

Global FX Trader From Diminished to Finished

Our Thoughts on USD, EUR, JPY, CNY, EM FX, Scandi FX, & CEE

USD: Exceptionalism eroded. We are making a major shift in our Dollar view for the year ahead: we now see Dollar weakness of the first quarter persisting and deepening further. The reciprocal tariff announcement itself was close to our economists' expectations in terms of aggregate tariff rate. If enacted, it would be the sharpest rise in the US effective tariff rate in more than 100 years. However, we do not think these tariffs are likely to prove as Dollar supportive as we had previously thought for a number of reasons. First, the combination of an unnecessary trade war and other uncertainty raising policies is severely eroding consumer and business confidence as we have discussed, so that any Dollar positive impulses are being offset by the likelihood of lower growth. Second, the negative trends in US governance and institutions are eroding the exorbitant privilege long-enjoyed by US assets, and that is weighing on US asset returns and the Dollar, and may continue to do so in the future unless reversed. Third, and related, the implementation of the tariffs themselves is eroding the ability of investors to price these. While it is still true that currencies (and Dollar strength) provide the most natural margin of adjustment to US tariffs, as was the case both in the first trade war and also in the first episode of Canada/Mexico tariffs in late-Jan/early-Feb, the constant back and forth on timelines and the rudimentary calculations compound the uncertainty that underpins rising recession risks. Moreover rather than clearly targeted tariffs that allow precise room for negotiation, with such broad, unilateral tariffs there is less incentive for foreign producers to provide any accommodation-US businesses and consumers become the price-takers, and it is the Dollar that needs to weaken to adjust if supply chains and/or consumers are relatively inelastic in the short term. We have previously talked about the risk case of a shift in the relative growth outlook reversing the "exceptional" positioning that underpins the Dollar's strong valuation. In light of recent events, we are now making that our base case, and revising our EUR/USD forecasts to 1.12, 1.15 and 1.20 in 3, 6 and 12 months (from 1.07, 1.05 and 1.02 previously) and revising our USD/JPY forecasts to 138, 136, and 135 in 3, 6 and 12 months (from 150, 151 and 152 previously) with commensurate shifts elsewhere (Exhibit 1). This would bring the Dollar closer to measures of long-run fair value. There are a number of risks to this forecast, including the possibility of a convincing policy pivot that dials back some of the

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uncertainty that has weighed on US data. In addition, it is possible that the rapid shift in tariff policy will create global disruptions sufficient to activate the "left tail" of the Dollar smile that currently looks further away.

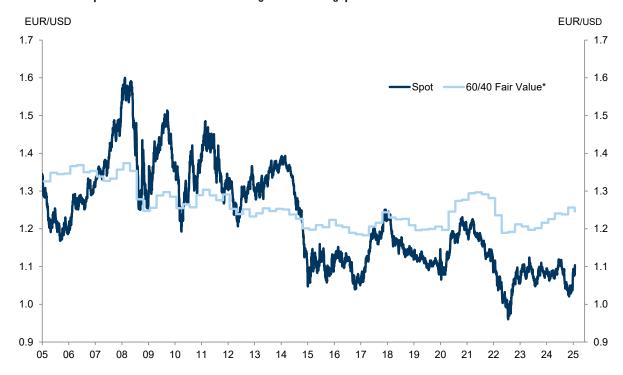
Exhibit 1: G10 FX forecast changes

		Ne	ew Forecas	its	Previous Forecasts				
	Spot	3m	6m	12m	3m	6m	12m		
EUR/USD	1.10	1.12	1.15	1.20	1.07	1.05	1.02		
GBP/USD	1.31	1.32	1.35	1.39	1.29	1.28	1.24		
AUD/USD	0.64	0.60	0.60	0.60	0.62	0.62	0.62		
NZD/USD	0.58	0.56	0.56	0.56	0.56	0.56	0.56		
USD/JPY	146	138	136	135	150	151	152		
USD/CAD	1.40	1.40	1.39	1.38	1.44	1.44	1.44		
USD/CHF	0.86	0.85	0.83	0.79	0.86	0.86	0.88		
USD/NOK	10.32	10.27	9.91	9.42	11.03	11.24	11.57		
USD/SEK	9.73	9.64	9.30	8.83	10.84	11.14	11.57		
EUR/NOK	11.40	11.50	11.40	11.30	11.80	11.80	11.80		
EUR/SEK	10.76	10.80	10.70	10.60	11.60	11.70	11.80		
EUR/GBP	0.84	0.85	0.85	0.86	0.83	0.82	0.82		
EUR/CHF	0.95	0.95	0.95	0.95	0.92	0.90	0.90		
AUD/NZD	1.08	1.07	1.07	1.07	1.11	1.11	1.11		
NOK/SEK	0.93	0.94	0.94	0.94	0.98	0.99	1.00		

Source: Bloomberg, Goldman Sachs Global Investment Research

EUR: Switchin' the positions. We think recent policy changes will erode the exceptional performance that has formed the central pillar of the Dollar's strong valuation for the last decade. The Euro stands to be a key beneficiary in this shift. Because of the combination of substantial savings and weak domestic economic performance, Europe has been responsible for a large portion of the cross-border flows that supported the Dollar. If those forces now move in reverse, pressures on the capital account can see FX make outsized moves compared to other asset classes. The decade of relative fiscal restraint in Europe coupled with easier monetary policy—a recipe for currency weakness—is now turning, with the US instead aiming for that policy mix. While a number of implementation risks remain on both sides, we think investors need to be imaginative in an environment of rapidly shifting economic outlooks. We think this combination will spur a rotation in cross-border flows and move toward closing the valuation gap (Exhibit 2). This would see EUR/USD rise to around 1.20. As we have discussed previously, this happened once before in 2017, and the parallels to today are striking. We expect a replay of this dynamic, and are now moving this from a risk case to the base case. That said, there are a number of remaining risks, including the potential that higher tariff rates will overpower some of the growth optimism as Europe is more exposed to global trade activity. In this context, it is worth noting that episodes of Euro strength in 2017 (and, to some extent, late 2020), coincided with European growth optimism, rather than a more pessimistic US outlook.

Exhibit 2: We now expect EUR will move toward closing the valuation gap



*60/40 fair value is computed using 60% of the corresponding GSDEER fair value and 40% of the GSFEER fair value

Source: Goldman Sachs Global Investment Research

JPY: Flipping to structural bulls, stay long vs AUD. Higher US recession risk and elevated policy uncertainty strengthens the case to own safer assets. We had already been recommending tactical longs in JPY but our shorter-term preference has now flipped to a structural one. The loss of US exceptionalism (that will likely remain a feature of the outlook, even if we see a nearer-term shift on policy) removes the pillar of support that has justified the Dollar's high valuation over the past decade. That leaves a clear runway for structural Dollar depreciation, where we can see USD weaken for longer periods alongside lower US equities. This backdrop alone argues in favor of adding exposure to JPY, CHF, and even EUR, but higher recession risk should further point to owning JPY and CHF in particular (Exhibit 3). Therefore, consistent with our recent downgrades to our <u>S&P 500</u> and <u>rates</u> forecasts (where risks are also skewed to the downside), we are revising down our USD/JPY forecasts to 138, 136, 135 in 3, 6, 12 months (vs 150, 151, 152 previously). We also think the risks look skewed towards reaching our 12-month forecast of 135 quicker than expected. For that reason, we are extending the target of our open short AUD/JPY recommendation from 90.5 to 85.0 and lowering our stop from 97.0 to 91.5 to protect a potential gain of nearly 3%. While we see scope for some tactical reversal in both JPY and AUD after the outsized moves in recent days, we think the fundamental backdrop continues to argue for further downside.

% Cluster Weekly Spot Returns in Different Environments % 1.0 ■JPY Cluster 1.0 Safe-havens USD Cluster 0.8 0.8 ■ CHF Cluster 0.6 ■AUD Cluster 0.6 ■ NZD Cluster 0.4 High-beta 0.4 ■ Scandi Cluster 0.2 02 CAD Cluster 0.0 0.0 -0.2-0.2 -0.4 -0.4-0.6 -0.6Positive growth "Hawkish policy "Dovish policy "Negative growth shock" shock" shock" shock' -0.8 -0.8 Equities down Equities down Equities up Equities up Yields up Yields down Yields down Note: We look at weekly returns from 2000-present

Exhibit 3: Higher recession risk should point to owning JPY and CHF

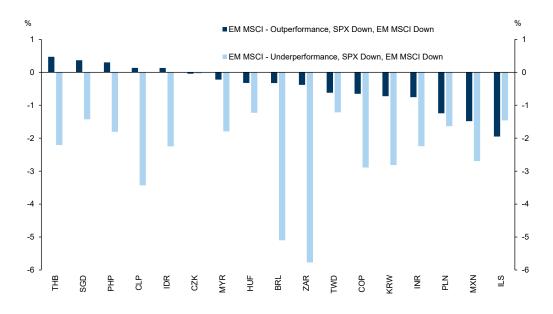
Source: Bloomberg, Goldman Sachs Global Investment Research

- CNY: Eyes fixed on the fix. In response to US reciprocal tariffs, Chinese policymakers announced a 34pp tariff increase on all US exports to China, effective April 10th (one day after the US reciprocal tariffs take full effect). The magnitude of the tariff hike mirrors the US move and the tariff action was part of a broader set of countermeasures including export controls on rare earths and agricultural products. While the escalating trade war creates downside risks to growth, our China team continues to expect fiscal and monetary policy easing to provide important offsets. Coming into this Trade War 2.0, we did anticipate that these other levers of policy would see more emphasis relative to currency depreciation compared to Trade War 1.0 in 2018-19. Even so, it is still remarkable how steady the CNY fix has been this year. After the US reciprocal tariffs were announced, the PBoC did allow slightly more currency depreciation and the USD/CNY fix rose to 7.1889 from 7.1793 (+96pips) on April 3— the largest one-day change since President Trump assumed office. Onshore markets were closed on April 4, so no fixing was observed, and it will be crucial to see how this evolves in the coming week. Our flattish forecasts for USD/CNY between 7.30-7.35 are consistent with a revealed preference for stability from policymakers, and our conjecture is that still holds even after the events of this week. After all given the strong starting level of China's external balance, reduced trade exposure to the US relative to 2018-19, and a depreciation in the CFETS basket (given an unchanged USD/CNY in the face of a depreciating Dollar), stability should still be manageable. And even if there is some further weakening in the near-term, as we look ahead and take account of our revised forecasts for a broader weakening in the Dollar, we would flag that the downside tail in USD/CNH also now has value.
- EM FX: Less upside than G9. An expanding trade war and growing downside risks to global growth present a challenging backdrop for EM FX, a highly cyclical asset class. This argues for underperformance relative to G9 currencies, where safe-haven demand and declining US exceptionalism have a larger impact. When it comes to

EM FX returns versus the Dollar, we think that will largely depend on how the market prices the relative growth hit between the US and emerging markets. In our recent deep-dive on the relationship between EM FX and relative equity performance, we found that when both US and EM equity indices are selling off, EM equity outperformance has tended to cushion EM FX from the fall in the S&P 500 to a significant extent relative to when EM equities underperform (Exhibit 4). Our EM economists have downgraded growth forecast across regions since the reciprocal tariff announcement but have notably kept the Chinese growth forecast unchanged (with an adjustment higher in policy stimulus expectations), which we think can help support China-linked currencies. More broadly, we think that if markets are more clearly trading USD underperformance (as on Thursday) rather than global risk-off (as on Friday), then EM FX returns can still be positive versus the Dollar. But we expect volatility to be high as expectations switch around between those two regimes. Across currencies and regions, we think there is scope for CEE FX to be relatively more resilient given the potential for meaningful Euro appreciation (though there are still domestic headwinds to keep in mind, see CEE bullet below). Asia is likely to bear the brunt of the reciprocal tariffs with small open-economies particularly vulnerable, but the extent of any FX move will depend on whether the CNY fix remains steady around current levels or exhibits more volatility. Within Latin America, we continue to have a relative preference for BRL where high carry and limited tariff exposure can cushion the Real. Elsewhere in EM HY, the South African Rand's high beta to global risk and local political developments argue for a cautious stance in the near-term. Finally, we consistently find that US equity returns screen as more important than EM equity returns for MXN and ILS and therefore think there is less scope for EM growth pricing resilience to support these currencies.

Exhibit 4: When both the S&P 500 and MSCI EM are selling off, EM equity outperformance has tended to cushion EM FX from the fall in the S&P to a large extent (except for ILS and MXN)

Monthly returns of EM FX vs. USD (CEE vs. EUR), in periods of out/underperformance of MSCI EM vs S&P above/below the 75th percentile



Source: Goldman Sachs FICC and Equities, Goldman Sachs Global Investment Research

- Scandi FX: Launch to orbit. We think the Euro and its satellites stand to be key beneficiaries of the erosion of US exceptionalism alongside a reversal of relative fiscal restraint in Europe (see EUR bullet). The market has already moved quite far to price European growth optimism, and we still see hurdles ahead. European satellites should still be exposed to a tariff induced hit to EA growth, particularly SEK which has historically operated like "Euro-squared," and risks remain that tariffs will ultimately depress economic growth in the rest of the world more than in the US and delivery of European defense spending will disappoint. That said, we see room for continued outperformance vs both the Dollar and EUR off the back of defense spending optimism and a broader rotation in cross asset flows. More coordinated defense spending should disproportionately benefit the Scandis given their outsized concentration in the industrial sector relative to the rest of Europe, whereas domestic shifts may mute the EUR/USD beta for CE3 currencies (see CEE bullet). We also recently noted that record portfolio flows have likely contributed to outsized currency moves over the past several weeks and think a broader rotation in cross-border flows as a result of recent policy changes should allow for this dynamic to extend.
- CEE: Dovish drifts vs the Euro shift. We now forecast EUR/USD to trade to 1.20 in 12-months. This is an important tailwind for CEE currencies given their historical positive beta to EUR/USD moves. However, we think there are other offsetting factors at play currently that argue for a more muted move in EUR/CE3. First, while we are arguing for a return to fair value in EUR/USD, CEE currencies already trade stronger than our estimates of fair value, with CZK and PLN in particular screening around 10% overvalued in our frameworks (whereas HUF is close to fair). Second,

US tariffs, especially those on autos, will have a negative impact on CEE growth, especially in Czechia and Hungary where the auto sector is a key contributor to GDP. Third, we expect currency appreciation (and growth risks) to be met with more dovish monetary policy. In Poland, where a high real rate policy has been a key pillar of PLN outperformance, the NBP pivoted in a more dovish direction this week, leading the Zloty to underperform on the day. And, in Hungary, we think that the MNB continuing to signal an extended pause is unlikely to provide further support to the Forint given that this is already well reflected in rates pricing. Fourth, we think that some risk premium is warranted given rising fiscal risks, especially in Hungary. Finally, we note that more muted EUR/CE3 moves in the face of a large EUR/USD repricing are not unusual. In 2014-15, CE3 currencies stayed resilient as the Euro depreciated by over 20%. And in 2017, when EUR/USD moved around 20% higher, CZK and PLN appreciated around 7% versus the Euro and EUR/HUF was roughly flat. So we are making more muted revisions lower in our EUR/CE3 forecasts together with other EM FX revisions (Exhibit 5). We also close our trade recommendation to be short CZK and HUF vs EUR for a potential total returns of around 0.6%.

Exhibit 5: EM FX forecast changes

	Ne	ew Forecas	sts	Previous Forecasts					
	3m	6m	12m	3m	6m	12m			
USD/BRL	5.80	5.70	5.70	6.10	6.00	5.90			
USD/MXN	21.25	21.00	20.75	20.75	20.50	20.00			
USD/PEN	3.70	3.70	3.70	3.75	3.80	3.85			
USD/ILS	3.80	3.70	3.70	3.65	3.60	3.60			
USD/ZAR	19.50	19.25	19.00	19.00	18.75	18.75			
EUR/CZK	25.20	25.40	25.50	25.25	25.50	26.00			
EUR/HUF	410	405	400	405	410	420			
EUR/PLN	4.30	4.25	4.20	4.20	4.25	4.30			

Source: Goldman Sachs Global Investment Research

Global FX Forecasts

	Current	3-Month Horizon		6-Month Horizon		12-Montl	n Horizon	Longer-term Forecasts (eop)			
	Spot	Forward	Forecast	Forward	Forecast	Forward Forecast		2026	2027	2028	
G10											
EUR/\$	1.10	1.10	1.12	1.11	1.15	1.12	1.20	1.20	1.20	1.20	
£/\$	1.29	1.29	1.32	1.29	1.35	1.29	1.39	1.36	1.34	1.33	
AUD/\$	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.65	0.68	0.71	
NZD/\$	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.58	0.60	0.61	
\$/CAD	1.42	1.42	1.40	1.41	1.39	1.40	1.38	1.36	1.33	1.30	
\$/CHF	0.85	0.85	0.85	0.84	0.83	0.82	0.79	0.81	0.82	0.83	
\$/NOK	10.75	10.75	10.27	10.77	9.91	10.80	9.42	8.87	8.42	8.07	
\$/SEK	10.05	10.00	9.64	9.96	9.30	9.89	8.83	8.58	8.38	8.21	
\$/JPY	145	144	138	142	136	140	135	127	120	115	
EMEA											
\$/CZK	23.0	22.9	22.5	22.9	22.1	22.8	21.3	21.7	21.7	21.7	
\$/HUF	371	373	366	375	352	380	333	333	338	338	
\$/PLN	3.89	3.90	3.84	3.91	3.70	3.92	3.50	3.58	3.67	3.75	
\$/RON	4.54	4.55	4.44	4.58	4.35	4.64	4.17	4.25	4.25	4.25	
\$/RUB	89.45	89.45	100.0	93.05	105.0	100.31	110.0	120.0	130.0	130.0	
\$/UAH	41.2	42.3	42.0	43.4	43.0	46.2	46.0	48.0	49.0	51.0	
\$/TRY	38.01	42.15	37.0	46.31	39.0	54.57	42.0	44.00	45.00	47.00	
\$/ILS	3.75	3.74	3.80	3.73	3.70	3.72	3.70	3.60	3.60	3.55	
\$/ZAR	19.11	19.25	19.50	19.41	19.25	19.76	19.00	18.00	17.00	16.50	
\$/NGN	1537	1698	1600	1775	1500	1922	1400	1600	1800	2000	
Americas		.000	.000		.000	.022		.000	.000	2000	
\$/ARS	1073	1196	1080	1293	1110	1502	1350	1530	1680	1820	
\$/BRL	5.82	5.93	5.80	6.07	5.70	6.35	5.70	5.50	5.40	5.30	
\$/MXN	20.50	20.75	21.25	20.98	21.00	21.44	20.75	20.50	20.00	19.00	
\$/CLP	981	982	970	983	975	987	980	960	940	920	
\$/PEN	3.70	3.71	3.70	3.72	3.70	3.71	3.70	3.60	3.55	3.50	
\$/COP	4295	4348	4400	4401	4450	4516	4500	4400	4300	4200	
Asia	4293	4340	4400	4401	4430	4310	4300	4400	4300	4200	
\$/CNY	7.28	7.27	7.30	7.25	7.35	7.20	7.35	7.30	7.10	6.90	
\$/HKD	7.28 7.78	7.21 7.76	7.80	7.25 7.75	7.80	7.20	7.80	7.80	7.10	7.80	
\$/INR	85.24	86.22	87.50	86.72	88.00	87.80	89.00	85.00	84.00	83.00	
\$/KRW	1463	1455	1450	1448	1455	1437	1455	1390	1350		
•		4.42		4.41			4.55			1320 4.20	
\$/MYR	4.44		4.50		4.55	4.39		4.40	4.30		
\$/SGD	1.34	1.34	1.35	1.33	1.36	1.32	1.36	1.37	1.35	1.33	
\$/TWD	33.1	33.0	33.5	32.7	33.7	32.2	33.8	32.0	31.0	30.1	
\$/THB	34.20	34.40	34.00	34.22	34.50	33.89	35.00	35.50	35.00	34.00	
\$/IDR	16560	17142	16700	17224	16800	17408	16800	16000	15500	15000	
\$/PHP	56.83	56.90	57.50	57.00	58.00	57.20	58.00	59.50	59.00	59.00	
Euro Cros											
EUR/GBP	0.85	0.85	0.85	0.86	0.85	0.87	0.86	0.88	0.90	0.90	
EUR/CHF	0.94	0.93	0.95	0.93	0.95	0.92	0.95	0.97	0.98	0.99	
EUR/NOK	11.80	11.86	11.50	11.93	11.40	12.06	11.30	10.64	10.10	9.68	
EUR/SEK	11.03	11.03	10.80	11.03	10.70	11.05	10.60	10.29	10.05	9.85	
EUR/CZK	25.20	25.28	25.20	25.36	25.40	25.49	25.50	26.00	26.00	26.00	
EUR/HUF	407	411	410	415	405	424	400	400	405	405	
EUR/PLN	4.26	4.30	4.30	4.33	4.25	4.38	4.20	4.30	4.40	4.50	
EUR/RON	4.98	5.02	4.97	5.07	5.00	5.18	5.00	5.10	5.10	5.10	
EUR/RUB	98.1	98.6	112.0	103.1	120.8	112.1	132.0	144.0	156.0	156.0	
Note: Spot val	ues are as of TI	hursday's close.									

Note: Spot values are as of Thursday's close.

 $See \ dynamic \ table \ here \ (or \ click \ image \ above): \ https://publishing.gs.com/content/themes/fx-forecasts.html$

Source: Goldman Sachs Global Investment Research

Return Forecasts & Valuations

				GSDEER			GSFEER						
	Forecast		cast: 12-Month Return (%)			Misalignmen			Misalignment				
	Current	Spot	Carry	Total	NEER	Estimate	Bilateral	Trade-	Estimate	Bilateral	Trade-	Average	PPP*
040	Spot	Орос	Jany	Total	NEEK	Latimate	Bilateral	Weighted	Latimate	Dilateral	Weighted	Estimate	
G10 EUR/\$	1.10	9.4	-1.8	7.4	6.8	1.20	-8%	6%	1.36	-19%	-2%	1.26	1.50
GBP/\$	1.29	7.5	0.3	7.7	2.7	1.25	4%	20%	1.50	-14%	6%	1.35	1.52
AUD/\$	0.60	-0.5	-0.3	-0.8	-1.8	0.83	-27%	-4%	0.80	-25%	-2%	0.82	0.69
NZD/\$	0.56	0.1	-0.6	-0.5	-1.0	0.68	-17%	5%	0.66	-15%	9%	0.67	0.68
\$/CAD	1.42	3.1	-1.5	1.5	1.9	1.25	-12%	-7%	1.28	-10%	-4%	1.26	1.18
\$/CHF	0.85	8.0	-3.7	4.0	2.8	0.86	0%	11%	0.72	-16%	-1%	0.80	0.96
\$/NOK	10.75	14.2	0.4	14.7	7.2	6.70	-38%	-27%	7.95	-26%	-3%	7.20	9.12
\$/SEK	10.05	13.8	-1.6	12.0	5.6	7.54	-25%	-12%	7.97	-21%	2%	7.72	8.45
\$/JPY	145.1	7.5	-3.4	3.8	7.2	94	-35%	-25%	105	-28%	-11%	98	93
EMEA													
\$/CZK	22.98	8.1	-0.7	7.4	0.9	25.0	9%	24%	18.6	-19%	-1%	22.4	15.9
\$/HUF	371	11.2	2.4	13.9	4.1	333	-10%	2%	305	-18%	2%	322	249
\$/PLN	3.89	11.0	0.9	12.0	4.7	3.96	2%	18%	3.3	-15%	7%	3.70	2.55
\$/RON	4.54	8.9	2.2	11.3									
\$/RUB	89.4	-18.7	12.1	-8.8	-21.8	77.90	-13%	6%	69.45	-22%	21%	74.52	39.98
\$/UAH	41.18	-10.5	12.3	1.8									
\$/TRY	38.01	-9.5	43.6	29.9	-12.6	25.90	-32%	-30%	30.34	-20%	-3%	27.68	24.26
\$/ILS	3.75	1.3	-0.8	0.6	-1.5	3.49	-7%	8%	2.82	-25%	0%	3.22	4.71
\$/ZAR	19.1	0.6	3.4	4.0	-2.4	12.71	-34%	-22%	13.6	-29%	-6%	13.05	18.78
\$/NGN	1537	9.8	25.0	34.8									
Americas													
\$/ARS	1073.2	-20.5	39.9	19.4	-21.8								
\$/BRL	5.82	2.0	9.1	11.4	2.2	4.17	-28%	-14%	4.99	-14%	9%	4.50	5.11
\$/MXN	20.50	-1.2	4.6	3.3	-2.1	19.90	-3%	7%	17.69	-14%	-4%	19.01	20.65
\$/CLP	981	0.1	0.6	0.7	-0.4	681	-31%	-13%	739	-25%	-3%	704	756
\$/PEN	3.70	-0.1	0.3	0.2	-0.6	3.11	-16%	0%	3.07	-17%	3%	3.09	4.00
\$/COP	4295	-4.6	5.1	0.4	-5.3	3372	-21%	-5%	3750	-13%	7%	3523	3148
Asia \$/CNY	7.28	-0.9	-1.2	-2.1	-2.4	5.18	-29%	-16%	5.60	-23%	-5%	5.35	6.50
\$/CINT \$/HKD	7.28	-0.9	-0.5	-2.1 -0.8	-2.4	7.06	-29% -9%	15%	6.22	-23%	-5% 0%	6.72	5.91
\$/INR	85.24	-4.2	3.0	-1.3	-5.3	7.00	-9%	3%	70.20	-18%	0%	74.55	58.96
\$/KRW	1463	0.5	-1.8	-1.3	-0.2	1181	-19%	0%	1096	-25%	-5%	1147	915
\$/MYR	4.44	-2.5	-1.1	-3.6	-3.3	3.34	-25%	-8%	3.72	-16%	4%	3.49	2.16
\$/SGD	1.344	-1.2	-1.7	-2.9	-2.0	1.35	0%	21%	1.12	-17%	8%	1.26	0.61
\$/TWD	33.10	-2.1	-2.6	-4.7	-3.4	26.5	-20%	0%	24.6	-26%	-9%	25.8	14.1
\$/THB	34.20	-2.3	-0.9	-3.2	-3.7	30.94	-10%	12%	28.78	-16%	6%	30.07	19.41
\$/IDR	16560	-1.4	5.1	3.6	-2.1	14240	-14%	4%	12669	-23%	-7%	13611	11353
\$/PHP	56.83	-2.0	0.7	-1.4	-3.3	58.53	3%	25%	53.76	-5%	16%	56.62	53.39
Euro Cross													
EUR/GBP	0.85	-1.8	2.1	0.3	2.7	0.96	13%	20%	0.91	7%	6%	0.94	0.98
EUR/CHF	0.94	-1.3	-1.9	-3.2	2.8	1.03	9%	11%	0.98	4%	-1%	1.01	1.44
EUR/NOK	11.80	4.4	2.2	6.6	7.2	8.03	-32%	-27%	10.82	-8%	-3%	9.15	13.63
EUR/SEK	11.03	4.0	0.2	4.2	5.6	9.04	-18%	-12%	10.85	-2%	2%	9.77	12.63
EUR/CZK	25.20	-1.2	1.1	0.0	0.9	29.93	19%	24%	25.31	0%	-1%	28.08	23.76
EUR/HUF	407	1.7	4.2	5.9	4.1	399	-2%	2%	415	2%	2%	406	372
EUR/PLN	4.26	1.5	2.7	4.2	4.7	4.74	11%	18%	4.5	6%	7%	4.65	3.82
EUR/RON	4.98	-0.4	4.0	3.5									
EUR/RUB	98.1	-25.7	14.0	-11.7	-21.8	93.4	-5%	6%	94.5	-4%	21%	93.8	
Addendum													
USD		-1.7	-2.2	-3.7	-2.5			19%			18%		

Note: USD returns average of all other currencies (except ARS, NGN and UAH) with opposite sign; *EM estimates adjusted for per capita income. Spot values as of Thursday.

 $See \ dynamic \ table \ here \ (or \ click \ image \ above): \ https://publishing.gs.com/content/themes/table.html?criteriaKey=1k2HGqqS2h$

Source: Goldman Sachs Global Investment Research

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Reg AC

We, Kamakshya Trivedi, Michael Cahill, Danny Suwanapruti, Teresa Alves, Karen Reichgott Fishman, Isabella Rosenberg, Stuart Jenkins, Victor Engel and Lexi Kanter, hereby certify that all of the views expressed in this report accurately reflect our personal views, which have not been influenced by considerations of the firm's business or client relationships.

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