

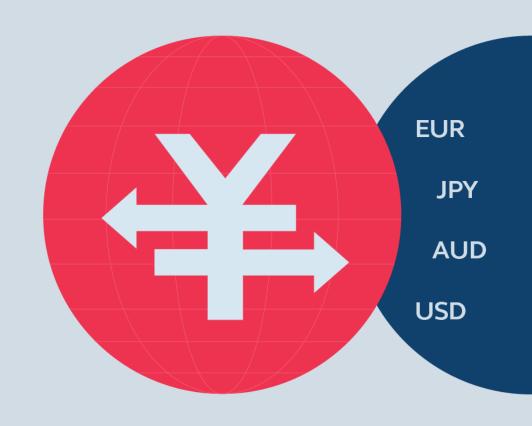
ADDITIONAL RMB
CURRENCY FUTURES



FIC Product Development Market Development Division

RMB CURRENCY FUTURES

Your Premier RMB Risk Management Tools against a Basket of Currencies



AGENDA

- 1 HKEX Value Propositions in FIC
- New Cash-Settled Currency Futures
- 3 Operational Arrangements
- 4 Hedging and Trading Applications

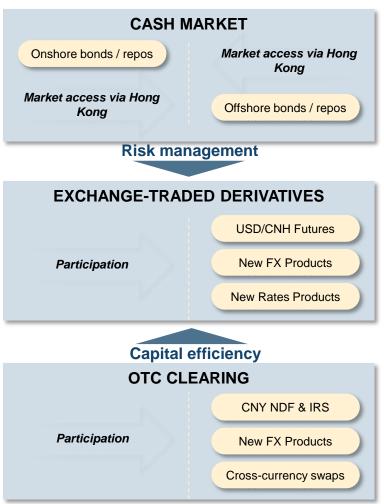


HKEX VALUE PROPOSITIONS IN FIXED INCOME AND CURRENCY



RECAP – HKEX STRATEGIES IN FIC







Onshore Access with Full Suite of FIC Derivatives on China Underlying



ROLES OF LISTED RMB PRODUCTS

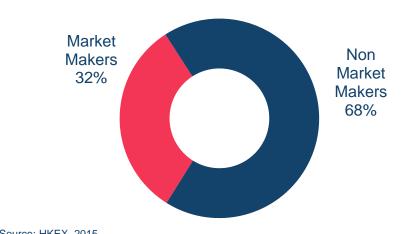
Issues with RMB OTC Derivatives Trading RMB Listed Derivatives Central HKEX acts as a central clearing counterparty Bi-lateral only and no central clearing **Clearing** on both sides of the transaction **Credit and** Need to negotiate credit lines and Margin-based and accept cash collateral Collateral collateral arrangements with banks RMB is not a CLS-eligible currency, Settlement Position netting is available for therefore cannot utilise the CLS system Risk exchange traded derivatives for position netting Capital **Less** capital efficiency **Enhanced** capital efficiency **Efficiency**



BUILDING OUT AN END-USER DRIVEN RMB FUTURES MARKET

USD/CNH Futures: World's Most Liquid ADV (Notional value) US\$313mn **2016 YOY 3**x US\$106mn US\$83mn US\$57mn US\$29mn 2012 2013 2014 2015 2016 Q1





Source: HKEX, 2015

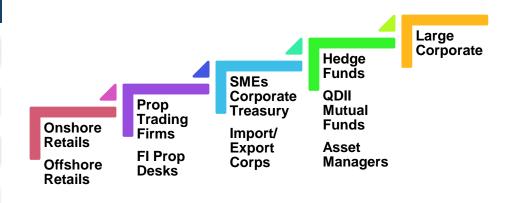
2016 Records

Turnover of US\$771mn on 11 Feb, 2nd All-Time High

Open Interest record of US\$3.2bn on 5 Feb

3 Straight Months of Record ADV - Dec15, Jan16 & Feb16

AHFT All-Time Record (US\$131mn) on 11 Feb





Source: HKEX

NEW CASH-SETTLED RMB CURRENCY FUTURES (LAUNCH ON 30 MAY 2016)

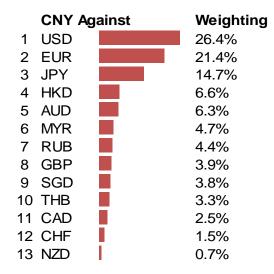


PBOC's NEW FX REGIME - WITH REFERENCE TO A BASKET OF CURRENCIES

Moving Away From Bilaterally Fixating To USD/CNY

New Managed Float Framework across a Basket of Currencies

- On 11 Dec 2015, PBOC introduced a RMB trade-weighted index (TWI), published by CFETS & covers 13 currencies
- Consistent with PBOC's managed floating FX framework based on market supply and demand factors with reference to a basket of currencies



Source: CFETS, as of December 2015

Divergence from USD Movement

- CFETS RMB TWI and US dollar index (DXY) started to diverge in August 2015, with annualised correlation down to less than 20% lately
- Such decoupling is in line with the PBOC's intention to delink the CNY TWI from movements in the USD

CFETS RMB TWI vs DXY

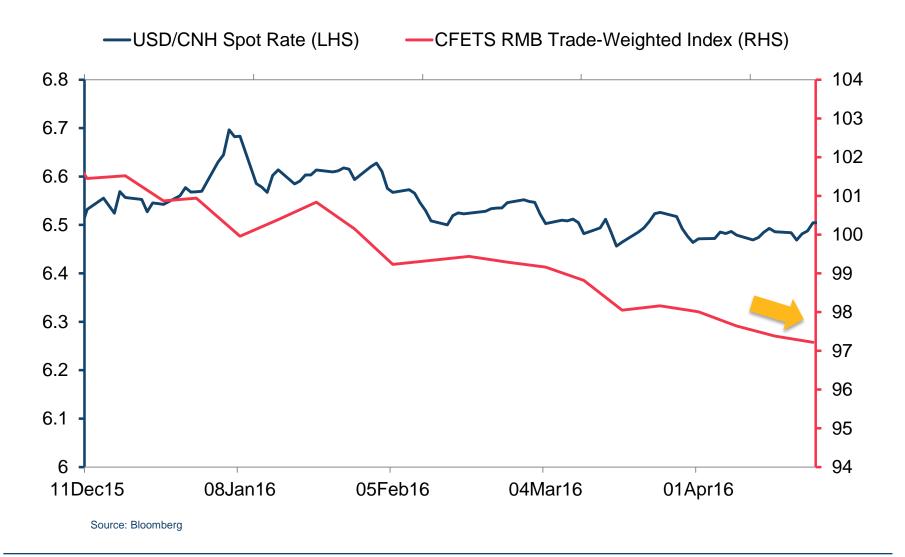


Source: CFETS, Bloomberg



CASE IN POINT

Although recently stabilising against USD, RMB actually weakened against a basket of currencies





CONTRACT DESIGN

	(1) EUR/CNH Futures	(2) JPY/CNH Futures	(3) AUD/CNH Futures	(4) CNH/USD Futures
Contract Size	EUR50K	JPY6,000K	AUD80K	RMB300K
Price Quotation	RMB per EUR (e.g. 6.8028)	RMB per 100 JPY (e.g. 5.5923)	RMB per AUD (e.g. 4.6942)	USD per 10 RMB (e.g. 1.5288)
Tick Value	RMB5	RMB6	RMB8	USD3
Settlement Methodology	Cash settled in RMB			Cash settled in USD
Contract Months	4 contract months (Spot, next and first two quarter months)			8 contract months
Reference Benchmark	A cross rate calculated from WM/Reuters Intraday Spot Rates and TMA CNH TMA Fixing Fixing at 11:00am			TMA Fixing
Minimum Fluctuation	RMB 0.0001 (4 decimal places)			USD 0.0001
Trading Hours	9:00am to 4:15pm (T session) and 5:00pm to 11:45pm (T+1 session)			
Last Trading Day	Two Hong Kong Business Days prior to the third (3rd) Wednesday of the Contract Month			



EMERGENCE OF NEW RMB CROSSES

EUR/CNH

- ✓ EU largest trade partner to China; China 2nd largest trade partner to EU
- ✓ Divergence between fiscal / monetary policy of US & Europe
- ✓ Risk management against European Central Bank policies

AUD/CNH

- ✓ Australia emerged as one of China's largest trade partners in commodities
- ✓ AUD offers diversification benefits through its strong link with commodity prices
- ✓ Risk management against Reserve Bank of Australia policies

JPY/CNH

- ✓ World's 3rd most traded currency
- ✓ Pair trading on precious metals
- ✓ Risk management against Bank of Japan policies

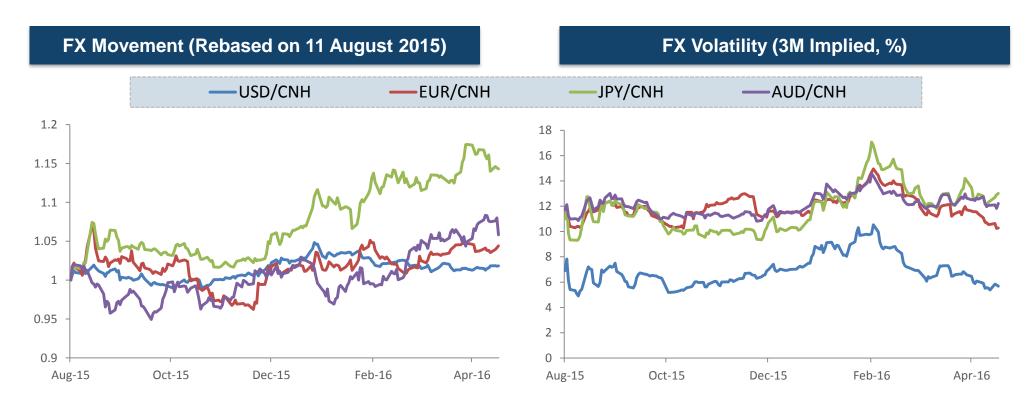
CNH/USD (i.e. inverse style)

- ✓ Margining & settlement in USD
- ✓ Cash settlement reduces operational burden
- ✓ Smaller notional for retail participation
- ✓ Trading opportunities with existing USD/CNH futures



OPPORTUNITIES UNDER "ASYNCHRONOUS" MONETARY POLICY AMONG CENTRAL BANKS

- The IMF highlighted the "asynchronous" monetary policies of central banks as a major risk to the global economy
- While the US is on a tightening cycle, Europe, Japan and Australia are easing monetary conditions at different pace
- Risk management needs driven by higher movements and volatility of RMB against EUR, JPY and AUD







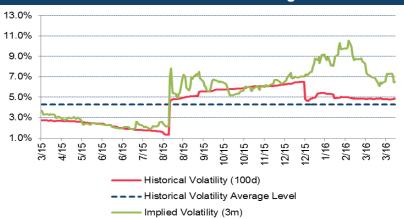
MARKET DYNAMICS: USD/CNH

RMB's decoupling from USD has pushed up USD/CNH volatility to a level never seen before The USD has depreciated against CNH by 1.7% in Q1 2016

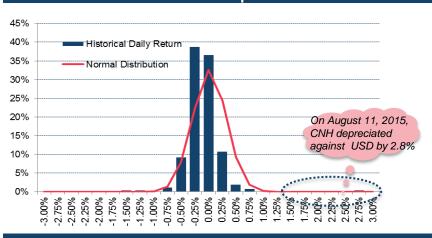
Near-term FX levels mostly driven by relative interest rates

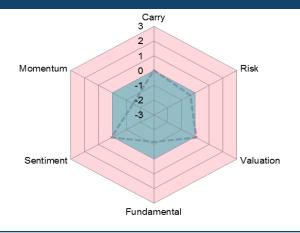


The FX volatility has increased recently and reminded us of the need for sound risk management



Left tail events of FX can have devastating effects on RMBrelated investment performance









MARKET DYNAMICS: EUR/CNH

European Central Bank's negative rates policy pushed up EUR/CNH volatility to a level last seen in 2011. The EUR has appreciated against CNH by 2.4% in Q1 2016

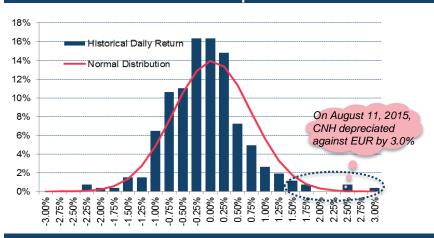
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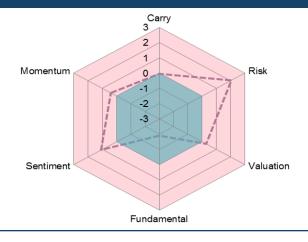


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Left tail events of FX can have devastating effects on RMBrelated investment performance









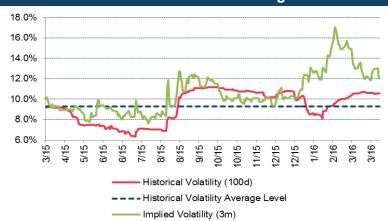
MARKET DYNAMICS: JPY/CNH

Despite the Bank of Japan QE and negative rates policies, the JPY has appreciated against CNH by 5.2% in Q1 2016

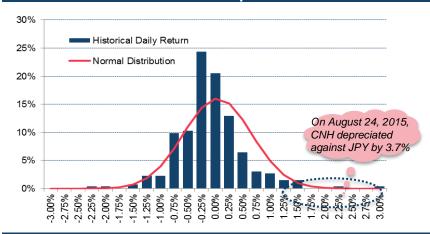
Near-term FX levels mostly driven by relative interest rates

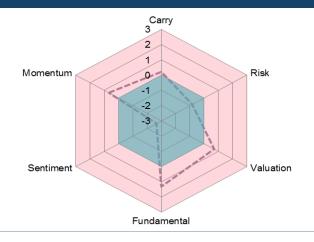


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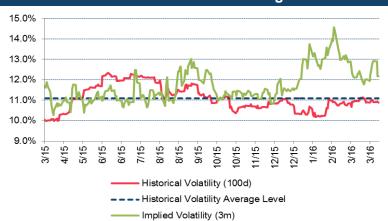
MARKET DYNAMICS: AUD/CNH

Although the loose monetary policy by Reserve Bank of Australia has pushed for a weaker currency, AUD has appreciated against the CNH by 3.1% in Q1 this year

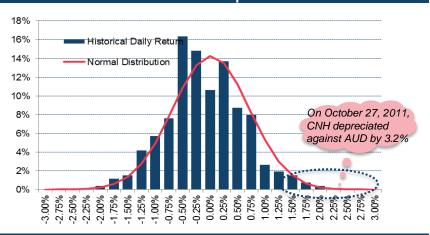
Near-term FX levels mostly driven by relative interest rates

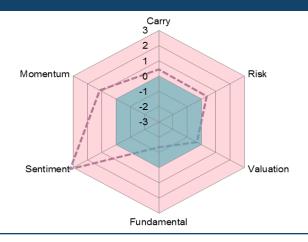


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Left tail events of FX can have devastating effects on RMBrelated investment performance







NEW CONTRACT FEATURES

Cost Saving

- No Levy for All Currency Futures
- No Exchange Fee for the First 6 Months

Price Transparency

Real-time prices available on HKEX website and other popular information vendors

Leverage

Margin basis; Around 2-3% of notional amount

Block Trade

- Liquidity Providers to Facilitate Large Size Quotation (Min. Size: c.US\$2.5million)
- No Bilateral Credit Line Required



COMPARISON BETWEEN USD/CNH FUTURES AND PROPOSED NEW PAIRS

Product	USD/CNH Currency Futures	New RMB Pairs	
Underlying	USD/CNH	EUR/CNH JPY/CNH AUD/CNH CNH/USD	
Contract Size	US\$100,000	Half – Around US\$50,000	
Settlement Method	Physically-settled (USD vs. RMB)	Cash-settled	
Last Trading Day (LTD) Final Settlement Day (FSD)	LTD: Usually 3 rd Monday FSD: Usually 3 rd Wednesday (T+2)	LTD*: Usually 3 rd Monday FSD*: Usually 3 rd Tuesday (T+1)	



COMPARISON BETWEEN USD/CNH FUTURES AND PROPOSED NEW PAIRS

Product	USD/CNH Currency Futures	CNH/USD Currency Futures	
Quotation	RMB per 1 USD (e.g. RMB 6.6233 per USD)	USD per 10 RMB (e.g. USD 1.2888 per 10 RMB)	
Trading and Margin Currency	RMB	USD	
Contract size	USD 100,000	RMB 300,000	
Settlement Method	Physically settled (USD vs RMB)	Cash-settled in USD	
Last Trading Day (LTD) Final Settlement Day (FSD)	LTD: Usually 3 rd Monday FSD: Usually 3 rd Wednesday (T+2)	LTD*: Usually 3 rd Monday FSD*: Usually 3 rd Tuesday (T+1)	



SIMULATED PRICE DATA – FOR REFERENCE ONLY

	USD/CNH Futures	EUR/CNH Futures	JPY/CNH Futures	AUD/CNH Futures	CNH/USD Futures
Spot Price	6.5659	7.3632	5.9580	4.7288	1.5230
Simulated Jun-16 Futures Price	6.5740	7.3748	5.9664	4.7297	1.5210
Simulated Sep-16 Futures Price	6.6161	7.4427	6.0214	4.7404	1.5121
Simulated Dec-16 Futures Price	6.6633	7.5171	6.0859	4.7584	1.5026

As of 13:00 on 19 May 2016



OPERATIONAL ARRANGEMENTS



TRADING ARRANGEMENTS

Maximum Order Size

- Max order size limit: 1,000 contracts
- EPs are required to submit their request to HKEX for setting up their own order size limits based on their business needs & risk management requirements

Block Trade

- Volume Threshold: 50 contracts (c. US\$2.5million)
- Permissible Price Range: ±3% of a reference price, which is obtained through prevailing market prices, or determined as the theoretical values based on prevailing underlying values (if necessary)

Error Trade Price Parameters

Error trade parameter is 1% from notation price

AHFT Price Limit

- AHFT price limit is ±3% of the last traded price in the Day session
- For newly listed contract months, the reference price of the preceding contract month will apply



CLEARING AND RISK MANAGEMENT ARRANGEMENTS

Clearing Arrangements

- For EUR/CNH, JPY/CNH and AUD/CNH futures
 - CPs need to set up <u>RMB account</u> with <u>Settlement Banks appointed by HKCC</u>
 - Maintain relevant mandates as prescribed by HKCC
- For CNH/USD futures
 - CPs need to set up <u>USD account</u> with <u>Settlement Banks appointed by HKCC</u>
 - Maintain relevant mandates as prescribed by HKCC
- CPs have to ensure these bank accounts are in <u>active status</u> and ready for <u>cash</u> settlement
- · Non-CPs should contact their GCPs to ascertain eligibility of clearing

Risk Management

- Update of PC-SPAN Organization Master File announced
- Client initial margin around 2-4% of notional
 - > EURCNH: RMB13,820
 - > JPYCNH: RMB13,340
 - AUD/CNH: RMB13,210
 - > CNH/USD: USD1,150
- Margin offset between existing USD/CNH and new CNH/USD futures (subject to regulatory approval)



INFORMATION VENDOR LIST

	Mainland China Information Vendors
1	AASTOCKS.com / Shanghai DZH
2	East Money Information
3	Hexin Flush Financial Information Network
4	Pobo Financial Information
5	Shanghai Qianlong Advanced Technology
6	Shanghai Wind Information
	Hong Kong and International Information Vendors
1	AAStocks
2	Activ Financial
3	AFE Solution
4	Bloomberg
5	CQG
6	DBPower
7	ETNet
8	Fidessa
9	Infocast
10	Interactive Data
11	Market Prizm
12	QPI
13	SIX Financial
14	Telequote
15	Tele-Trend
16	Thomson Reuters



HEDGING & TRADING APPLICATIONS



HOW TO USE ADDITIONAL RMB CURRENCY FUTURES

Hedge for Own
Treasury Inventory
(e.g. EUR, JPY, AUD)

Pair Trading and Commodity Plays (e.g. AUD)

Add Value to Multi-Currency Portfolios

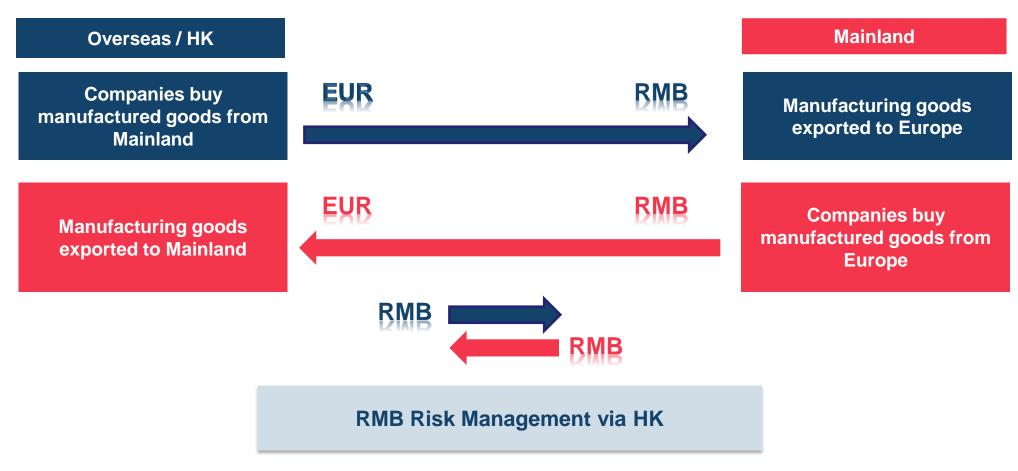
Capture Policy
Changes (ECB/BOJ) &
Macro News Release

Correlation /
Covariance
Play between
RMB Pairs



SIMPLE AND EFFICIENT RISK MANAGEMENT TOOL

Trade Finance and Cross-border Trade Settlement in e.g. EUR vs. RMB





HEDGING AND TRADING APPLICATIONS (1)

Against RMB Depreciation

Case Study

Scenario 1:

No Hedging

An European investor investing in Mainland A-shares
Anticipates RMB depreciation against EUR over the next 6 months

Now

 Convert *EUR 10 mil* to RMB 71 mil @ 7.1000

Buy mainland A-shares

6 months later

- 5% stock price increase and sell stocks to get RMB 74.6 mil
- RMB depreciates against EUR from @7.1 to @7.2
- Convert it back to EUR10.35mil @ 7.2

P&L: Gain EUR 0.35mil

Now

- Scenario 2:
- Hedge via Long
 EUR/CNH
 Futures
 Positions
- Convert EUR 10 mil to RMB 71 mil @ 7.1000
- Buy mainland A-shares
- Long 200 EUR/CNH Futures contracts @ 7.1500



6 months later

- 5% stock price increase and sell stocks to get RMB 74.6 mil
- RMB depreciates against EUR from @7.1 to @7.2
- Convert it back to EUR 10.35mil @ 7.2
- Close out @ 7.2400 and get RMB 0.9 mil profit, equivalent to EUR 0.13mil @7.2

P&L: Gain EUR 0.48mil

Covering the loss in RMB depreciation and protect the gain in A-shares



HEDGING AND TRADING APPLICATIONS (2)

Against RMB Appreciation

Case Study

A Mainland investor buying an Australian property
Anticipates RMB appreciation against AUD over the next 12 months

Now

12 months later

Scenario 1:

No Hedging

- Convert *RMB3.84mil* to AUD 0.8mil @ 4.8000
- Buy a property of AUD 0.8mil



- Sell property at increased value of AUD 1mil
- RMB appreciates against AUD from @4.8 to @4.7
- Convert it back to RMB4.7mil @ 4.7

P&L: Gain RMB0.86mil

Now

Scenario 2:

Hedge via Short
AUD/CNH Futures
Positions

- Convert *RMB3.84mil* to AUD0.8mil @ 4.8000
- Buy a property of AUD 0.8mil
- Short 10 AUD/CNH Futures contracts @ 4.85



- 12 months later
- Sell property with increased value of AUD 1mil
- RMB appreciates against AUD from @4.8 to @4.7
- Convert it back to **RMB4.7mil** @ 4.7
- Close out @ 4.76 and get RMB72,000 profit

P&L: Gain RMB0.93mil

Effective hedging can enhance investment return



DISCLAIMER

TMA's Spot USD/CNY(HK) Fixing

https://www.tma.org.hk/en_market_info.aspx

The Fixing which serves as the benchmark for market exchange rate of USD against CNY(HK) at 11:00 a.m. Hong Kong time is determined by averaging the middle quotes after excluding the highest two quotes and lowest two quotes from the 18 Contributing Banks. The Spot USD/CNY(HK) Fixing is published at around 11:15 a.m. Hong Kong time each business day (excluding Saturdays). Thomson Reuters is the calculating agent for the fixing. Thomson Reuters RICs <CNHFIX=>; Thomson Reuters pages <CNHFIX>.

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