


TEMPO

STRUCTURED PRODUCTS

AN ALPHA REAL CAPITAL GROUP COMPANY

- TICS -
TEMPO ISSUER & COUNTERPARTY SCORECARDS
- MONTHLY MOVEMENT: MARCH 2019 -

FOR PROFESSIONAL ADVISER USE ONLY
- NOT FOR USE WITH CLIENTS -

KEY ALPHA STATISTICS:

(as at 31 Mar 18)

£2.4bn+

AUM and capital
commitments

100+

Professional team

10

Platforms

5

International
offices

4

Core business
areas

Alpha Real Capital LLP is an international co-investing fund management group.

Established in 2005, and headquartered in London, Alpha comprises an international network of offices in the UK, Europe and Asia. A 100+ strong professional team, combining experience and expertise with research, analysis and market knowledge, operates through 10 platforms, across diversified investment markets, offering listed and unlisted property vehicles, open and closed-ended property vehicles, and UK and international funds, products and wealth management services. Alpha engages with institutional investors, family offices, wealth managers and professional advisers / IFAs, as well as UHNW, HNW and private investors.

TIME Investments is the authorised wealth management and investment services arm of Alpha. TIME specialises in ground rent and other 'long income' property funds (having acquired the real estate asset management business of Close Brothers Group in 2011), Inheritance Tax Services, including Business Relief (BR), and investment services, including Enterprise Investment Schemes (EIS).

Tempo Structured Products is a new Alpha platform, with four areas of focus: i) Retail: focusing on straightforward, lower risk structured products, for distribution through TIME Investments to UK Professional Advisers (IFAs and wealth managers); ii) Institutions / Pension funds: working with institutions / pension fund consultants, to develop 'smart structured products' (fusing structured, passive and smart beta strategies together); iii) HNW / UHNW / Family Offices: working with Alpha contacts to design bespoke structured product solutions for Family Offices, UHNW and HNW Individuals; iv) Strategic Alliances: partnering with other institutions, offering our expertise and issuer relationships as a specialist structured products unit, for the benefit of their clients and customers.

- **Every month, we monitor the monthly movement within TICS:**
 - Category Scorecards
 - Amalgamated Scorecard

- **We identify and highlight movement up and down the rankings:**
 - and we draw attention to any issuer / counterparty that moves up or down in any Category Scorecard or the Amalgamated Scorecard by more than 5 places

- **Amalgamated:**
 - Overall, the amalgamated scores for March are slightly lower compared to February across the board.
 - Nordea worsened by 8 places, due to its worsened CDS score.
 - No banks improved by 5 places or more.
- **Credit rating:**
 - There were no changes in credit ratings over the month, and no banks moved more than 5 places.
- **CDS:**
 - 1 year and 5 year CDS rates tightened across all banks from February to March. Some banks saw more tightening than others, resulting in improvements in their CDS scores (please see slide 7 for details)

cont'd ...

cont'd ...

- **Fundamentals – Balance sheet:**

- Mizuho worsened by 6 places and Deutsche Bank by 8 places, due to changes in the price book ratio
- There were very few other changes to Fundamentals – Balance Sheet scores over the month, and no banks improved by more than 5 places.

- **Fundamentals – Market indicators:**

- Prudential and ING Bank both improved (by 5 and 12 places respectively), due to increased market capitalisation and reduced share price volatility.
- Sumitomo worsened by 8 places, due to decreased market capitalisation.
- RBS also worsened, by 5 places. Its overall score was similar to February, meaning this moves were relative to how other banks moved within the rankings.

- **Systemic Importance:**

- There were no changes to Systemic Importance scores over the month, and no banks moved by more than 5 places.

TICS monthly movement: March 2019 ...

TICS CREDIT RATING CATEGORY				
ISSUER / COUNTERPARTY	MOVEMENT + / -	PREVIOUS RANK	NEW RANK	COMMENT
N/A				

TICS monthly movement: March 2019 ...

TICS CDS CATEGORY				
ISSUER / COUNTERPARTY	MOVEMENT + / -	PREVIOUS RANK	NEW RANK	COMMENT
JP Morgan	-9	13	22	No change – movement relative to other banks
Credit Agricole	+7	14	7	Both 1 yr and 5 yr CDS have decreased (i.e. improved)
Nordea	-5	8	13	No change – movement relative to other banks
Sumitomo	-5	3	8	No change – movement relative to other banks
BPCE Natixis	-5	21	26	No change – movement relative to other banks
Citi	-5	16	21	No change – movement relative to other banks
Standard Chartered	+14	24	10	Both 1 yr and 5 yr CDS have decreased (i.e. improved)
Santander	+9	23	14	Both 1 yr and 5 yr CDS have decreased (i.e. improved)
Prudential	+5	10	5	Both 1 yr and 5 yr CDS have decreased (i.e. improved)
Morgan Stanley	-6	22	28	No change – movement relative to other banks
Aviva	+13	25	12	Both 1 yr and 5 yr CDS have increased (i.e. worsened)
Credit Suisse	+6	26	20	Both 1 yr and 5 yr CDS have increased (i.e. worsened)
Nomura	-11	7	18	No change – movement relative to other banks
Bank of Ireland	-10	17	27	No change – movement relative to other banks

TICS monthly movement: March 2019...

TICS FUNDAMENTALS (BALANCE SHEET) CATEGORY				
ISSUER / COUNTERPARTY	MOVEMENT + / -	PREVIOUS RANK	NEW RANK	COMMENT
Mizuho	-6	11	17	Price to book ratio has increased (i.e. worsened)
Deutsche Bank	-8	8	16	Price to book ratio has increased (i.e. worsened)

TICS monthly movement: March 2019 ...

TICS FUNDAMENTALS (MARKET INDICATORS) CATEGORY				
ISSUER / COUNTERPARTY	MOVEMENT + / -	PREVIOUS RANK	NEW RANK	COMMENT
Sumitomo	-8	15	23	Market cap has decreased (i.e. worsened)
Prudential	+5	18	13	Market cap has increased (i.e. improved) and share price volatility has fallen (i.e. improved)
ING Bank	+12	27	15	Market cap has increased (i.e. improved) and share price volatility has fallen (i.e. improved)
RBS	-5	13	18	No change – movement relative to other banks

TICS monthly movement: March 2019 ...

TICS SYSTEMIC IMPORTANCE CATEGORY				
ISSUER / COUNTERPARTY	MOVEMENT + / -	PREVIOUS RANK	NEW RANK	COMMENT
N/A				

TICS Amalgamated: March 2019 monthly movement ...

	Bank / Institution	Region	Sovereign	March 2019			February 2019			January 2019		
				Score	Rank	+/- Rank Change	Score	Rank	+/- Rank Change	Score	Rank	+/- Rank Change
1	HSBC	UK	UK	338.2	1	0	351.7	1	0	412.4	1	0
2	Bank of China	Asia	China	433.2	2	3	448.9	5	4	470.3	11	0
3	ICBC	Asia	China	440.0	3	0	441.7	3	0	460.9	4	0
4	BONYM	North America	USA	441.8	4	0	443.3	4	2	494.2	3	4
5	JP Morgan	North America	USA	445.9	5	1	449.7	6	4	506.8	5	0
6	UBS AG	Europe	Switzerland	447.1	6	2	457.6	8	3	476.5	12	0
7	Mitsubishi	Asia	Japan	451.7	7	0	457.0	7	(3)	462.2	7	1
8	Wells Fargo	North America	USA	452.3	8	2	460.6	10	3	499.6	6	0
9	Credit Agricole	Europe	France	452.9	9	3	470.2	12	2	513.8	15	(2)
10	Nordea	Europe	Sweden	453.0	10	(8)	401.9	2	0	547.5	2	1
11	RBC	North America	Canada	456.1	11	0	467.3	11	(3)	498.4	9	(7)
12	CCB	Asia	China	457.4	12	(3)	459.1	9	(4)	559.1	10	0
13	BNP Paribas	Europe	France	470.9	13	3	482.9	16	(1)	536.6	16	(1)
14	Bank of America	North America	USA	472.6	14	1	479.3	15	3	568.4	14	2
15	State Street	North America	USA	474.1	15	(1)	474.1	14	(2)	605.6	13	1
16	Sumitomo	Asia	Japan	475.7	16	(3)	472.2	13	(6)	564.8	8	1
17	Mizuho	Asia	Japan	482.3	17	0	495.8	17	0	575.9	18	(1)
18	BPCE Natixis	Europe	France	496.5	18	1	509.3	19	0	542.5	23	(3)
19	Citi	North America	USA	498.0	19	1	519.6	20	2	577.4	19	0
20	ABC	Asia	China	499.9	20	(2)	502.9	18	(2)	622.6	17	1
21	Standard Chartered	UK	UK	509.6	21	1	532.1	22	1	586.0	24	4
22	Societe Generale	Europe	France	512.8	22	(1)	521.3	21	(1)	620.2	21	1
23	Santander	Europe	Spain	528.9	23	2	549.9	25	0	607.3	25	1
24	Prudential	UK	UK	531.0	24	3	561.0	27	5	580.8	26	(2)
25	Morgan Stanley	North America	USA	535.5	25	(1)	544.5	24	0	616.3	22	1
26	Lloyds	UK	UK	536.6	26	0	553.9	26	0	596.0	28	(3)
27	MSIP	UK	UK	542.5	27	(4)	542.5	23	(2)	626.8	20	1
28	ING Bank	Europe	Netherlands	558.9	28	1	589.4	29	(2)	653.4	31	(1)
29	Aviva	UK	UK	559.4	29	3	591.5	32	3	658.8	32	(3)
30	Goldman Sachs	North America	USA	563.5	30	(2)	568.0	28	1	705.3	27	0
31	Credit Suisse	Europe	Switzerland	563.9	31	2	593.9	33	1	698.5	33	0
32	Barclays	UK	UK	574.3	32	(2)	590.8	30	3	0.0	35	0
33	Danske Bank	Europe	Denmark	576.3	33	(2)	591.3	31	(3)	516.1	29	3
34	Commerzbank	Europe	Germany	577.5	34	1	600.5	35	(4)	0.0	34	0
35	Nomura	Asia	Japan	594.5	35	(1)	596.0	34	(4)	0.0	30	1
36	Investec Bank plc	UK	UK	614.4	36	0	618.0	36	0	Rank	36	2
37	RBS	UK	UK	615.1	37	0	633.9	37	0	3.0	38	(2)
38	Deutsche Bank	Europe	Germany	635.6	38	0	646.1	38	0	8.0	37	0
39	Unicredit Group	Europe	Italy	677.5	39	0	690.3	39	1	7.0	40	0
40	Bank of Ireland	Europe	Ireland	697.8	40	0	699.3	40	(1)	26.0	39	0

TICS Credit Ratings: March 2019 monthly movement ...

	Bank / Institution	Region	Sovereign	February 2019			January 2019			December 2018		
				Credit Rating Score	Credit Rating Rank	+/- Rank Change	Credit Rating Score	Credit Rating Rank	+/- Rank Change	Credit Rating Score	Credit Rating Rank	+/- Rank Change
1	HSBC	UK	UK	4.00	2	0	4.00	2	0	4.00	2	0
2	Bank of China	Asia	China	5.67	14	0	5.67	14	0	5.67	14	0
3	ICBC	Asia	China	5.67	12	0	5.67	12	1	5.67	13	0
4	BONYM	North America	USA	5.00	6	0	5.00	6	0	5.00	6	0
5	JP Morgan	North America	USA	5.67	15	0	5.67	15	(3)	5.67	12	0
6	UBS AG	Europe	Switzerland	5.33	10	0	5.33	10	0	5.33	10	0
7	Mitsubishi	Asia	Japan	5.92	17	0	5.92	17	0	5.92	17	0
8	Wells Fargo	North America	USA	6.08	21	0	6.08	21	0	6.08	21	0
9	Credit Agricole	Europe	France	4.92	4	0	4.92	4	1	4.92	5	0
10	Nordea	Europe	Sweden	4.00	1	0	2.67	1	0	2.67	1	0
11	RBC	North America	Canada	4.33	3	0	4.33	3	0	4.33	3	0
12	CCB	Asia	China	5.67	13	0	5.67	13	2	5.67	15	0
13	BNP Paribas	Europe	France	4.92	5	0	4.92	5	(1)	4.92	4	0
14	Bank of America	North America	USA	6.33	24	0	6.33	24	0	6.33	24	0
15	State Street	North America	USA	5.00	7	0	5.00	7	0	5.00	7	0
16	Sumitomo	Asia	Japan	5.92	18	0	5.92	18	0	5.92	18	0
17	Mizuho	Asia	Japan	6.25	23	0	6.25	23	0	6.25	23	0
18	BPCE Natixis	Europe	France	5.00	8	0	5.00	8	1	5.00	9	0
19	Citi	North America	USA	7.00	33	0	7.33	33	0	7.25	33	0
20	ABC	Asia	China	5.67	16	0	5.67	16	0	5.67	16	0
21	Standard Chartered	UK	UK	6.67	27	0	6.67	27	(1)	6.67	26	0
22	Societe Generale	Europe	France	5.58	11	0	5.58	11	0	5.58	11	0
23	Santander	Europe	Spain	6.33	25	0	6.33	25	0	6.33	25	0
24	Prudential	UK	UK	6.00	20	0	6.00	20	0	6.00	20	0
25	Morgan Stanley	North America	USA	7.00	31	0	7.00	31	1	7.00	32	0
26	Lloyds	UK	UK	6.67	28	0	6.67	28	0	6.67	28	0
27	MSIP	UK	UK	5.00	9	0	5.00	9	(1)	5.00	8	0
28	ING Bank	Europe	Netherlands	6.67	29	0	6.67	29	(2)	6.67	27	0
29	Aviva	UK	UK	5.92	19	0	5.92	19	0	5.92	19	0
30	Goldman Sachs	North America	USA	7.00	32	0	7.00	32	(1)	7.00	31	0
31	Credit Suisse	Europe	Switzerland	7.92	36	0	7.92	36	0	7.92	36	0
32	Barclays	UK	UK	8.33	38	0	8.33	38	0	8.33	38	(1)
33	Danske Bank	Europe	Denmark	6.25	22	0	6.25	22	0	6.25	22	0
34	Commerzbank	Europe	Germany	6.75	30	0	6.75	30	(1)	6.75	29	0
35	Nomura	Asia	Japan	7.42	34	0	7.42	34	0	7.42	34	0
36	Investec Bank plc	UK	UK	6.50	26	0	6.50	26	4	6.88	30	0
37	RBS	UK	UK	8.17	37	0	8.17	37	0	8.17	37	1
38	Deutsche Bank	Europe	Germany	7.83	35	0	7.83	35	0	7.83	35	0
39	Unicredit Group	Europe	Italy	8.83	39	0	8.83	39	0	8.83	39	0
40	Bank of Ireland	Europe	Ireland	9.50	40	0	9.50	40	0	9.50	40	0

TICS CDS: March 2019 monthly movement ...

	Bank / Institution	Region	Sovereign	February 2019			January 2019			December 2018		
				CDS Score	CDS Rank	+/- Rank Change	CDS Score	CDS Rank	+/- Rank Change	CDS Score	CDS Rank	+/- Rank Change
1	HSBC	UK	UK	2.85	4	2	3.75	6	3	4.65	9	5
2	Bank of China	Asia	China	3.40	9	0	4.15	9	5	5.50	14	8
3	ICBC	Asia	China	N/A	37	0	N/A	37	0	N/A	37	0
4	BONYM	North America	USA	2.35	2	0	2.35	2	1	2.85	3	2
5	JP Morgan	North America	USA	4.15	22	(9)	4.40	13	3	5.80	16	(8)
6	UBS AG	Europe	Switzerland	3.00	6	(2)	3.60	4	4	4.65	8	3
7	Mitsubishi	Asia	Japan	2.15	1	0	2.30	1	0	2.40	1	0
8	Wells Fargo	North America	USA	3.85	11	0	4.30	11	4	5.65	15	(8)
9	Credit Agricole	Europe	France	3.10	7	7	4.45	14	(1)	5.50	13	4
10	Nordea	Europe	Sweden	3.90	13	(5)	4.05	8	(2)	4.35	6	4
11	RBC	North America	Canada	3.90	15	0	4.65	15	(5)	5.05	10	(1)
12	CCB	Asia	China	N/A	36	0	N/A	36	2	N/A	38	0
13	BNP Paribas	Europe	France	4.05	19	(1)	4.95	18	2	6.00	20	(1)
14	Bank of America	North America	USA	3.95	16	(4)	4.40	12	5	5.80	17	(5)
15	State Street	North America	USA	N/A	40	0	N/A	40	(1)	N/A	39	0
16	Sumitomo	Asia	Japan	3.30	8	(5)	3.30	3	(1)	2.40	2	0
17	Mizuho	Asia	Japan	2.50	3	2	3.70	5	(1)	3.85	4	(1)
18	BPCE Natixis	Europe	France	4.50	26	(5)	5.15	21	(9)	5.45	12	9
19	Citi	North America	USA	4.15	21	(5)	4.70	16	9	6.55	25	(12)
20	ABC	Asia	China	6.40	33	(2)	6.40	31	(7)	6.40	24	2
21	Standard Chartered	UK	UK	3.85	10	14	5.35	24	7	7.45	31	1
22	Societe Generale	Europe	France	4.20	23	(3)	5.10	20	2	6.15	22	(2)
23	Santander	Europe	Spain	3.90	14	9	5.20	23	(2)	6.10	21	3
24	Prudential	UK	UK	3.00	5	5	4.20	10	8	5.85	18	(3)
25	Morgan Stanley	North America	USA	4.85	28	(6)	5.15	22	1	6.40	23	(7)
26	Lloyds	UK	UK	3.95	17	2	5.10	19	0	6.00	19	(1)
27	MSIP	UK	UK	N/A	39	0	N/A	39	1	N/A	40	0
28	ING Bank	Europe	Netherlands	4.35	25	3	5.85	28	(1)	6.75	27	0
29	Aviva	UK	UK	3.90	12	13	5.40	25	3	6.75	28	3
30	Goldman Sachs	North America	USA	5.75	32	(2)	6.05	30	(1)	7.25	29	(4)
31	Credit Suisse	Europe	Switzerland	4.10	20	6	5.70	26	4	7.35	30	(1)
32	Barclays	UK	UK	4.25	24	3	5.75	27	(1)	6.65	26	4
33	Danske Bank	Europe	Denmark	5.10	29	0	6.00	29	(18)	5.40	11	12
34	Commerzbank	Europe	Germany	5.25	30	2	6.45	32	0	7.50	32	(4)
35	Nomura	Asia	Japan	3.95	18	(11)	3.95	7	(2)	3.95	5	(1)
36	Investec Bank plc	UK	UK	N/A	38	0	N/A	38	(2)	N/A	36	0
37	RBS	UK	UK	5.65	31	2	7.00	33	0	8.20	33	0
38	Deutsche Bank	Europe	Germany	7.95	34	1	8.85	35	(1)	9.60	34	0
39	Unicredit Group	Europe	Italy	8.05	35	(1)	8.80	34	1	9.70	35	0
40	Bank of Ireland	Europe	Ireland	4.75	27	(10)	4.75	17	(10)	4.60	7	(1)

TICS Fundamentals (Balance Sheet): March 2019 monthly movement ...

	Bank / Institution	Region	Sovereign	February 2019			January 2019			December 2018		
				Balance Sheet Score	Balance Sheet Rank	+/- Rank Change	Balance Sheet Score	Balance Sheet Rank	+/- Rank Change	Balance Sheet Score	Balance Sheet Rank	+/- Rank Change
1	HSBC	UK	UK	3.15	1	0	3.15	1	0	3.10	1	0
2	Bank of China	Asia	China	3.95	15	2	3.95	17	1	3.95	18	(5)
3	ICBC	Asia	China	3.95	13	2	3.95	15	1	3.95	16	(4)
4	BONYM	North America	USA	4.60	27	0	4.60	27	2	4.60	29	(11)
5	JP Morgan	North America	USA	4.25	23	0	4.25	23	0	4.25	23	(4)
6	UBS AG	Europe	Switzerland	3.95	14	2	3.95	16	(3)	3.90	13	(3)
7	Mitsubishi	Asia	Japan	3.80	8	(1)	3.80	7	1	3.80	8	3
8	Wells Fargo	North America	USA	3.85	9	1	3.85	10	1	3.85	11	3
9	Credit Agricole	Europe	France	4.50	26	(1)	4.35	25	1	4.40	26	2
10	Nordea	Europe	Sweden	4.60	28	0	4.60	28	3	4.75	31	(7)
11	RBC	North America	Canada	5.75	38	0	5.75	38	0	5.60	38	0
12	CCB	Asia	China	4.10	18	0	4.10	18	1	4.10	19	(4)
13	BNP Paribas	Europe	France	4.85	31	0	4.85	31	(1)	4.70	30	1
14	Bank of America	North America	USA	4.20	21	0	4.20	21	0	4.20	21	2
15	State Street	North America	USA	4.10	19	0	4.10	19	(5)	3.95	14	2
16	Sumitomo	Asia	Japan	3.90	10	2	3.90	12	(5)	3.75	7	2
17	Mizuho	Asia	Japan	4.05	17	(6)	3.90	11	1	3.90	12	14
18	BPCE_Natixis	Europe	France	4.90	33	0	4.90	33	2	4.90	35	2
19	Citi	North America	USA	3.70	6	0	3.70	6	(2)	3.55	4	(2)
20	ABC	Asia	China	4.60	29	0	4.60	29	(1)	4.45	28	(8)
21	Standard Chartered	UK	UK	3.55	3	0	3.55	3	(1)	3.35	2	3
22	Societe Generale	Europe	France	4.70	30	0	4.70	30	2	4.75	32	3
23	Santander	Europe	Spain	5.00	34	0	5.00	34	2	5.00	36	(3)
24	Prudential	UK	UK	N/A	40	0	N/A	40	0	N/A	40	0
25	Morgan Stanley	North America	USA	3.70	7	2	3.85	9	1	3.85	10	(4)
26	Lloyds	UK	UK	4.20	22	0	4.20	22	0	4.20	22	7
27	MSIP	UK	UK	5.43	37	0	5.43	37	0	5.43	37	(3)
28	ING Bank	Europe	Netherlands	5.30	36	0	5.30	36	(9)	4.40	27	5
29	Aviva	UK	UK	N/A	39	0	N/A	39	0	N/A	39	0
30	Goldman Sachs	North America	USA	4.25	24	0	4.25	24	0	4.25	24	1
31	Credit Suisse	Europe	Switzerland	3.55	2	2	3.70	4	1	3.70	5	(1)
32	Barclays	UK	UK	3.60	4	(2)	3.45	2	1	3.50	3	5
33	Danske Bank	Europe	Denmark	4.85	32	0	4.85	32	1	4.85	33	(6)
34	Commerzbank	Europe	Germany	3.95	12	2	3.95	14	1	3.95	15	6
35	Nomura	Asia	Japan	4.15	20	0	4.15	20	0	4.15	20	(3)
36	Investec Bank plc	UK	UK	5.05	35	0	5.05	35	(1)	4.85	34	2
37	RBS	UK	UK	3.70	5	0	3.70	5	1	3.70	6	(3)
38	Deutsche Bank	Europe	Germany	4.00	16	(8)	3.85	8	1	3.85	9	(2)
39	Unicredit Group	Europe	Italy	3.90	11	2	3.90	13	4	3.95	17	5
40	Bank of Ireland	Europe	Ireland	4.35	25	1	4.35	26	(1)	4.35	25	5

TICS Fundamentals (Market Indicator): March 2019 monthly movement ...

	Bank / Institution	Region	Sovereign	February 2019			January 2019			December 2018		
				Market Ind Score	Market Ind Rank	+/- Rank Change	Market Ind Score	Market Ind Rank	+/- Rank Change	Market Ind Score	Market Ind Rank	+/- Rank Change
1	HSBC	UK	UK	2.95	8	0	2.95	8	0	2.95	8	0
2	Bank of China	Asia	China	2.45	7	0	2.90	7	0	2.90	7	0
3	ICBC	Asia	China	1.60	1	0	1.75	1	0	1.90	1	2
4	BONYM	North America	USA	4.95	14	0	5.10	14	6	5.75	20	(5)
5	JP Morgan	North America	USA	2.05	2	0	2.05	2	0	2.05	2	(1)
6	UBS AG	Europe	Switzerland	5.35	19	2	5.50	21	(4)	5.50	17	6
7	Mitsubishi	Asia	Japan	5.50	22	2	5.80	24	(2)	5.80	22	(6)
8	Wells Fargo	North America	USA	2.40	5	0	2.55	5	(1)	2.70	4	(2)
9	Credit Agricole	Europe	France	5.85	26	0	6.00	26	(3)	5.85	23	2
10	Nordea	Europe	Sweden	5.55	24	(2)	5.55	22	(3)	5.70	19	7
11	RBC	North America	Canada	3.60	10	0	3.60	10	(1)	3.75	9	1
12	CCB	Asia	China	2.40	4	0	2.55	4	(1)	2.70	3	3
13	BNP Paribas	Europe	France	5.50	21	(1)	5.35	20	(6)	5.35	14	3
14	Bank of America	North America	USA	2.20	3	0	2.20	3	3	2.85	6	(2)
15	State Street	North America	USA	6.00	28	0	6.00	28	5	6.65	33	(4)
16	Sumitomo	Asia	Japan	5.55	23	(8)	5.20	15	10	6.00	25	(7)
17	Mizuho	Asia	Japan	5.60	25	(2)	5.60	23	(2)	5.75	21	1
18	BPCE_Natixis	Europe	France	6.50	33	1	6.80	34	1	6.80	35	(1)
19	Citi	North America	USA	3.35	9	0	3.35	9	1	4.15	10	(1)
20	ABC	Asia	China	2.45	6	0	2.75	6	(1)	2.75	5	0
21	Standard Chartered	UK	UK	6.05	29	0	6.05	29	0	6.20	29	1
22	Societe Generale	Europe	France	6.85	35	(4)	6.35	31	(4)	6.15	27	0
23	Santander	Europe	Spain	4.85	12	0	5.00	12	6	5.50	18	(5)
24	Prudential	UK	UK	4.90	13	5	5.20	18	6	5.85	24	(10)
25	Morgan Stanley	North America	USA	5.20	17	0	5.20	17	(2)	5.35	15	(4)
26	Lloyds	UK	UK	4.45	11	0	4.45	11	2	5.30	13	(1)
27	MSIP	UK	UK	N/A	40	0	N/A	40	0	N/A	40	0
28	ING Bank	Europe	Netherlands	5.20	15	12	6.00	27	1	6.15	28	(4)
29	Aviva	UK	UK	5.90	27	(2)	5.90	25	1	6.05	26	2
30	Goldman Sachs	North America	USA	5.20	16	0	5.20	16	(5)	5.20	11	8
31	Credit Suisse	Europe	Switzerland	6.15	30	0	6.30	30	1	6.45	31	1
32	Barclays	UK	UK	5.40	20	(1)	5.25	19	(3)	5.40	16	5
33	Danske Bank	Europe	Denmark	6.20	31	1	6.35	32	(2)	6.20	30	1
34	Commerzbank	Europe	Germany	7.00	38	1	7.50	39	0	7.50	39	(3)
35	Nomura	Asia	Japan	6.85	36	0	7.00	36	0	7.00	36	1
36	Investec Bank plc	UK	UK	6.55	34	1	6.85	35	(1)	6.70	34	1
37	RBS	UK	UK	5.25	18	(5)	5.10	13	(1)	5.25	12	8
38	Deutsche Bank	Europe	Germany	7.10	39	(1)	7.25	38	0	7.40	38	1
39	Unicredit Group	Europe	Italy	6.45	32	1	6.60	33	(1)	6.60	32	1
40	Bank of Ireland	Europe	Ireland	7.00	37	0	7.15	37	0	7.30	37	1

TICS Systemic Importance: March 2019 monthly movement

	Bank / Institution	Region	Sovereign	February 2019			January 2019			December 2018		
				Systemic Imp Score	Systemic Imp Rank	+/- Rank Change	Systemic Imp Score	Systemic Imp Rank	+/- Rank Change	Systemic Imp Score	Systemic Imp Rank	+/- Rank Change
1	HSBC	UK	UK	2.29	3	0	2.29	3	0	2.29	3	0
2	Bank of China	Asia	China	2.50	8	0	2.50	8	0	2.50	8	0
3	ICBC	Asia	China	2.50	7	0	2.50	7	0	2.50	7	0
4	BONYM	North America	USA	3.80	26	0	3.80	26	0	3.80	26	0
5	JP Morgan	North America	USA	1.80	1	0	1.80	1	0	1.80	1	0
6	UBS AG	Europe	Switzerland	3.35	17	0	3.35	17	0	3.35	17	0
7	Mitsubishi	Asia	Japan	2.76	10	0	2.76	10	0	2.76	10	3
8	Wells Fargo	North America	USA	2.35	4	0	2.35	4	0	2.35	4	0
9	Credit Agricole	Europe	France	3.25	16	0	3.25	16	0	3.25	16	0
10	Nordea	Europe	Sweden	8.20	35	0	8.20	35	0	8.20	35	0
11	RBC	North America	Canada	3.15	14	0	3.15	14	0	3.15	14	0
12	CCB	Asia	China	2.95	11	0	2.95	11	0	2.95	11	(1)
13	BNP Paribas	Europe	France	2.60	9	0	2.60	9	0	2.60	9	0
14	Bank of America	North America	USA	2.40	5	0	2.40	5	0	2.40	5	0
15	State Street	North America	USA	4.00	28	0	4.00	28	0	4.00	28	0
16	Sumitomo	Asia	Japan	3.41	20	0	3.41	20	0	3.41	20	3
17	Mizuho	Asia	Japan	3.46	21	0	3.46	21	0	3.46	21	3
18	BPCE_Natixis	Europe	France	3.40	18	0	3.40	18	0	3.40	18	1
19	Citi	North America	USA	2.25	2	0	2.25	2	0	2.25	2	0
20	ABC	Asia	China	2.95	12	0	2.95	12	0	2.95	12	(1)
21	Standard Chartered	UK	UK	3.64	24	0	3.64	24	0	3.64	24	(2)
22	Societe Generale	Europe	France	3.40	19	0	3.40	19	0	3.40	19	(1)
23	Santander	Europe	Spain	3.71	25	0	3.71	25	0	3.71	25	0
24	Prudential	UK	UK	7.54	31	0	7.54	31	0	7.54	31	0
25	Morgan Stanley	North America	USA	3.95	27	0	3.95	27	0	3.95	27	0
26	Lloyds	UK	UK	8.04	32	0	8.04	32	0	8.04	32	1
27	MSIP	UK	UK	8.81	37	0	8.81	37	0	8.81	37	0
28	ING Bank	Europe	Netherlands	3.20	15	0	3.20	15	0	3.20	15	0
29	Aviva	UK	UK	7.49	30	0	7.49	30	0	7.49	30	0
30	Goldman Sachs	North America	USA	3.55	22	0	3.55	22	0	3.55	22	(1)
31	Credit Suisse	Europe	Switzerland	3.55	23	0	3.55	23	0	3.55	23	(3)
32	Barclays	UK	UK	3.04	13	0	3.04	13	0	3.04	13	(1)
33	Danske Bank	Europe	Denmark	8.45	36	0	8.45	36	0	8.45	36	0
34	Commerzbank	Europe	Germany	8.05	34	0	8.05	34	0	8.05	34	0
35	Nomura	Asia	Japan	9.11	39	0	9.11	39	0	9.11	39	1
36	Investec Bank plc	UK	UK	8.94	38	0	8.94	38	0	8.94	38	0
37	RBS	UK	UK	8.04	33	0	8.04	33	0	8.04	33	(1)
38	Deutsche Bank	Europe	Germany	2.40	6	0	2.40	6	0	2.40	6	0
39	Unicredit Group	Europe	Italy	4.39	29	0	4.39	29	0	4.39	29	0
40	Bank of Ireland	Europe	Ireland	9.20	40	0	9.20	40	0	9.20	40	(1)

- **We developed our Scorecards for internal purposes: as part of our process of considering and selecting issuers and counterparties. We publish our Scorecards as part of our approach to providing transparency - and to support professional advisers in their research and due diligence responsibilities:**
 - but it is important that professional advisers using them understand what they are and what they are not
- **WHAT THEY ARE:** the primary purpose of our scorecards is to compile multiple factors that potentially measure or indicate financial strength / credit risk, with a scoring system that provokes and supports more objective and detailed analysis, assessment, comparison, consideration and understanding of prospective issuers and counterparties
- **WHAT THEY ARE NOT:** the scoring system ranks the issuers and counterparties, but it is important that professional advisers understand that this is NOT their intended purpose:
 - *the purpose of our scorecards, including the rankings, and multiple data points, at an amalgamated, category and factor level, is to provoke and support **analysis**, **assessment** and **comparison** of the data, to aid more objective **consideration** and **understanding** of relative issuer / counterparty financial strength / credit risk*
- **It is also important that professional advisers understand that our Scorecards are not independent research or an investment recommendation:**
 - we do not provide any warranty regarding the data, methodology, scores or rankings: and we expressly exclude any liability for any judgement or interpretation based upon or influenced by our Scorecards
 - professional advisers should reach their own judgement of issuer / counterparty financial strength / credit risk

A : ANALYSIS

A : ASSESSMENT

C : COMPARISON

C : CONSIDERATION

U : *AND UNDERSTANDING*

- Our Scorecards are NOT about the rankings per se. All of the issuers / counterparties (with one or two exceptions) are strong banks, in the top percentile (based on criteria we assess) of the banking universe:
 - our Scorecards are designed to provoke and support **analysis** and **assessment** of the data, including **comparison** and **consideration**, leading to better **understanding** of prospective issuers and counterparties

- **Professional advisers are expected to undertake robust issuer / counterparty due diligence**

“Firms should carry out sufficient due diligence into the counterparty and not rely solely on credit rating agencies ...”

“We expect firms to look more broadly than just the credit rating, such as the rating, outlook, credit default swap (CDS) spreads and other market information, as well as ‘fundamentals’ on the issuer’s balance sheet.”

- **Our Scorecards provide easy access to multiple, widely recognised measures and indicators of financial strength / credit risk:**
 - that can help provoke and support detailed and more objective analysis, assessment, comparison, consideration and understanding of prospective issuers and counterparties, as part of product research and due diligence
- **Importantly, however, professional advisers should note our explanation of what our Scorecards are and what they are not - including understand that our Scorecards were developed for internal purposes, with a scoring system and weightings that we feel are appropriate:**
 - and we highlight that we can readily support professional advisers who may have different views and / or want to apply or explore different weightings

- **Issuer / counterparty risk is the most fundamental risk of structured products**
- **Our Issuer & Counterparty Scorecards have been developed for internal purposes, to aid more objective due diligence consideration and selection (or rejection) of prospective issuers / counterparties:**
 - based on the criteria that we assess, the banks that we monitor are (with one or two exceptions) in the top percentile of the global banking universe (of circa 3,400 banks)
 - our Scorecards are designed to help provoke and support detailed **analysis, assessment, comparison, consideration** and **understanding** of issuers / counterparties, based upon multiple factors that are widely recognised measures / indicators of financial strength / credit risk
- **We publish our Scorecards as part of our approach to proactively providing transparency with regard to the processes behind our products:**
 - and to support professional advisers in their product research and issuer / counterparty due diligence
- **We explain our methodology and the weightings we use for internal purposes - having given considerable thought to how to combine, balance and reflect our views of the relative importance of the factors:**
 - importantly, we highlight what our Scorecards are: and what they are not
- **We feel strongly that prompting professional advisers to carefully consider this essential aspect of structured products, supporting their research due diligence, is the right thing to be doing and a significant positive**

- **It should always be understood that:**
 - structured products are not suitable for everyone
 - past performance is not a reliable indicator of or guide to future performance and should not be relied upon, particularly in isolation
 - the value of investments and the income from them can go down as well as up
 - the value of structured products may be affected by the price of their underlying investments
 - capital is at risk and investors could lose some or all of their capital

- **The ‘Important risks’ section of our website highlights the key and other risks of structured products, in addition to explaining important information for Professional Advisers who wish to access the current products area of our website and who may use our structured product plans with their clients:**
 - www.tempo-sp.com/home/important-risks

- **Professional Advisers should access and read the relevant plan documents relating to any structured product plan of interest, in particular: the plan brochure; plan application pack, including, the terms and conditions of the plan; and the issuer’s securities prospectus, final terms sheet and key information document (KID), before making a recommendation to their clients**

- **Professional advisers should not invest in, or advise their clients to invest in, any investment product unless they and their clients understand them, in particular the relevant risks**

Important notice

This document is a financial promotion issued by Tempo Structured Products and approved by TIME Investments.

This document is intended only to be presented to, and used by, FCA authorised persons, including financial advisory firms and wealth managers ('professional advisers'). It is not suitable for, and must not be distributed to, clients or potential clients of any recipient.

No investment, legal, tax recommendation or advice of any type and no suggestion of suitability of any investment for any prospective investor is given or implied in this document. The information in this document does not take account of the investment objectives, particular needs or financial situation of any client or potential client of any professional adviser to whom this document is distributed. There are risks associated with an investment in any structured product.

This document is for your information only and is not intended as an offer, or recommendation or solicitation of an offer to buy or sell any investment, security, financial instrument or other specific product, to conclude a transaction, or to provide any investment service or investment advice, or to provide any research, investment research or investment recommendation, in any jurisdiction.

By accepting this document you will be taken to have represented, warranted and undertaken that: (i) you are a professional adviser (as referred to above); (ii) that you have read, agree to and will comply with the contents of this notice; (iii) you will conduct your own analysis or other verification of the data set out in this document and will bear the responsibility for all or any costs incurred in doing so; and (iv) that you are not accessing and accepting this document from any jurisdiction other than the United Kingdom, in compliance with all laws and regulations applicable to such access and acceptance.

This document and all information herein are provided "as is", "as available" and no representation or warranty of any kind, express, implied or statutory, is made regarding any statement or information herein or in conjunction with this document. Any opinions, market prices, estimates, forward looking statements, hypothetical statements, forecast returns or other opinions leading to financial conclusions herein reflect our subjective judgment as of the date of this document. Any forward looking information has been prepared on a number of assumptions which may prove to be incorrect and, accordingly, actual results may vary. Past performance is no guarantee of future results; nothing herein shall constitute any representation, warranty or prediction as to future performance of any issuer.

Considerable care has been taken to ensure the information in this document is accurate, however no representation or warranty is given as to the accuracy or completeness of any information and no reliance may be placed for any purpose whatsoever on the information or opinions contained in this document or on its completeness and no liability whatsoever is accepted for any loss howsoever arising from any use of this document or its contents otherwise in connection therewith.

Contact details:

Tempo Structured Products
Alpha Real Capital | TIME Investments

338 Euston Road
London NW1 3BG

Adviser line: +44 (0)207 391 4551

W: www.tempo-sp.com

W: www.alpharealcapital.com

W: www.time-investments.com

Tempo Structured Products is a trading name of ARC SP LLP, registered in England under number OC400846, with its registered offices at 338 Euston Road, London NW1 3BG. Tempo Structured Products is an appointed representative of TIME Investments, which is a trading name of Alpha Real Property Investment Advisers LLP. Alpha Real Property Investment Advisers LLP is authorised and regulated by the Financial Conduct Authority, 25 The North Colonnade, Canary Wharf, London E14 5HS, under FCA No. 534723. Tempo Structured Products and TIME Investments are subsidiaries of Alpha Real Capital LLP, which is authorised and regulated by the Financial Conduct Authority, under FCA No. 436048.