

PART OF THE ALPHA REAL CAPITAL FAMILY OF COMPANIES

'TICS': THE TEMPO ISSUER AND COUNTERPARTY SCORECARDS - TICS MONTHLY MOVEMENT: DECEMBER 2022 -

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- NOT FOR USE WITH CLIENTS -

Introducing the Alpha Real Capital family of companies ('Alpha') ... TEMPO PRODUCT



KEY ALPHA STATISTICS: (as at 31 Mar 2022)

Headquartered in London, Alpha Real Capital was founded in 2005 as an international, co-investing, investment management and wealth management solutions business:

- Alpha Real Capital LLP sits at the heart of the Alpha Real Capital family of companies ('Alpha'), which benefit from materially common ultimate beneficial ownership

A 160+ professional team operates across the UK, Europe and Asia, focusing on 4 core areas: i) real estate investment management; ii) long income and index-linked income; iii) infrastructure, social impact and renewable energy; and iv) wealth management solutions

£4.5bn **AUM**

The 'Alpha way' is to identify specialist teams with expertise in areas of strategic focus and interest and to support these teams to deliver best-in-class investor solutions:

170+

- Alpha teams benefit from centralised resources, including: financial; operational; compliance; research; marketing; business development and capital-raising

Professional team

... and from Alpha's fundamental interest to 'do the right things'

The 'Alpha DNA' is evident across the Alpha range of funds, products and services:

Core areas

- Alpha aims to offer attractive risk / return profile investments for investors, with exemplary support and service for business partners, professional advisers and investors

Alpha engages with institutional investors, professional investors (including family offices, UHNW and HNW private investors) and professionally advised retail investors:

- on the retail side, Alpha operates through TIME Investments and Tempo Structured Products

Understanding TICS: materials for professional advisers ...



- This powerpoint provides our 'TICS Monthly Movement: December 2022'
- Please also see:
 - our 'TICS: Introduction and overview' presentation
 - our 'TICS: Methodology (scoring and weighting)' presentation
 - a recording of our 'TICS: Workshop' video webinar presentation for professional advisers is also available:

https://tempo-sp.com/newsroom/recorded-video-webinars

TICS ...



- TICS covers all 30 G-SIBs, plus a small number of D-SIBs and / or issuers of retail structured products, including a number of institutions that some issuers credit-link their products to
- We update and publish TICS each month, producing 9 outputs:

TICS

- 1. TICS Category Scorecard Credit ratings
- 2. TICS Category Scorecard CDS
- 3. TICS Category Scorecard Fundamentals (balance sheet)
- 4. TICS Category Scorecard Fundamentals (market indicators)
- 5. TICS Category Scorecard Systemic importance
- 6. TICS Amalgamated Scorecard
- 7. TICS Side-by-Side View
- 8. TICS Reports
- 9. TICS Monthly Movement

Understanding what TICS is: and what TICS is not ...



- We publish TICS to provide transparency regarding our internal processes and to provide a resource to support professional advisers in meeting their regulatory research and due diligence responsibilities:
 - but it is important that professional advisers using TICS understand what TICS is: and what TICS is not

What TICS is:

- we developed TICS for internal purposes in order to aid us in analysing, assessing, understanding and comparing issuers / counterparties, to help us identify strong issuers / counterparties in our role as an independent plan manager able to select and deal with issuers / counterparties without bias
- TICS compiles multiple Factors across various Categories pertinent to assessing and considering issuer / counterparty financial strength / credit risk, using a robust methodology, including a scoring system
- the widely recognised measures and indicators of financial strength / credit risk and scoring system provoke and support more detailed and objective analysis, consideration and understanding - including comparison of issuers / counterparties

What TICS is not:

- TICS is not independent research or an investment recommendation
- we do not provide any warranty regarding the TICS, the data, its methodology, weighting or scoring: and we expressly exclude any liability for any judgement or interpretation based upon or influenced by TICS
- professional advisers should reach their own judgement of issuer / counterparty financial strength / credit risk
- while the scoring system within TICS 'ranks' issuers / counterparties, professional advisers should understand that this is not the intended purpose of TICS: the purpose of TICS is to provoke and support detailed and objective **analysis**, **consideration** and **understanding** including **comparison** of issuers / counterparties

TICS Monthly Movement ...



- Every month, we monitor the monthly movement within TICS, including the TICS Amalgamated Scorecard and the TICS Category Scorecards:
 - we identify and highlight movement up and down the rankings
 - we draw attention to any issuer / counterparty that moves up or down by more than 5 places

TICS Monthly Movement: December 2022 headlines ...



TICS Amalgamated Scorecard

- overall, the TICS Amalgamated scores for December are lower (i.e. improved) compared to November, on average, driven by tightening CDS levels
- the following bank(s) moved up by 5 places or more: Bank of China, Bank of America
- the following bank(s) moved down by 5 places or more: Sumitomo, Mizuho

TICS Category Scorecard - Credit ratings

- no banks moved by 5 places or more

TICS Category Scorecard - CDS

- the following bank(s) moved up by 5 places or more: Credit Agricole, Bank of China, Aviva, RBS, Prudential
- the following bank(s) moved down by 5 places or more: Nordea, UBS, Sumitomo, Santander, Mizuho,
 Danske Bank

TICS Category Scorecard - Fundamentals (balance sheet):

- the following bank(s) moved down by 5 places or more: ING Bank

TICS Category Scorecard - Fundamentals (market indicators):

- no banks moved by 5 places or more

TICS Monthly Movement: December 2022 headlines (contd) ...



- TICS Category Scorecard Systemic importance:
 - no banks moved by 5 places or more

TICS Monthly Movement: December 2022 ...



TICS AMALGAMATED SCORECARD				
ISSUER / COUNTERPARTY	MOVEMENT +/-	PREVIOUS RANK	NEW RANK	COMMENT
Bank of China	+5	13	8	Lower i.e. improved CDS score
Bank of America	+5	14	9	Lower i.e. improved CDS score
Sumitomo	-12	8	20	Higher i.e. worse CDS score
Mizuho	-10	16	26	Higher i.e. worse CDS score

TICS CATEGORY SCOREACRD: CREDIT RATINGS										
ISSUER / COUNTERPARTY MOVEMENT PREVIOUS NEW RANK COMMENT										
N/A										

TICS CATEGORY SCORECARD: CDS										
ISSUER / COUNTERPARTY	MOVEMENT +/-	PREVIOUS RANK	NEW RANK	COMMENT						
Credit Agricole	+10	12	2	Lower i.e. improved 5y and 1y CDS levels						
Bank of China	+8	30	22	Lower i.e. improved 5y and 1y CDS levels						
Aviva	+14	22	8	Lower i.e. improved 5y and 1y CDS levels						





TICS CATEGORY SCORECARD: CE	S			
ISSUER / COUNTERPARTY	MOVEMENT +/-	PREVIOUS RANK	NEW RANK	COMMENT
RBS	+6	15	9	Lower i.e. improved 5y and 1y CDS levels
Prudential	+22	27	5	Lower i.e. improved 5y and 1y CDS levels
Nordea	-6	9	15	Movement relative to other banks
UBS	-7	19	26	Movement relative to other banks
Sumitomo	-13	3	16	Higher i.e. worse 5y CDS level
Santander	-5	13	18	Movement relative to other banks
Mizuho	-21	2	23	Higher i.e. worse 5y CDS level
Danske Bank	-7	10	17	Movement relative to other banks

TICS CATEGORY SCORECARD: FUNDAMENTALS (BALANCE SHEET)										
ISSUER / COUNTERPARTY MOVEMENT PREVIOUS NEW RANK COMMENT										
ING Bank	-5	23	28	Higher i.e. worse price-to-book ratio						





TICS CATEGORY SCORECARD: FUNDAMENTALS (MARKET INDICATORS)										
ISSUER / COUNTERPARTY MOVEMENT PREVIOUS NEW RANK COMMENT										
N/A										

TICS CATEGORY SCORECARD: SYSTEMIC IMPORTANCE											
ISSUER / COUNTERPARTY MOVEMENT PREVIOUS NEW RANK COMMENT											
N/A											

TICS Amalgamated Scorecard - Monthly Movement: Dec 22 ...



				De	cember 20)22	No	vember 2	022	0	ctober 202	22
	Bank / Institution	Region	Sovereign	Amalg. Score	Rank	+/- Rank change	Amalg. Score	Rank	+/- Rank change	Amalg. Score	Rank	+/- Rank change
1	ICBC	Asia	China	398.2	1	0	398.2	1	0	398.2	1	0
2	HSBC	UK	UK	405.1	2	1	426.9	3	-1	426.6	2	1
3	CCB	Asia	China	420.0	3	-1	425.9	2	1	431.2	3	1
4	JP Morgan	North America	USA	433.5	4	2	455.3	6	0	459.8	8	1
5	Toronto Dominion	North America	Canada	438.8	5	-1	437.3	4	0	434.3	2	1
6	RBC	North America	Canada	444.3	6	-1	445.8	5	0	445.8	5	0
7	Credit Agricole	Europe	France	452.7	7	3	482.7	10	3	489.2	12	0
8	Bank of China	Asia	China	453.2	8	5	489.2	13	-4	478.7	11	0
9	Bank of America	North America	USA	464.0	9	5	491.0	14	1	493.0	13	1
10	BNP Paribas	Europe	France	464.7	10	-1	480.4	9	-1	477.4	10	0
11	Nordea	Europe	Sweden	472.8	11	-4	475.8	7	0	474.3	6	0
12	BONYM	North America	USA	482.5	12	0	484.0	12	-1	484.5	7	0
13	State Street	North America	USA	483.8	13	-2	483.8	11	1	488.0	15	2
14	UBS AG	Europe	Switzerland	492.1	14	4	497.3	18	-1	498.8	17	-1
15	BPCE Natixis	Europe	France	492.7	15	0	492.7	15	-1	492.7	9	-1
16	Wells Fargo	North America	USA	494.8	16	4	512.8	20	0	523.3	20	0
17	Morgan Stanley	North America	USA	498.9	17	4	528.9	21	1	537.9	22	0
18	ING Bank	Europe	Netherlands	500.2	18	-1	497.2	17	1	504.7	19	0
19	Mitsubishi	Asia	Japan	512.1	19	0	512.1	19	0	509.1	14	-1
20	Sumitomo	Asia	Japan	519.8	20	-12	480.1	8	2	480.1	16	-1
21	MSIP	UK	ÚK	533.0	21	1	533.0	22	-1	533.0	23	0
22	Societe Generale	Europe	France	533.5	22	3	558.3	25	-1	559.8	25	0
23	Goldman Sachs	North America	USA	536.7	23	3	558.9	26	1	569.4	27	1
24	Citi	North America	USA	539.0	24	0	557.0	24	2	567.5	26	1
25	Santander	Europe	Spain	539.5	25	-2	547.8	23	0	556.8	24	0
26	Mizuho	Asia	Japan	541.3	26	-10	494.1	16	0	495.6	18	0
27	ABC	Asia	China	561.8	27	0	563.3	27	-2	561.8	21	0
28	Standard Chartered	UK	UK	563.4	28	2	587.4	30	-2	579.9	30	-4
29	Danske Bank	Europe	Denmark	564.8	29	-1	573.8	28	1	584.1	29	1
30	Lloyds	UK	UK	569.2	30	1	588.7	31	0	596.2	28	1
31	Aviva	UK	UK	570.1	31	4	623.6	35	0	655.7	35	1
32	RBS	UK	UK	580.3	32	2	607.3	34	0	623.5	34	1
33	Deutsche Bank	Europe	Germany	586.1	33	-4	586.1	29	3	604.3	33	0
34	Prudential	UK	UK	589.2	34	2	647.0	36	0	659.8	37	-6
35	Barclays	UK	UK	592.5	35	-2	605.3	33	0	614.3	32	2
36	Investec Bank plc	UK	UK	597.1	36	-4	598.9	32	-2	593.6	31	1
37	Nomura	Asia	Japan	629.4	37	0	647.4	37	0	663.2	36	1
38	Unicredit Group	Europe	Italy	639.5	38	0	655.3	38	0	684.3	38	1
39	Bank of Ireland	Europe	Ireland	704.2	39	1	711.2	40	0	712.7	40	0
40	Credit Suisse	Europe	Switzerland	714.3	40	-1	702.8	39	0	702.8	39	-1

TICS Credit ratings - Monthly Movement: December 22 ...



				De	cember 20	22	No	vember 20)22	October 2022			
	Bank / Institution	Region	Sovereign	Cred. rat. Score	Cred. rat. rank	+/- rank change	Cred. rat. Score	Cred. rat. rank	+/- rank change	Cred. rat. Score	Cred. rat. rank	+/- rank change	
1	ICBC	Asia	China	5.67	15	0	5.67	15	0	5.67	15	0	
2	HSBC	UK	UK	4.67	6	0	4.67	6	0	4.67	6	0	
3	CCB	Asia	China	5.67	14	0	5.67	14	0	5.67	14	0	
4	JP Morgan	North America	USA	5.25	10	0	5.25	10	0	5.25	10	2	
5	Toronto Dominion	North America	Canada	4.33	2	0	4.33	2	0	4.33	2	0	
6	RBC	North America	Canada	4.33	3	0	4.33	3	0	4.33	3	0	
7	Credit Agricole	Europe	France	4.67	5	0	4.67	5	0	4.67	5	0	
8	Bank of China	Asia	China	5.67	16	0	5.67	16	0	5.67	16	0	
9	Bank of America	North America	USA	5.50	13	0	5.50	13	0	5.50	13	0	
10	BNP Paribas	Europe	France	4.67	4	0	4.67	4	0	4.67	4	0	
11	Nordea	Europe	Sweden	4.00	1	0	4.00	1	0	4.00	1	0	
12	BONYM	North America	USA	5.00	8	0	5.00	8	0	5.00	8	0	
13	State Street	North America	USA	5.00	9	0	5.00	9	0	5.00	9	0	
14	UBS AG	Europe	Switzerland	5.33	11	0	5.33	11	0	5.33	11	-1	
15	BPCE_Natixis	Europe	France	5.42	12	0	5.42	12	0	5.42	12	-1	
16	Wells Fargo	North America	USA	6.00	22	0	6.00	22	0	6.00	22	0	
17	Morgan Stanley	North America	USA	5.67	18	0	5.92	18	0	5.92	18	0	
18	ING Bank	Europe	Netherlands	6.67	30	0	6.67	30	-1	6.67	29	0	
19	Mitsubishi	Asia	Japan	6.33	25	0	6.33	25	0	6.33	25	0	
20	Sumitomo	Asia	Japan	6.08	23	0	6.08	23	0	6.08	23	0	
21	MSIP	UK	UK	4.88	7	0	4.88	7	0	4.88	7	0	
22	Societe Generale	Europe	France	6.00	20	0	6.00	20	0	6.00	20	0	
23	Goldman Sachs	North America	USA	6.67	29	0	6.67	29	-1	6.67	28	0	
24	Citi	North America	USA	7.00	32	0	7.00	32	0	7.00	32	0	
25	Santander	Europe	Spain	6.00	21	0	6.00	21	0	6.00	21	0	
26	Mizuho	Asia	Japan	6.33	26	0	6.33	26	0	6.33	26	0	
27	ABC	Asia	China	7.33	34	0	7.33	34	0	7.33	34	0	
28	Standard Chartered	UK	UK	7.00	33	0	7.00	33	0	7.00	33	0	
29	Danske Bank	Europe	Denmark	6.08	24	0	6.08	24	0	6.08	24	0	
30	Lloyds	UK	UK	7.00	31	0	7.00	31	0	7.00	31	0	
31	Aviva	UK	UK	5.67	17	0	5.67	17	0	5.67	17	0	
32	RBS	UK	UK	7.33	35	0	7.33	35	0	7.33	35	0	
33	Deutsche Bank	Europe	Germany	6.58	28	0	6.58	28	2	6.83	30	0	
34	Prudential	UK	UK	6.00	19	0	6.00	19	0	6.00	19	0	
35	Barclays	UK	UK	7.83	37	0	7.83	37	0	7.83	37	0	
36	Investec Bank plc	UK	UK	6.50	27	0	6.50	27	0	6.50	27	0	
37	Nomura	Asia	Japan	7.67	36	0	7.67	36	0	7.67	36	0	
38	Unicredit Group	Europe	Italy	8.75	39	0	8.75	39	0	8.75	39	0	
39	Bank of Ireland	Europe	Ireland	8.67	38	0	8.67	38	0	8.67	38	0	
40	Credit Suisse	Europe	Switzerland	9.50	40	0	9.25	40	0	9.25	40	0	

TICS CDS - Monthly Movement: December 22 ...



				De	cember 2	022	No	vember 2	022	C	ctober 20	22
	Bank / Institution	Region	Sovereign	CDS Score	CDS rank	+/- rank change	CDS Score	CDS rank	+/- rank change	CDS Score	CDS rank	+/- rank change
1	ICBC	Asia	China	N/A	37	0	N/A	37	0	N/A	37	0
2	HSBC	UK	UK	5.15	14	3	6.80	17	-4	6.65	13	-1
3	CCB	Asia	China	N/A	36	0	N/A	36	0	N/A	36	0
4	JP Morgan	North America	USA	5.45	20	-2	6.80	18	2	7.40	20	2
5	Toronto Dominion	North America	Canada	4.90	7	0	4.90	7	0	4.90	7	-2
6	RBC	North America	Canada	5.00	12	-4	5.00	8	1	5.00	9	0
7	Credit Agricole	Europe	France	4.05	2	10	6.05	12	-1	6.05	11	2
8	Bank of China	Asia	China	5.70	22	8	8.10	30	-11	7.40	19	1
9	Bank of America	North America	USA	5.60	21	2	7.40	23	-5	7.40	18	3
10	BNP Paribas	Europe	France	5.00	10	1	6.05	11	-1	6.05	10	1
11	Nordea	Europe	Sweden	5.20	15	-6	5.20	9	-1	5.20	8	0
12	BONYM	North America	USA	4.60	4	1	4.60	5	0	4.60	5	-2
13	State Street	North America	USA	N/A	40	0	N/A	40	0	N/A	40	0
14	UBS AG	Europe	Switzerland	6.15	26	-7	6.80	19	-2	6.80	17	-3
15	BPCE Natixis	Europe	France	4.90	6	0	4.90	6	0	4.90	6	-2
16	Wells Fargo	North America	USA	5.30	19	1	6.80	20	1	7.40	21	2
17	Morgan Stanley	North America	USA	6.20	28	-2	7.40	26	1	8.00	27	2
18	ING Bank	Europe	Netherlands	1.75	1	0	1.75	1	0	2.15	1	1
19	Mitsubishi	Asia	Japan	4.15	3	1	4.15	4	0	4.15	4	-3
20	Sumitomo	Asia	Japan	5.20	16	-13	2.65	3	0	2.65	3	4
21	MSIP	UK	UK	N/A	39	0	N/A	39	0	N/A	39	0
22	Societe Generale	Europe	France	5.10	13	3	6.75	16	0	6.75	16	0
23	Goldman Sachs	North America	USA	6.05	25	0	7.40	25	1	8.00	26	2
24	Citi	North America	USA	6.20	27	-3	7.40	24	1	8.00	25	2
25	Santander	Europe	Spain	5.30	18	-5	6.05	13	1	6.65	14	1
26	Mizuho	Asia	Japan	5.70	23	-21	2.55	2	0	2.65	2	4
27	ABC	Asia	China	8.65	33	-1	8.65	32	-8	8.65	24	-6
28	Standard Chartered	UK	UK	6.60	29	2	8.20	31	-8	7.60	23	8
29	Danske Bank	Europe	Denmark	5.30	17	-7	5.90	10	2	6.65	12	5
30	Lloyds	UK	UK	5.00	11	3	6.20	14	1	6.70	15	-5
31	Aviva	UK	UK	4.95	8	14	7.35	22	9	8.85	31	-1
32	RBS	UK	UK	4.95	9	6	6.75	15	7	7.50	22	2
33	Deutsche Bank	Europe	Germany	8.75	34	-1	8.75	33	1	9.50	34	1
34	Prudential	UK	UK	4.80	5	22	7.50	27	2	8.10	29	-3
35	Barclays	UK	UK	6.80	30	-2	7.55	28	2	8.15	30	-5
36	Investec Bank plc	UK	UK	N/A	38	0	N/A	38	0	N/A	38	0
37	Nomura	Asia	Japan	5.80	24	-3	7.00	21	7	8.05	28	-9
38	Unicredit Group	Europe	Italy	6.95	31	-2	8.00	29	6	9.50	35	-3
39	Bank of Ireland	Europe	Ireland	8.35	32	2	8.95	34	-2	8.95	32	1
40	Credit Suisse	Europe	Switzerland	9.60	35	0	9.60	35	-2	9.50	33	1

TICS Credit ratings (65%) and CDS (35%) combined - Monthly Movement: Dec 22...



				De	cember 20	22	No	vember 20	22	O	october 202	2
	Bank / Institution	Region	Sovereign	ASP Credit/CDS Score	ASP Credit/CDS Rank	+/- rank change	ASP Credit/CDS Score	ASP Credit/CDS Rank	+/- rank change	ASP Credit/CDS Score	ASP Credit/CDS Rank	+/- rank change
1	ICBC	Asia	China	4.33	5	3	3.91	4	3	3.91	4	3
2	HSBC	UK	UK	3.74	2	0	3.74	2	0	3.74	2	0
3	CCB	Asia	China	5.67	23	-1	5.67	27	-1	5.67	27	-1
4	JP Morgan	North America	USA	3.21	1	0	3.21	1	0	3.21	1	0
5	Toronto Dominion	North America	Canada	5.67	24	-2	3.94	5	-2	3.94	5	-2
6	RBC	North America	Canada	4.07	3	4	4.77	11	4	4.77	11	4
7	Credit Agricole	Europe	France	4.15	4	-1	5.67	28	-1	5.67	28	-1
8	Bank of China	Asia	China	5.54	19	-2	4.07	6	-2	4.07	6	-2
9	Bank of America	North America	USA	4.42	6	3	3.86	3	3	3.86	3	3
10	BNP Paribas	Europe	France	5.54	20	0	4.34	9	0	4.34	9	0
11	Nordea	Europe	Sweden	4.42	7	5	4.82	13	5	4.82	13	5
12	BONYM	North America	USA	4.93	11	0	4.41	10	0	4.41	10	0
13	State Street	North America	USA	5.59	22	4	5.19	21	4	5.19	21	4
14	UBS AG	Europe	Switzerland	4.78	9	-2	4.19	7	-2	4.19	7	-2
15	BPCE_Natixis	Europe	France	5.18	14	-1	4.78	12	-1	4.78	12	-1
16	Wells Fargo	North America	USA	4.45	8	-2	5.41	25	-2	5.41	25	-2
17	Morgan Stanley	North America	USA	5.88	27	0	4.26	8	0	4.26	8	0
18	ING Bank	Europe	Netherlands	6.20	28	-2	5.46	26	-2	5.46	26	-2
19	Mitsubishi	Asia	Japan	5.00	12	-12	5.25	24	-12	5.25	24	-12
20	Sumitomo	Asia	Japan	5.10	13	-5	5	19	-5	5	19	-5
21	MSIP	UK	UK	5.19	15	2	4.83	14	2	4.83	14	2
22	Societe Generale	Europe	France	6.83	35	0	5.95	31	0	5.95	31	0
23	Goldman Sachs	North America	USA	5.48	17	-1	5.19	22	-1	5.19	22	-1
24	Citi	North America	USA	7.01	37	1	5.79	29	1	5.79	29	1
25	Santander	Europe	Spain	5.69	25	-1	4.9	18	-1	4.9	18	-1
26	Mizuho	Asia	Japan	4.88	10	0	5.07	20	0	5.07	20	0
27	ABC	Asia	China	6.47	30	0	7.01	38	0	7.01	38	0
28	Standard Chartered	UK	UK	5.54	21	-4	5.96	33	-4	5.96	33	-4
29	Danske Bank	Europe	Denmark	5.39	16	-3	4.88	16	-3	4.88	16	-3
30	Lloyds	UK	UK	6.89	36	-1	6.25	34	-1	6.25	34	-1
31	Aviva	UK	UK	6.32	29	4	5.85	30	4	5.85	30	4
32	RBS	UK	UK	6.75	34	7	4.86	15	7	4.86	15	7
33	Deutsche Bank	Europe	Germany	6.49	31	2	4.89	17	2	4.89	17	2
34	Prudential	UK	UK	5.50	18	0	5.96	32	0	5.96	32	0
35	Barclays	UK	UK	5.70	26	0	6.54	36	0	6.54	36	0
36	Investec Bank plc	UK	UK	6.50	32	5	5.2	23	5	5.2	23	5
37	Nomura	Asia	Japan	7.65	38	0	6.5	35	0	6.5	35	0
38	Unicredit Group	Europe	Italy	8.01	40	0	7.19	39	0	7.19	39	0
39	Bank of Ireland	Europe	Ireland	6.61	33	0	6.89	37	0	6.89	37	0
40	Credit Suisse	Europe	Switzerland	7.86	39	0	7.6	40	0	7.6	40	0

TICS Fundamentals (balance sheet) - Monthly Movement: Dec 22 ... TEMPO PRODUCTS

				De	cember 20	22	No	vember 20	22	C	october 202	2
	Bank / Institution	Region	Sovereign	Bal, sheet Score	Bal. sheet rank	+/- rank change	Bal. sheet Score	Bal. sheet rank	+/- rank change	Bal. sheet Score	Bal. sheet rank	+/- rank change
1	ICBC	Asia	China	2.70	1	0	2.70	1	0	2.70	1	0
2	HSBC	UK	UK	3.00	2	0	3.00	2	0	3.00	2	0
3	CCB	Asia	China	3.10	3	0	3.10	3	2	3.25	5	-1
4	JP Morgan	North America	USA	3.80	13	0	3.80	13	-1	3.65	12	0
5	Toronto Dominion	North America	Canada	4.65	33	1	4.65	34	-2	4.50	32	0
6	RBC	North America	Canada	5.05	37	0	5.05	37	0	5.05	37	0
7	Credit Agricole	Europe	France	4.10	17	0	4.10	17	1	4.10	18	0
8	Bank of China	Asia	China	3.40	9	0	3.40	9	0	3.40	9	-1
9	Bank of America	North America	USA	4.15	18	3	4.15	21	-4	4.00	17	0
10	BNP Paribas	Europe	France	4.45	30	0	4.45	30	-2	4.30	28	-1
11	Nordea	Europe	Sweden	4.75	35	1	4.75	36	0	4.75	36	0
12	BONYM	North America	USA	4.60	32	0	4.60	32	1	4.60	33	0
13	State Street	North America	USA	4.35	27	1	4.35	28	-6	4.20	22	0
14	UBS AG	Europe	Switzerland	3.95	16	-2	3.80	14	0	3.80	14	0
15	BPCE Natixis	Europe	France	4.20	19	3	4.20	22	2	4.20	24	0
16	Wells Fargo	North America	USA	4.25	22	-2	4.10	20	1	4.10	21	0
17	Morgan Stanley	North America	USA	4.25	23	-4	4.10	19	1	4.10	20	0
18	ING Bank	Europe	Netherlands	4.35	28	-5	4.20	23	2	4.20	25	0
19	Mitsubishi	Asia	Japan	4.40	29	0	4.40	29	-3	4.25	26	4
20	Sumitomo	Asia	Japan	4.25	21	3	4.25	24	3	4.25	27	-1
21	MSIP	UK	UK	5.36	38	0	5.36	38	0	5.36	38	0
22	Societe Generale	Europe	France	4.30	25	1	4.30	26	4	4.30	30	-1
23	Goldman Sachs	North America	USA	4.25	20	-2	4.10	18	1	4.10	19	0
24	Citi	North America	USA	3.35	7	0	3.35	7	0	3.35	7	-1
25	Santander	Europe	Spain	4.75	36	-3	4.60	33	2	4.60	35	0
26	Mizuho	Asia	Japan	4.45	31	0	4.45	31	0	4.45	31	0
27	ABC	Asia	China	3.25	4	0	3.25	4	-1	3.25	3	0
28	Standard Chartered	UK	UK	3.50	10	0	3.50	10	1	3.50	11	0
29	Danske Bank	Europe	Denmark	4.75	34	1	4.75	35	-1	4.60	34	0
30	Lloyds	UK	UK	3.80	14	1	3.80	15	0	3.80	15	0
31	Aviva	UK	UK	N/A	39	0	N/A	39	0	N/A	39	0
32	RBS	UK	UK	3.75	12	0	3.75	12	1	3.75	13	0
33	Deutsche Bank	Europe	Germany	3.65	11	0	3.65	11	-1	3.50	10	0
34	Prudential	UK	UK	N/A	40	0	N/A	40	0	N/A	40	0
35	Barclavs	UK	UK	3.35	6	0	3.35	6	0	3.35	6	-1
36	Investec Bank plc	UK	UK	4.35	26	1	4.35	27	-4	4.20	23	0
37	Nomura	Asia	Japan	4.30	24	1	4.30	25	4	4.30	29	-1
38	Unicredit Group	Europe	Italy	3.35	8	0	3.35	8	0	3.35	8	-1
39	Bank of Ireland	Europe	Ireland	3.90	15	1	3.90	16	0	3.90	16	0
40	Credit Suisse	Europe	Switzerland	3.25	5	0	3.25	5	-1	3.25	4	5

TICS Fundamentals (market indicators) - Monthly Movement: Dec 22 TEMPO PRODUCTS

	Bank / Institution	Region	Sovereign	December 2022			November 2022			October 2022		
				Mkt. ind. Score	Mkt. ind. rank	+/- rank change	Mkt. Ind. Score	Mkt. ind. rank	+/- rank change	Mkt. ind. Score	Mkt. ind. rank	+/- rank change
1	ICBC	Asia	China	1.80	1	0	1.80	1	0	1.80	1	0
2	HSBC	UK	UK	4.05	12	-2	3.75	10	0	3.95	10	0
3	CCB	Asia	China	2.45	3	3	2.95	6	-1	2.95	5	-2
4	JP Morgan	North America	USA	2.05	2	0	2.20	2	0	2.20	2	0
5	Toronto Dominion	North America	Canada	3.75	11	-2	3.60	9	0	3.75	9	0
6	RBC	North America	Canada	2.95	7	0	3.10	7	-1	3.10	6	1
7	Credit Agricole	Europe	France	6.65	34	0	6.65	34	3	7.30	37	-4
8	Bank of China	Asia	China	2.65	5	-1	2.65	4	-1	2.65	3	2
9	Bank of America	North America	USA	2.50	4	-1	2.50	3	4	3.15	7	-3
10	BNP Paribas	Europe	France	5.80	21	-1	5.80	20	0	5.95	20	-1
11	Nordea	Europe	Sweden	5.10	14	3	5.40	17	-2	5.25	15	0
12	BONYM	North America	USA	5.70	19	2	5.85	21	-2	5.90	19	3
13	State Street	North America	USA	6.15	28	-1	6.15	27	5	6.95	32	-2
14	UBS AG	Europe	Switzerland	5.20	16	-1	5.20	15	2	5.35	17	0
15	BPCE_Natixis	Europe	France	6.00	25	-2	6.00	23	-2	6.00	21	0
16	Wells Fargo	North America	USA	3.35	8	0	3.35	8	0	3.50	8	0
17	Morgan Stanley	North America	USA	3.35	9	2	4.00	11	0	4.00	11	0
18	ING Bank	Europe	Netherlands	6.15	30	2	6.30	32	-2	6.45	30	2
19	Mitsubishi	Asia	Japan	5.05	13	0	5.05	13	1	5.20	14	-1
20	Sumitomo	Asia	Japan	5.40	17	-1	5.25	16	0	5.25	16	2
21	MSIP	UK	UK	N/A	40	0	N/A	40	0	N/A	40	0
22	Societe Generale	Europe	France	7.10	37	0	7.10	37	-1	7.25	36	2
23	Goldman Sachs	North America	USA	3.55	10	2	4.20	12	0	4.35	12	0
24	Citi	North America	USA	5.50	18	0	5.50	18	0	5.65	18	-2
25	Santander	Europe	Spain	6.00	23	3	6.15	26	-1	6.15	25	4
26	Mizuho	Asia	Japan	5.15	15	-1	5.15	14	-1	5.15	13	1
27	ABC	Asia	China	2.65	6	-1	2.80	5	-1	2.65	4	2
28	Standard Chartered	UK	UK	6.20	31	-2	6.20	29	0	6.35	29	-2
29	Danske Bank	Europe	Denmark	5.75	20	-1	5.75	19	4	6.10	23	5
30	Lloyds	UK	UK	6.00	22	3	6.15	25	-1	6.15	24	0
31	Aviva	UK	UK	6.05	26	2	6.20	28	-2	6.20	26	0
32	RBS	UK	UK	6.00	24	-2	6.00	22	9	6.50	31	-11
33	Deutsche Bank	Europe	Germany	6.85	35	0	6.85	35	-1	7.00	34	1
34	Prudential	UK	UK	6.30	32	-1	6.30	31	-3	6.30	28	3
35	Barclays	UK	UK	6.15	29	1	6.30	30	-3	6.30	27	-2
36	Investec Bank plc	UK	UK	7.15	38	0	7.30	38	0	7.30	38	-1
37	Nomura	Asia	Japan	6.10	27	-3	6.10	24	-2	6.10	22	1
38	Unicredit Group	Europe	Italy	6.30	33	0	6.30	33	0	6.95	33	1
39	Bank of Ireland	Europe	Ireland	7.05	36	0	6.85	36	-1	7.00	35	1
40	Credit Suisse	Europe	Switzerland	7.60	39	0	7.45	39	0	7.60	39	0

TICS Systemic importance - Monthly Movement: December 22 ...



	Bank / Institution	Region	Sovereign	December 2022			No	ovember 20	22	October 2022		
				Syst. imp. Score	Syst. imp. rank	+/- rank change	Syst. imp. Score	Syst. imp. rank	+/- rank change	Syst. imp. Score	Syst. imp. rank	+/- rank change
1	ICBC	Asia	China	2.50	5	1	2.50	6	0	2.50	6	0
2	HSBC	UK	UK	2.14	4	0	2.14	4	0	2.14	4	-1
3	CCB	Asia	China	2.95	11	-3	2.50	8	0	2.50	8	0
4	JP Morgan	North America	USA	1.45	1	0	1.45	1	0	1.45	1	0
5	Toronto Dominion	North America	Canada	3.00	13	0	3.00	13	0	3.00	13	1
6	RBC	North America	Canada	3.00	14	0	3.00	14	0	3.00	14	1
7	Credit Agricole	Europe	France	3.15	17	0	3.15	17	0	3.15	17	1
8	Bank of China	Asia	China	2.50	6	1	2.50	7	0	2.50	7	0
9	Bank of America	North America	USA	1.80	2	1	2.10	3	0	2.10	3	1
10	BNP Paribas	Europe	France	2.60	7	-2	2.30	5	0	2.30	5	0
11	Nordea	Europe	Sweden	8.25	35	0	8.25	35	0	8.25	35	0
12	BONYM	North America	USA	3.70	28	0	3.70	28	0	3.70	28	0
13	State Street	North America	USA	3.85	29	0	3.85	29	0	3.85	29	0
14	UBS AG	Europe	Switzerland	3.20	18	0	3.20	18	0	3.20	18	-1
15	BPCE_Natixis	Europe	France	3.30	20	0	3.30	20	0	3.30	20	0
16	Wells Fargo	North America	USA	2.85	10	1	2.85	11	0	2.85	11	0
17	Morgan Stanley	North America	USA	3.65	27	0	3.65	27	0	3.65	27	0
18	ING Bank	Europe	Netherlands	3.05	16	0	3.05	16	0	3.05	16	0
19	Mitsubishi	Asia	Japan	2.80	9	1	2.80	10	0	2.80	10	0
20	Sumitomo	Asia	Japan	3.40	23	0	3.40	23	0	3.40	23	0
21	MSIP	UK	UK	8.81	37	0	8.81	37	0	8.81	37	0
22	Societe Generale	Europe	France	3.40	22	0	3.40	22	0	3.40	22	0
23	Goldman Sachs	North America	USA	3.25	19	0	3.25	19	0	3.25	19	0
24	Citi	North America	USA	2.10	3	-1	2.10	2	0	2.10	2	0
25	Santander	Europe	Spain	3.50	26	0	3.50	26	0	3.50	26	0
26	Mizuho	Asia	Japan	3.50	25	0	3.50	25	0	3.50	25	0
27	ABC	Asia	China	2.95	12	0	2.95	12	0	2.95	12	0
28	Standard Chartered	UK	UK	3.49	24	0	3.49	24	0	3.49	24	0
29	Danske Bank	Europe	Denmark	8.40	36	0	8.40	36	0	8.40	36	0
30	Lloyds	uĸ.	UK	8.04	34	0	8.04	34	0	8.04	34	0
31	Aviva	UK	UK	7.54	32	0	7.54	32	0	7.54	32	-1
32	RBS	UK	UK	8.04	33	0	8.04	33	0	8.04	33	0
33	Deutsche Bank	Europe	Germany	2.70	8	1	2.70	9	0	2.70	9	0
34	Prudential	UK	UK	7.49	31	0	7.49	31	0	7.49	31	1
35	Barclays	UK	UK	3.04	15	0	3.04	15	0	3.04	15	-2
36	Investec Bank plc	UK	UK	8.99	39	0	8.99	39	0	8.99	39	0
37	Nomura	Asia	Japan	9.15	40	0	9.15	40	0	9.15	40	0
38	Unicredit Group	Europe	Italy	4.35	30	0	4.35	30	0	4.35	30	0
39	Bank of Ireland	Europe	Ireland	8.95	38	0	8.95	38	0	8.95	38	0
40	Credit Suisse	Europe	Switzerland	3.35	21	0	3.35	21	0	3.35	21	0

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