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Discuss for "Global Trends and the Rise of China in Derivatives Market"

Korea Capital Market Institute, Lee Hyo Seob (2015 APAD conference)



Summary of Global Trends in Derivatives Market

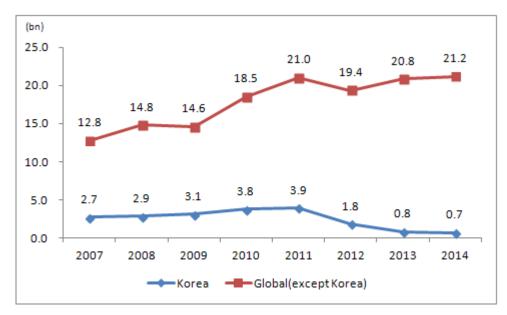
- Global ETD volume bounced back after 2012
 - Annual increase: -15.2%('12) → 1.7%('13) → 1.5%('14)
- ETD volume in Asia excluding KOSPI200 options increased by double digits
- **ETD** volume in KRX sharply declined since 2011
 - KRX's market share of global ETD: $15.7\%('11) \rightarrow 3.1\%('14)$
- China's ETD market share is fast growing
 - All ETD: $4.8\%('11) \rightarrow 12.1\%('14)$
 - Commodity: 42.3%('11) → 64.1%('14)
- Notional amount of both global and KRX is stagnant
 - Global: \$645 trillion('11) → \$630('14)
 - Korea: 6,903 trillion won('11) \rightarrow 7,373 trillion won('14)

ETD volume between global and Korea

The volume of global ETD except Korea increased by 43% since 2009

- Whereas, ETD volume of Korea declined by 73.5% since 2009
- Korea's market share of global ETD market has sharply declined from 17.5%('09) to 3.1%('14)

Contract Trends of ETD market between Korea and Global(except Korea)



Source: KRX

Top 15 Derivatives Exchanges

Chinese derivatives exchanges are rapidly growing owing to commodity

 The trading volume of Shanghai Futures Exchange, Dalian Commodity Exchanges, and Zhengzhou Commodity Exchanges increased by double digits

BSE (India), Moscow Exchange grows fast

- In contrast, the rank of KRX dropped from 1st (2011) to 12th (2014)

Top 15 derivatives exchanges

Exchange	2013 volume	2014 volume	Annual Change
CME group	3,161,476,638	3,442,766,942	8.90%
Intercontinental Exchange	2,807,970,132	2,276,171,019	-11.00%
Eurex Group	2,190,548,148	2.097,974,756	-4.20%
National Stock Exchange of India	2,135,637,457	1,880,362,513	-11.60%
BM&F Bovespa	1,603,600,651	1,417,925,815	-11.60%
Moscow Exchange	1,134,477,258	1,413,222,196	24.60%
CBOE holdings	1,187,642,669	1,325,391,523	11.60%
Nasdaq OMX	1,142,955,206	1,127,130,071	-1.41%
Shanghai Futures Exchange	642,473,980	842,294,223	31.10%
Dalian Commodity Exchange	700,500,777	769,637,041	9.9%
Bombay Exchange	254,845,929	725,841,680	184.80%
Korea Exchange	820,664,621	677,789,082	-17.40%
Zhengzhou Commodity Exchange	525,299,023	676,789,082	28.80%
Hong Kong Exchanges	301,128,507	366,145,920	6.10%
Japan Exchange	366,145,920	301,128,507	-15.40%

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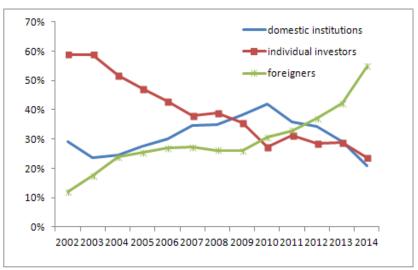
Source: FIA

Investor types of KOSPI 200 futures & options

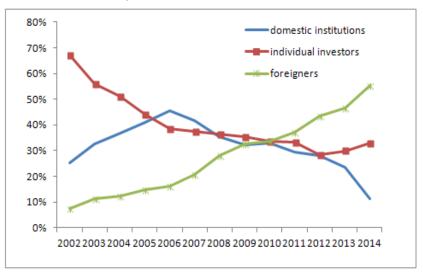
Since 2008, the ratio of foreigners has doubled

- The ratio of foreigners in KOSPI200 futures & options is about 60%
- Whereas, the ratio of domestic institutions has decreased due to the downsizing of prop trading of securities firms
- The ratio of individual investors has decreased and is stagnant around 30%

Investor types of KOSPI 200 futures



<u>Investor types of KOSPI 200 options</u>

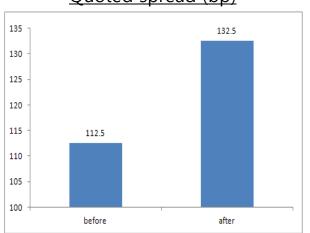


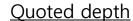
Source: KRX Source: KRX

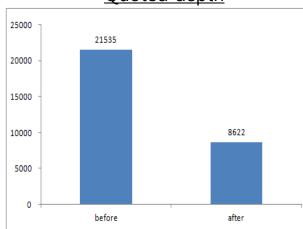
Market Efficiency after the increase of KOSPI200 options' contract size

- Quoted spread increased by 17.8% (after 1 year)
 - 112.5 bp (before) \rightarrow 132.5 bp (after)
- Quoted depth decreased by 60.0%
 - 21,535 (before) \rightarrow 8,621 (after)
- Market quality decreased by 62.5%
 - 24, 452 (before) \rightarrow 9,170 (after)
 - Market quality = quoted depth / (quoted spread * 100))









Source: KCMI

30000 - 24453 20000 - 15000 - 9171 5000 - 0

after

before

Market quality

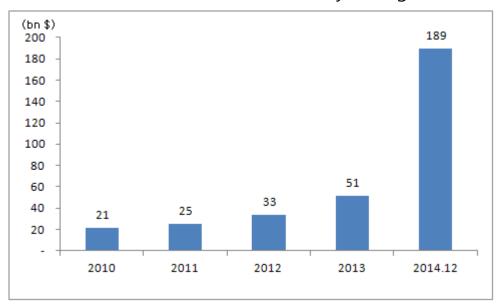
Source: KCMI

6 Source: KCMI

Outbound ETD volume in Korea

- After strong regulations since 2010, retail investors in Korea go overseas ETD market
 - Outbound ETD volume increased by about 10 times since 2010

Outbound derivatives' volume (monthly average) in Korea



Source: KOFIA

Note: exclude FX margin

Improvements of derivatives market in Korea

De-regulation policy should be required for ETD market

- Minimize or abolish open-account margin (30 million won for futures, 50 million won for options) for the entry of ETD market
- Mandatory education & on-line trading experience (80 hours) for the entry of ETD market should be minimized

List new ETD products

- Mini Yuan futures & options
- ETF options
- Crude or Petroleum products such as gasoline, naphtha

Induce OTC trading to ETD market

- Expand mandatory clearing products such as NDF, CDS
- Using on-line trading platform for OTC market should be mandatory

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Thank you very much.