of Micro Small and Medium Enterprises (MSME). He is an Advisor to the Technical Evaluation Committee set up by the Department of Posts for Postal Bank and also a part of several other committees of World Federation of Exchanges ("WFE"), Government of India ("GOI"), Reserve Bank of India ("RBI"), Securities and Exchange Board of India ("SEBI"), Central Board of Direct Taxes (CBDT), Confederation of Indian Industry ("CII"), Federation of Indian Chambers of Commerce and Industry ("FICCI"), Indian Merchants Chamber ("IMC"), India UK council ("UKIBC") etc. He is also a Member of the Advisory Committee of the proposed Mumbai University School of Economics and Public Policy. He is also associated with several NGOs and education institutions. His quotes and writings have been published in various newspapers, magazines and journals in India and abroad.



Board of Directors

	NAME / TITLE	DESCRIPTION
	<p>Dr. Krishnaswamy Kasturirangan Former Chairman, ISRO Public Interest Director</p>	<ul style="list-style-type: none"> Dr. Krishnaswamy Kasturirangan is currently the Chancellor of Jawaharlal Nehru University, an Honorary Distinguished Advisor, Indian Space Research Organisation (ISRO), an Emeritus Professor at the National Institute of Advanced Studies and holds the Satish Dhawan Chair for Engineering Eminence instituted by Indian National Academy of Engineering. Earlier, as Chairman of ISRO, he oversaw the space programme in India between the years 1994 and 2003. He was also a Member, Upper House of the Indian Parliament, and subsequently, Member of the erstwhile Planning Commission. His interests include astrophysics, space science and technology as well as science related policies.
	<p>Shri Sethurathnam Ravi FCA, Practising Chartered Accountant Public Interest Director</p>	<ul style="list-style-type: none"> Shri S. Ravi is the Managing Partner of Ravi Rajan & Co., Chartered Accountants. He is an Independent Director on the boards of SMERA Ratings Limited, IDBI Bank Limited, Tourism Finance Corporation of India, BOI Merchant Bankers Limited and Aditya Birla Health Insurance Company Limited, to name a few. He is a member of the Takeover Panel and Mutual Funds Advisory Committee of SEBI.
	<p>Shri Sumit Bose IAS (Retd.) Former Union Finance Secretary Public Interest Director</p>	<ul style="list-style-type: none"> Shri Sumit Bose is Director on the Board of Coromandal International Limited, Tata AIG General Insurance Company Ltd., UTI Asset Management Company Ltd., HDFC Standard Life Insurance Co. Limited. and Oil and Natural Gas Corporation Ltd. Vice Chairman, National Institute of Public Finance and Policy, New Delhi, Chairman, Board of Directors of Vidhi Centre for Legal Policy, New Delhi, an independent legal think tank, a Member, Board of Governors of The Doon School, Dehradun, a Member, Governing Body, Parivaar Education Society, Kolkata, Director Jal Seva Charitable Foundation


Board of Directors

	NAME / TITLE	DESCRIPTION
	<p>Justice Vikramajit Sen Former Supreme Court Judge and Chief Justice, High Court of Karnataka Public Interest Director</p>	<ul style="list-style-type: none"> Justice Vikramajit Sen retired from the Supreme Court of India on 31st December 2015. Prior thereto practised mainly commercial law in the Courts in Delhi. Presently on the Board of several Corporations. In addition, conducting Arbitrations and giving legal opinion on complicated questions of law. He was appointed as acting Chief Justice and Chief Justice of the High Court of Karnataka. Studied in St. Xavier's School in Delhi, followed by a BA (Honours) degree after attending St. Stephen's College, Delhi University. Received Law Degree from the Faculty of Law, Delhi University in 1974. He is a Director on the Board of DCM Shriram Limited
	<p>Smt. Usha Sangwan MD, Life Insurance Corporation of India Shareholder Director</p>	<ul style="list-style-type: none"> Smt. Usha Sangwan, is the first ever woman Managing Director of Life Insurance Corporation of India since its inception. She is the whole time Director of LIC of India, Board Member of General Insurance Corporation of India, LIC Housing Finance Ltd., Axis Bank and Ambuja Cements Ltd. Director on the board of LIC Cards Services Ltd., Associate Director LIC Mutual Fund Trustee Private Ltd. Member of Governing Council of National Insurance Academy, a Trustee of LIC Golden Jubilee Foundation, Chairman of Trust - LIC of India (Regular Part-time employees) Pension Fund and a Member of Policyholder Protection Committee, Executive Committee, Risk Management Committee and Investment Committee of LIC of India.
	<p>Dr. Sriprakash Kothari Gordon Y Billard Professor of Accounting and Finance Massachusetts Institute of Technology, Sloan School of Management Shareholder Director</p>	<ul style="list-style-type: none"> Dr. Sriprakash Kothari is Gordon Y Billard Professor of Accounting and Finance at the Sloan School of Management, Massachusetts Institute of Technology. With close to two decades at this premier institute, Dr. Kothari recently completed a six-year stint as Deputy Dean at the Sloan School of Management. He is also faculty director of the MIT-India Program http://web.mit.edu/misti/mit-india/ and an editor of the world-renowned academic publication Journal of Accounting & Economics. Recently, in the year 2014 Dr. Kothari was a recipient of the American Accounting Association's (AAA) Notable Contributions to the Accounting Literature award. His other awards include honorary doctorates, Doctor Honoris Causa, from the University of Technology, Sydney in May 2013 and University of Cyprus in 2016 and a Distinguished Alumnus Award from Birla Institute of Technology and Science, Pilani, in 2013. Dr. Sriprakash Kothari holds a bachelor of engineering degree from the Birla Institute of Technology and Science, Pilani, and has also earned his MBA (PGDM) from one of India's finest institutes, the Indian Institute of Management, Ahmedabad. Dr. Kothari completed his PhD from University of Iowa, United States. His highly-cited research focuses on the US and international financial reporting practices, the pricing of financial information, investment analysis and valuation.



Board of Directors

	NAME / TITLE	DESCRIPTION
	<p>Shri Roland Schwinn Head of Eurex Asia Deutsche Boerse Group Shareholder Director</p>	<ul style="list-style-type: none"> ▪ Shri Roland Schwinn is the Head of Eurex Asia, the derivatives market of the Deutsche Boerse Group for Asia, Pacific and the Middle East. He joined Eurex in 2007 as Head of Business Research until he took over the business development role for the Asia Pacific region in July 2007. ▪ He is also the founding director of Deutsche Boerse Asia Holding and Eurex Clearing Asia and since July 2015 he acts as the Chief Executive Officer of Eurex Clearing Asia in Singapore. From 1994 to 2006 he worked as an Independent Business Consultant for Eurex and the Deutsche Boerse Group in several international projects and in the areas of Marketing & Sales and Institutional Investor Business Development, specializing in Hedge Funds. ▪ He started his career at the DTB - Deutsche Terminboerse - (the predecessor of Eurex) in 1990 as a Product Development Manager and worked in several positions at DTB, including Strategic Marketing Manager and Client Services Manager until 1994. ▪ Shri Roland Schwinn studied at the University of Applied Sciences, Trier Germany and the University of Leicester, UK. He is holding a master degree in Business Administration and a Postgraduate Diploma in European Business Studies. Since November 2016, Roland is also a Fellow of Singapore Institute of Management University (UniSIM). Prior to that he was a Research Fellow of Singapore Management University (SMU).
	<p>Smt. Rajeshree Sabnavis Fellow Member of ICAI, Company Secretary Shareholder Director</p>	<ul style="list-style-type: none"> ▪ Smt. Rajeshree Sabnavis is part of the Direct Taxation Committee with the Bombay Chamber of Commerce where she is a Co-Chairperson. She is also a member of the EU Chamber of Commerce and a director on the Board of BOB Capital Markets Ltd.

Management Team

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	<p>Shri Ashishkumar Chauhan Managing Director & Chief Executive Officer</p>	<ul style="list-style-type: none"> ■ Shri Ashishkumar Chauhan is the MD & CEO of BSE (Bombay Stock Exchange), the first stock exchange of Asia. He is one of the founders of India's National Stock Exchange ("NSE") where he worked from 1992 to 2000. He is best known as the father of modern financial derivatives in India due to his work at NSE. He was instrumental in setting up India's first fully automated screen based trading system and first commercial satellite communications network. He also created several path breaking frameworks including Nifty index, NSE certifications in financial markets etc. ■ From 2000 to 2009, he worked as the President and Chief Information Officer of Reliance group and was also the CEO of the cricket team Mumbai Indians in its formative years. He also handled additional responsibilities as the Head, Corporate Communications for Reliance Group from 2005 – 2006. ■ He joined BSE as Deputy CEO in 2009 and was appointed as CEO in 2012. He is credited with reviving BSE including making it the fastest Exchange in the World with less than 6 microseconds response time, introduction of Mobile Trading first time in India, state of the art online real time surveillance system, introduction of several market leading products like SME, Currencies, Mutual Funds, Corporate Bonds distribution, Offer for Sale, Offer to buy etc. He was also instrumental in setting up India's First International Exchange "India International Exchange", which was inaugurated by the Hon'ble Prime Minister of India Shri Narendra Modi in January 2017 at Gandhinagar, Gift City. He has successfully completed the IPO of BSE which was pending for over 10 years. BSE IPO was oversubscribed 51 times with close to 12 lakh applications in January 2017. ■ Ashish has won several International and Indian awards including: Distinguished Fellow, Institute of Directors 2017, New Delhi Distinguished Alumnus Award 2016 - IIM Calcutta CEO of the Year, Diamond Sabre Awards 2015, Hong Kong Indian Business Leader of the Year, Horasis Interlaken/Switzerland 2015 RH Patil Award for Excellence in Financial Services, June 2015 Distinguished Alumnus Award, Indian Institute of Technology, Bombay, 2014 Best CEO in the Financial Markets in the Asia Pacific by the Asian Banker, 2014 Zee Business Awards- Special contribution in Commodities and Capital Market, 2013 TOP 50 CIOs, Information Week, US, 2009 ■ He holds a B Tech in Mechanical Engineering from IIT Bombay and a PGDM from IIM Kolkata. He is a Distinguished Visiting professor at Ryerson University, Toronto, Canada. ■ Due to his work in various fields spanning a quarter of a century, he is considered one of the foremost experts in the fields of Information Technology, Finance, Markets, Micro structure of markets, cricket, telecommunications, organized retail, Oil & Gas refining and Indian social issues. ■ He is the Chairperson on the Board of Governors (BoGs) of the National Institute of Technology (NIT) Manipur, member of the Board of Governors at IIM Raipur and an Independent Director of the ICSI Insolvency Professionals Agency, a 100% subsidiary company of The Institute of Company Secretaries of India. He is the Chairman of South Asian Federation of Exchanges (SAFE), a forum of 28 member entities from the SAARC region and neighbouring countries which aims to provide platform to share, exchange and promote the technologies, experiences for the rapid growth and development of capital markets and regional as well as global integration. He is a member of the Advisory Committee of Ministry of Micro Small and Medium Enterprises (MSME). He is an Advisor to the Technical Evaluation Committee set up by the Department of Posts for Postal Bank and also a part of several other committees of World Federation of Exchanges ("WFE"), Government of India ("GOI"), Reserve Bank of India ("RBI"), Securities and Exchange Board of India ("SEBI"), Central Board of Direct Taxes (CBDT), Confederation of Indian Industry ("CII"), Federation of Indian Chambers of Commerce and Industry ("FICCI"), Indian Merchants Chamber ("IMC"), India UK council ("UKIBC") etc. He is also a Member of the Advisory Committee of the proposed Mumbai University School of Economics and Public Policy. He is also associated with several NGOs and education institutions. His quotes and writings have been published in various newspapers, magazines and journals in India and abroad.

Management Team

	NAME / TITLE	DESCRIPTION
	<p>Shri V Balasubramaniam Managing Director & Chief Executive Officer .(INX)</p>	<ul style="list-style-type: none"> ■ Shri V Bala is the founding Managing Director and Chief Executive Officer of India International Exchange IFSC Ltd. (India INX) the first International Exchange from India in GIFT City International Financial Services Centre Special Economic Zone which started its operations from JAN, 2017 and a wholly owned subsidiary of BSE (Asia's first stock exchange). He also holds board position in the following organisations – <ol style="list-style-type: none"> 1) Central Depository Services (India) Limited – Depository 2) BSE Institute Limited – Education business, ■ 3) BSE Sammaan – CSR Exchange and ■ 4) India International Clearing Corporation IFSC Limited. ■ Prior to this, he was the Chief Business Officer of BSE heading the business development encompassing all business segments viz. Equities, Equity Derivatives, Debt, Interest Rate Futures, Currency Derivatives, Mutual Fund Distribution platform and SME platform. In addition to the markets business, he was also responsible for the listings and data business of BSE and managing the entire trading operations and membership operations. ■ He has over 25 years of experience in the Capital Markets industry and has previously worked with Reliance Group as Vice President and was also as co-founder of Marketplace Technologies Limited which was acquired by BSE. ■ He was also part of the core team involved in setting up the National Stock Exchange of India. He was instrumental in creating the Capital Market segment, Nifty Index creation, setup of NSCCL as the first clearing corporation in India, NCFM certification creation and the Futures and Options segment inter-alia. ■ He has Masters in Commerce from the University of Mumbai, Rank holder from the Institute of Cost Accountants of India, Diploma from Institute of Chartered Financial Analysts of India and is a Certified Information Systems Auditor.
	<p>Shri Nehal Vora Chief Regulatory Officer</p>	<ul style="list-style-type: none"> ■ Shri Nehal Vora heads the regulatory functions of the exchange including membership compliance, surveillance, inspection, investigation, regulatory communication, investor services, listing compliance, regulatory legal and corporate secretarial. He is a Board member of Indian Clearing Corporation Limited (ICCL) and of Central Depository Services Limited (CDSL). His other Board Memberships include that of National Power Exchange Limited, BSE Investments Limited, BSE Sammaan – CSR Exchange ■ He has more than 19 years of experience in the area of legal and compliance. He has previously worked at the Securities and Exchange Board of India (SEBI) for 10 years and as Director, Law & Compliance at DSP Merrill Lynch Ltd heading Broking and Investment Banking Compliance ■ Nehal has completed his Bachelors of Commerce from Mumbai University and Master of Management Studies from Narsee Monjee Institute of Management Studies, University of Mumbai
	<p>Shri Nayan Mehta Chief Financial Officer</p>	<ul style="list-style-type: none"> ■ Shri Nayan Mehta currently heads all finance, accounting, treasury and taxation functions of the Exchange. He represents BSE as the Senior Vice Chairman on the Executive Board of the South Asian Federation of Exchanges. He represents BSE on the Boards of group companies and joint ventures of BSE and as a member of the Qualified Audit Review Committee of SEBI. ■ He has previously worked at Credit Analysis & Research Ltd. as Joint General Manager (Accounts), CFO at Multi Commodity Exchange of India Limited and has also worked at the National Stock Exchange. ■ He holds a Bachelors in Commerce degree from University of Mumbai. He is a qualified Chartered Accountant as well as a qualified Cost and Management Accountant.

Management Team (Contd...)

	NAME / TITLE	DESCRIPTION
	<p>Shri Kersi Tavadia Chief Information Officer</p>	<ul style="list-style-type: none"> ▪ Shri Kersi Tavadia has over 30 years of experience in the area of Application Systems/ IT Infrastructure development and management, managing all aspects of IT operations in Financial Services, Capital markets and manufacturing companies. He has played a leading role in transforming BSE into the fastest exchange in the country ▪ He is instrumental in promoting, adaption of Open Source technologies and has successfully deployed one of the largest Data Warehouse on Open source platform. ▪ He has provided technical leadership & architectural vision in implementation of Mission Critical Applications across the organization including IT Infrastructure, Web portals, web based and non-web based customized solutions. ▪ He is amongst the Pioneers to implement single-window Multi-Exchange online trading systems to facilitate trading across multiple asset classes.
	<p>Shri Neeraj Kulshrestha Chief of Business Operations</p>	<ul style="list-style-type: none"> ▪ Shri Neeraj Kulshrestha is responsible for Business Development for Equities, Equity Derivatives, Debt, Interest Rate Futures, Currency Derivatives, Mutual Fund Distribution platform and SME platform. He is also responsible for Trading Operations and Development, Listing Sales and Operations and Membership Operations ▪ He has about 27 year experience in Capital markets, which includes Securities Markets and General Insurance. ▪ Prior to BSE he was an Executive Director in Morgan Stanley India for 10 years. He was earlier with National Stock Exchange and has managed various functions like Trading Operations, Inspection and Investigation, Futures and Options Clearing and Trading. He was also the CEO of India Index Services Ltd. and Dotex International Ltd.. ▪ He has completed his Bachelors in Computer Science from Delhi University and a MBA (Finance) from Indore University.

Lines of Business

Listing Business		Market Business				Data Business
Primary Market	Secondary Market	BSE Star Mutual Funds platform	New Debt Segment	Membership	Post Trade	Information Products
<ul style="list-style-type: none"> ▪ IPO ➢ EQUITY ➢ SME ➢ BOND ▪ FPO ▪ BSE Hi-Tech ▪ Sovereign Gold Bonds ▪ Mutual Fund-NFO 	<ul style="list-style-type: none"> ▪ Equity Cash ➢ Small & Medium Enterprises ➢ Offer to Buy ➢ Offer for Sale ➢ Close Ended Mutual Funds ➢ Corporate Bonds ➢ Government Securities and Sovereign Gold Bonds ▪ Equity Derivatives ▪ Currency Derivatives ▪ Interest Rate Futures ▪ Securities lending & borrowing (through ICCL) ▪ ETF 	<ul style="list-style-type: none"> ▪ Order placement platform 	<ul style="list-style-type: none"> ▪ OTC Corporate Bond Reporting CP/CD ▪ Trade Repository 	<ul style="list-style-type: none"> ▪ Trading Members ▪ Clearing Members ▪ Self-clearing Members 	<ul style="list-style-type: none"> ▪ Clearing and Settlement Services through ICCL ▪ Depository Services through CDSL 	<ul style="list-style-type: none"> ▪ Market Data ▪ Corporate Data ▪ Corporate Action through SWIFT ▪ End of Day Products ▪ Historical Data ▪ Macro economic Indices

Supporting Business

Technology	Index Products	Training	Corporate Social Responsibility
<ul style="list-style-type: none"> ▪ IT services & solutions 	<ul style="list-style-type: none"> ▪ S&P BSE SENSEX ▪ Sectoral Indices ▪ Sustainability Indices ▪ Thematic Indices ▪ Fixed Income Indices 	<ul style="list-style-type: none"> ▪ Training ▪ Certification ▪ Skill Development ▪ Technology Incubator & Accelerator Program 	<ul style="list-style-type: none"> ▪ BSE CSR Samman

Total Fund Mobilization through Public Offer (Equity and Debt)

- Total Rs. 114,283 crs (\$ 17.69 billion*) have been raised in Indian Markets through Stock Exchanges in India since April 2016
- Rs. 67,497 crs (\$ 10.45 billion*) have been raised at BSE since April 2016
- BSE is the market leader with 59% of total funds raised
- BSE has the largest number of listed companies in world

5139
Companies listed
with Equities

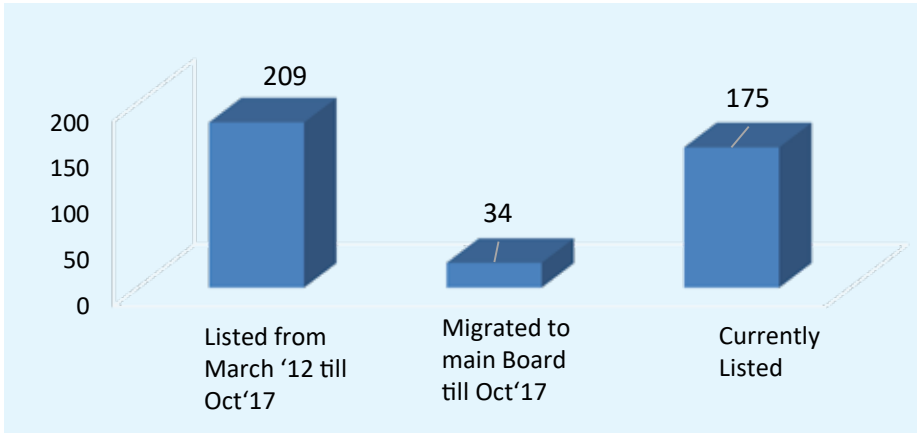
Leadership in Debt Market

- BSE is the preferred choice for listing Privately Placed Debt Instruments (PPDI). In FY16-17, BSE has listed 2353 Instruments with an amount totalling to Rs.420,660 crore vis-a-vis 1200 instruments on other Exchange.
- In F.Y. 2017-18 (till October), Exchange has listed 1164 instruments with an amount totalling Rs. 262,311 crores vis a vis 602 instruments on the other Exchange.
- In F.Y 2016-17, 15 Debt Public issues have tapped the market . BSE is the Designated Stock Exchange for the 13 public issues with 7 issues listed only on BSE.
- In F.Y 2017-18 (till October), 5 Debt Public issues have tapped the market, BSE is the Designated Stock Exchange for all public issues out of which 4 issues were listed only on BSE.

* Figures does not include Amount Raised in SME segment at BSE and NSE

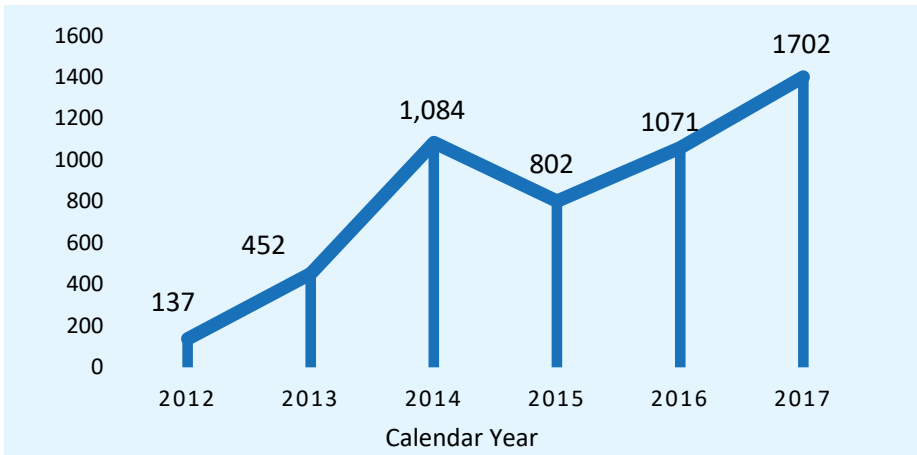
BSE SME – India’s Biggest SME platform

Companies on BSE-SME Platform



- BSE is the first stock exchange in India to receive approval from SEBI on 26th September 2011 to launch SME Platform.
- SME IPO Index with a Base value of 100 as on 16th August, 2012 is aimed at tracking the companies listed on SME platform was launched on 14th December 2012. As on 31st October, 2017 its value was 1,702
- The Platform facilitates capital raising by small and medium enterprises including start-up companies which are in their early stages of growth. It also provides easier entry and exit options for informed investors like angel investors, VCFs and PEs etc. and equity financing which lowers the debt burden leading to lower financing cost and healthier balance sheet.
- Total Market Capitalization of 175 companies –Rs.11,845 Crs
- Total Market Capitalization of 34 companies Migrated to main Board – Rs.7030 Crs.

SME IPO INDEX



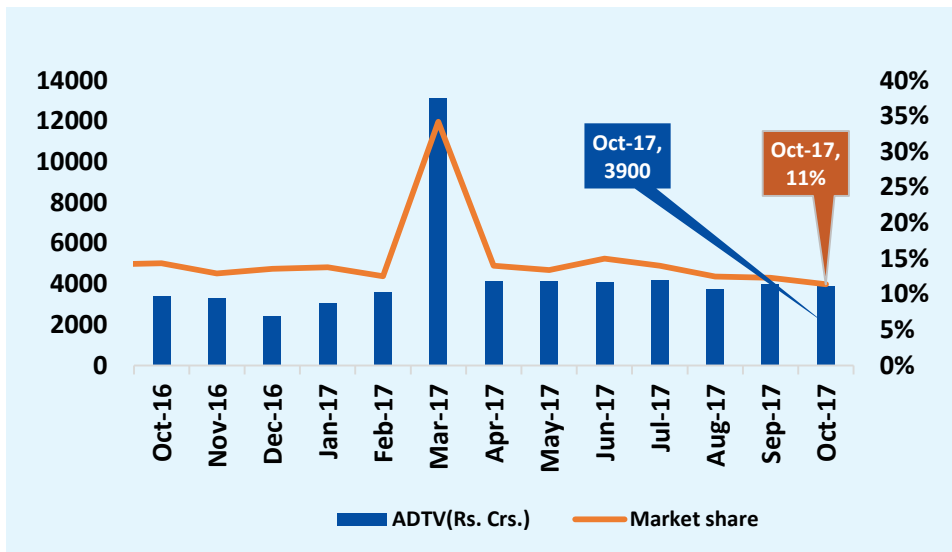
68% of Market Share in terms of number of SMEs listed



Data as of October 2017

Equity Cash Market

Turnover & Market Share%



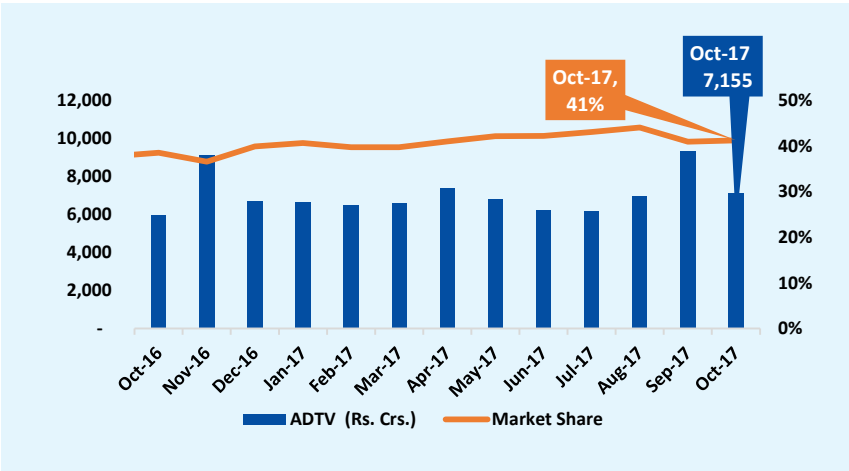
Revision in transaction charges of equity segment w.e.f August 1, 2017

Slab-wise Rates	
Monthly Trades Count	Rate (in Rs.) per Trade
0 – 1,00,000	1.5
1,00,001 – 3,00,000	1.25
3,00,001 – 5,00,000	1
5,00,001 – 20,00,000	0.75
> 20,00,000	0.5

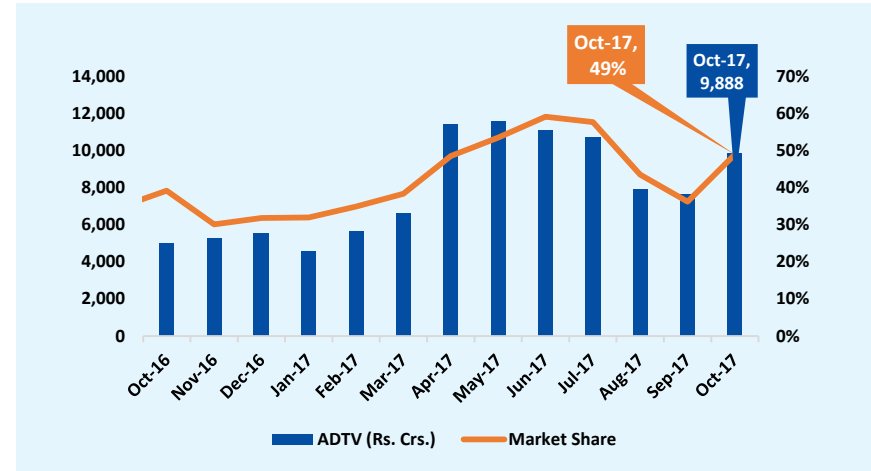
*An active order resulting in multiple execution shall be charged only once.

Currency Derivatives

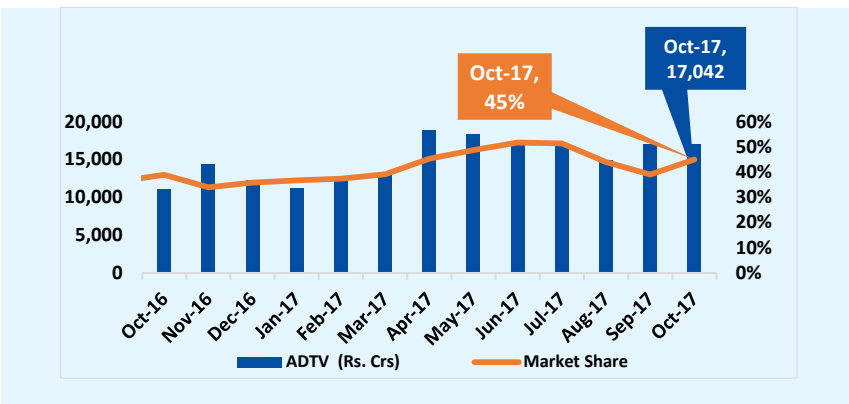
Currency Futures



Currency Options



Combined Turnover & Market Share



Competitive Advantage

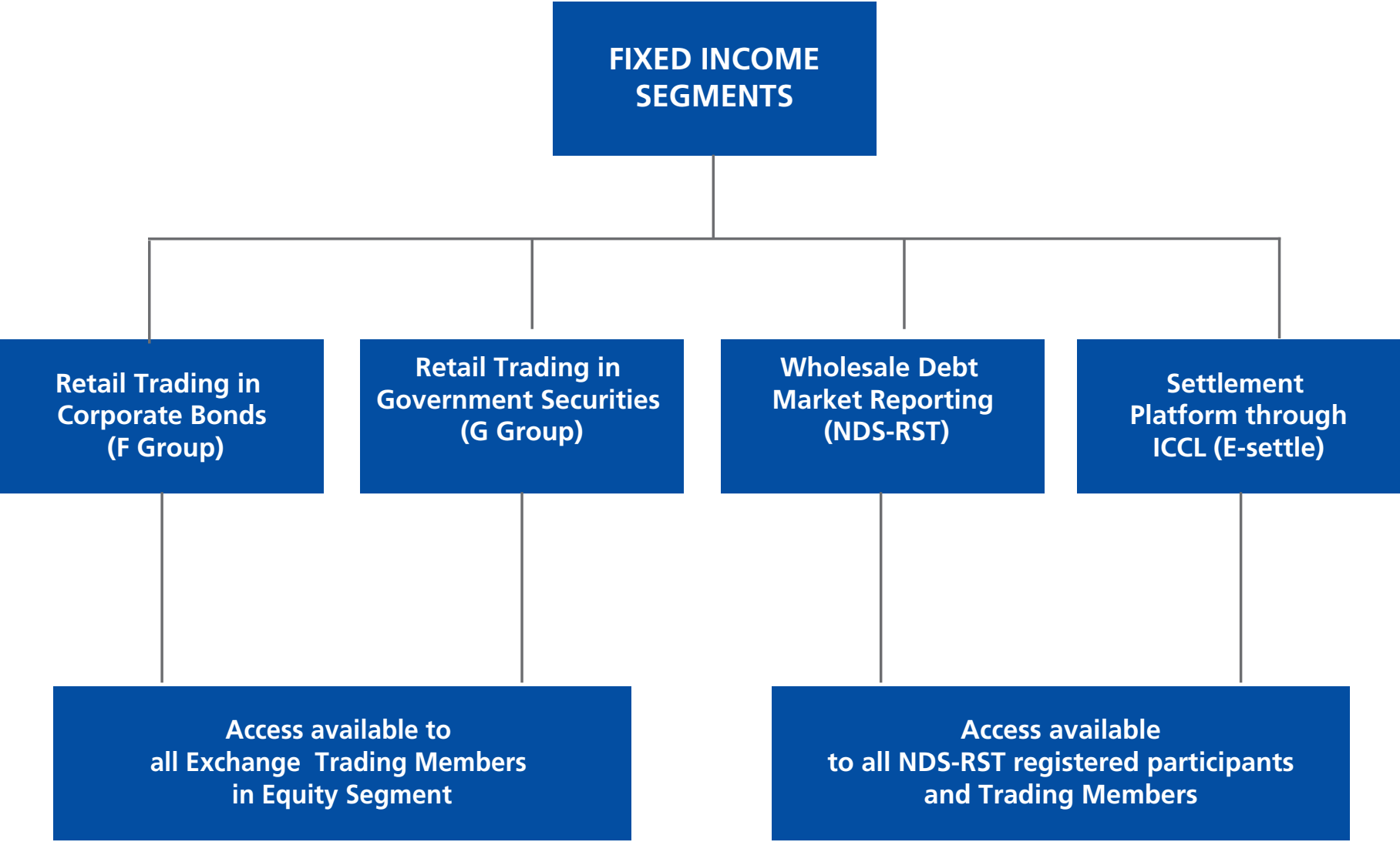
Currency		BSE	NSE	MSEI
Exchange Transaction Charges (Rs. / Per Cr.)	Futures	22	90	90
Cost Saving @ BSE up to		75.56%		
Exchange Transaction Charges (Rs. / Per Cr.)	Options	2000	4000	2500
Cost Saving @ BSE up to		50%		

Sovereign Gold Bond

Tranche	Total No. of Members	Total No. Of Bids	Volume in Kgs	Value in Rs./Crs
4th	161	3931	159	50
5th	214	4770	150	44
6th	206	6772	203	60
7th	173	3545	103	30
8th	132	4779	112	33
9th	137	3811	116	32
Weekly Tranches				
10th	44	1455	35	10
11th	62	2624	36	11
12th	35	752	12	3

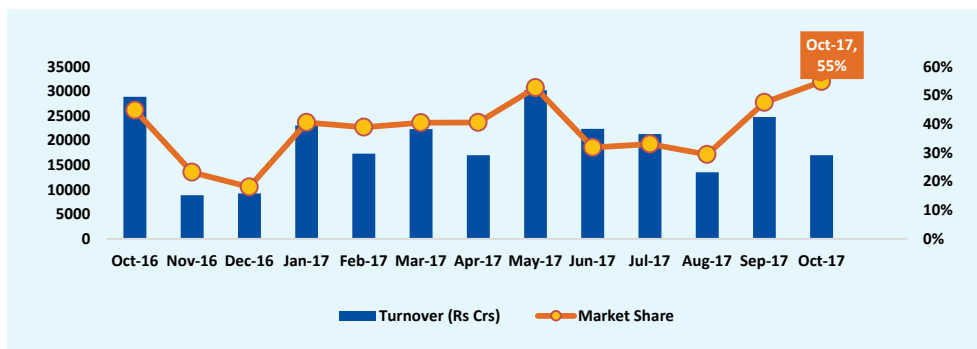
BSE is one of the largest distributors of Sovereign Gold bonds

Fixed Income Segments Overview

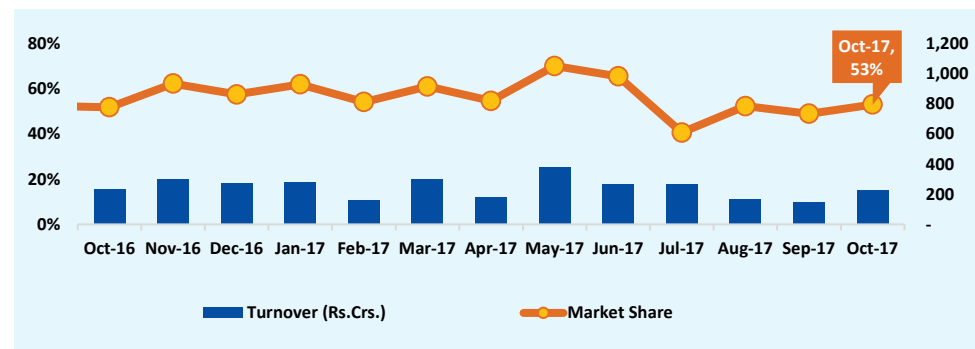


Fixed Income Segments

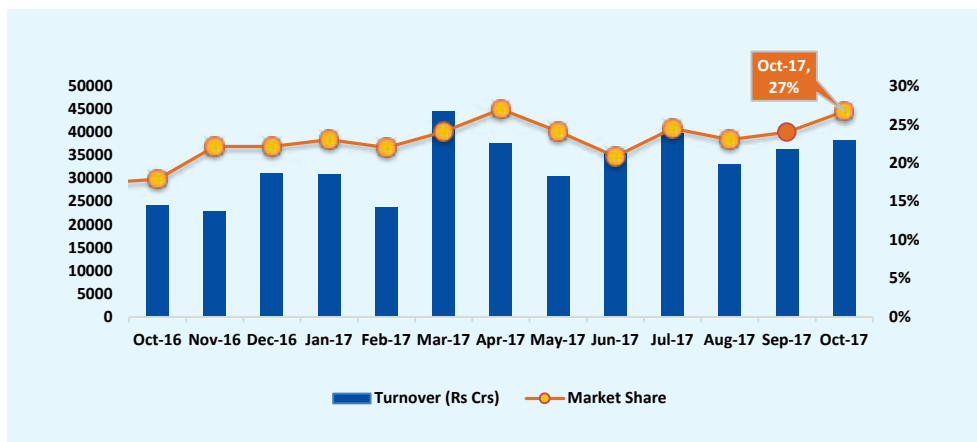
G-Sec Reporting



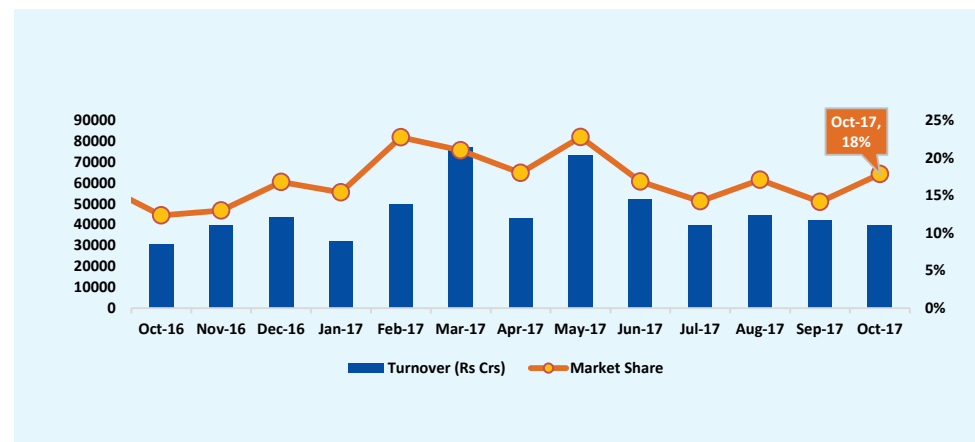
Retail Trading in Corporate Bonds



Corporate Bond Reporting

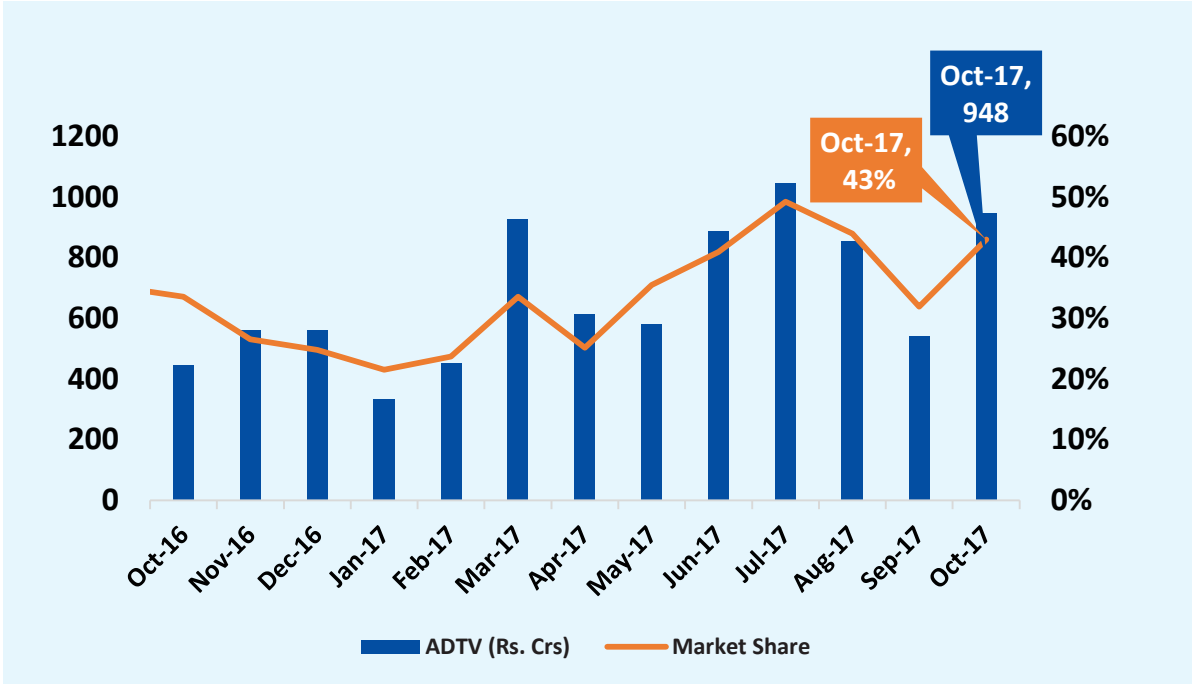


ICCL Settlement



Interest Rate Derivatives

Turnover & Market Share %

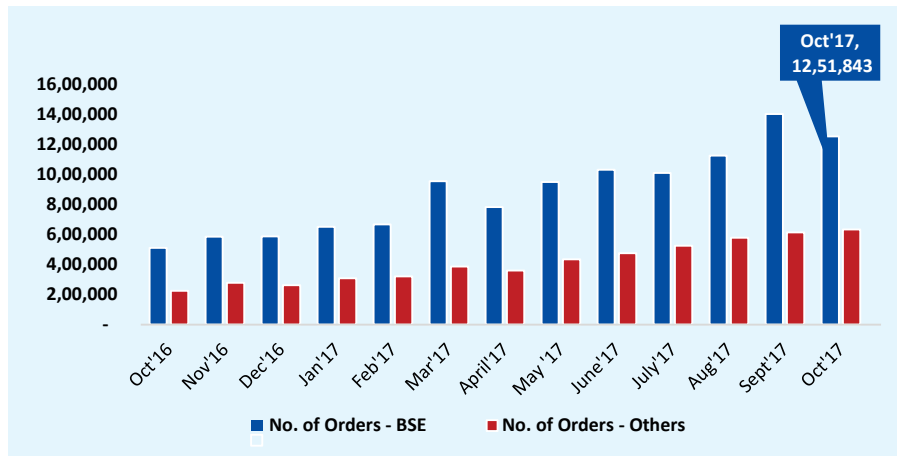


Transaction Charges Rs.10 per Crore

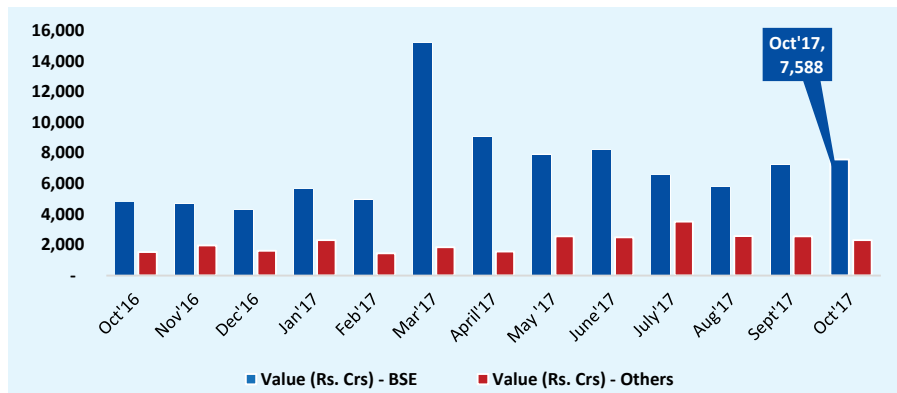
**43%
Market
Share% for
the Month
of September
'17**

StAR MF-India's largest online MF Distribution platform

No. Of Orders



Value (Rs. Crs.)



PLATFORM FEATURES

- Completely digital- Demat and Non Demat /Mutual Fund transactions, while facilitating the benefits of Physical mode
- 24x7 order acceptance
- SGB enabled for MFDs
- 6 day order holding facility
- Paperless SIP
- Any day STP and SWP
- Paperless bank Mandate

CONNECTIVITY & USPs

- Unique overnight investments framework
- Multi-mode of platform access
- Completely digital and REAL Time Investors registration / onboarding
- Widely accepted by NDs / Custodians / Brokers / IFA Platform / New age Digital Distributors / IFAs/ RIAs
- E-submission and online MFD Registration

PLATFORM STATISTICS

- Over 75 lakh orders received on StAR MF Platform till October 2017
- Over 64 Lakh orders transitioned aggregating to Rs 74,301 Crs on BSE StAR MF Platform during FY 16-17
- Market share of 77%.
Processing over 12.5 lac orders for the month of Oct 2017.

BSE StAR MF is the largest digital platform in MF Industry

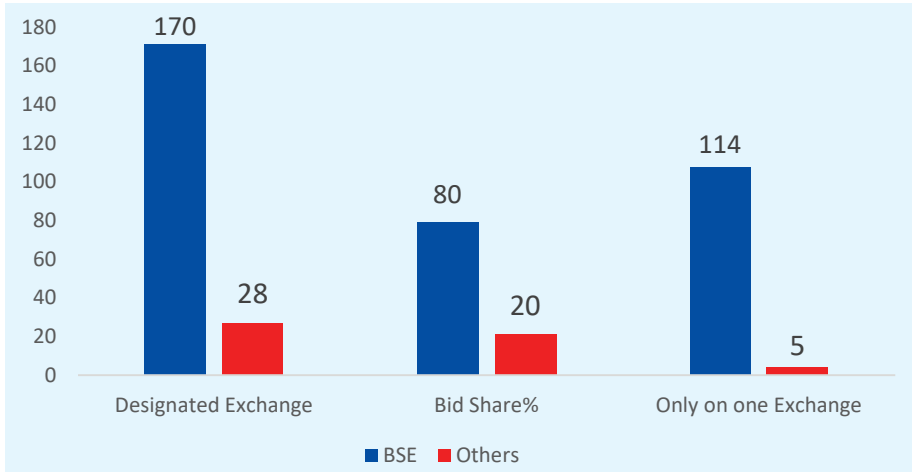


For Registration Process, refer: <http://ir.bseindia.com/mfdforms/members/LoginMF.aspx?expandable=0>

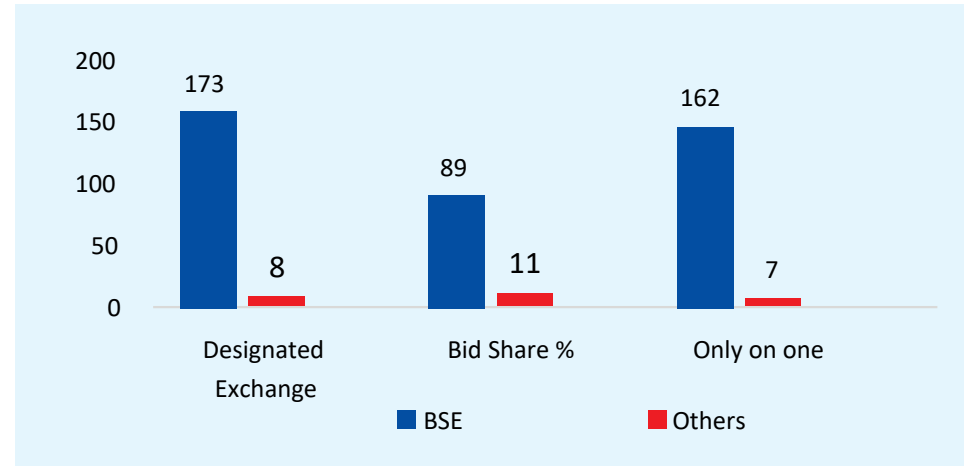
Data as of October 2017

Capital Raising Platforms - OFS/OTB/ BOND

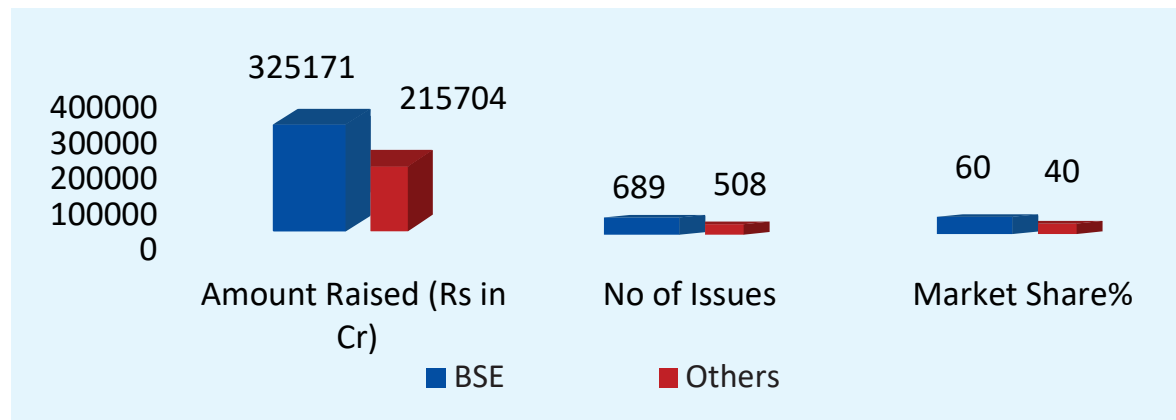
BSE's Leadership in OFS*



BSE's Leadership in OTB**

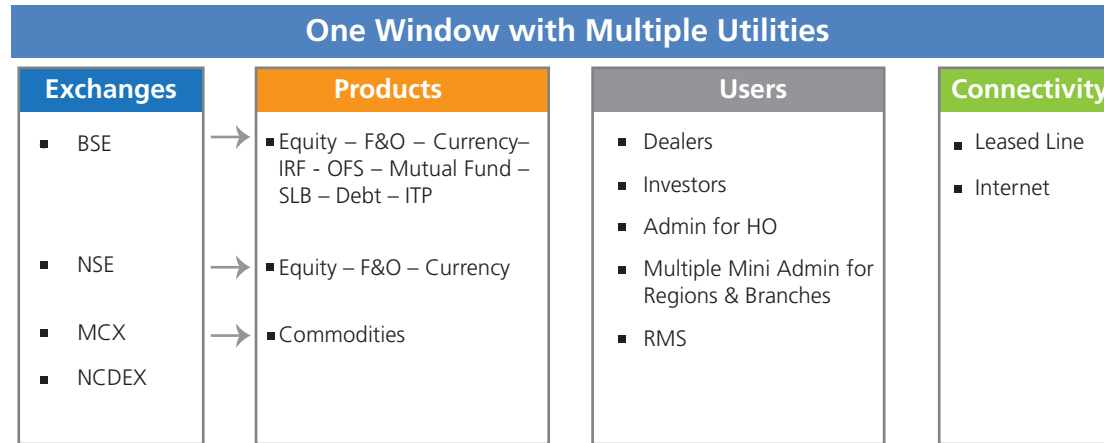


BSE's Leadership in BSE BOND***



* Since Feb 2012
 ** Since July 2015
 *** Since July 2016

Bolt plus -Member Trading interface



Application for Desktop and Mobile

<ul style="list-style-type: none"> ▪ Single window for Multi Exchange Segments with all Asset Class. ▪ Combined Market Depth. ▪ Facility of After Market Orders (AMO). ▪ Real Time Margining. ▪ Supports Timer Based and Single Click square Off. ▪ Top Gainers / Top Losers - Most Active by VOLUME / VALUE. ▪ Corporate Action Information. ▪ Customized short cut keys - predefined Key Mapping Styles of ODIN-NOW ▪ NEWS Plus with RSS feeds and Twitter. ▪ Customized Add on of Web links. 	<ul style="list-style-type: none"> ▪ No IT infrastructure cost to the Member. ▪ Completely Hosted Application. ▪ Single Application for all Users Types . ▪ Trade commencement in one day. ▪ Real time support services.
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Payment Gateway Integrated with Bill Desk

Bolt+on web (BOW)- Free of cost for all Members



BEST (BSE Electronic Smart Trader)- Features

Hosted Trading and Risk Management Application

One Window with Multiple Utilities

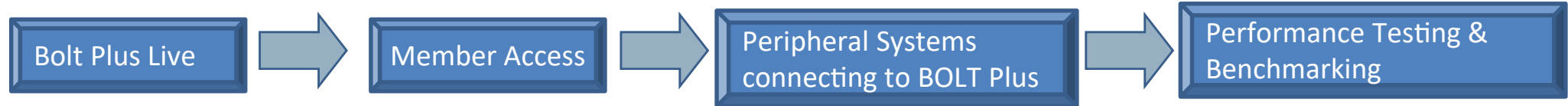
Exchanges/Segments	Users	Features
<ul style="list-style-type: none"> ▪ BSE (Equity, Equity Derivatives, Currency Derivatives, SLB, OFS, IPO, OTB, MF) ▪ NSE (Equity, Equity Derivatives, Currency Derivatives, SLB, IPO, OFS) ▪ MCX ▪ NCDEX ▪ MSEI ▪ ICEX 	<ul style="list-style-type: none"> ▪ Admin ▪ Multiple Parallel Admin ▪ Branch Admin ▪ Dealer ▪ Offline Client ▪ Online Client 	<ul style="list-style-type: none"> ▪ Real time Risk Management ▪ User Management ▪ Multi Exchange/Segment trading

Roles & Functionalities

Admin		Users	
User Management <ul style="list-style-type: none"> ▪ User Creation ▪ Creation & assigning roles ▪ Manage Users ▪ Reporting & MIS ▪ Send Message 	User Management <ul style="list-style-type: none"> ▪ Comprehensive Risk Rules ▪ Real time Margin & MTM calculation ▪ Managing different Risk levels ▪ Multiple Trading Products ▪ Admin Square off ▪ MIS Auto Square off 	Dealers <ul style="list-style-type: none"> ▪ Multiple Exchange & Segments for Trading ▪ Real time broadcast ▪ Basket Order, Spread Order, After Market ▪ Order, Cover Order functionality ▪ Online IV's for Option Traders ▪ Payment Gateway 	Online Client <ul style="list-style-type: none"> ▪ Common login for EXE & WEB platform ▪ Real time broadcast ▪ Payment gateway ▪ Order & Trade reports ▪ Historical reports

BEST - Free of cost for all Members

BSE's -World Class Trading Infrastructure



➤ Products available for trading

- Currency Derivatives – 29th November, 2013
- Interest Rates Futures – 28th January, 2014
- Equity Derivatives - 10th February, 2014
- Equity – 7th April, 2014

➤ API based access -

- Through existing IML API
- Advanced High performance APIs (ETI, MDI/EMDI,EOBI)

- Reference Data, Risk Management, Surveillance, Clearing & Settlement, Data Warehouse

- Latency : < 6 μ s (Gateway in to Gateway out)
- Network latency for Colo users – 10 μ s
- Throughput Capacity: 5 lacs order per second
- Scalability: Horizontally scalable by adding partitions



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