Part B Consultation Questions - Volatility Control Mechanism

Please indicate your preference by checking the appropriate boxes and provide reasons to support your views. Where there is insufficient space, please attach additional pages as necessary.

1.	Do you support the introduction of an instrument-level VCM based on a dynamic price limit model in Hong Kong?
	Yes
	☑ No
	Please give reasons for your view.
	We do not have any evidence on the impact of VCMs so we will adddress our responses to Part C. The responses are our own representations and should not be construed as a representation from our respective universities.
2.	Do you agree that the proposed VCM model should only be applied to the HSI and HSCEI constituent stocks in the <u>securities</u> market?
	Yes
	No No
	Please give reasons for your view.
3.	Do you agree that the proposed VCM model should only be applied to the HSI, HHI, MHI & MCH (spot month and the next calendar month) index futures in the <u>derivatives</u> market?
	Yes
	No
	Please give reasons for your view.

	ou agree that the market should have a 15-minute uninterrupted trading per e the end of the last continuous trading?
	Yes
	No
Pleas	e give reasons for your view.
	ou agree with the proposed reference price for the <u>securities</u> market, namely of last trade 5 minutes ago? If not, what would you prefer?
	Yes
	No, I would prefer:
Pleas	e give reasons for your view.
Do 11	ou agree with our proposed reference price for the <u>derivatives</u> market, namely of last trade 5 minutes ago? If not, what would you prefer?
	Yes
	Yes No, I would prefer:

7.

Do you agree with the proposed triggering level for the securities market, namely 10%

	what level would you prefer?
	Yes
	No, level that I would prefer:
	Please give reasons for your view.
8.	Do you agree with the proposed triggering level for the <u>derivatives</u> market, namely <u>5%</u> from the reference price across the proposed instruments covered by the VCM? If not, what level would you prefer?
	Yes
	No, level that I would prefer:
	Please give reasons for your view.
9.	Do you agree that a maximum of two VCM triggers per trading session per instrument should be imposed to minimise market interruption?
	Yes
	No, I would prefer:
	Please give reasons for your view.
10.	Do you support trading within a price limit during the cooling-off period? If not, do you prefer another approach?
	☐ Yes

<u> </u>	No, another approach that I prefer:
Pleas	e give reasons for your view.
moni	the cooling-off period, do you support resuming the same dynamic price limit toring mechanism (i.e. $\pm 10\%$ ($\pm 5\%$) from the last trade 5 minutes ago in the ities (derivatives) market)? If not, do you prefer another approach?
	Yes
	No, I would prefer:
Pleas	e give reasons for your view.
	ou have any other suggestions on enhancing the resumption procedures?
	ou agree that the duration of the cooling-off period should be 5 minutes for both ecurities and derivatives markets? If not, what would you prefer and why?
775 E.S.	Yes
2006 2006	No, I would prefer:
Pleas	e give reasons for your view.

model? If not, what would you propose and why?

Do you agree with the additional market data dissemination for the proposed VCM

14.

	Yes
	No, I would propose:
Plea	ase give reasons for your view.
futu	VCM is triggered for a given instrument, should trading of related instruments (e.g. ares contract of different contract months) on the same underlying continue as mal?
9.5	Yes
	No
Plea	ase give reasons for your view.
If a stoc	VCM is triggered for a given instrument, should trading of derivatives (e.g. single k options or warrants) of that instrument continue as normal? Yes
الــــار	No
Plea	ase give reasons for your view.
Do	you have any other comments on the VCM proposal?

Part C **Consultation Questions – Closing Auction Session**

18.

18.	Do y mark		ort th	e introduction of the new CAS model in the Hong Kong securities		
	\boxtimes	Yes				
		No				
	Pleas	se give r	easons	for your view.		
	has vo the the det	The proposed implementation incorporates the majority of features that our research has found to be beneficial. These features include a randomised closing time, volatility stabilising price limits, and restrictions on the cancellation of orders prior to the closing auction. One feature we believe should be changed is the dissemination of the IEP. Our research indicates that such a feature encourages gaming and is detrimental to the efficiency and integrity of the market. More details of our research finding are provided in the attached research working paper.				
19.	const Com	ituent s	stocks ⁄IidCap	the new CAS model should only be applied to the major index (i.e. Hang Seng Composite LargeCap Index and Hang Seng Index constituents as well as other Stock Connect Securities for (s)?		
	: ::	Yes				
	\square					
		· ·····				
	_	Please give reasons for your view.				
	sec	Our evidence draws on ALL stocks on 20 markets. Our evidence suggests that all securities (regardless of size) benefit from the introduction of a closing batch mechanism.				
20.		ou agree should b		he new CAS model should be applied to ETF? If yes, which type of ied?		
	\boxtimes	Yes				
		\boxtimes	(i)	Apply to all ETFs		
			(ii)	Only apply to ETFs with Hong Kong stocks as underlying		
		No				

	Please	e give reasons for your view.
		Fs are also susceptible to closing price manipulation. As such, they should also be uded in the CAS.
21.	equity	ou agree that at a later stage, the new CAS model should be expanded to other v securities and funds as proposed? If so, when should the CAS be rolled out to securities and funds?
	\boxtimes	Yes, roll out time should be:
		No
	Please	e give reasons for your view.
	a di	ggering the introduction of the CAS will facilitate the collection of evidence using fference-in-differences econometric approach. More details are available upon uest.
22.	•	ou agree that that the new CAS model should exclude structured products, equity nts and debt securities?
		Yes
	×	No
	Please	e give reasons for your view.
	imp Mo opti	ile manipulation is not as likely on derivative products or debt securities, the provements seen in pricing efficiency are likely to also apply to these products. st developed markets (including Australia) utilise a closing meachnism for ions, warrants and debt securities. A closing mechanism (such as the CAS) is ferred to no closing mechanism (i.e., last traded price) for these products.
23.	Do yo	ou support introducing a price limit during the CAS?
	\boxtimes	Yes
		No
	Please	e give reasons for your view.

Price limits prevent securities from being manipulated outside of those limits. However, our evidence indicates that extensions to the closing auction are very effective at reducing manipulation, lowering spreads at the close, increasing overall traded value across the day and reducing volatility at the close. This is consistent with evidence provided by Ariely, Ockenfels and Roth (2005) on sniping in internet auctions. Comerton-Forde and Rydge (2006b) argue that price extensions provide additional opportunities for traders to enter counter-manipulative orders, increasing the costs of manipulation.

24.	Do you support a price limit of 5% during the Order Input Period for all CAS Securities?
	⊠ Yes
	No No
	Please give reasons for your view.
	5% appears to be a reasonable level, subject to our views above.
25.	Do you agree that a further price limit within the best bid and best ask should be applied during the No-Cancellation Period and Random Closing Period?
	⊠ Yes
	No No
	Please give reasons for your view.
26.	Do you agree that at-auction limit orders should be allowed throughout the CAS?
	⊠ Yes
	No No
	Please give reasons for your view.
	Many participants want to trade at the closing price. This can be to mitigate the inventory imbalances, or because it is useful as a reference price. Many exchanges allow these types of orders and they can facilitate larger "block style" trading without needing to walk the orderbook, minimising volatility at the close.

27.	Do you think short selling orders with a tick rule should be allowed during the CAS?				
	⊠ Yes				
	No				
	Please give reasons for your view.				
	We do not see any reason short-sales should be specifically prohibited from the closing auction.				
28.	If short selling order is to be allowed, should it be at or higher than the reference price?				
	Yes				
	⊠ No				
	Please give reasons for your view.				
	We have no evidence to suggest that short selling at the close is undesirable or should be restricted.				
29.	Do you agree that order amendment and cancellation should be disallowed during the No-Cancellation Period and Random Closing Period?				
	⊠ Yes				
	No				
	Please give reasons for your view.				
	We find that the ability to ammend and cancel orders during the pre-close period increases volatility, pricing error, idiosyncratic volatility, spreads at the close and spreads in the last two hours of the trading day. We also find increases in manipulation when traders are free to ammend or cancel their orders during the pre-close period. This result is indicative of traders' ability to engage in gaming activity by modifying or cancelling manipulative orders during the pre-close period.				
30.	Do you agree that random closing be adopted in the CAS to prevent gaming?				
	⊠ Yes				
	No				

Please give reasons for your view.

We find that randomising the closing time reduces volatilty, pricing error, spreads and the incidence of manipulation. It also significantly increases the value traded throughout the trading day. This suggests that participants are more willing to trade in a randomised close since manipulative orders have increased costs of potential execution, resulting in increased investor confidence. Randomising the closing time also forces legitimate traders to enter their true orders earlier. This is consistent with the findings of Malaga, Porter, Ord and Montano (2010) who show that randomised closing times in internet auctions deter manipulation of the close.

31.		dom closing is to be adopted, should it be over a period of up to 2 minutes or you prefer a different duration?			
	\boxtimes	Up to 2 minutes			
	<u>11.5</u>	A different duration:			
	Please	give reasons for your view.			
	typi HK serv	ny international auctions use much shorter randomisation periods. These period cally range from 15-60 seconds. A period of up to 2 minutes would put the Ex on the longer side of its' international contemporaries. However, this should be to minimise the potential for manipulation, ensuring only legitimate orders ain in the book at the time of clearing.			
32.	In the absence of a final IEP, do you agree that the reference price should be used as the closing price and for trade matching?				
	\boxtimes	Yes			
		No			
	Please	give reasons for your view.			
33.	What	would be the preferred duration of the CAS?			
	(i)	Same as the proposed model, i.e. 7-minute Order Input Period to end the CAS at 16:12			
	(ii)	5-minute Order Input Period to end the CAS at 16:10			

	(iii)	Others, please specify:
	\boxtimes	Approach (i)
	#### #\$5.5 2.11	Approach (ii)
	2000 2000 2000 2000 2000 2000 2000 200	Approach (iii), please specify:
	Please	e give reasons for your view.
34.	•	ou agree that some features of the new CAS model may also be beneficial for the and/or the Trading Halts? If so, which feature(s)?
	\boxtimes	Yes, the feature(s): Randomised open, no ammend/cancel period
		No
	Please	e give reasons for your view.
	I	ese features will complement an opening/trading halt and will prevent similar lesirable activity.
35.	-	ou agree that any enhancements for POS and/or the Trading Halts should be mented later rather than during the introduction of the new CAS?
	\boxtimes	Yes
		No
	Please	e give reasons for your view.
	to t	peration of these changes by at least 6 months will allow enough time for evidence be collected on the impact of the CAS introduction, without tainting the effects h other changes. This should be considered for ALL major market design changes.
36.		ou foresee any issues with your day end processing such as margin calls in the market due to the extended trading time for 12 minutes? If yes, how may the issue

be resolved?

		Yes, suggested solution:			
	11 1 1 1 7 1	No			
	Please	e give reasons for your view.			
	NA				
37.	To ma	aintain the 45 minutes break before the start of AHFT, do you agree that the start of AHFT to be changed from 17:00 to 17:15? If not, what time do you prefer?			
		Yes			
		No, time that you prefer:			
	Please give reasons for your view.				
	NA				

Part D Consultation Questions – Implementation Approach and Timeline

lities t one
o be posal n, the
ether, oosed
oday I es s s not
CAS

How long do you need to prepare for the rollout starting from the issuance of the specification for each initiatives:		
(i)	VCM:	
	a). under 3 months;	
	b). 4-6 months;	
獸	c). 7-12 months	
	d). >12 months	
Pleas	se give reasons for your view.	
(ii)	CAS:	
	a). under 3 months;	
[FU]	b). 4-6 months;	
3.5	c). 7-12 months	
255	d). >12 months	
Pleas	Please give reasons for your view.	
NA		