
The Science of Finance

markit®

A view from the trenches

Federal Reserve Bank of Chicago

19th Annual Capital Markets Conference, December 10th 2013



About Markit



Who we are

markit®

We are a global, diversified financial information services company

We help our customers reduce risk, improve operational efficiency and benefit from enhanced transparency

Our customers include investment banks, hedge funds, asset managers, central banks, regulators, auditors, fund administrators and insurance companies

2003

Founded

3,000+

Employees

3,000+

Customers

20+

Offices

How we are organised

markit®

We have over 40 products and services organised into three divisions

Information

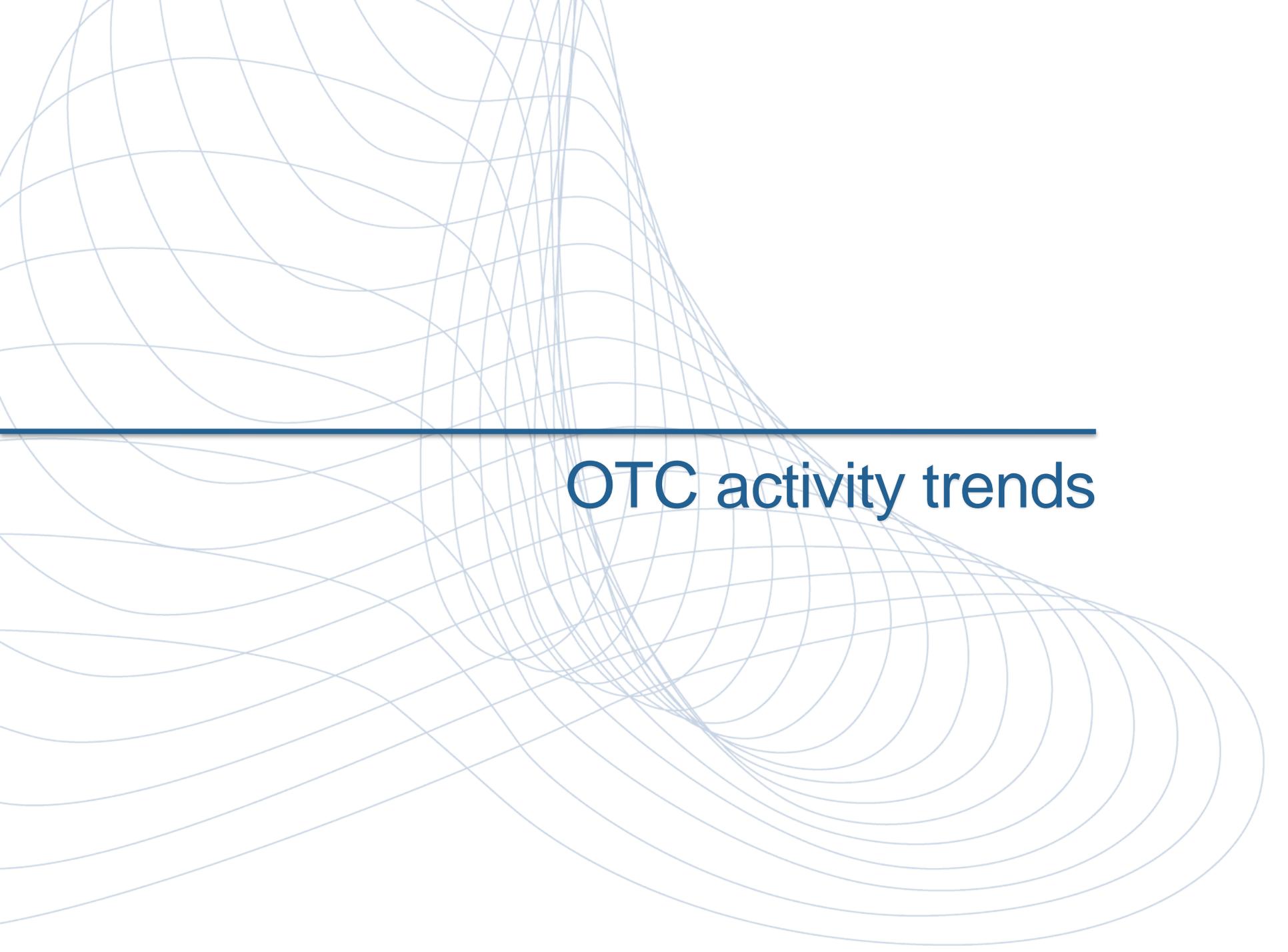
Indices, pricing and reference data across asset classes, enabling our customers to price instruments, value portfolios and manage risk

Processing

Processing services for fx, loans and otc derivatives, streamlining workflow and improving connectivity

Solutions

Versatile and scalable software platforms and services allowing institutions to manage information, reduce risk and improve operational efficiency



OTC activity trends



Challenges of analyzing OTC activity data

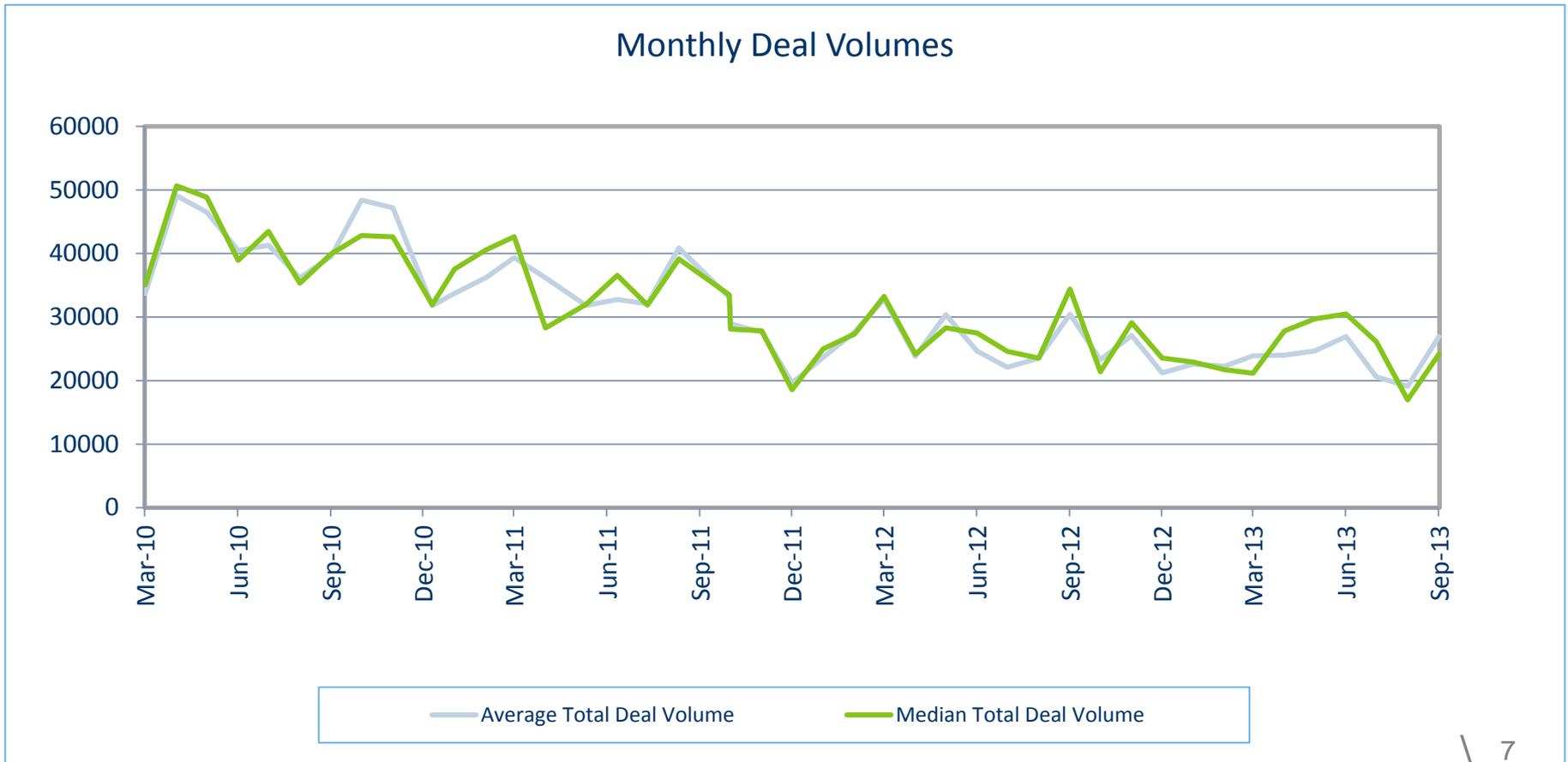
markit

- Sides versus trades
- Blocks vs splits
- Prime brokerage/back to back
- Novations
- Cleared alpha/beta/gamma
- Termination vs compression
- Notional vs tickets

Volume trends

Credit derivatives deal volumes (monthly, per reporting dealer)

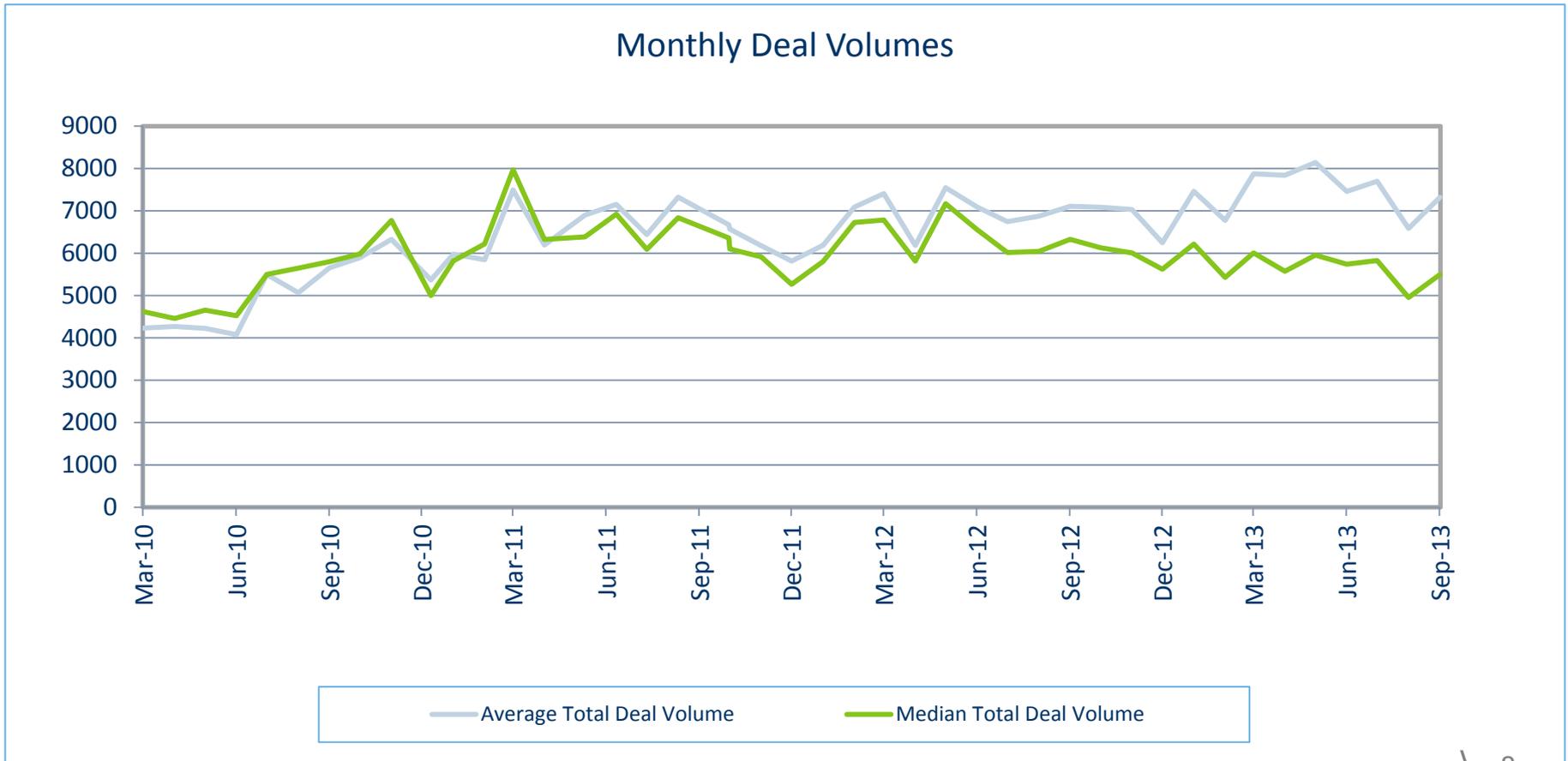
Source: Markit Metrics



Volume trends

Equity derivatives deal volumes (monthly, per reporting dealer)

Source: Markit Metrics



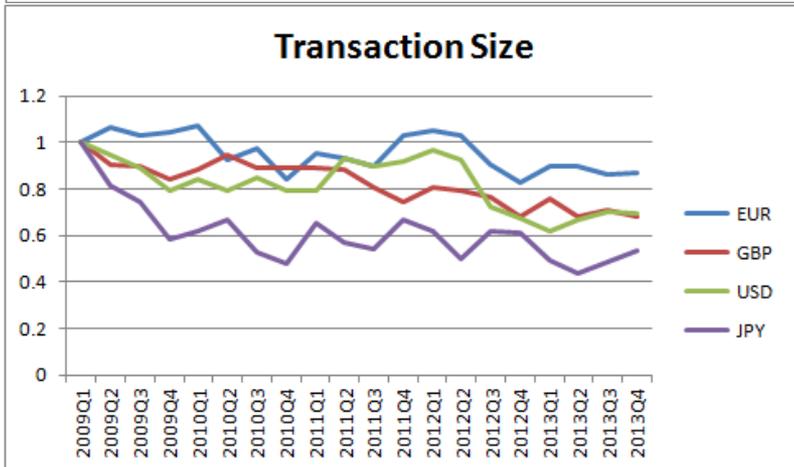
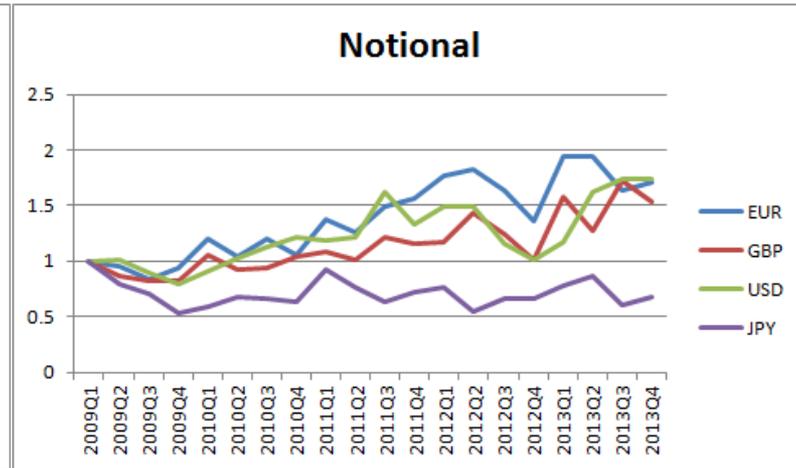
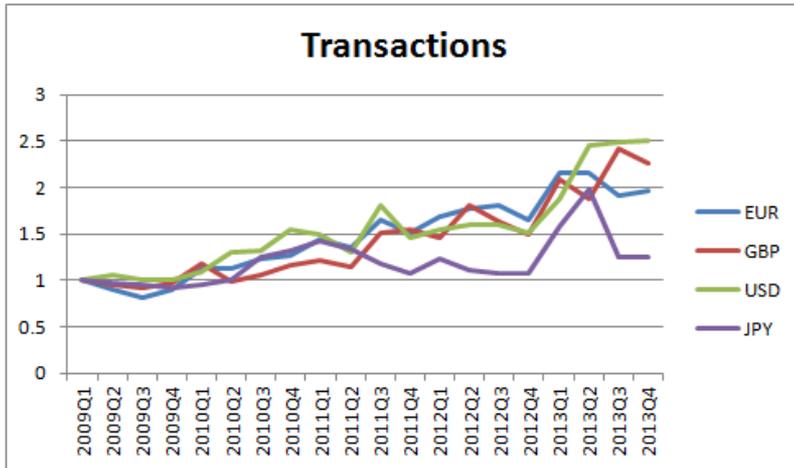
Volume trends

Interest rate derivatives deal volumes (monthly, per reporting dealer)

Source: Markit Metrics



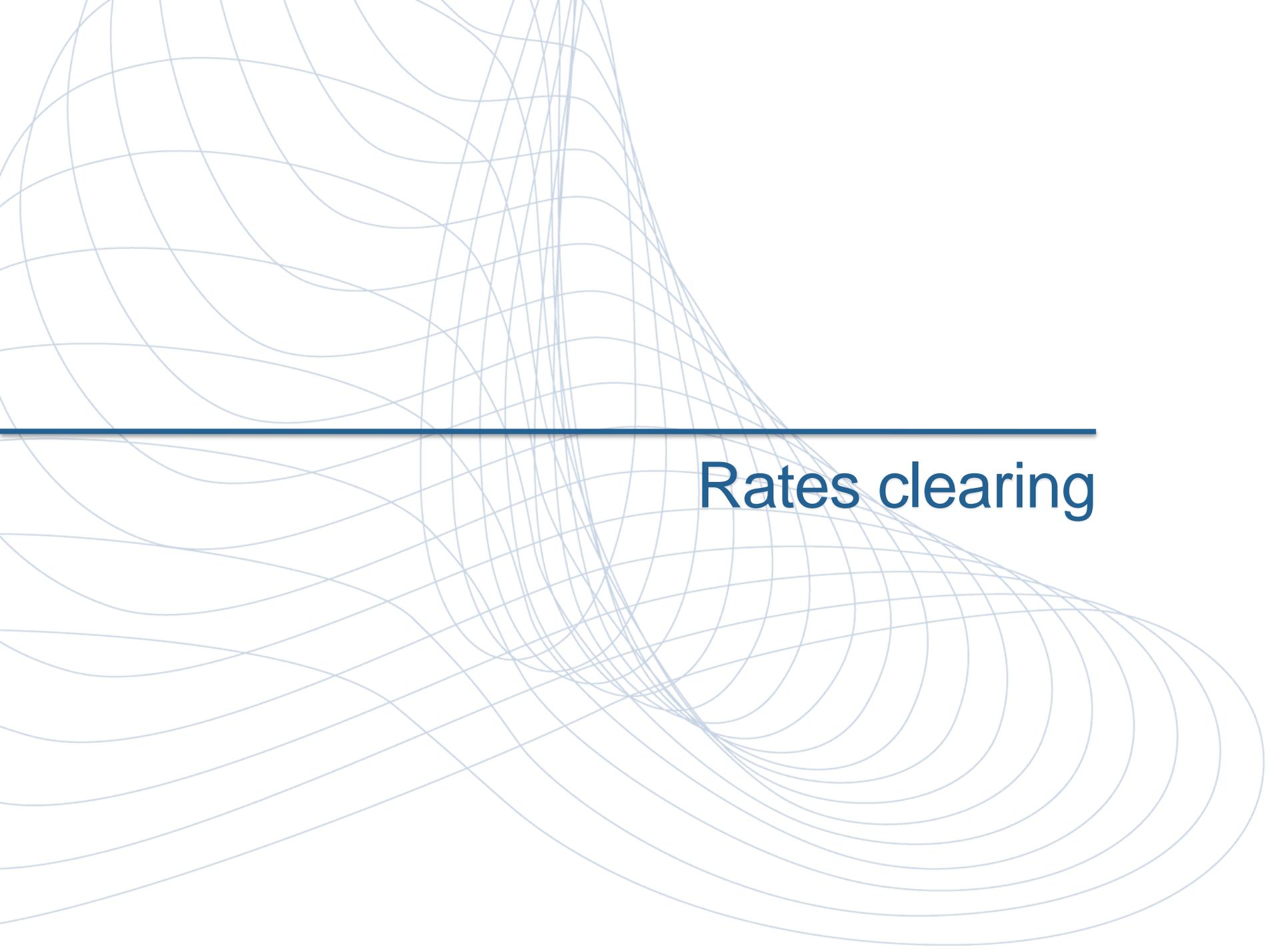
Notional vs Tickets – Interest Rates Swaps



Relative to Q1 2009 = 1

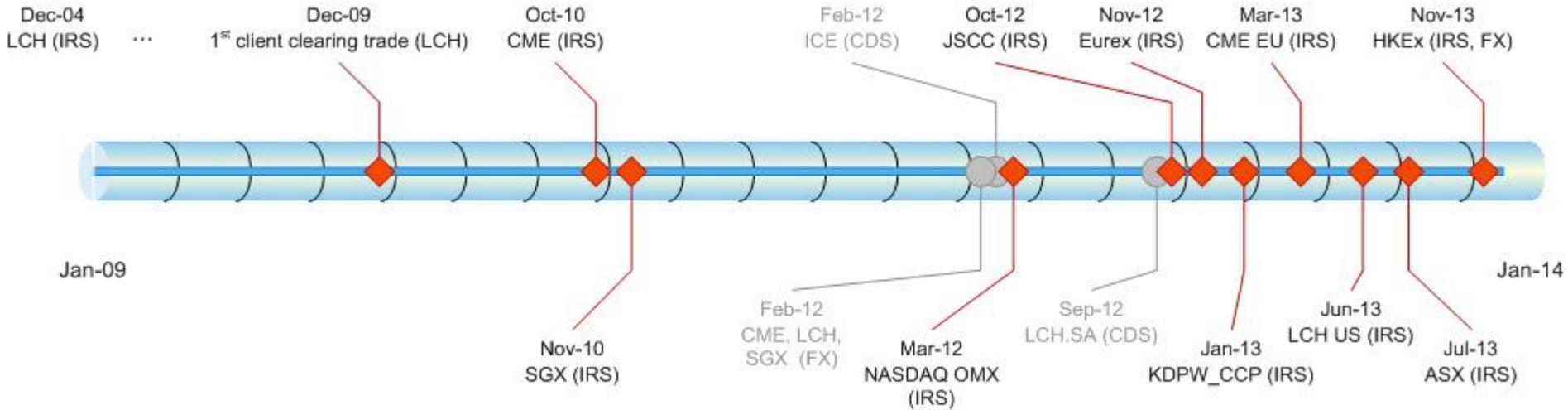
Source: trades processed by Markit derivatives

processing



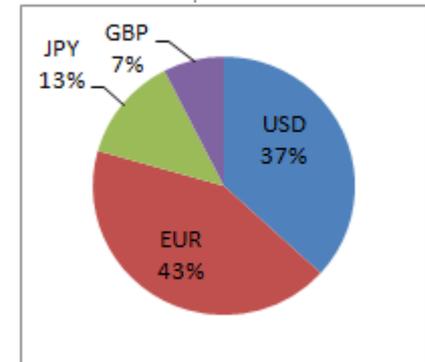
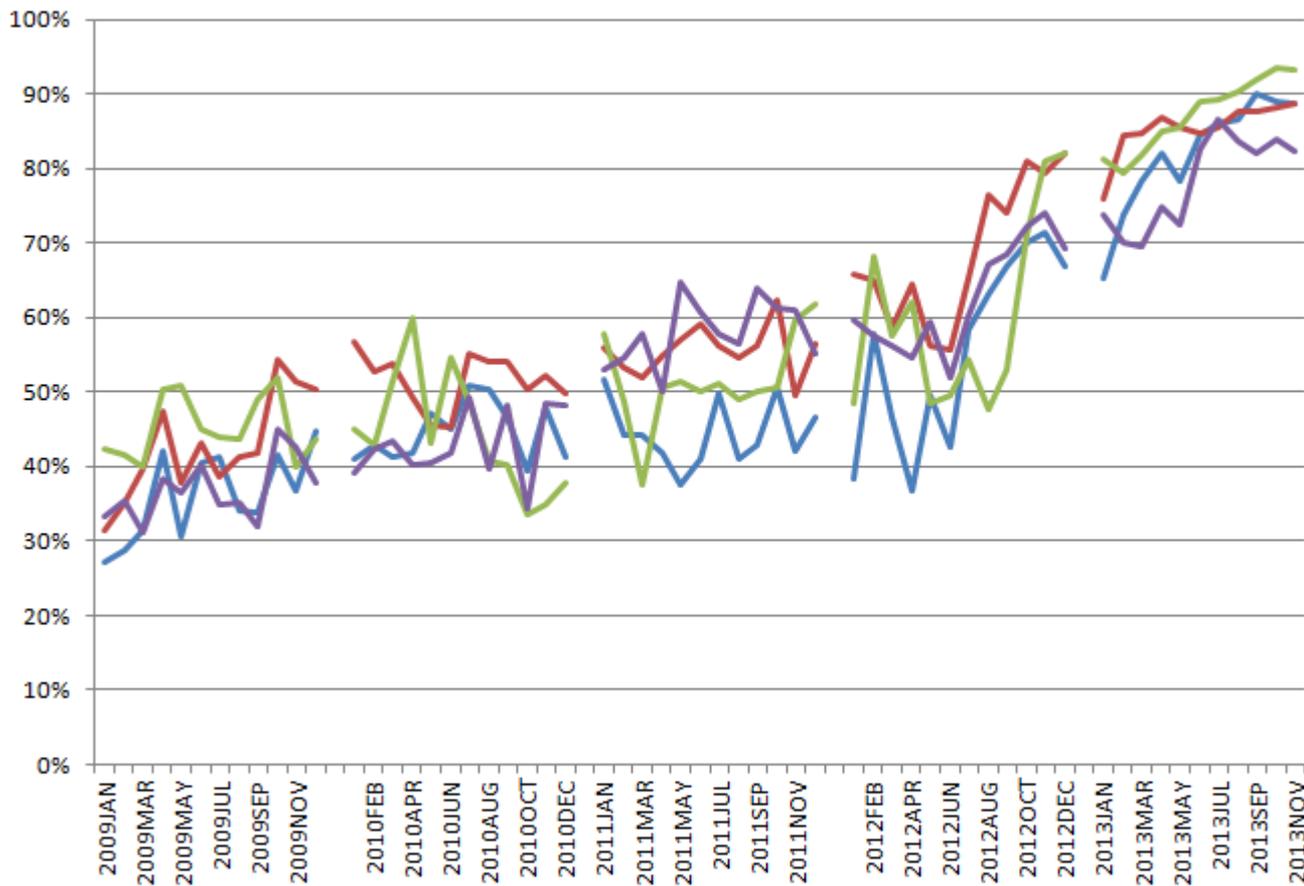
Rates clearing

Central clearing – OTC timeline



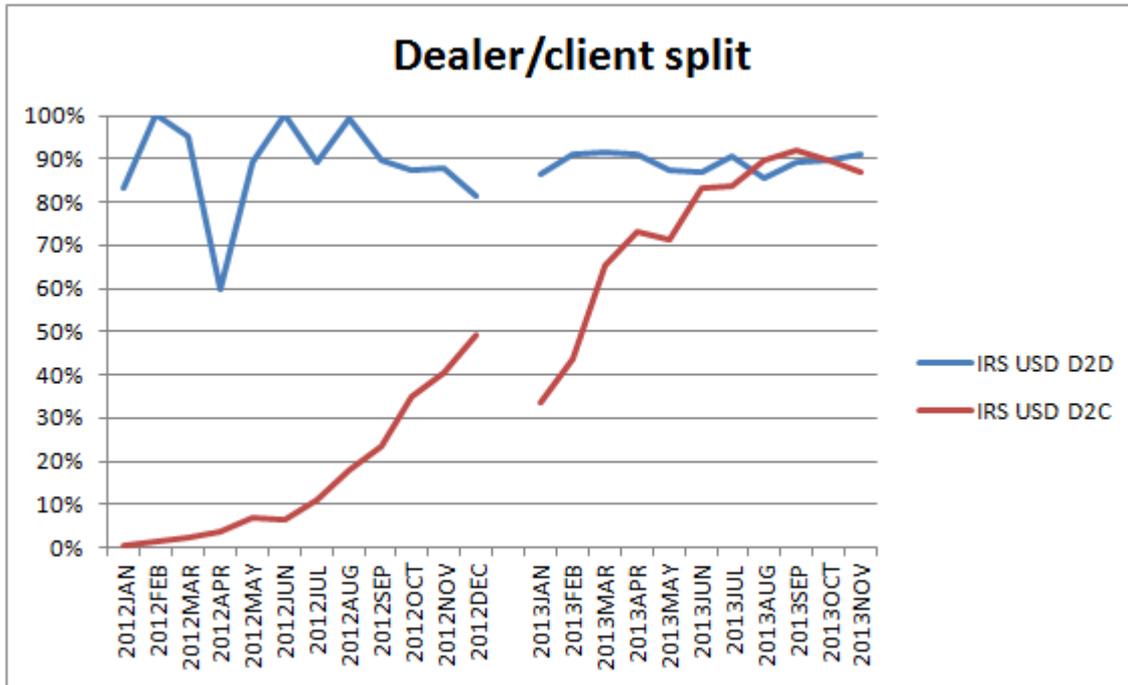
Central clearing

Percentage of new activity cleared $\leq T+10$ - IRS



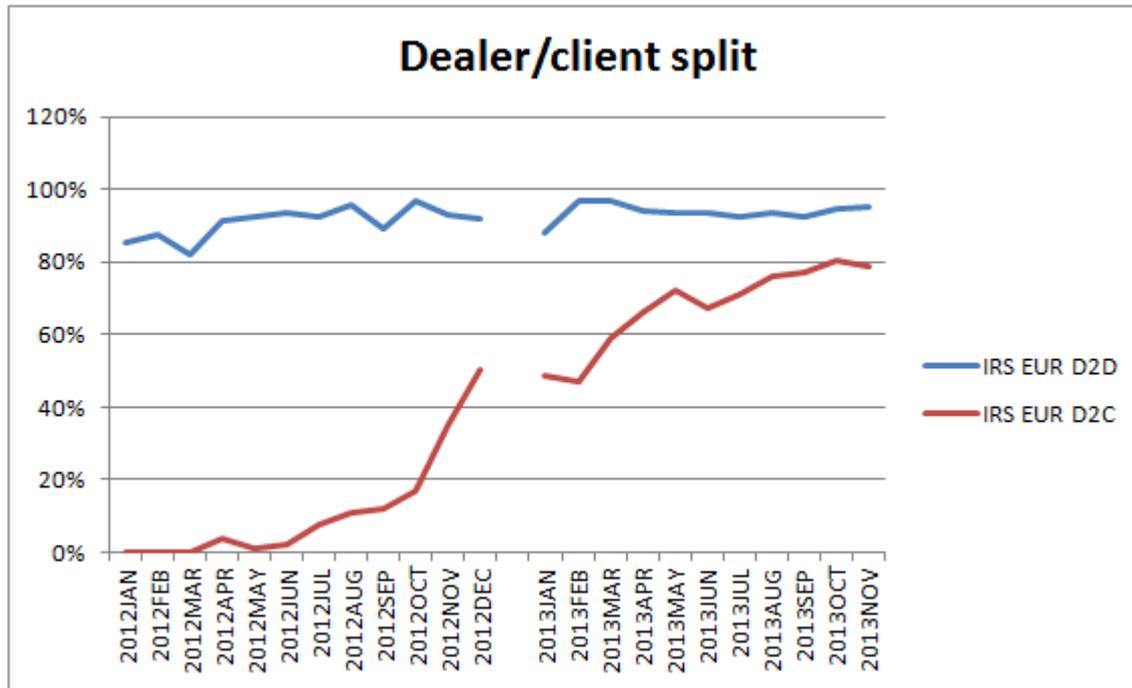
- USD IRS
- EUR IRS
- JPY IRS
- GBP IRS

Central clearing



Percentage of Dealer to Dealer (D2D) volume cleared, compared to % of Dealer to Client (D2C) volume cleared during last two years, for USD Interest Rate Swaps (notional amount)

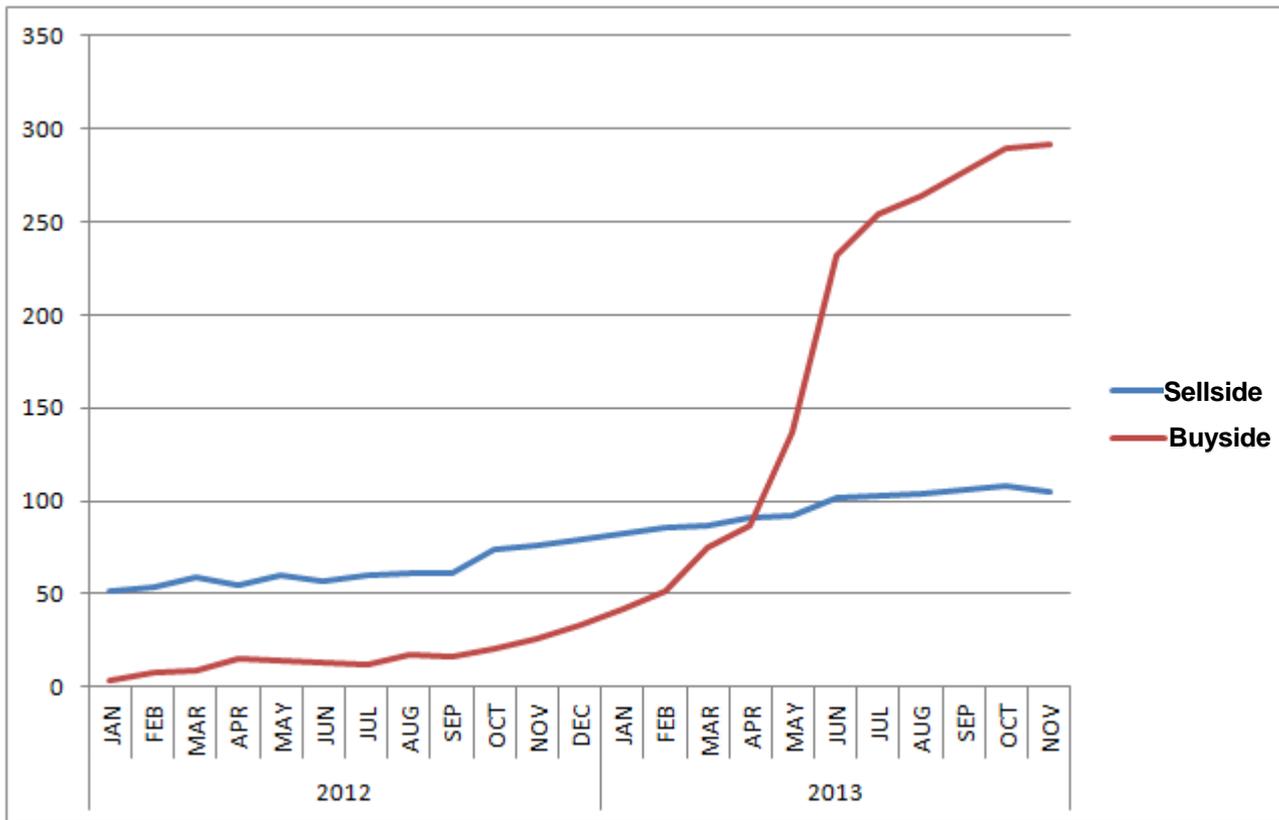
Central clearing



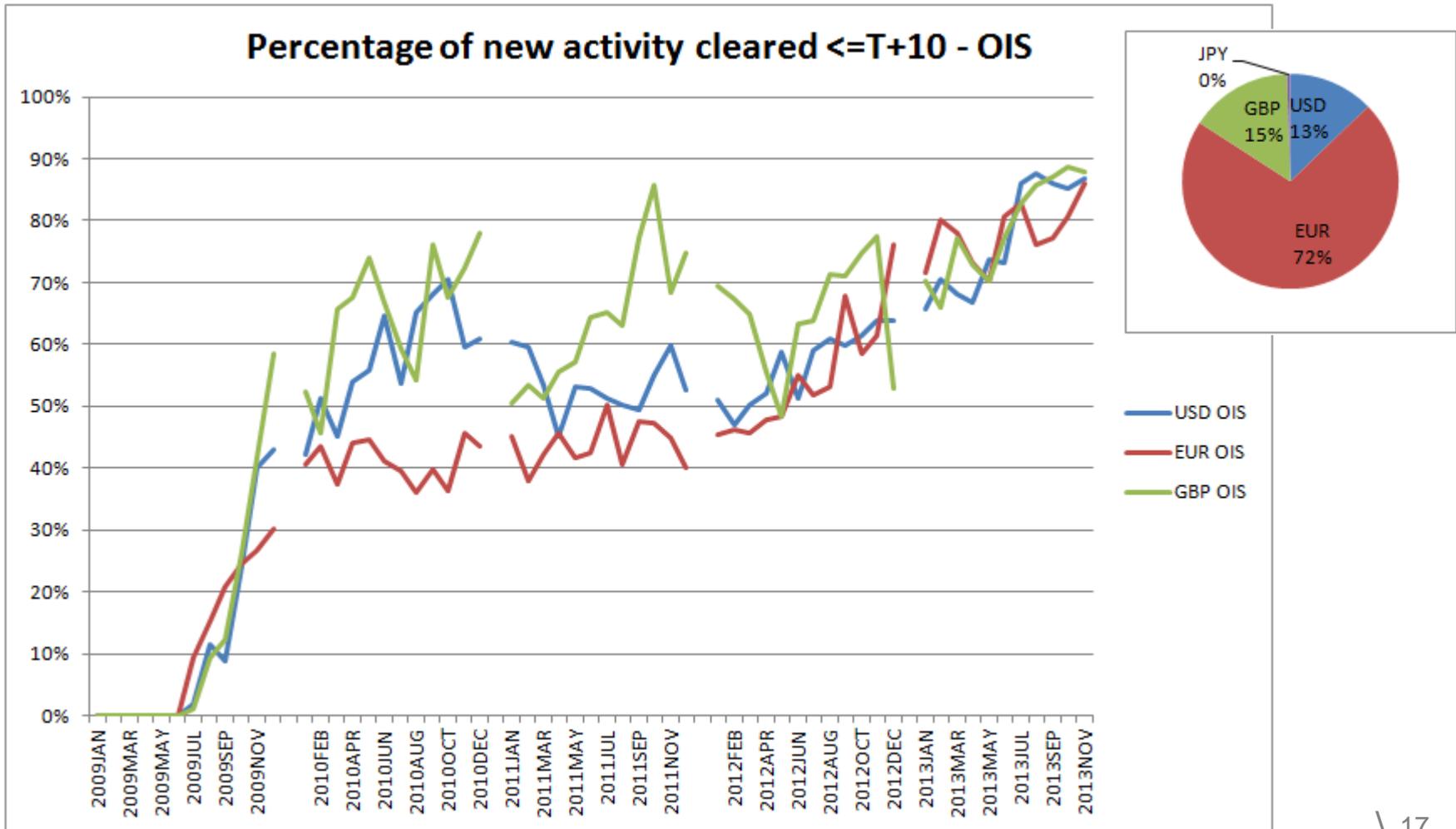
Percentage of Dealer to Dealer (D2D) volume cleared, compared to % of Dealer to Client (D2C) volume cleared during last two years, for EUR Interest Rate Swaps (notional amount)

Central clearing

Number of participants (group level) which cleared OTC rates trades per month

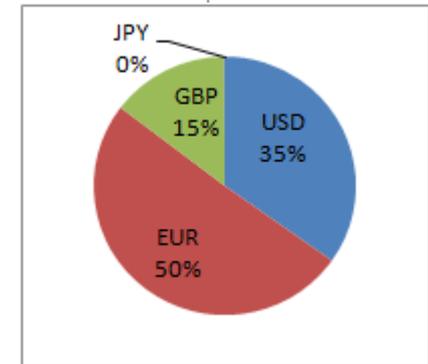
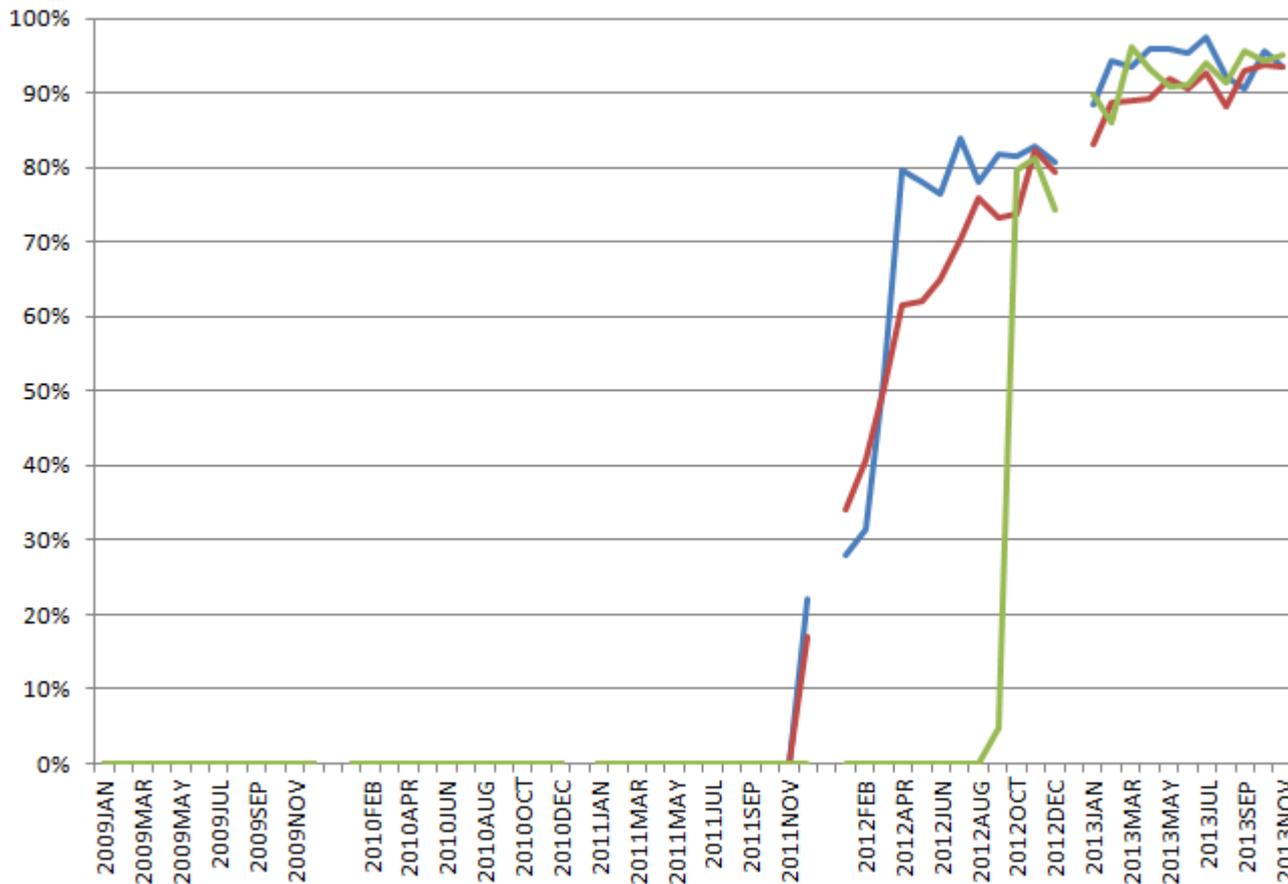


Central clearing



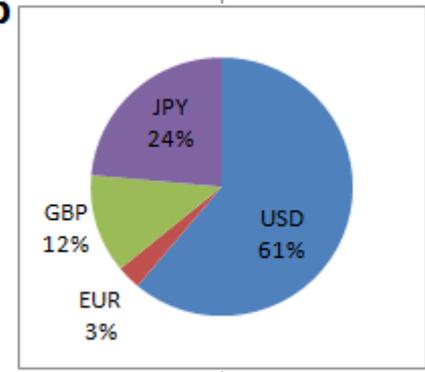
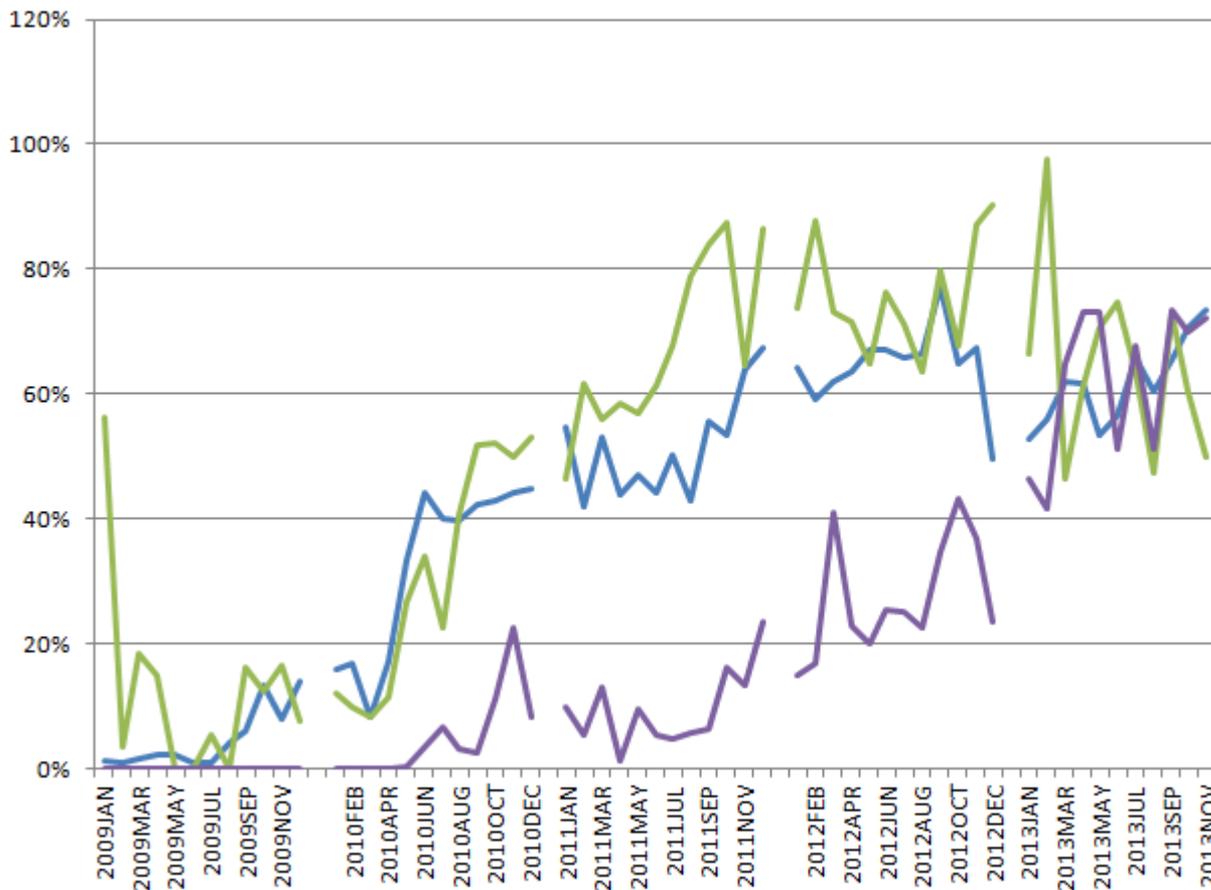
Central clearing

Percentage of new activity cleared $\leq T+10$ FRA

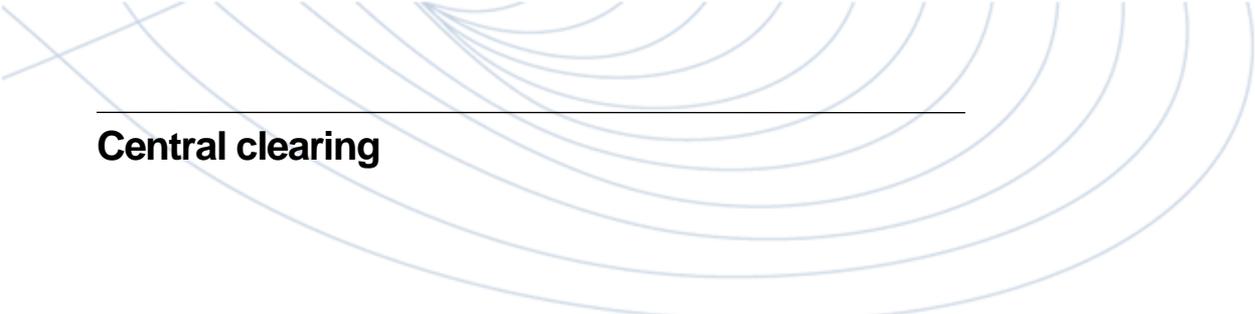


- USD FRA
- EUR FRA
- GBP FRA

Percentage of new activity cleared $\leq T+10$ - Basis Swap



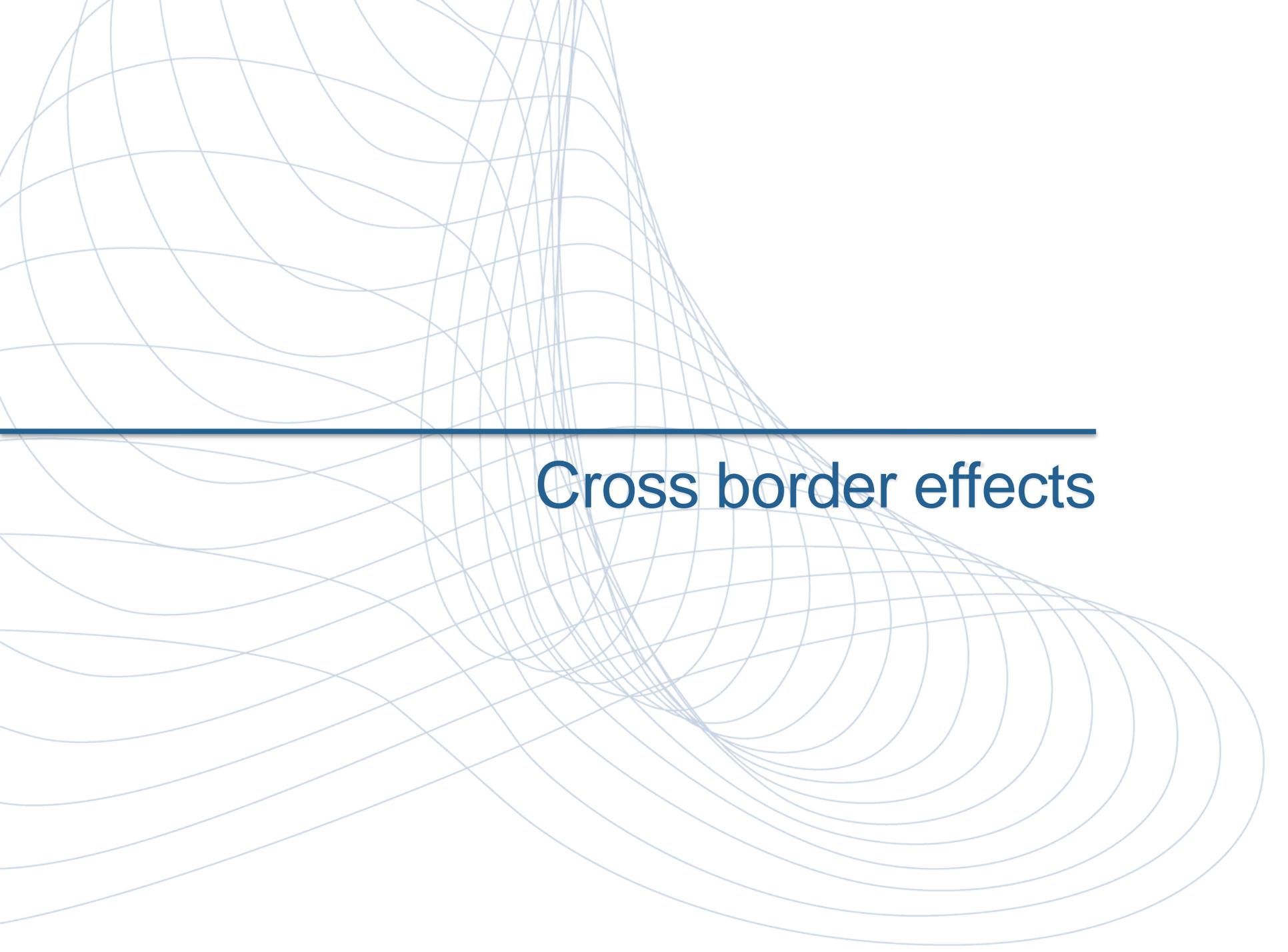
- USD Basis Swap
- GBP Basis Swap
- JPY Basis Swap



Central clearing

markit[®]

- Clearing charts show percentage of notional amount (local currency) where trades are cleared within 10 days of recorded trade date, based on trades processed by Markit derivatives processing (MarkitWire)
- Generally will exclude backloading, novations, compression activity

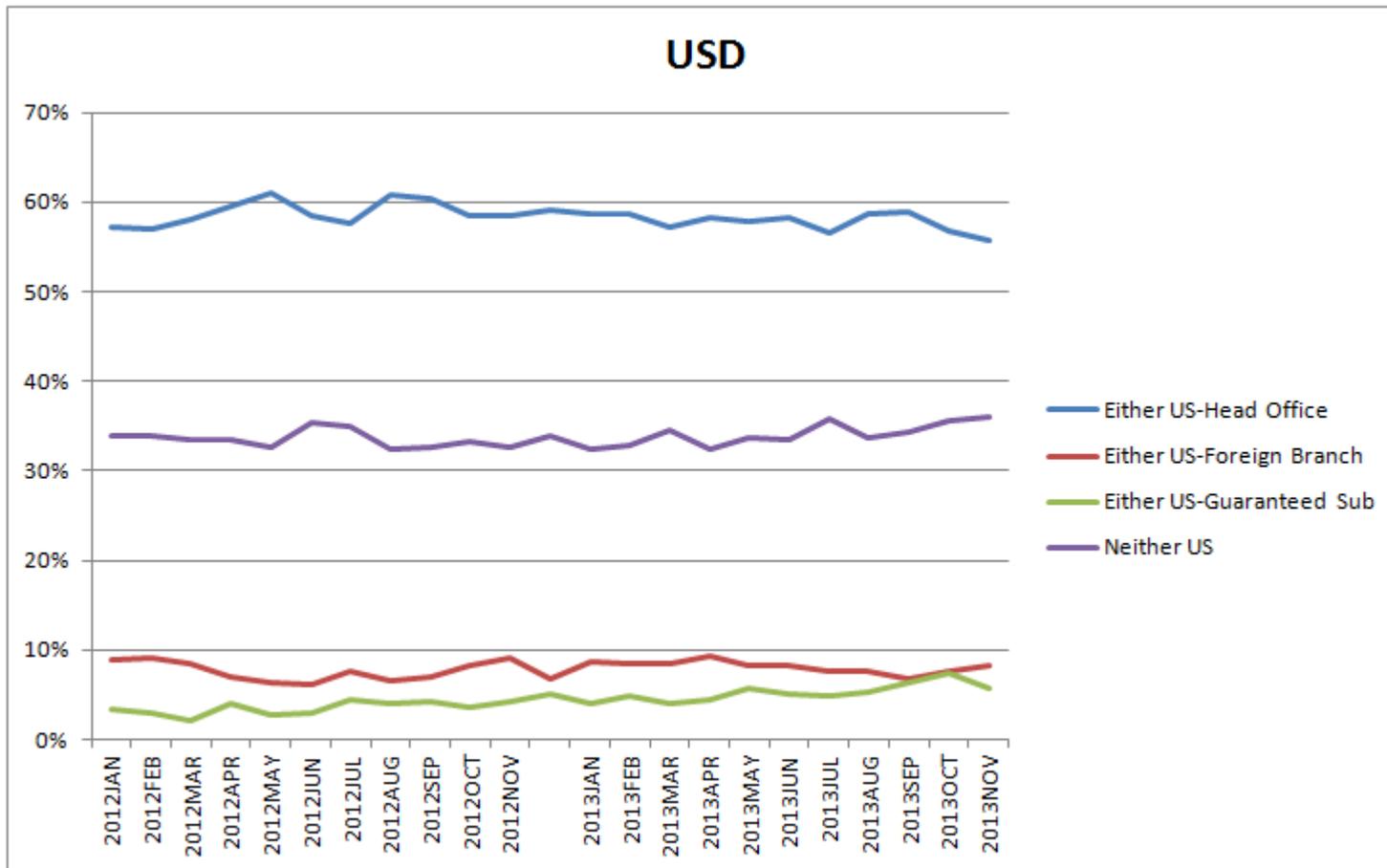


Cross border effects

Cross border effects

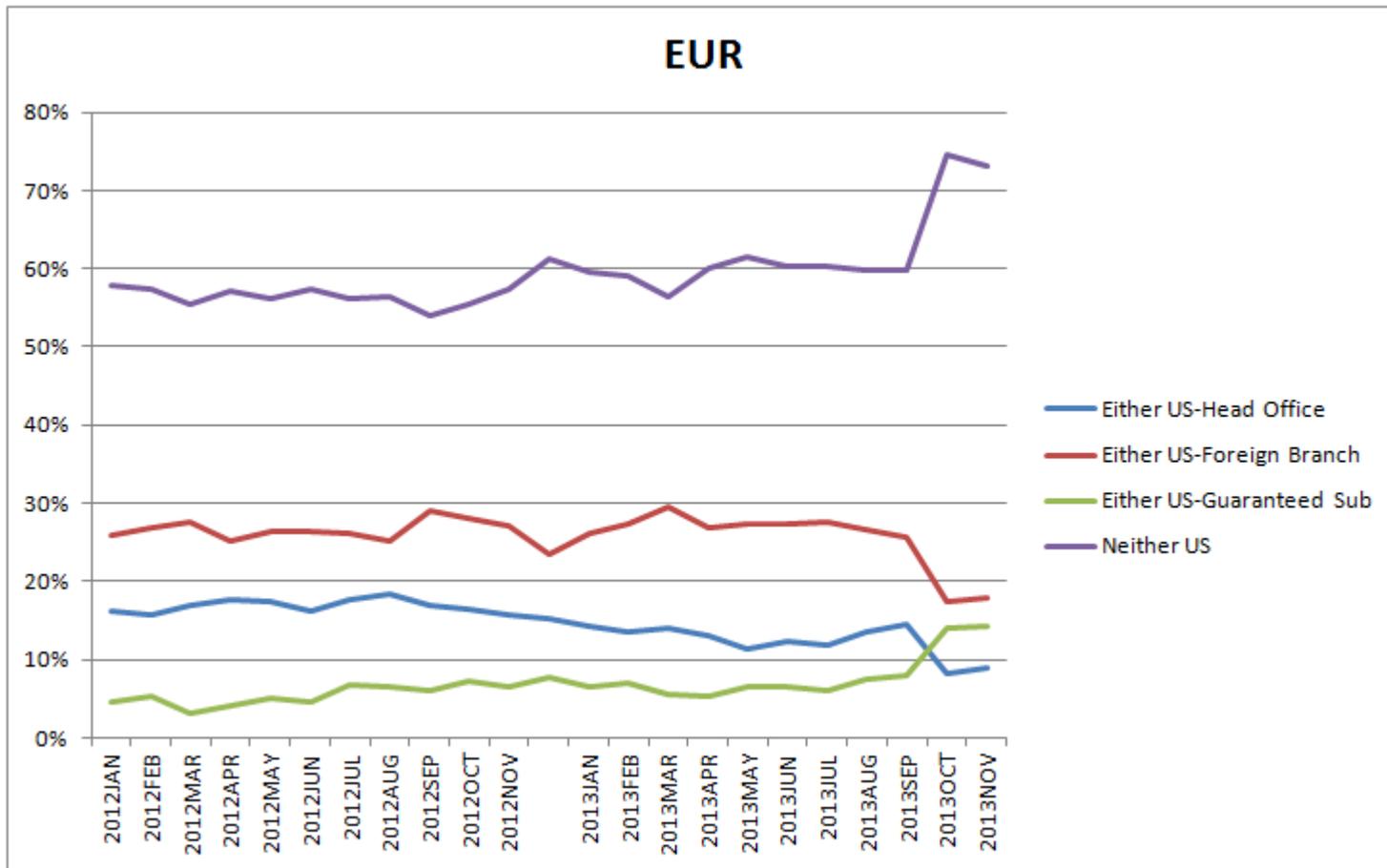
Interest rates products – USD – Percentage of trades booked with either side entity type being one of four types

(source: trades processed by Markit derivatives processing)



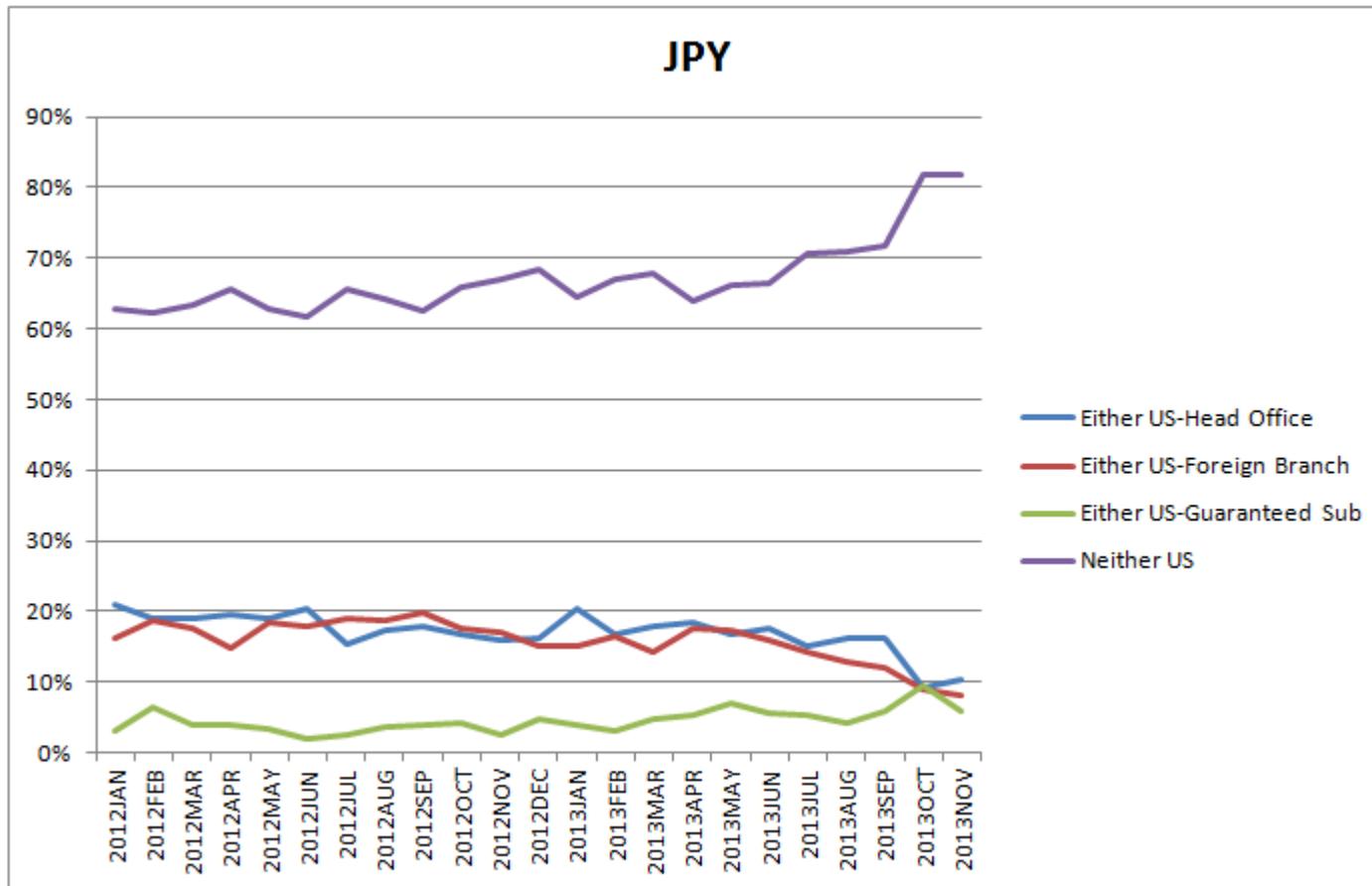
Cross border effects

Interest rates products – EUR – Percentage of trades booked with either side entity type being...



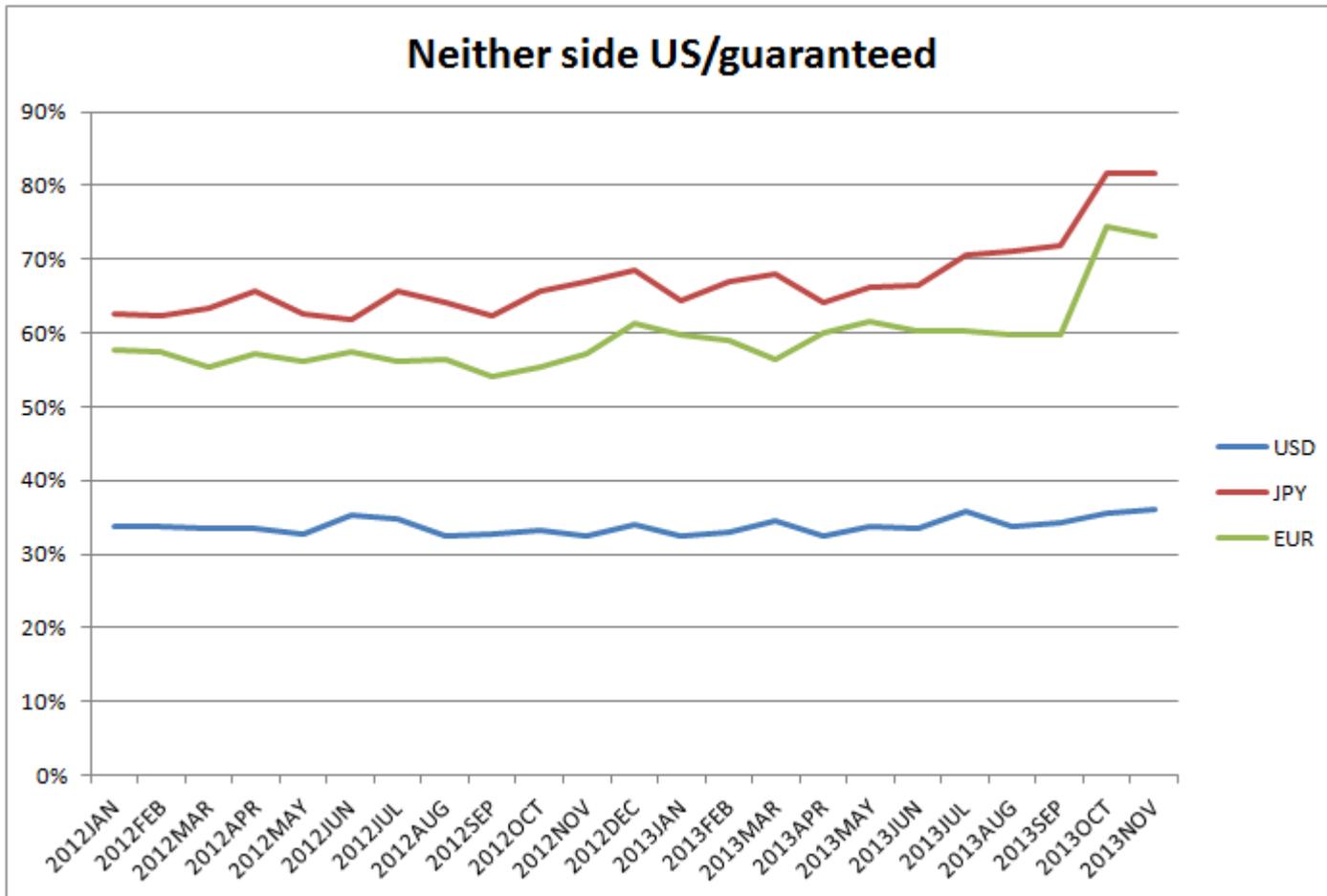
Cross border effects

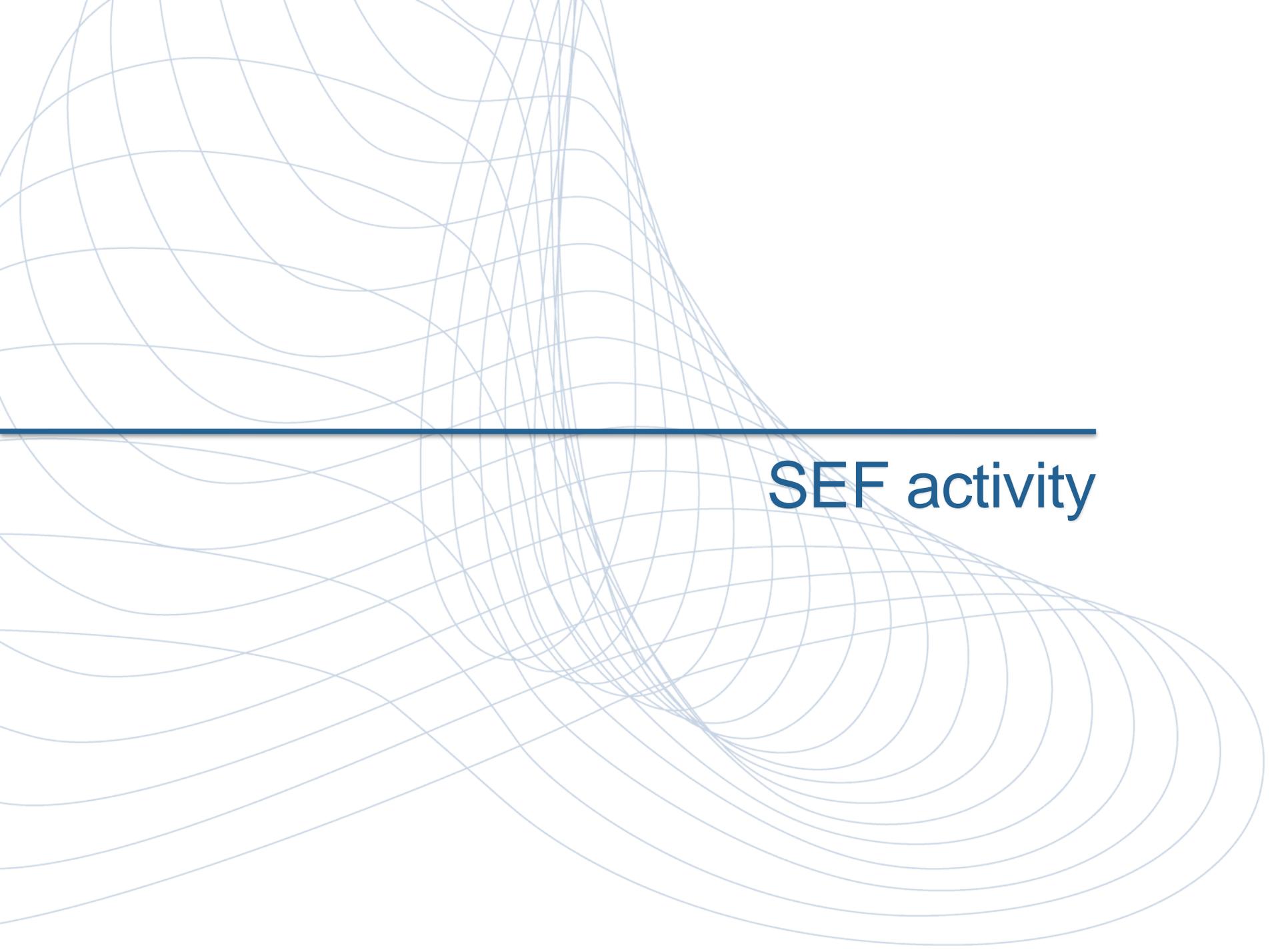
Interest rates products – JPY – Percentage of trades booked with either side entity type being...



Cross border effects

Interest rates products – Percentage of trades being booked with neither side US entity or US guaranteed sub – by currency

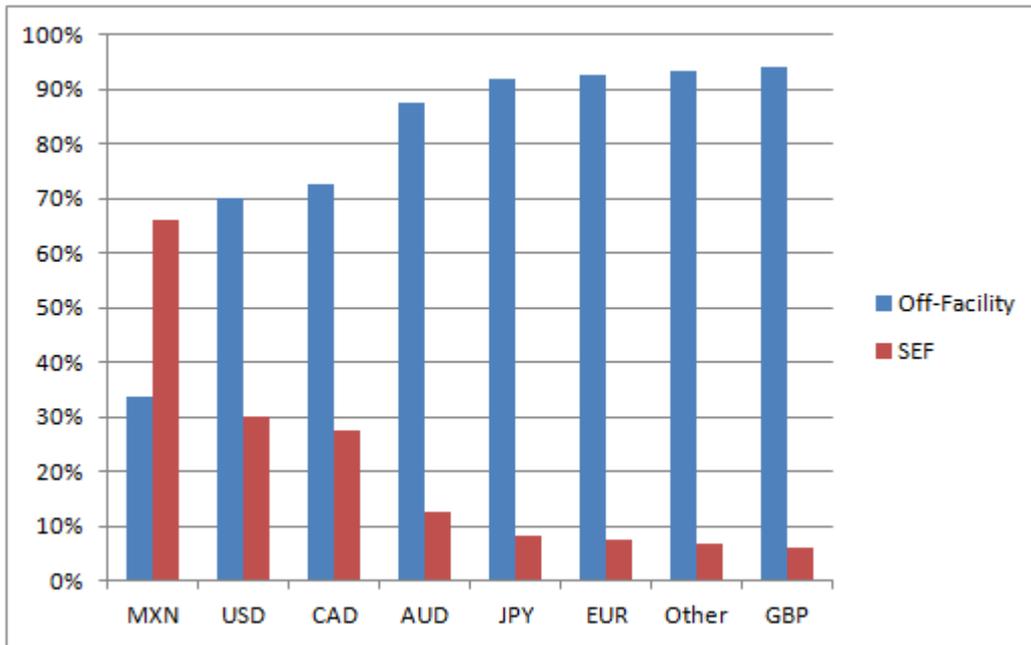




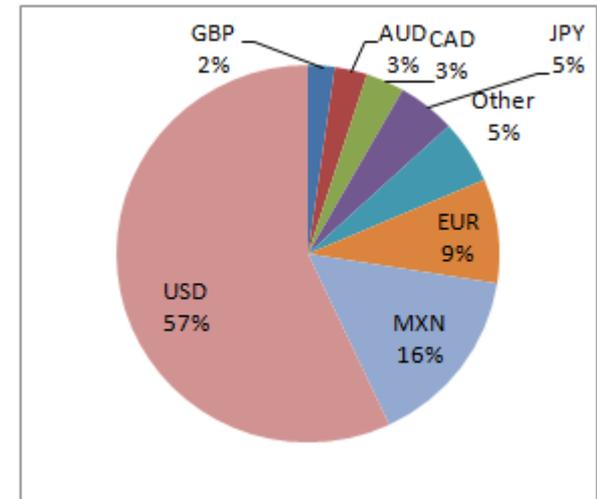
SEF activity

SEF Activity

Percentage of new IRS trades booked on SEF vs. off-facility



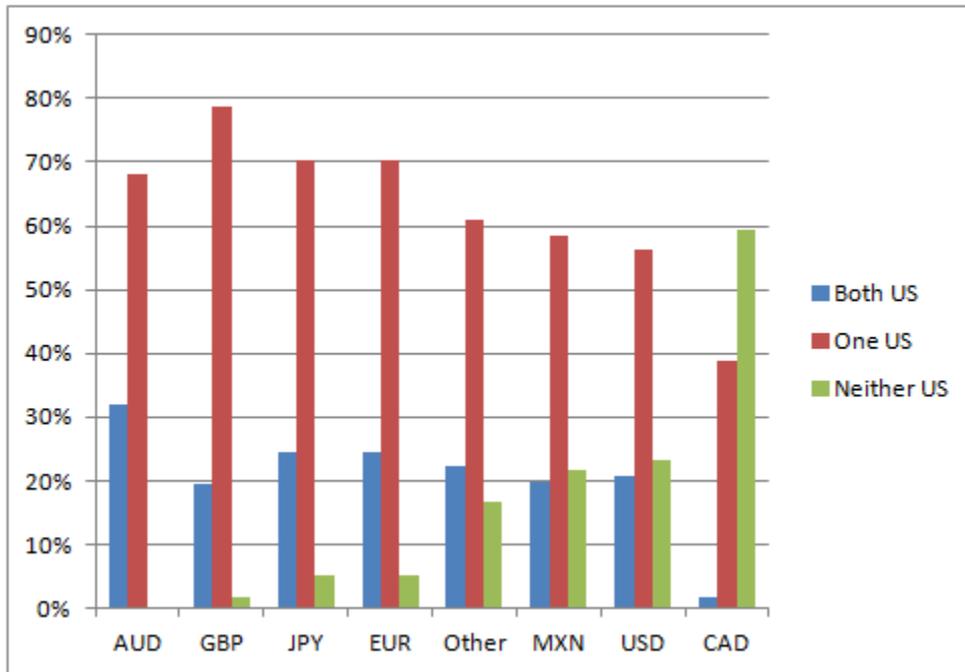
SEF trade count by currency

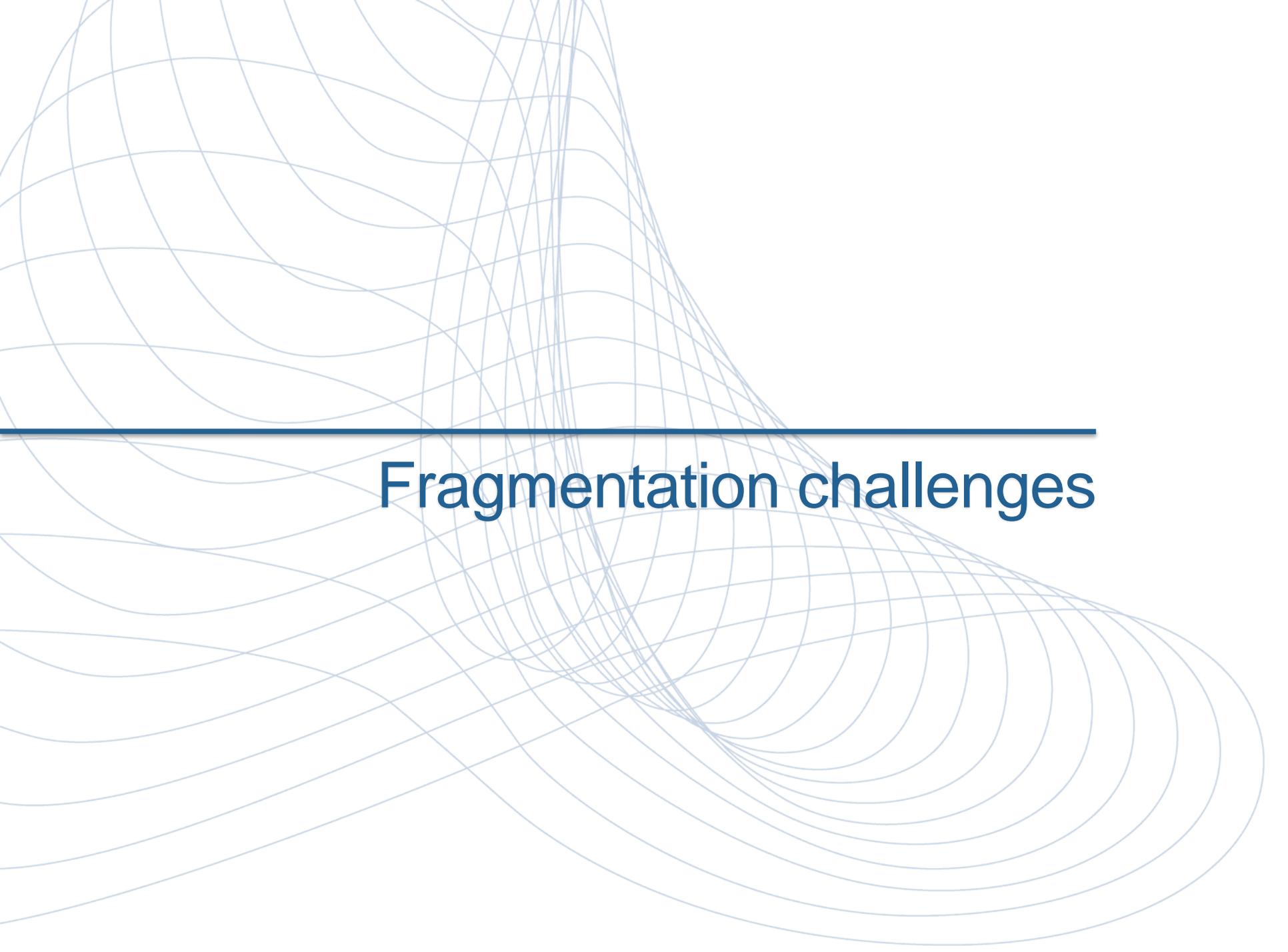


Source: Interest rates swaps transacted week of December 2nd 2013, processed via Markit

SEF Activity

Percentage of SEF trades (processed by Markit) where one, both or neither party is a US entity





Fragmentation challenges

The Committee on Payment and Settlement Systems (CPSS) and the Technical Committee of the International Organization of Securities Commissions (IOSCO) have published their final report on the OTC derivatives data that should be collected, stored and disseminated by trade repositories (TRs)

- By outlining a global framework for access and storage of data the intent is to allow efficient aggregation of global OTC derivatives data reported to TRs.
- However, difficulties remain...

Each regime has adopted differing rules causing data fragmentation

- The same trades are reported multiple times due to overlapping regulations, these are reported to
 - Multiple TRs
 - With differing identifiers (Unique Trade Identifier)
 - Containing differing data fields
 - And are reported at different levels (entity versus branch)

Different regimes have different TRs but also some regimes have approved multiple TRs, each with their own rulebooks and formats

Regime	ASIC	CFTC	ESMA	HKMA	JFSA	MAS
TRs	DTCC	DTCC	DTCC**	HKTR	DTCC*	DTCC
		CME	CME			
		ICE	ICE			
			REGIS-TR			
			Univista			
			KDPW			

* Firms can also report direct to JFSA

** Separate infrastructure to the main GTR

Different trade identifiers are used across the various regimes

Regime	Dodd Frank USI	Bilaterally Agreed UTI	Internal Trade Reference
ASIC		✓	
CFTC	✓		
ESMA		✓	
HKMA	✓		✓
JFSA			✓
MAS		✓	✓
SEC	✓		
✓	If applicable		
✓	required		

Each regime requires a different data set rather than following the CPSS-IOSCO guidelines

- CFTC requires “all the terms of the trade”
- ESMA follows CPSS-IOSCO guidelines more closely

Each regime requires a different level of reporting

- CFTC, ASIC, MAS, HKMA require entity level reporting
- ESMA and JFSA require branch level reporting, albeit using different branch identifiers BIC (JFSA) and Country Code (ESMA)

markit[®] mines data
pools intelligence
surfaces information
enables transparency
builds platforms
provides access
scales volume
extends networks
& transforms business.

Disclaimer

The information contained in this presentation is confidential. Any unauthorised use, disclosure, reproduction or dissemination, in full or in part, in any media or by any means, without the prior written permission of Markit Group Holdings Limited or any of its affiliates ("Markit") is strictly prohibited.

Opinions, statements, estimates and projections in this presentation (including other media) are solely those of the individual author(s) at the time of writing and do not necessarily reflect the opinions of Markit. Neither Markit nor the author(s) has any obligation to update this presentation in the event that any content, opinion, statement, estimate or projection (collectively, "information") changes or subsequently becomes inaccurate.

Markit makes no warranty, expressed or implied, as to the accuracy, completeness or timeliness of any information in this presentation, and shall not in any way be liable to any recipient for any inaccuracies or omissions. Without limiting the foregoing, Markit shall have no liability whatsoever to any recipient, whether in contract, in tort (including negligence), under warranty, under statute or otherwise, in respect of any loss or damage suffered by any recipient as a result of or in connection with any information provided, or any course of action determined, by it or any third party, whether or not based on any information provided.

The inclusion of a link to an external website by Markit should not be understood to be an endorsement of that website or the site's owners (or their products/services). Markit is not responsible for either the content or output of external websites.

Copyright ©2013, Markit Group Limited. All rights reserved and all intellectual property rights are retained by Markit.