

# **Liquid Cross Border Flows**

# **Explaining USD resilience**

### Key takeaways

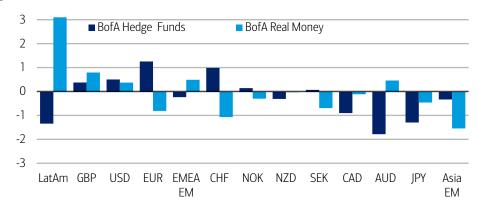
- USD resilience last week despite lower bond yields & higher equities in line with modest investor buying
- A notable change vs 4Q is that Hedge Funds have been buying both EUR and GBP
- EM FX flows mixed across regions, with Real Money Asia selling and LatAm buying standing out

### USD resilience in line with our investor flows

Although US bond yields fell and equities rose last week, USD showed resilience, in line with the modest buying from BofA investors (Exhibit 1). Investors continued selling JPY, AUD, and Asia EM, while they supported GBP, EUR, LatAm, in line with price action.

### Exhibit 1: BofA weekly flows, 2-year z-score

Although US bond yields fell and equities rose last week, USD showed resilience, in line with our flows



Source: BofA Securities. Currencies ranked by the sum of weekly z-scores across Hedge Funds and Real Money.

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Data Analytics



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Refer to important disclosures on page 6 to 8.

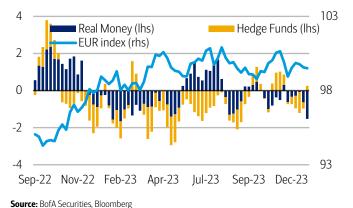
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### Hedge Fund pressure on EUR & GBP has eased

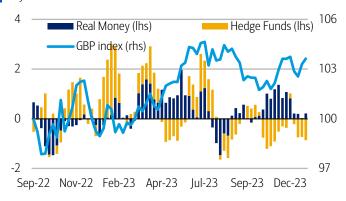
While both Hedge Funds and Real Money sold the EUR in '23, their flows have diverged in '24, with Real Money continuing selling but Hedge Funds buying EUR (Exhibit 7). We find this in line with Real Money being slightly long EUR and Hedge Funds short (Exhibit 9), as well as with the recovering EUR sentiment (FXRS 12 Jan 24).

Meanwhile, GBP flows have improved, again mainly because the pressure by Hedge Funds at year-end has eased (Exhibit 1, Exhibit 3). Carry makes us more constructive on GBP (see GBP in '24 15 Jan 24), and we are long GBPSEK (Buy GBPSEK 12 Jan 24).

# **Exhibit 2: BofA invevstor 4-week EUR flows (z-score) and EUR TWI**Both Hedge Funds and Real Money sold the EUR in '23, their flows have diverged in '24



**Exhibit 3: BofA invevstor 4-week GBP flows (z-score) and GBP TWI**GBP flows have improved, mainly because the pressure by Hedge Funds seen at year-end has eased



**Source:** BofA Securities, Bloomberg

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## EM FX: Real Money LatAm buying vs Asia selling

EM FX flows were mixed across regions last week, with the Real Money LatAm buying LatAm and Asia selling standing out (Exhibit 4, Exhibit 6). In Asia, Real Money sold KRW, TWD, CNH, MYR, but bought INR and CNY (Exhibit 8). In LatAm, Real Money bought MXN and BRL, while Hedge Funds sold PEN and CLP. In EMEA, net flows stayed light (Exhibit 5) but we saw an acceleration in Hedge Funds' HUF buying and TRY selling, and in Real Money's ILS selling.

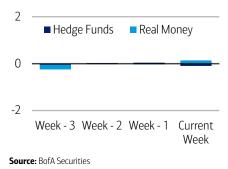
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# **Exhibit 4: BofA Asia EM FX indexed flow** Real Money continued selling Asia EM FX

2 Hedge Funds Real Money
0 Week - 3 Week - 2 Week - 1 Current Week
Source: BofA Securities

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### **Exhibit 5: BofA EMEA EM FX indexed flow** Net EMEA EM FX flows were light



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#### Exhibit 6: BofA LatAm indexed flow

Real Money's MXN and BRL buying stood out



Source: BofA Securities

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#### For more information and data files on flows and positioning, please see

<u>Liquid Cross Border Flows: Flows data 15 January 2024</u>
<u>Liquid Cross Border Flows: Positioning data 15 January 2024</u>
<u>Liquid Cross Border Flows: Charts and Tables 15 January 2024</u>



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# **Snapshot of flows**

### Exhibit 7: Snapshot G10 FX flows (z-score)

BofA proprietary FX flows in the past four weeks

	Total				Corporate					Official				Hedge funds				Real money			
	t-3	t-2	t-1	t	t-3	t-2	t-1	t	t-3	t-2	t-1	t	t-3	t-2	t-1	t	t-3	t-2	t-1	t	
USD	-0.41	1.17	0.46	0.03	-0.76	1.34	-0.70	-0.42	0.45	0.16	-0.02	-0.04	-0.12	0.60	-0.39	0.50	0.40	-0.74	2.42	0.37	
EUR	0.16	-1.75	0.20	0.38	0.81	-2.10	0.99	0.42	-0.18	0.25	0.23	0.53	-0.41	-1.42	1.07	1.25	-0.81	0.65	-1.99	-0.81	
JPY	-0.99	-0.15	-0.84	-0.92	-0.96	-0.16	0.76	0.15	-0.25	-0.14	-0.70	-0.37	-0.37	0.05	-0.60	-1.30	-0.42	-0.08	-0.91	-0.46	
GBP	-0.81	-0.11	-0.10	0.69	-0.21	0.12	-0.27	-0.04	-0.08	0.11	0.43	0.24	-1.03	-1.25	0.13	0.38	-0.41	0.25	-0.13	0.79	
CAD	0.29	-0.42	-0.39	0.36	-0.75	-1.12	-0.13	0.49	-0.18	-0.33	-0.44	0.83	1.59	0.17	-0.01	-0.90	0.44	0.43	-0.10	-0.12	
AUD	0.92	-0.94	-0.14	-0.11	1.90	-0.08	0.01	-0.11	-0.29	-0.17	-0.02	1.25	-0.07	-0.29	-0.41	-1.79	-0.05	-0.86	0.00	0.46	
NZD	-0.54	-0.59	0.74	-0.51	-2.92	0.23	0.18	-1.38	-0.14	-0.16	0.83	-0.37	0.56	-0.33	0.10	-0.31	-0.45	-0.48	0.62	-0.03	
CHF	1.39	0.73	0.40	-0.40	0.70	0.31	0.06	0.00	-0.14	-0.26	-0.24	-0.44	0.86	-1.72	1.30	0.99	0.51	1.65	-0.23	-1.07	
NOK	-1.06	-0.85	-0.26	0.40	-0.65	-0.59	0.75	1.33	0.07	0.17	0.24	0.20	-0.76	-0.88	-0.33	0.14	-0.35	-0.03	-0.44	-0.30	
SEK	0.55	-0.87	-0.54	-2.13	0.66	-0.86	-0.25	-1.87	0.00	-0.02	0.03	0.02	1.54	-0.19	-0.40	0.07	-0.88	-0.04	-0.22	-0.70	
G10-xUSD	-0.05	-1.80	-0.23	0.05	0.65	-1.79	0.80	0.26	-0.33	-0.05	-0.04	0.85	-0.11	-1.66	0.47	-0.18	-0.84	0.47	-1.84	-0.60	
Asia	0.66	0.45	-0.65	-1.09	0.94	0.58	0.33	0.16	-0.44	-0.36	-0.08	-1.18	0.15	0.58	0.25	-0.33	0.35	-0.30	-2.58	-1.55	
EMEA	-0.15	-0.21	0.14	0.54	0.94	-1.56	0.06	1.81	0.10	-0.09	-0.10	-0.28	-0.02	0.34	0.42	-0.24	-0.54	-0.02	-0.04	0.49	
LatAm	0.73	1.11	-0.07	1.63	-1.14	0.09	-0.48	0.92	1.02	0.97	1.14	0.59	0.17	-0.19	-0.53	-1.34	1.87	1.79	0.49	3.11	

Source: BofA Securities

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### **Exhibit 8: Snapshot of EM Flows (Z-score)**

BofA proprietary FX flows in the past four weeks

both proprietary that we past rout weeks																					
	Total				Corporate				Official					Hedge funds				Real money			
	t-3	t-2	t-1	t	t-3	t-2	t-1	t	t-3	t-2	t-1	t	t-3	t-2	t-1	t	t-3	t-2	t-1	t	
LatAm	0.73	1.11	-0.07	1.63	-1.14	0.09	-0.48	0.92	1.02	0.97	1.14	0.59	0.17	-0.19	-0.53	-1.34	1.87	1.79	0.49	3.11	
BRL	0.93	1.42	-0.18	1.06	-0.80	0.39	-0.06	-0.01	0.23	-	0.28	-	1.55	-0.36	-0.91	-0.27	1.35	2.61	0.46	2.27	
MXN	-1.03	0.01	-0.11	2.66	-0.76	-0.36	-1.16	1.92	1.64	1.42	0.33	0.44	-1.11	-0.08	0.64	-0.96	-0.38	-0.01	0.06	2.85	
CLP	-0.50	-0.17	-0.26	-0.65	0.12	-0.95	0.13	0.66	0.01	0.01	-0.21	0.14	-1.22	-0.16	-0.19	-1.27	0.37	0.29	-0.22	-0.02	
COP	-1.16	0.24	0.32	0.24	-0.80	0.42	0.45	-0.35	0.07	-	0.82	0.38	0.04	-0.06	-0.27	0.12	-1.38	0.10	0.04	0.16	
PEN	4.00	0.59	0.70	-0.62	-0.72	0.35	-0.21	0.44	0.16	0.16	3.96	-	0.99	0.79	-0.65	-1.51	4.00	0.11	0.81	0.08	
ARS	0.00	0.00	0.00	0.01	0.30	0.29	0.30	0.27	-	-	-	-	0.24	0.24	0.24	0.24	-0.23	-0.23	-0.23	-0.21	
Asia	0.66	0.45	-0.65	-1.09	0.94	0.58	0.33	0.16	-0.44	-0.36	-0.08	-1.18	0.15	0.58	0.25	-0.33	0.35	-0.30	-2.58	-1.55	
CNY	0.18	-0.31	-0.61	0.33	-0.29	-0.56	0.28	0.44	0.57	0.04	-	-1.03	-0.29	-0.29	2.56	1.76	0.47	0.37	-3.98	1.40	
CNH	0.23	0.14	-0.33	-1.49	-0.15	0.04	-0.48	-1.17	-0.52	-0.01	1.07	1.06	0.43	0.24	-0.11	-0.77	0.19	-0.21	-0.57	-1.13	
INR	0.46	0.14	-0.15	0.47	2.25	1.26	-0.15	-0.09	-0.51	-0.52	-0.51	-0.51	-0.93	-0.13	0.78	1.00	0.12	-0.18	0.02	1.43	
KRW	0.51	0.32	-0.71	-0.59	0.30	0.30	0.53	0.83	0.02	0.28	0.57	-4.00	0.13	-0.04	-0.79	0.04	0.75	0.21	-3.02	-2.29	
IDR	0.14	0.15	-0.94	-0.56	0.70	0.78	0.14	0.04	0.12	-	-	0.12	-0.11	0.01	-0.56	-0.75	-0.11	-0.20	-0.81	-0.27	
MYR	-1.24	-0.77	-2.85	-0.75	-1.37	-0.62	-0.08	0.14	0.59	0.28	2.49	-	0.26	0.09	-0.04	-0.06	-0.22	-0.38	-3.78	-1.12	
SGD	0.23	0.00	-0.01	-0.32	0.62	-0.51	0.17	-1.01	0.06	0.66	0.05	0.06	-0.06	0.59	0.28	-0.03	0.13	-0.85	-0.49	-0.04	
TWD	0.17	0.74	1.33	-1.27	0.64	0.12	0.82	0.25	-	0.15	-0.12	-	0.52	1.28	0.58	-0.16	-0.65	-0.14	0.79	-1.80	
THB	0.02	1.27	0.26	-0.09	-1.16	1.26	0.97	1.75	-0.03	-0.22	-0.06	-0.33	0.22	0.38	0.62	-0.40	0.52	0.99	-0.67	-0.57	
EMEA	-0.15	-0.21	0.14	0.54	0.94	-1.56	0.06	1.81	0.10	-0.09	-0.10	-0.28	-0.02	0.34	0.42	-0.24	-0.54	-0.02	-0.04	0.49	
TRY	0.40	-0.25	0.15	-0.98	0.36	0.12	0.24	0.31	-0.26	-0.28	-0.27	-0.29	-0.61	-0.75	-0.58	-2.24	0.76	-0.05	0.42	-0.31	
HUF	-0.89	-0.53	0.30	1.65	-0.81	-1.54	0.13	0.17	-0.18	0.19	0.19	-0.76	0.89	0.30	0.94	2.36	-1.17	-0.23	-0.15	0.83	
PLN	0.53	0.26	0.00	0.77	1.60	-0.34	0.64	0.36	1.52	0.25	0.26	-0.48	-0.34	0.44	-0.17	-0.02	0.15	0.19	-0.16	0.90	
ILS	-0.43	-0.01	-0.65	0.10	-0.31	-0.65	-0.09	3.58	-0.14	-0.16	-0.17	-0.17	0.30	0.71	-0.28	-0.31	-0.81	-0.04	-0.83	-1.63	
CZK	0.17	-0.78	0.46	-0.46	0.61	-0.96	-0.73	-0.69	0.16	0.16	0.16	0.16	0.08	-0.05	1.00	-0.30	-0.16	-0.72	0.07	-0.08	
ZAR	-0.48	0.20	0.13	-0.21	-0.26	-0.06	-0.36	0.36	-0.03	-0.11	-0.10	-0.10	-0.36	-0.11	-0.17	-0.67	-0.31	0.38	0.40	0.13	
KEY:																	,				
	Z > 2			2 > Z > 1.5 1.5 > Z > 1			1 > Z > -1				-1 > Z > -1.5 -1.5 > Z > -2				Z < -2						

**Source:** BofA Securities; Note: The z-score is calculated as the weekly flow minus the 2-year average flow, divided by the 2-year standard deviation of flows. A positive (negative) number does not necessarily suggest buying (selling), as it is expressed relative to the 2-year average flow and depends on whether the latter is a positive or a negative number. In this context, the arrows indicate whether our flow, and not the z-score, is positive or negative, suggesting buying or selling. Weeks with no flow are marked with '-'.

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# **Positioning Scorecard**

## **Exhibit 9: G10 FX Positioning Scorecard**

50 (-50) represents a max long (short) positioning relative to history

Currency	BofA HF	BofA RM	FXRS	сот	TFF LF	TFF AM	EPFR	Aggregate Positioning Signal	Change in positioning	MAAI	Breadth
NOK	31	11	24	=	=	=	41	22	$\downarrow$	7	<b>↑</b> ↑
EUR	-9	8	-8	15	3	45	26	8	<b>†</b>	-3	$\leftrightarrow$
GBP	22	23	-13	14	15	-28	44	4	<b>↑</b>	0	$\leftrightarrow$
JPY	11	15	14	-23	-25	3	48	4	$\downarrow$	-8	$\downarrow\downarrow$
AUD	-8	27	18	-20	4	-34	48	1	$\downarrow$	-1	$\leftrightarrow$
CAD	15	-11	-14	-4	-20	7	49	-4	<b>†</b>	-4	$\downarrow$
USD	17	-4	-4	-8	2	-34	50	-5	<b>†</b>	-8	$\downarrow\downarrow$
SEK	8	-21	-7	-	-	-	37	-7	$\downarrow$	6	<b>↑</b>
CHF	-11	-24	-	-8	-2	-1	41	-9	<b>†</b>	8	$\uparrow \uparrow$
NZD	-22	-31	9	-3	6	-11	47	-10	$\downarrow$	3	$\leftrightarrow$

Source: BofA Global Research, Bloomberg, EPFR Global; See appendix for details; HF: Hedge Fund, RM Real Money, FXRS: FX and Rates Sentiment Survey Note: Aggregate positioning is the unweighted average of BofA HF, BofA RM, FXRS, TFF LF and TFF AM

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### **Exhibit 10: EM FX Positioning Scorecard**

50 (-50) represents a max long (short) positioning relative to history

Currency	BofA HF	BofA RM	FXRS	СОТ	TFF LF	TFF AM	EPFR	Aggregate Positioning Signal	Change in positioning	MAA trend
HUF	32	20	-	-	-	-	22	26		J.
INR	31	19	-	-	=	=	47	25		Ĭ
CZK	17	23	-	-	-	-	43	20	į	<u> </u>
MYR	23	7	-	-	-	-	39	15	į	↔
CLP	30	-1	-	-	-	-	46	15	į	<b>↑</b>
PLN	2	26	-	-	-	-	-13	14	<u> </u>	<b>1</b>
CNH	-6	27	-	-	-	-	0	11	ļ .	0
ILS	-4	13	=	-	=	=	49	5	↓ ↓	<b>\</b>
BRL	-45	26	=	24	2	34	44	4	<b>↑</b>	<b>\</b>
MXN	-45	5	=	19	11	42	48	3	<b>↑</b>	<b>\</b>
THB	-8	15	-	-	-	-	30	3	↓ ↓	<b>↓</b>
COP	37	-34	-	-	-	-	47	1	<b>↑</b>	<b>\</b>
IDR	25	-35	-	-	-	-	7	-5	↓ ↓	<b>↓</b>
PEN	-42	29	-	-	-	-	36	-7	↓ ↓	<b>↓</b>
ARS	-40	12	-	-	-	-	49	-14	<b>↑</b>	<b>↑</b>
TRY	-38	4	-	-	-	-	10	-17	↓ ↓	<b>↑</b>
TWD	-20	-16	-	-	-	-	32	-18	↓	<b>↓</b>
CNY	-6	-43	-	-	-	-	44	-24	<b>†</b>	$\leftrightarrow$
ZAR	-28	-22	-	-	-	-	47	-25	↓ ↓	$\leftrightarrow$
KRW	-17	-35	-	-	-	-	44	-26	↓ ↓	$\leftrightarrow$
SGD	-35	-30	-	-	-	-	45	-33	↓	$\downarrow$

Source: BofA Global Research, Bloomberg, EPFR Global; See appendix for details; HF: Hedge Fund, RM Real Money, FXRS: FX and Rates Sentiment Survey

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# Data appendix

BofA Securities Proprietary FX Flows represent the aggregated net base notional of spot and forward trades for sales-only data on a firm-wide basis for the 31 major currencies we track. We filter the data by customer type, which we categorize as Hedge Funds, Corporates, Real Money and Official Institutions. For the purposes of this report we exclude interbank flows, which would include commercial banks, proprietary trading, broker/dealer and affiliates. Indexed data is available upon request.

The currencies used in building this report are defined as:

- **G10:** USD, EUR, JPY, AUD, NZD, CAD, GBP, CHF, NOK, SEK
- LatAm: BRL, MXN, CLP, COP, PEN, ARS
- ASIA: CNH, CNY, INR, KRW, IDR, MYR, SGD, TWD, THB
- EMEA: TRY, HUF, PLN, ILS, CZK, ZAR, RUB

Emerging Markets is defined as the sum of LatAm, Asia and EMEA.

**Public/Official:** Central Banks, Government – including federal, state and local municipality clients – and Sovereign Wealth Funds.

**Real Money:** Pension Funds, REITs, Small Institutions/Trusts, Insurance, Asset Management and Finance Companies. RM clients will often trade FX to facilitate transactions in Fixed Income or Equities rather than to take a view on FX itself.

**Hedge Funds:** Usually limited-partnership funds with diverse, often leveraged strategies designed to maximize returns. HF flow is speculative in nature, and many HF trade FX as an asset class

**Corporates:** Businesses across all industries whose investment efforts focus mostly on operative activities, such as hedging and M&A. Corporate FX flow is not speculative in nature but arises as a 'by-product' of normal business operations.

**EPFR GLOBAL data** on country flows combine the respective fund flow and country weightings data to track the flow of money into world stock and bond markets. Fund flow reports track the amount of cash flowing into and out of the investment funds monitored world-wide. Country weightings reports track fund manager allocations at month-end across the various markets they invest in. By combining these two data sets we are able to estimate the flow of cash into and out of various stock and bond markets.

### **Note on Aggregate Positioning**

We calculate aggregate positioning using a number of different inputs:

- (i) Proprietary BofA Securities FX flows data for hedge funds and real money
- (ii) Futures data, using the TFF (Traders in Financial Futures) data for leveraged funds and asset managers separately.
- (iii) BofA Global Research FXRS: FX and Rates Sentiment Survey data

The signals are all considered relative to the start of 2012 (i.e. an expanding window) and each signal is scaled to be between +50 and -50. The aggregate signal is the simple average of all the inputs.

+50 (-50) represents a max long (short) positioning relative to history.

For more detail on the construction and use of this report, please see our <u>LCBF Primer</u>



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