

Daily Economic & Fixed Income Report

Economic-Currencies-Commodities-Fixed Income-Politics-Policies

Economic & Fixed Income Analysis

23 August 2023

Economic and Fixed Income Indicators

Currencies	8/22/2023	Daily (%)	MTD (%)	YTD (%)
EUR/USD	1.08	(0.5)	(1.4)	1.3
GBP/USD	1.27	(0.2)	(0.8)	5.4
AUD/USD	0.64	0.1	(4.4)	(5.7)
USD/CHF	0.88	0.2	1.0	(4.8)
USD/JPY	145.9	(0.2)	2.5	11.3
Dollar Index	103.6	0.3	1.7	0.0
Bloomberg Asia Dollar Index	90.9	0.1	(2.3)	(3.9)
USD/KRW	1,336	(0.5)	4.8	5.5
USD/SGD	1.36	0.0	2.1	1.4
USD/CNY	7.29	0.1	2.1	5.7
USD/INR	82.9	(0.2)	0.8	0.2
USD/IDR	15,315	(0.1)	1.6	(1.6)
USD/IDR 1 Month NDF	15,340	(0.2)	1.5	(1.2)
USD/MYR	4.65	(0.0)	3.1	5.5
USD/THB	35.0	(0.6)	2.1	1.0
USD/PHP	56.4	0.4	2.7	1.2
Rates	8/22/2023	Daily (bp)	MTD (bp)	YTD (bp)
US Treasuries 10-Year	4.32	(1.4)	36.5	44.9
Germany Bund 10-Year	2.65	(5.8)	15.3	7.4
Japan JGB 10-Year	0.67	1.7	5.4	24.4
US SOFR Overnight	5.30	0.0	(1.0)	100.0
LIBOR 1-Month	5.43	0.0	(0.0)	104.1
Indonesia INDOGB 10-Year	6.67	4.8	41.6	(27.4)
Indonesia INDOGB 5-Year	6.34	3.8	35.2	13.9
Indonesia INDOGB 2-Year	6.19	2.4	11.6	11.0
INDOGB-UST (bp)	234.19	6.2	5.1	(72.3)
Indonesia INDON 10-Year	5.34	(3.6)	43.9	54.2
Indonesia INDON 5-Year	5.34	0.2	43.9	65.8
Indonesia INDON 2-Year	5.50	(0.5)	20.3	70.5
INDON-UST (bp)	101.39	(2.2)	7.4	9.3
Indonesia Corporate AAA 10-Year	7.54	7.8	42.2	(21.0)
Indonesia Corporate AAA 5-Year	7.03	4.5	30.0	22.5
Indonesia Corporate AAA 2-Year	6.69	1.1	(0.4)	20.7
INDONIA	5.65	(4.0)	(4.2)	62.6
JIBOR 1-Month	6.40	0.0	0.0	20.0
Bond Indexes	8/22/2023	Daily (%)	MTD (%)	YTD (%)
S&P Global Bond Developed Index	176.2	0.0	(1.5)	0.2
EMBI Global Index	785.3	0.2	(3.1)	2.2
iShare USD EMBI Index	84.0	0.3	(3.8)	(0.9)
ICBI Index	365.7	(0.3)	(0.9)	6.1
IDMA Index	100.1	0.0	(1.8)	2.8
INDOBeX Government Bond Index	357.9	(0.4)	(1.0)	6.1
INDOBeX Corporate Bond Index	412.3	(0.1)	(0.1)	5.1
Prices	8/22/2023	Daily (%)	MTD (%)	YTD (%)
ID CDS 5-Year	85.0	(5.5)	16.0	(14.7)
JCI	6,916	0.7	(0.2)	1.0
S&P-Goldman Sachs Commodity Index	578.2	(0.1)	(2.7)	(5.2)
FR0095	100.29	(0.1)	(1.5)	1.2
FR0096	102.50	(0.3)	(2.8)	2.0
FR0097	102.83	(0.5)	(4.1)	2.7
FR0098	103.09	(0.3)	(3.5)	2.6

Source: Bloomberg, SSI Research

Lionel Priyadi

Macro Strategist

lionel.priyadi@samuel.co.id

+6221 2854 8854

Economic Calendar

Time (Jakarta)	Country	Data and Event	Period	Survey	Prior
08/23/2023 07:30	JN	Jibun Bank Japan PMI Mfg	Aug P	--	49.60
08/23/2023 15:00	EC	HCOB Eurozone Manufacturing PMI	Aug P	42.60	42.70
08/23/2023 15:30	UK	S&P Global/CIPS UK Manufacturing PMI	Aug P	45.00	45.30
08/23/2023 20:45	US	S&P Global US Manufacturing PMI	Aug P	49.00	49.00

JN = Japan - US = United States - CH = China - EC = Eurozone Aggregate - ID = Indonesia - GE = Germany - FR = France - UK = United Kingdom

Yield INDOGB 10Y bertahan di area support teknikal

Pasar obligasi Indonesia sukses bertahan menghadapi tekanan aksi jual dari pasar global kemarin (22/8). Yield INDOGB 10Y yang sempat tertekan ke 6.7% mengalami rebound kembali ke area support teknikal dan ditutup di 6.67%. Akibatnya, indeks IDMA bergerak flat, meskipun indeks ICBI mengalami koreksi -0.3%. Melihat situasi di pasar global yang sudah mulai stabil semalam, yang ditandai dengan rebound indeks obligasi EMBI untuk negara berkembang 0.2% dan yield 10Y UST yang turun tipis -1 bps menjadi 4.32%, kami merekomendasikan posisi overweight terhadap INDOGB 10Y dan 15Y. Salah satu pertimbangan kami merekomendasikan posisi ini adalah meningkatnya dovishness di kalangan pejabat the Fed. Hal ini terlihat dari rilis risalah rapat FOMC Discount Window tadi malam yang mengindikasikan posisi dovish dari Presiden New York Fed John Williams. Kami memperkirakan yield 10Y INDOGB dan Rupiah akan mengalami konsolidasi di rentang masing-masing 6.55-6.65% dan IDR 15,300-15,400 per USD hari ini.

Fixed Income News: Tingkat permintaan terhadap obligasi primer naik tipis pada lelang SUN kemarin menjadi IDR 34.6tn (8/8: IDR 32.5tn). Kenaikan ini jauh melebihi perkiraan kami di kisaran IDR 20-25tn. Menurut kami, salah satu penyebab kenaikan permintaan di lelang SUN kemarin adalah dirilisnya instrumen obligasi baru FR0100 (10Y) dengan yield 6.72%, kupon bunga 6.625%, dan jumlah nominal (suplai) yang dimenangkan IDR 6.85tn. Selain itu, Kementerian Keuangan kembali melakukan pembatasan penerbitan SUN baru yang turun menjadi IDR 7.87tn (8/8: IDR 9.85tn). Menurut kami, tindakan ini berdampak positif dalam menjaga yield 10Y INDOGB di rentang support teknikal 6.6-6.67%. (DJPPR)

Global Economic News: Krisis politik di Thailand berakhir dengan pengangkatan perdana menteri baru, Srettha Thavisin. Pengangkatan Srettha sebagai PM merupakan kompromi antara partai oposisi yang disokong oleh mantan PM Thaksin Shinawatra, yang diturunkan melalui kudeta militer pada September 2006, dengan militer Thailand melalui proksi partai Palang Pracharath (40 kursi) dan United Thai Nation (36 kursi). Menurut kami, kompromi ini dapat berdampak positif terhadap persepsi investor asing atas stabilitas politik di Asia Tenggara, termasuk Indonesia yang akan menghadapi Pemilu pada 2024. (Nikkei)

Domestic Economic News: Pemerintah kaji opsi merger Garuda Indonesia, Citilink, dan Pelita Air. Merger ini memiliki dua tujuan, yaitu restrukturisasi kesehatan finansial Garuda Indonesia dan mendukung ekspansi industri penerbangan nasional dengan cara menaikkan ketersediaan jumlah pesawat domestik dari 550 menjadi 729. Menteri BUMN Erick Thohir mengutip keberhasilan merger Pelindo dalam menurunkan biaya logistik nasional dari 11% menjadi 23% sebagai rasionalisasi rencana merger ini. Menurut kami, merger ini baru akan dapat dilakukan setelah Pemilihan Umum 2024 selesai. (Kontan)

Recommendation: FR0040, FR0056, FR0084, FR0086, FR0090, PBS032, PBS036.

Daily Economic & Fixed Income Report

Economic-Currencies-Commodities-Fixed Income-Politics-Policies

Economic & Fixed Income Analysis

23 August 2023

No.	Series	Issue Date	Maturity Date	Tenure (Year)	Coupon Rate	Actual Price	Yield to Maturity	Yield Curve	Valuation Price	Spread to YC (bps)	Recommendation	Duration
1	FR70	8/29/2013	3/15/2024	0.56	8.4%	101.28	6.0%	5.0%	101.85	97.80	Cheap	0.55
2	FR77	9/27/2018	5/15/2024	0.73	8.1%	101.40	6.1%	5.1%	102.11	95.02	Cheap	0.72
3	FR44	4/19/2007	9/15/2024	1.07	10.0%	103.90	6.1%	5.4%	104.75	75.79	Cheap	1.01
4	FR81	8/1/2019	6/15/2025	1.82	6.5%	100.61	6.1%	5.7%	101.28	38.07	Cheap	1.71
5	FR40	9/21/2006	9/15/2025	2.07	11.0%	109.22	6.2%	5.8%	109.92	31.14	Cheap	1.85
6	FR84	5/4/2020	2/15/2026	2.49	7.3%	102.65	6.1%	6.0%	102.92	10.99	Cheap	2.29
7	FR86	8/13/2020	4/15/2026	2.65	5.5%	98.34	6.2%	6.0%	98.77	17.65	Cheap	2.46
8	FR56	9/23/2010	9/15/2026	3.07	8.4%	105.85	6.2%	6.1%	106.28	14.22	Cheap	2.71
9	FR37	5/18/2006	9/15/2026	3.07	12.0%	115.85	6.2%	6.1%	116.28	12.21	Cheap	2.60
10	FR90	7/8/2021	4/15/2027	3.65	5.1%	96.43	6.2%	6.2%	96.55	3.81	Cheap	3.32
11	FR59	9/15/2011	5/15/2027	3.73	7.0%	102.41	6.3%	6.2%	102.60	5.05	Cheap	3.32
12	FR42	1/25/2007	7/15/2027	3.90	10.3%	114.16	6.1%	6.2%	113.72	(12.98)	Expensive	3.28
13	FR94	3/4/2022	1/15/2028	4.40	5.6%	97.68	6.2%	6.3%	97.39	(7.73)	Expensive	3.90
14	FR47	8/30/2007	2/15/2028	4.49	10.0%	115.21	6.1%	6.3%	114.29	(23.18)	Expensive	3.73
15	FR64	8/13/2012	5/15/2028	4.73	6.1%	99.41	6.3%	6.3%	99.22	(5.02)	Expensive	4.14
16	FR95	8/19/2022	8/15/2028	4.99	6.4%	100.28	6.3%	6.3%	100.15	(3.23)	Expensive	4.30
17	FR99	1/27/2023	1/15/2029	5.41	6.4%	100.36	6.3%	6.4%	100.13	(5.36)	Expensive	4.58
18	FR71	9/12/2013	3/15/2029	5.57	9.0%	112.13	6.4%	6.4%	112.11	(0.90)	Expensive	4.45
19	FR78	9/27/2018	5/15/2029	5.73	8.3%	108.22	6.5%	6.4%	108.80	11.09	Cheap	4.67
20	FR52	8/20/2009	8/15/2030	6.99	10.5%	121.95	6.5%	6.5%	122.46	7.50	Cheap	5.24
21	FR82	8/1/2019	9/15/2030	7.07	7.0%	102.38	6.6%	6.5%	103.04	11.41	Cheap	5.58
22	FRSDG1	10/27/2022	10/15/2030	7.15	7.4%	104.75	6.5%	6.5%	105.17	6.83	Cheap	5.62
23	FR87	8/13/2020	2/15/2031	7.49	6.5%	99.46	6.6%	6.5%	100.15	11.75	Cheap	5.97
24	FR85	5/4/2020	4/15/2031	7.65	7.8%	106.53	6.6%	6.5%	107.57	16.47	Cheap	5.86
25	FR73	8/6/2015	5/15/2031	7.73	8.8%	113.15	6.6%	6.5%	113.62	6.83	Cheap	5.83
26	FR54	7/22/2010	7/15/2031	7.90	9.5%	118.24	6.5%	6.5%	118.39	1.69	Cheap	5.80
27	FR91	7/8/2021	4/15/2032	8.65	6.4%	98.41	6.6%	6.5%	99.12	10.82	Cheap	6.65
28	FR58	7/21/2011	6/15/2032	8.82	8.3%	110.68	6.6%	6.5%	111.51	11.27	Cheap	6.40
29	FR74	11/10/2016	8/15/2032	8.99	7.5%	106.42	6.5%	6.5%	106.60	2.44	Cheap	6.69
30	FR96	8/19/2022	2/15/2033	9.49	7.0%	102.48	6.6%	6.5%	103.28	11.24	Cheap	7.03
31	FR65	8/30/2012	5/15/2033	9.74	6.6%	99.88	6.6%	6.5%	100.64	10.40	Cheap	7.24
32	FR68	8/1/2013	3/15/2034	10.57	8.4%	112.98	6.6%	6.6%	113.75	9.24	Cheap	7.24
33	FR80	7/4/2019	6/15/2035	11.82	7.5%	105.81	6.8%	6.6%	107.55	20.39	Cheap	7.95
34	FR72	7/9/2015	5/15/2036	12.74	8.3%	114.08	6.6%	6.6%	114.21	1.18	Cheap	8.31
35	FR88	1/7/2021	6/15/2036	12.82	6.3%	99.63	6.3%	6.6%	97.13	(29.38)	Expensive	8.80
36	FR45	5/24/2007	5/15/2037	13.74	9.8%	125.65	6.8%	6.6%	128.22	24.10	Cheap	8.37
37	FR93	1/6/2022	7/15/2037	13.91	6.4%	100.44	6.3%	6.6%	97.99	(27.12)	Expensive	9.27
38	FR75	8/10/2017	5/15/2038	14.74	7.5%	106.13	6.8%	6.6%	108.34	22.63	Cheap	9.21
39	FR98	9/15/2022	6/15/2038	14.82	7.1%	103.09	6.8%	6.6%	104.85	18.31	Cheap	9.24
40	FR50	1/24/2008	7/15/2038	14.91	10.5%	135.58	6.7%	6.6%	136.56	8.11	Cheap	8.64
41	FR79	1/7/2019	4/15/2039	15.66	8.4%	116.15	6.7%	6.6%	117.02	7.83	Cheap	9.30
42	FR83	11/7/2019	4/15/2040	16.66	7.5%	106.18	6.9%	6.6%	108.79	24.85	Cheap	9.79
43	FR57	4/21/2011	5/15/2041	17.74	9.5%	128.43	6.7%	6.6%	129.70	9.90	Cheap	9.76
44	FR62	2/9/2012	4/15/2042	18.66	6.4%	98.27	6.5%	6.6%	97.25	(9.82)	Expensive	10.89
45	FR92	7/8/2021	6/15/2042	18.83	7.1%	103.68	6.8%	6.6%	105.22	13.98	Cheap	10.52
46	FR97	8/19/2022	6/15/2043	19.83	7.1%	102.78	6.9%	6.6%	105.30	22.40	Cheap	10.75
47	FR67	7/18/2013	2/15/2044	20.50	8.8%	120.47	6.9%	6.6%	123.40	22.80	Cheap	10.60
48	FR76	9/22/2017	5/15/2048	24.75	7.4%	107.31	6.8%	6.7%	108.60	10.06	Cheap	11.96
49	FR89	1/7/2021	8/15/2051	28.00	6.9%	100.54	6.8%	6.7%	102.58	16.10	Cheap	12.62

Daily Economic & Fixed Income Report

Economic-Currencies-Commodities-Fixed Income-Politics-Policies



Your Lifelong Investment Partner

Economic & Fixed Income Analysis

23 August 2023

No.	Series	Issue Date	Maturity Date	Tenure (Year)	Coupon Rate	Actual Price	Yield to Maturity	Yield Curve	Valuation Price	Spread to YC (bps)	Recommendation	Duration
1	PBS31	7/29/2021	7/15/2024	0.90	4.0%	98.47	5.8%	5.9%	98.37	(9.95)	Expensive	0.88
2	PBS26	10/17/2019	10/15/2024	1.15	6.6%	100.86	5.8%	5.9%	100.82	(5.17)	Expensive	1.11
3	PBS36	8/25/2022	8/15/2025	1.98	5.4%	98.44	6.2%	5.9%	99.08	35.17	Cheap	1.89
4	PBS17	1/11/2018	10/15/2025	2.15	6.1%	100.68	5.8%	5.9%	100.50	(9.69)	Expensive	2.02
5	PBS32	7/29/2021	7/15/2026	2.90	4.9%	97.22	5.9%	5.9%	97.30	3.49	Cheap	2.70
6	PBS21	12/5/2018	11/15/2026	3.24	8.5%	107.23	6.0%	5.9%	107.51	7.97	Cheap	2.87
7	PBS3	2/2/2012	1/15/2027	3.40	6.0%	100.19	5.9%	5.9%	100.23	0.95	Cheap	3.08
8	PBS20	10/22/2018	10/15/2027	4.15	9.0%	110.99	6.0%	6.0%	111.00	(0.68)	Expensive	3.52
9	PBS18	6/4/2018	5/15/2028	4.73	7.6%	106.59	6.0%	6.0%	106.59	(0.64)	Expensive	4.04
10	PBS30	6/4/2021	7/15/2028	4.90	5.9%	100.40	5.8%	6.0%	99.41	(23.94)	Expensive	4.27
11	PBSG1	9/22/2022	9/15/2029	6.07	6.6%	103.06	6.0%	6.1%	102.64	(8.39)	Expensive	5.00
12	PBS23	5/15/2019	5/15/2030	6.73	8.1%	110.55	6.2%	6.1%	110.80	3.72	Cheap	5.33
13	PBS12	1/28/2016	11/15/2031	8.24	8.9%	116.09	6.3%	6.2%	116.76	8.90	Cheap	6.11
14	PBS24	5/28/2019	5/15/2032	8.74	8.4%	113.74	6.3%	6.3%	113.97	2.79	Cheap	6.45
15	PBS25	5/29/2019	5/15/2033	9.74	8.4%	114.12	6.4%	6.3%	114.69	6.88	Cheap	6.96
16	PBS29	1/14/2021	3/15/2034	10.57	6.4%	100.25	6.3%	6.4%	99.99	(3.48)	Expensive	7.68
17	PBS22	1/24/2019	4/15/2034	10.65	8.6%	113.95	6.8%	6.4%	117.16	38.22	Cheap	7.27
18	PBS37	1/12/2023	3/15/2036	12.57	6.9%	101.51	6.7%	6.5%	103.45	22.45	Cheap	8.44
19	PBS4	2/16/2012	2/15/2037	13.50	6.1%	97.22	6.4%	6.5%	96.38	(9.66)	Expensive	9.21
20	PBS34	1/13/2022	6/15/2039	15.82	6.5%	100.26	6.5%	6.6%	99.15	(11.53)	Expensive	9.88
21	PBS7	9/29/2014	9/15/2040	17.08	9.0%	121.38	6.9%	6.6%	124.09	23.09	Cheap	9.50
22	PBS35	3/30/2022	3/15/2042	18.58	6.8%	99.52	6.8%	6.7%	100.94	13.42	Cheap	10.56
23	PBS5	5/2/2013	4/15/2043	19.66	6.8%	100.63	6.7%	6.7%	100.70	0.53	Cheap	10.97
24	PBS28	7/23/2020	10/15/2046	23.16	7.8%	105.02	7.3%	6.7%	111.64	54.72	Cheap	11.12
25	PBS33	1/13/2022	6/15/2047	23.83	6.8%	94.26	7.3%	6.8%	99.89	49.96	Cheap	11.51
26	PBS15	7/21/2017	7/15/2047	23.91	8.0%	113.39	6.9%	6.8%	114.59	9.13	Cheap	11.48

Daily Economic & Fixed Income Report

Economic-Currencies-Commodities-Fixed Income-Politics-Policies

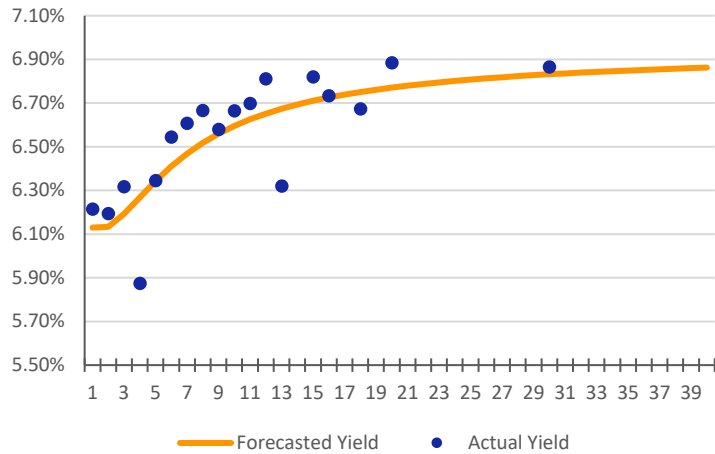


Your Lifelong Investment Partner

Economic & Fixed Income Analysis

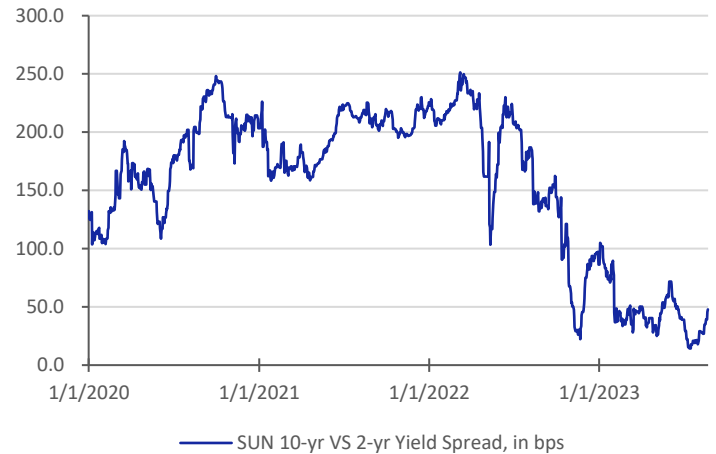
23 August 2023

Chart 1. Samuel's Yield Curve Forecast



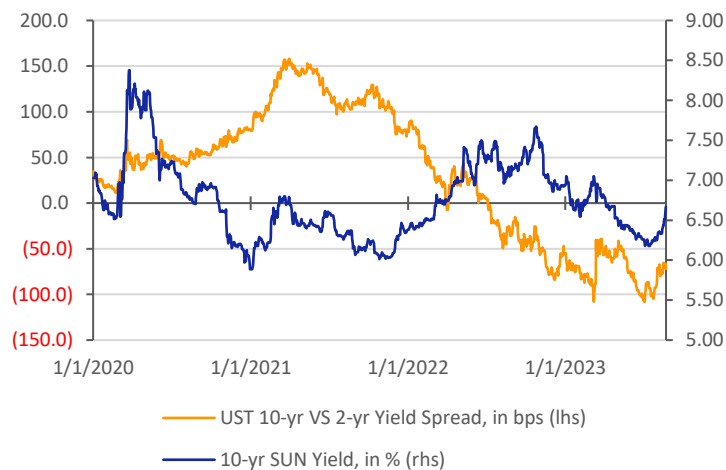
Source: Bloomberg

Chart 2. Leading Indicator for Indonesian Economic Recession



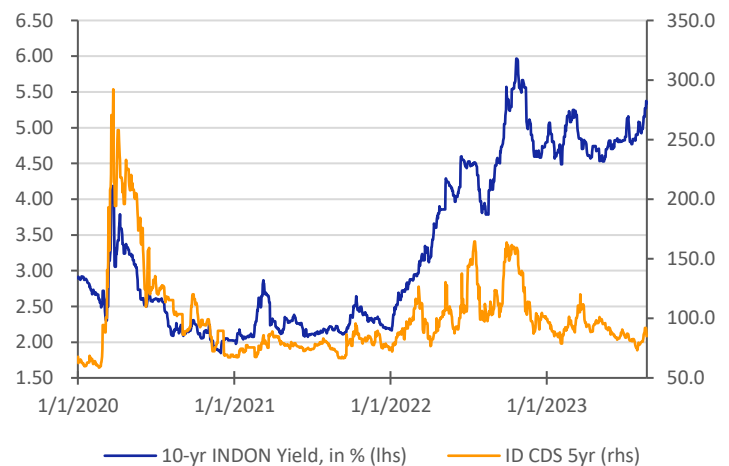
Source: Bloomberg

Chart 3. Leading Indicator for US-Indonesia Bond Market Linkage



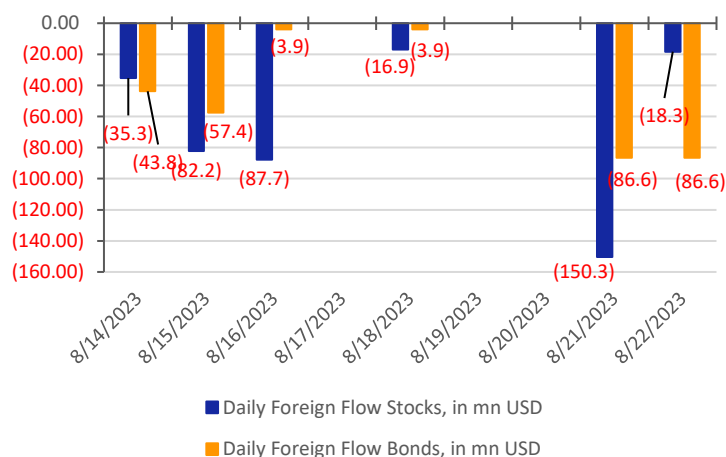
Source: Bloomberg

Chart 4. Leading Indicator for Bond Market Volatility



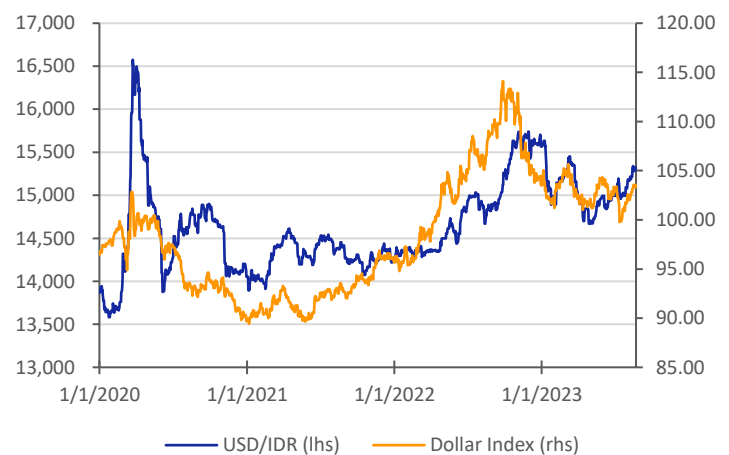
Source: Bloomberg

Chart 5. Foreign Capital Flow Indicator



Source: Bloomberg

Chart 6. Exchange Rate Indicator



Source: Bloomberg

Daily Economic & Fixed Income Report

Economic-Currencies-Commodities-Fixed Income-Politics-Policies



Your Lifelong Investment Partner

Economic & Fixed Income Analysis

23 August 2023

Research Team			
Prasetya Gunadi	Head of Equity Research, Strategy, Banking, Digital Banks	prasetya.gunadi@samuel.co.id	+6221 2854 8320
Lionel Priyadi	Macro Equity Strategist	lionel.priyadi@samuel.co.id	+6221 2854 8854
Muhamad Alfatih, CSA, CTA, CFTe	Senior Technical Analyst	m.alfatih@samuel.co.id	+6221 2854 8129
Yosua Zisokhi	Cement, Cigarette, Paper, Plantation, Telco Infra, Chemicals	yosua.zisokhi@samuel.co.id	+6221 2854 8387
M. Farras Farhan	Media, Poultry, Oil & Gas, Technology	farras.farhan@samuel.co.id	+6221 2854 8346
Pebe Peresia	Automotive, Consumer Staples, Retail	pebe.peresia@samuel.co.id	+6221 2854 8339
Juan Oktavianus Harahap	Coal, Metal Mining	juan.oktavianus@samuel.co.id	+6221 2854 8846
Jonathan Guyadi	Banking, Healthcare, Telco	jonathan.guyadi@samuel.co.id	+6221 2854 8321
Adolf Richardo	Editor	adolfrichardo@samuel.co.id	+6221 2864 8397
Ashalia Fitri Yuliana	Research Associate	ashalia.fitri@samuel.co.id	+6221 2854 8389
Daniel Aditya Widjaja	Research Associate	daniel.aditya@samuel.co.id	+6221 2854 8322
Laurencia Hiemas	Research Associate	laurencia.hiemas@samuel.co.id	+6221 2854 8392
Brandon Boedhiman	Research Associate	brandon.boedhiman@samuel.co.id	+6221 2854 8392
Haikal Putra	Research Associate	haikal.putra@samuel.co.id	+6221 2854 8353

Equity Institutional Team			
Benny Bambang Soebagjo	Head of Institutional Equity Sales	benny.soebagjo@samuel.co.id	+6221 2854 8312
Ronny Ardianto	Institutional Equity Sales	ronny.ardianto@samuel.co.id	+6221 2854 8399
Anthony Yunus	Institutional Equity Sales	anthony.yunus@samuel.co.id	+6221 2854 8314
Widya Meidrianto	Institutional Equity Sales	widya.meidrianto@samuel.co.id	+6221 2854 8317
Fachruly Fiater	Institutional Sales Trader	fachruly.fiater@samuel.co.id	+6221 2854 8325
Lucia Irawati	Institutional Sales Trader	lucia.irawati@samuel.co.id	+6221 2854 8173
Alexander Tayus	Institutional Equity Dealer	alexander.tayus@samuel.co.id	+6221 2854 8319
Leonardo Christian	Institutional Equity Dealer	leonardo.christian@samuel.co.id	+6221 2854 8147

Equity Retail Team			
Joseph Soegandhi	Head of Equity	joseph.soegandhi@samuel.co.id	+6221 2854 8872
Damargumilang	Head of Equity Retail	damargumilang@samuel.co.id	+6221 2854 8309
Clarice Wijana	Head of Equity Sales Support	clarice.wijana@samuel.co.id	+6221 2854 8395
Gitta Wahyu Retnani	Equity Sales & Trainer	gitta.wahyu@samuel.co.id	+6221 2854 8365
Vincentius Darren	Equity Sales	darren@samuel.co.id	+6221 2854 8348
Michael Alexander	Equity Sales	michael.alexander@samuel.co.id	+6221 2854 8369
Sylviawati	Equity Sales	sylviawati@samuel.co.id	+6221 2854 8112
Wandha Ahmad	Equity Sales	wandha.ahmad@samuel.co.id	+6221 2854 8316
Handa Sandiawan	Equity Sales	handa.sandiawan@samuel.co.id	+6221 2854 8302
Denzel Obaja	Equity Sales	denzel.obaja@samuel.co.id	+6221 2854 8342
Wahyudi Budiyo	Dealer	wahyudi.budiyo@samuel.co.id	+6221 2854 8152

Fixed Income Sales Team			
R. Virine Tresna Sundari	Head of Fixed Income	virine.sundari@samuel.co.id	+6221 2854 8170
Rudianto Nugroho	Fixed Income Sales	rudianto.nugroho@samuel.co.id	+6221 2854 8306
Sany Rizal Keliobas	Fixed Income Sales	sany.rizal@samuel.co.id	+6221 2854 8337
Safitri	Fixed Income Sales	safitri@samuel.co.id	+6221 2854 8376
Khairanni	Fixed Income Sales	khairanni@samuel.co.id	+6221 2854 8104
Saldy Achmad Yanuar	Fixed Income Sales	saldy.achmad@samuel.co.id	+6221 2854 8384
Nadya Attahira	Fixed Income Sales	nadya.attahira@samuel.co.id	+6221 2854 8305

DISCLAIMERS: Analyst Certification: The views expressed in this research accurately reflect the personal views of the analyst(s) about the subject securities or issuers and no part of the compensation of the analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations or views in this research. The analyst(s) principally responsible for the preparation of this research has taken reasonable care to achieve and maintain independence and objectivity in making any recommendations. This document is for information only and for the use of the recipient. It is not to be reproduced or copied or made available to others. Under no circumstances is it to be considered as an offer to sell or solicitation to buy any security. Any recommendation contained in this report may not be suitable for all investors. Moreover, although the information contained herein has been obtained from sources believed to be reliable, its accuracy, completeness and reliability cannot be guaranteed. All rights reserved by PT Samuel Sekuritas Indonesia.