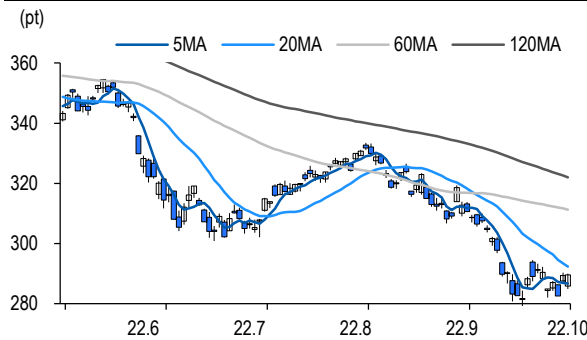


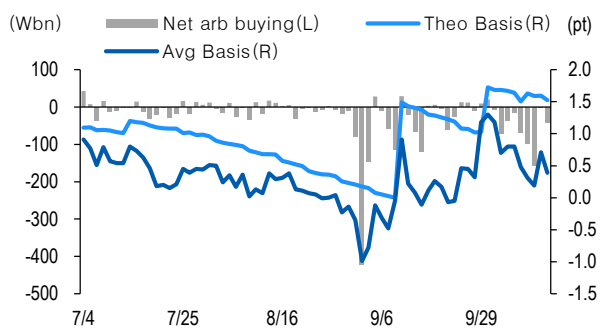
Derivatives market brief

2022.10.18

Market data	(Wbn, contracts)				
	Close price (pt)	Chg (%)	Chg (pt)	Trade value	Open interest
KOSPI200	289.57	0.07	0.21	4,859.4	-
KSP2212	289.35	-0.53	-1.55	20,944.0	331,197
KSP2303	287.00	-0.54	-1.55	31.9	15,763
KSP2211(mini)	288.98	-0.48	-1.38	1,302.6	49,134
KSP2212(mini)	289.60	-0.45	-0.82	3.8	2,532



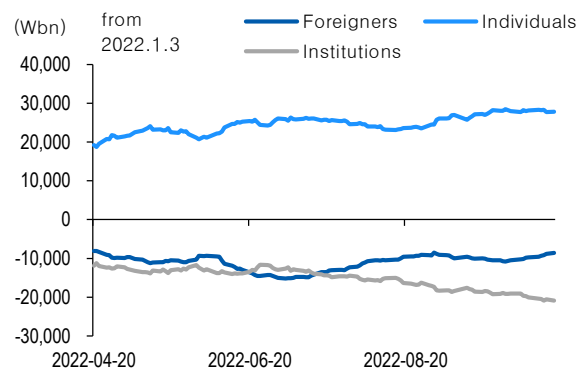
Arbitrage trading market data	(pt)			
	Theoretical price	Average price	Current price	Avg Divergence
K200 basis	1.53	0.39	-0.22	-0.39%
K200 Basis (mini)	0.70	0.00	-0.59	-0.24%
#1 spread (SP)	-2.23	-2.25	-2.25	-0.01%
Syn futures basis (ATM)	0.70	-0.54	-0.54	-0.43%



Trading positions, by investor	(Wbn)									
	KOSPI	ETF total	KOSPI+ETF	Arb PR	Non-arb PR	K200F	K200F (mini)	Call option	Put option	SSF Total
Foreigners	262.9	-16.5	246.4	-7.5	246.5	171.6	1.7	-0.3	-6.4	-15.6
Individuals	53.5	71.9	125.3	0.0	-0.4	70.8	-4.0	0.7	0.6	-19.6
Institutions	-317.1	-63.8	-380.9	-33.2	4.0	-218.3	3.2	-0.5	6.2	44.4
Investment co	-246.6	-104.5	-351.0	-13.1	3.8	123.7	3.3	-4.5	10.3	77.0
Trust	-12.1	5.6	-6.5	0.0	4.7	-269.7	0.0	-0.3	0.1	-34.8
Bank+Insurance+other	-5.2	-0.9	-6.1	0.0	-0.3	-71.4	0.0	4.3	-4.2	0.3
Pension+gov't	-31.0	9.1	-21.8	0.0	-5.5	-1.0	0.0	0.0	0.0	1.9
Other companies	0.7	8.4	9.1	0.0	-0.4	-24.1	-1.0	0.1	-0.4	-9.2

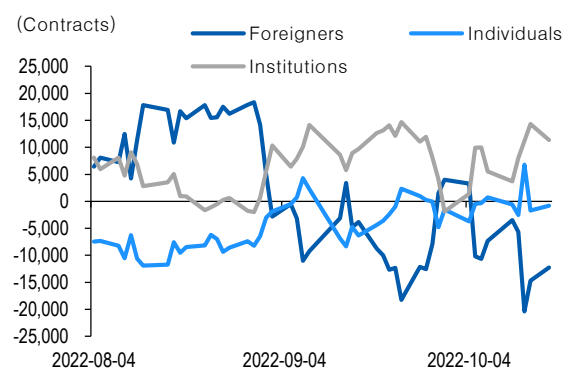
Source: KRX, Yuanta Securities

KOSPI + ETF cumulative net buying, by investor



Source: KRX, Yuanta Securities

Futures cumulative net buying, by investor



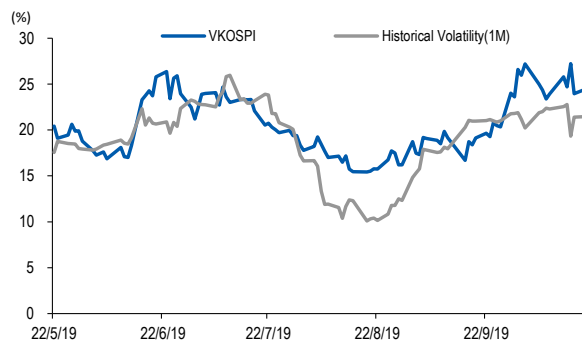
Derivatives market brief

Index option market data										(contracts, Wbn)						
	Trade volume		Trade value		Open interest		Avg volatility			Trade volume		Trade value		Open interest		
Call	647,497		215.7		887,734		20.1%		Option total	1,278,786		435.4		2,078,518		
Put	631,289		219.6		1,190,784		25.4%		PCR(Val. base)	1.02		VKOSPI		24.40%(+0.46%p)		

	Exercise price	Close	Chg (pt)	Trd vol	Open int	Chg in open int	Implied volatility		Exercise price	Close	Chg (pt)	Trd vol	Open int	Chg in open int	Implied volatility
Call	297.5(K+3)	3.21	-0.69	29,387	12,574	1,376	20.1	Put	292.5(K+1)	8.53	0.19	2,248	3,032	657	24.3
	295.0(K+2)	4.13	-0.72	24,634	11,404	907	20.3		290.0(K+0)	7.39	0.41	4,421	7,656	963	24.9
	292.5(K+1)	5.20	-0.81	12,562	7,715	1,044	20.6		287.5(K-1)	6.25	0.31	5,163	5,563	528	25.1
	290.0(K+0)	6.42	-0.90	10,968	12,338	1,740	20.8		285.0(K-2)	5.26	0.24	7,983	9,397	1,598	25.4
	287.5(K-1)	7.76	-1.06	4,644	5,230	705	20.8		282.5(K-3)	4.40	0.18	12,153	5,166	1,105	25.7

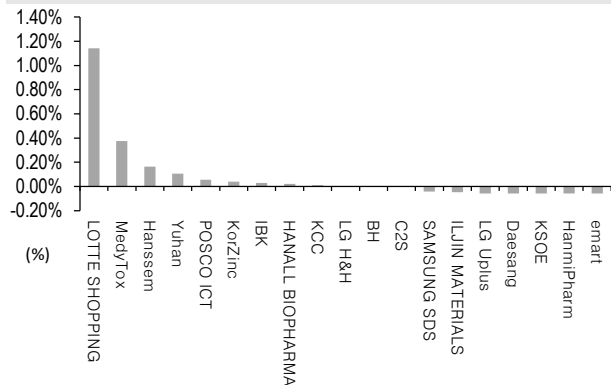
Source: KRX, Yuanta Securities

Historical volatility and VKOSPI



Source: KRX, Yuanta Securities

Single stock futures(SSF) average divergence



Source: KRX, Yuanta Securities

Single stock futures market (top 10 SSF based on futures/spot trade value)

Single stock futures market (top 10 SSF based on futures/spot trade value)											(contracts, Wbn)		
	Trade volume	Trade value	Open interest	Chg in open int	Foreigners (contracts)	Individuals (contracts)	Institutions (contracts)	Foreigners (value)	Individuals (value)	Institutions (value)			
Total SSF	3,646,632	2,170.4	3,961,210	99,338	-66,743	2,330	70,496	-15.6	-19.6	44.4			

Company	Cur. price of futures (KRW)	Change (%)	Futures trade value (Wbn)	Futures/spot trade value (%)	Open interest (contracts)	Chg in open int (contracts)	Average divergence (%)	Foreign net buying	Individual net buying	Institutional net buying	Securities net buying	Funds etc. net buying
HyundaiMtr	167,000	0.00	112.2	102.5	45,961	1,467	-0.12%	812	-3,573	5,511	5,445	26
SamsungElec	56,600	0.00	588.5	76.8	1,055,413	5,087	-0.18%	-1,879	418	2,445	9,073	-3,810
SK hynix	95,200	-0.31	136.4	74.3	163,385	2,721	-0.33%	3,996	-9,481	5,545	5,312	194
KBH	21,750	-1.58	0.5	67.8	1,344	367	-0.06%	411	114	-525	-525	0
SamsungElecMech	119,500	-0.42	23.1	67.7	26,443	528	-0.13%	607	877	-1,484	-515	-879
LG Innotek	291,000	1.22	28.7	58.8	15,057	4	-0.22%	304	-670	401	442	245
SSC	10,000	-0.50	0.7	58.7	2,530	1,417	-0.16%	1,396	150	-1,546	-1,546	0
NCsoft	329,000	-2.23	11.6	58.7	3,960	148	-0.09%	-331	345	-14	-76	62
LG CHEM	574,000	0.17	67.2	58.0	6,978	432	-0.38%	657	-253	-382	961	-84
LG Display	14,400	7.87	23.2	56.7	86,171	-78	-0.36%	4,179	18,564	-22,743	-4,964	-800

Source: KRX, Yuanta Securities