Interest Rates and Sovereign Debt

Rachel Fisher
Fixed Income Application Specialist
Bloomberg

Agenda

- Direction of Global Interest Rates
- Direction of Interest Rates in the Philippines
- Comparison of Sovereign Debt Profiles

Direction of Global Interest Rates

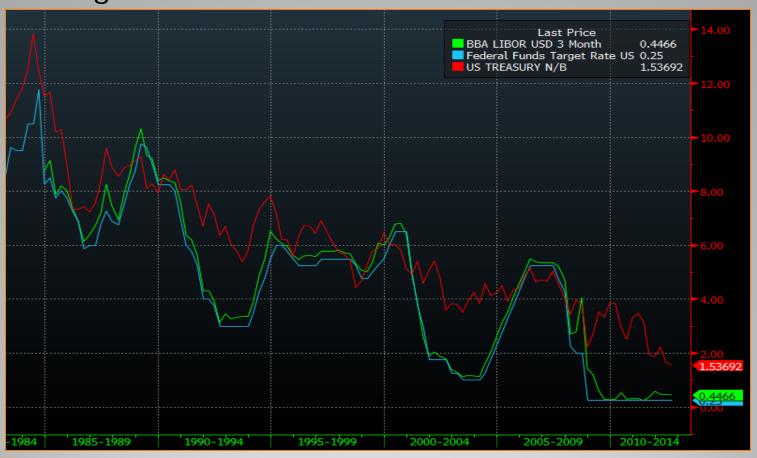
Safe Haven Bond Yields Near Record Lows

Driven by the European Sovereign Debt Crisis and Global Growth Concerns

Maturity 10 Year	v .							09/30	/08	-07/30/12	Custo	m
Country	CMI	Security		Price	Chg	Yield	Chg	Yield	Low	Range	High	Hst Chg
1) Americas				✓Include	yesterd	ay's cha	nge			🔷 Avg 🔵 Now		
10) United States	≣	T 1 ³ ₄ 05/22	•	101-30	- 29	1.536	+9.8	n	1.387	•	4.077	-228.7
11) Canada	≣	CAN2 3 ₄ 06/22	•	109.082c	-0.935	1.741	+9.8		1.571	•—•	3.818	-201.0
12) Brazil (USD)	≣	BRAZIL8 7 ₈ 24	•	158.575c	+0.395	2.928	-3.1		2.895	•	9.963	-389.2
13) Colombia (USD)		COLOM 8 ¹ ₈ 24	•	149.510c	-0.220	3.088	+1.7		2.982	•	10.792	-365.5
14) Mexico (USD)		MEX8 09/24/22		147.395c	+0.250	2.644	-2.3		2.644	•	9.678	-343.9
2) EMEA												
20) United Kingdom	≣	UKT4 03/07/22		121.955c	-0.570	1.533	+5.5		1.456	•—•	4.738	-291.0
21) France	≣	FRTR 3 04/22		106.900c	+0.015	2.204	2		2.049	•—•	4.344	-213.6
22) Germany	≣	DBR1 ³ ₄ 07/22		103.250c	-0.730	1.396	+7.7		1.165	•	4.120	-261.5
23) Italy		BTPS 5 ½ 22		97.485c	+0.660	5.917	-9.2		3.714		7.227	+103.5
24) Spain	≣	SPGB 5.85 22		94.400c	+1.125	6.657	-17.1 -		3.718	$-\!$	7.511	+207.3
25) Portugal		PGB4.95 10/23		62.475c	-0.245	10.893	+5.4		3.705	$-\!$	15.816	+619.5
26) Sweden	≣	SGB3 ¹ ₂ 06/22	•	119.143c	-0.778	1.402	+7.6		1.110	•	3.812	-241.0
27) Netherlands		NETHER2 ¹ ₄ 22		104.355c	-0.295	1.769	+3.2		1.512	•	4.423	-256.3
28) Switzerland		SWISS 2 05/22	•	114.489c	-0.035	0.485	+.3		.444	•	3.032	-211.5
29) Greece		GGB2 02/24/23		17.975c	+0.530	25.839	-50.0 -		4.406	$-\!$	30.592	+2090.4
3) Asia/Pacific												
30) Japan	=	JGB 0.8 06/22	•	100.376	-0.204	0.759	+2.2		.717	•	1.573	-69.3
31) Australia	=	ACGB 5 ½ 23	•	121.791	-0.902	3.095	+8.8		2.765	•	5.845	-228.5
32) New Zealand	=	NZGB 5 ¹ ₂ 23		118.253	-1.271	3.446	+12.8		3.200	•	6.125	-221.1
33) South Korea	≣	NDFB 3 ³ ₄ 22		105.483	-0.210	3.160	+2.5		3.011	•—	6.062	-289.2

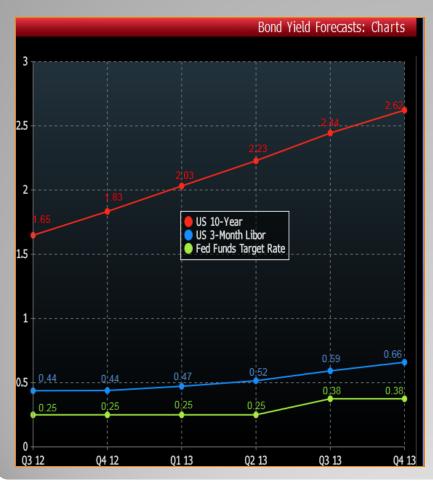
Where have US Rates Been?

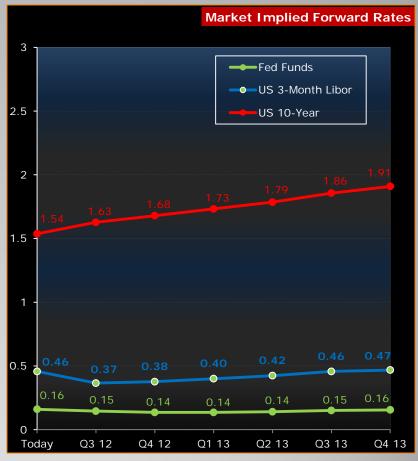
Falling to all-time lows



Where to next for US Rates?

Analysts Forecasts versus Market Implied Forward Rates





US Interest Rate Swaps

Time to fix USD Interest Rates?

USD SemiAnnu	nal 30/360	Swap	Rates					Now 🔷 Avg				
Tenor	Bid	Ask	Mid	Change	Today	#SD ∆/day	Low	Range	High	Avg	+/-BPS	#SD
1) 1 YR	0.408	0.414	0.411	0.002		0.0	0.400	•	0.773	0.544	-13.0	-1.6
2) 2 YR	0.441	0.445	0.443	0.001		0.0	0.435	•	0.822	0.594	-14.9	-1.8
3) 3 YR	0.512	0.517	0.515	-0.002		0.0	0.495	•	0.947	0.720	-20.3	-2.1
4) 4 YR	0.656	0.661	0.659	-0.004		0.0	0.613	•	1.350	0.937	-27.6	-2.2
5) 5 YR	0.845	0.850	0.848	-0.006		0.0	0.782	•	1.761	1.185	-33.5	-2.1
6) 6 YR	1.043	1.048	1.046	-0.004		0.0	0.958	•	2.127	1.430	-38.2	-2.0
7) 7 YR	1.230	1.234	1.232	-0.004		0.0	1.126	•	2.436	1.645	-41.0	-1.9
8) 8 YR	1.394	1.399	1.397	-0.002		0.0	1.278	•	2.679	1.824	-42.5	-1.9
9) 9 YR	1.537	1.542	1.540	-0.001		0.0	1.412	•	2.885	1.976	-43.4	-1.8
10) 10 YR	1.663	1.668	1.666	-0.002		0.0	1.532	•	3.055	2.105	-43.7	-1.8
11) 15 YR	2.080	2.086	2.083	-0.002		0.0	1.943	•	3.579	2.521	-43.5	-1.7
12) 20 YR	2.251	2.256	2.254	-0.001		0.0	2.110	•	3.774	2.678	-42.2	-1.6
13) 25 YR	2.336	2.342	2.339	-0.004		0.0	2.192	•	3.872	2.759	-41.7	-1.5
14) 30 YR	2.389	2.394	2.392	-0.005		0.0	2.247	••	3.929	2.802	-40.8	-1.5

Hedging a variable rate USD loan

Using a Fixed/Float USD Interest Rate Swap

Loan Details:

Size: USD 10mio **Margin:** 180bps

Benchmark: 3month USD

Libor

Interest Frequency:

Quarterly

Loan Maturity: 01 Aug

2017

Current Loan Rate (Including Margin):

2.247%

Equivalent Fixed Rate (including Margin):

2.675%



Direction of Interest Rates in the Philippines

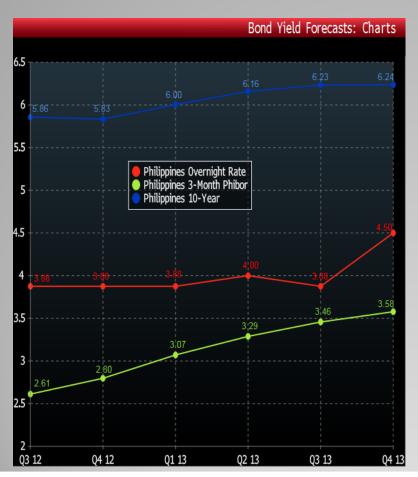
Historical direction of interest rates in the Philippines

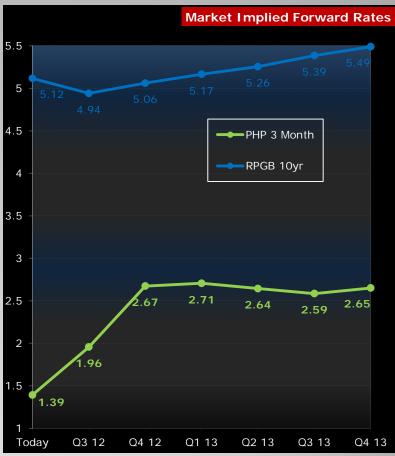
Policy rate at record low following the surprise rate cut last week.



Expectations for future PHP Rates?

Analyst Forecasts versus Market Implied Forward Rates:





PHP Onshore Interest Rate Swaps

Time to fix PHP Interest Rates?

PHP Onshore	PHP Onshore Swap Rates								Now Avg					
Tenor	Bid	Ask	Mid	Change	Today	#SD A/day	Low	Range	High	Avg	+/-BPS	#SD		
1) 1 YR	2.050	2.625	2.338	-0.575		-1.6	2.000		3.750	2.847	-22.2	-0.6		
2) 2 YR	2.200	2.750	2.475	-0.438		-1.9	2.375		3.700	2.946	-19.6	-0.8		
3) 3 YR	2.300	2.750	2.525	-0.387		-1.7	2.525	••	3.850	3.030	-28.0	-1.2		
4) 4 YR	2.400	2.750	2.575	-0.388		-1.5	2.575	••	4.150	3.124	-37.4	-1.5		
5) 5 YR	2.625	2.900	2.775	-0.012		0.0	2.763	•	4.500	3,418	-51.8	-1.6		
6) 7 YR	3.050	4.400	3.725	0.000		0.0	3,450		6.500	5.382	-98.2	-2.0		
7) 10 YR	3.250	5.500	4.375	0.000		0.0	4.375		8.000	6.832	-133.2	-3.2		

Hedging a variable rate PHP Loan

Using a fixed/float PHP Interest Rate Swap

Loan Details:

Size: PHP 10mio Margin: 180bps

Benchmark: 3 month PHP

PHIREF

Interest Frequency:

Quarterly

Loan Maturity: 01 Aug

2017

Current Loan Rate (Including Margin):

3.2015%

Equivalent Fixed Rate (including Margin):

4.7025%



Comparison of Sovereign **Debt Profiles**

Developed Markets Sovereign Debt Significant Levels of Debt as a % GDP

Country	Debt (MM)	5 Yr	Time	%Chg	S&P	Moody's	s Fitch	Price	Time	%Chg	Rate	Debt%GDP1
1) Japan	11,545,981	91.58	7/27	-5.18	AA-u		A+	78.39	14:28	08	.33	208.20
2) Greece	353,931	17325.00	7/27	-1.45	CCC	С	CCC	1.2292	14:28	25	.35	165.40
3) Iceland	18,985	272.03	7/27	-2.42	BBB-	Baa3	BBB-	121.4900	14:28	+.18	5.25	130.10
4) Italy	1,958,870	496.44	7/27	-5.38	BBB+u	Baa2	A-	1.2292	14:28	25	.35	120.10
5) Singapore	135,051				AAAu		AAA	1.2471	14:28	02	.38	118.20
6) Ireland	169,069	525.00	7/27	-4.70	BBB+	Ba1	BBB+	1.2292	14:28	25	.35	107.00
7) Portugal	212,887	820.50	7/27	-3.51	BB	Ba3	WD	1.2292	14:28	25	.35	103.30
8) Belgium	413,662	185.57	7/27	-4.35	AAu	Aa3	AA	1.2292	14:28	25	.35	99.70
9) France	1,686,487	165.04	7/27	-4.65	AA+u	Aaa	AAA	1.2292	14:28	25	.35	85.50
10) Canada	847,141				AAA	Aaa	AAA	1.0043	14:28	+.10	1.30	83.50
11) Germany	1,347,001	74.39	7/27	-3.63	AAAu	Aaa	AAA	1.2292	14:28	25	.35	81.50
12) United Kingdom	1,889,199	57.96	7/27	-1.76	AAAu	Aaa	AAA	1.5713	14:28	22	.75	79.50
13) Austria	247,990	124.13	7/27	-5.17	AA+	Aaa	AAA	1.2292	14:28	25	.35	72.10
14) United States	10,582,985	45.11	7/27	-7.05	AA+u		AAA	1.000	N.A.	+.00	.45	69.40
15) Spain	900,033	551.00	7/27	-6.64	BBB+	Baa3 ∗-	BBB	1.2292	14:28	25	.35	68.20
16) Netherlands	383,928		7/27	-4.75		Aaa	AAA	1.2292	14:28	25	.35	64.40
17) Switzerland	97,377	43.16	7/27	-3.59			AAA	.9771	14:28	+.25	.06	52.40
18) Finland	106,300	56.86	7/27	-1.02		Aaa	AAA	1.2292	14:28	25	.35	49.00
19) Norway	63,997	31.31	7/27	-2.16		Aaa	AAA	6.0606	14:28	+.26	2.18	48.40
20) Denmark	135,225	91.01	7/27	-3.60		Aaa	AAA	6.0518	14:28	+.21	.35	46.50
21) Sweden	141,523		7/27	-4.30		Aaa	AAA	6.8788	14:28	+.19	2.10	36.80
22) New Zealand	57,298	84.16	7/27	-3.45		Aaa	AA	.8085	14:28	15	2.67	33.70
23) Australia	246,133		7/27	-9.75		Aaa	AAA	1.0471	14:28	11	3.99	30.30
24) Hong Kong	98,682	69.12	7/27	-1.26	AAA	Aa1	ДД+	7.7557	14:28	02	.40	10.10

Emerging Markets Sovereign DebtLower Levels of Debt as a % GDP

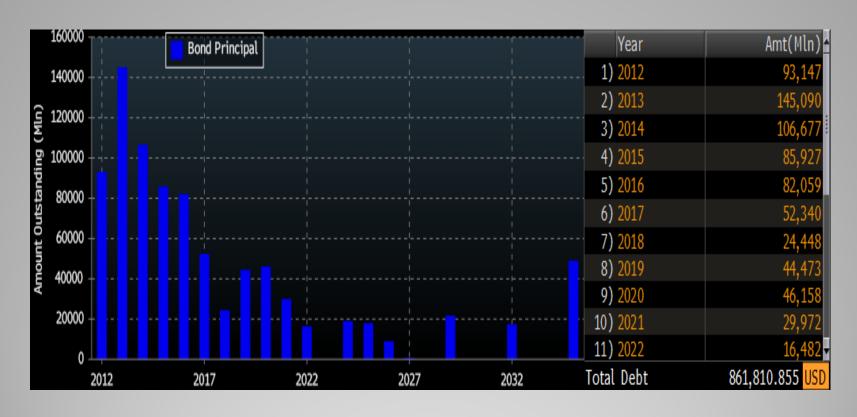
Country	Debt (MM)	5 Yr	Time	%Chg S&P	Moody	's Fitch	Price Tim	e %Chg	Rate	Debt%GDP1
1) Asia										
2) Malaysia	141,825	120.33	7/27	-1.48 A-	A3	A-	3.1508 14:3	34	3.20	53.50
3) Philippines	100,963	146.05	7/27	-3.19 BB+	Ba2	BB+	41.920 14:20	5 +.11	2.01	49.40
4) China	1,229,362	111.81	7/27	-5.98 AA-	Aa3	A+	6.3778 14:3	06	3.13	43.50
5) Thailand	102,513	142.50	7/27	-2.01 BBB+	Baa1	BBB	31.57 14:30	+.16	3.14	40.50
6) Taiwan	161,736			AA-u		A+	30.0460 14:20	518	.80	34.90
7) South Korea	377,385	120.28	7/27	-4.39 A	A1	A+	1137.60 14:3	+.00	3.20	33.30
8) Indonesia	148,754	175.70	7/27	-2.46 BB+	Baa3	BBB-	9479 14:20	5 +.11	4.78	24.50
9) Eastern Europe										
10) Hungary	1,072	483.39	7/27	-1.65 BB+	Ba1	BB+	228.81 14:3	+.34	7.18	82.60
11) Turkey	280,120	194.51	7/27	-4.99 BB	Ba1	BB+	1.8136 14:3	+.08	8.08	42.40
12) Czech Republic	82,776	123.33	7/27	-4.18 AA-	A1	A+	20.6030 14:3	+.30	.69	40.70
13) Russia	142,249	187.50	7/27	-2.33 BBB	Baa1	BBB	32.1768 14:3	+.50	7.28	8.70
14) Latin America										
15) Brazil	520,994	134.83	7/27	-5.37 BBB	Baa2	BBB	2.0222 14:0	13	7.65	54.40
16) Argentina	167,181	1112.50	7/27	-5.05 Bu	B3	В	4.5744 14:3		15.25	42.90
17) Mexico	466,786	113.66	7/27	-5.28 BBB	Baa1	BBB	13.2755 14:3		4.79	37.50
18) Chile	57,623	105.50	7/27	-2.31 A+	Aa3	A+	483.00 13:5	1 +.00	6.60	9.40
19) Middle-East/Afric			- 10 -							=
20) Israel	147,963	155.00	7/27	96 A+	A1	A	4.0525 14:3		2.09	74.00
21) South Africa	142,407	142.00	7/27	-3.40 BBB+	A3	BBB+	8.1718 14:3		5.07	35.60
22) Saudi Arabia	36,464	106.00	7/27	+.20 AA-		AA-	3.7503 14:3	+.00	.95	9.40

Sovereign CDS Market Implied Probability of Default from 5YR CDS Spreads

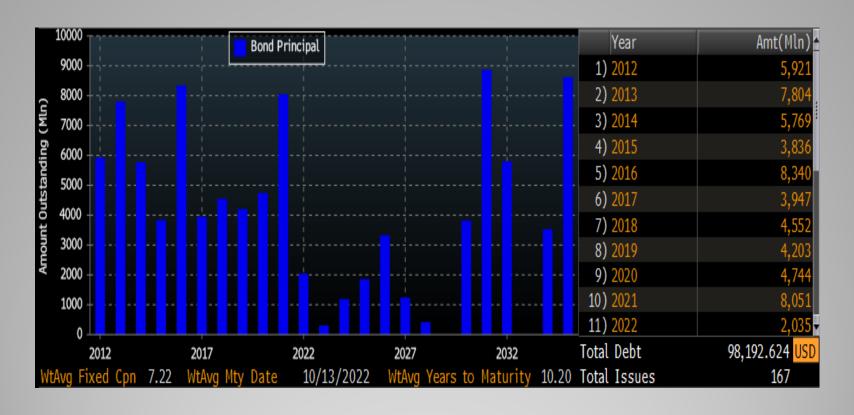


Sovereign	S&P	Moody's	5Yr CDS Spread	5Yr Default Probability
Spain	BBB+	Baa3 *-	551	38%
Italy	BBB+	Baa2	496	35%
Indonesia	BB+	Baa3	177	14%
Philippines	BB+	Ba2	148	12%

Spanish Debt Distribution
Significant Short Term Funding Requirements.



Philippines Debt Distribution A More Balanced Debt Profile



Conclusions



Interest Rates for safe haven countries are still near record lows and not expected to rise significantly in the near future.



Interest Rates in the Philippines are also expected to remain low due to global growth concerns and a strong Peso.



The Sovereign debt profile of the Philippines compares favorably to that of a significant number of developed market countries.