



EXECUTIVE SUMMARY

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The FCF Bank Monitor is a standardized report on Credit Default Swap spreads, ratings and the fundamental performance of German and foreign banks. most active in the German and Austrian midcap market and is a reference for investors, corporates and professionals

More advanced, detailed and / or customized reports are available upon request

FCF Bank Monitor

is a comprehensive quarterly analysis of the historic and current spreads of Credit Default Swaps (CDS), ratings ("Market View") and fundamental performance indicators ("Fundamental View") for banks most active in the German and Austrian corporate lending market. The analysis provides the short-term, medium-term and long-term market view on such banks' credit default risks and is an indicator for banks' (re-)financing costs in the capital markets. The rating and fundamental performance analysis provides an indication of the solidity and "pedigree" of the banks as lending partners

Selection of Financial Institutions

The selection of financial institutions is based on FCF's financing expertise in the German midcap market and includes the most relevant institutions with respect to deal volumes of up to EUR 500m

- Only institutions with actively traded CDS instruments are included, and thus, several relevant regional banks are excluded (e.g. BTV, Oberbank, RLBOÖ, Sparkassen)
- Further, public institutions as KfW and the European Investment Bank (EIB) were not considered in the analyses

Customized Information

More advanced, detailed and / or customized reports can be ordered individually, offering subscribers the possibility to customize the following criteria (among others):

- Inclusion of international / US institutions
- Selection / deselection of specific institutions
- Specific solvency analysis (equity or debt analysis)
- Monthly updates

Recipients

The FCF Bank Monitor targets the following audience:

- Financial Institutions
- Investors
- Corporates with existing bank financings and with further financing needs

Availability

The FCF Bank Monitor is available on FCF's website at 'www.fcf.de'

Data

All input data is provided by S&P Capital IQ and is not independently verified by FCF. Ratio and multiple calculations are driven based on the input data available. For additional information and disclaimer, please refer to the last page

To recommend colleagues to be added to the mailing list, kindly send an email with the respective contact information

If you have questions, comments or ideas, please do not hesitate to contact us. Supporting information on CDS spreads can be found in the Appendix





FCF seeks to provide its clients with financing solutions

- (i) at the lowest cost,
- (ii) with the highest flexibility,
- (iii) in the shortest period of time,
- (iv) with the highest closing probability, and with
- (v) financing partners that integrate well into their strategy

Who We Are

- Specialized Investment Bank and Financing Specialist
- Advising public and private small- / midcap companies
- Advisor for structuring and placement of financing transactions:
 - All instruments: Unbiased approach to all available corporate financing instruments (no product selling approach), allowing for customized financing structures
- All investors: Close and trusted relationships with senior executives of virtually all relevant equity and debt investors
- Fast process: Process management skills and direct / personal access to institutional debt and equity investors enable fast transactions
- More than 150 transactions with a total placement volume in excess of EUR 5.0 billion since foundation in 2005
- More than 15 professionals headquartered in Munich

λ	Private / Pre-IPO	Venture capitalGrowth capital	-	Private equity
Equity	Public	 Initial Public Offering (IPO) / Capital increase Dual-track (IPO and alternative transaction 	•	pursued in tandem) Private investment in Public Equity (PIPE) Block trade
	Short-term Debt	 Receivables / Factoring / Asset-backed securities Borrowing base / Inventory 	•	Working capital / Revolving credit facility Guarantees / Letter of credit
Debt	Long-term Debt	 Bank loan facility / Syndicated loans Sale-and-lease-back / Leasing Corporate bonds (public / private placement) High yield / PIK bond 	:	Promissory note (<i>Schuldscheindarlehen</i>) Second lien / Subordinated loans Venture debt Unitranches
	Hybrid	 Mezzanine capital 	•	Convertible bonds

Capital Markets Capabilities and Services

Debt Facility Syndicated Loan and Capital Increase European Investment Debt Facility Acquisition Loan Capital Increase M&A (Sell-Side) M&A (Sell-Side) M&A (Sell-Side) European Investment Financial Advisory Factoring Facility Bank Debt Facility Facility Bank Debt Facility C FRANKENGUSS ENERGIE SER: >>> German MITTELDEUTSCHE [confidential] ALTENDORF Limmalech *PMG K K A PARTNERS N OVO RUZ AIRPORT HOLDING SACHSENGUSS Biologica Top 10 German Food JORA Holding Altendorf Group LimmaTech Biologics KKA Management PMG Projektraum German Bionic Mitteldeutsche In Ovo B.V. Energieinsel SER / RUZ Group aerofoils GmbH GmbH & Co. KG GmbH Management GmbH Flughafen AG Company GmbH AG Systems GmbH EUR 20m [confidential] [confidential] EUR 40m ~ EUR 30m EUR 20m [confidential] [confidential] EUR 15m [confidential] [confidential] [confidential] August 2023 June 2023 May 2023 March 2023 March 2023 March 2023 December 2022 December 2022 Pendina January 2024 December 2023 February 2023 Syndicated Loan Software-Leasing Interest Rate Hedging European Investment Factoring Facility Equity Transaction Acquisition Loan and Acquisition Loan Syndicated Loan Syndicated Loan Syndicated Loan, Syndicated Loan Facility Bank Debt Facility Joint Venture with Family Office Working Capital Facility Facility Factoring, Real Estate Sale & Lease-Back C FRANKENGUSS Z7 EKWD MITTELDEUTSCHE SCHNELLECKE ante [confidential] 📕 Lloyd Fonds AG Doppstadt AIRPORT HOLDING SACHSENGUSS Bencis [confidential] ZIEGLERGROUP Leading Global JORA Holding GmbH & Co. KG ante Holding Mitteldeutsch Schnellecke KWD Automotive Top 10 German Food Ziegler Holzindustrie Evum Motors GmbH Doppstadt Group Bencis Lloyd Fonds AG Device-as-a-Service GmbH & Co. KG Flughafen AG Logistics SE AG & Co, KG Company GmbH & Co. KG Company [confidential] EUR 10m EUR 150m > EUR 12m EUR 25m > EUR 50m > EUR 20m [confidential] EUR 70m EUR 70m EUR 85m EUR 230m October 2022 October 2022 September 2022 September 2022 September 2022 May 2022 April 2022 December 2021 December 202 October 2021 August 2021 December 2022

Selected Transactions









The FCF Bank Monitor highlights the key developments of German and foreign banks most active in the German and Austrian mid-cap financing market

The FCF Bank Monitor outlines several key factors that should be considered when selecting banks during a (re)financing of existing financial liabilities

Key Findings (1Q24)

Macro findings

- In 1Q24, CDS spreads of most banks trended down approximately 3% from 4Q23 following ongoing strengthening market confidence in the global economy and the expectation of higher than previously assumed interest rate cuts in 2024. Market expectations regarding inflation have declined and probability of a "soft landing" following rate hikes has increased
- Mean CDS spreads of 67.2 bps (German and foreign institutions), although still considerably higher compared to 2021 levels (42.9 bps; all-time low levels), continue to slowly trend downwards
- The FCF-ranking of domestic and foreign banks operating in the German and Austrian midcap markets, based on CDS spreads across 1-, 5- and 10-year terms, major credit ratings and key fundamental performance criteria gives an indication about the banks' expected future stability and crisis resistance:
 - Bayern LB (score: 97.3) heads the league table followed by ING Bank (score: 93.5) and J.P. Morgan (score: 86.2)
 - Deutsche Bank (score: 40.2) completes the league table ranking behind Hamburg Commercial (score: 47.7) and Societe Generale (score: 47.8)
- The variation in CDS spreads and ratings highlights the differences in current and expected bank stability important considerations when selecting an institution as a lending bank ("Hausbank") or transaction counterparty:
 - Across 1-year CDS spreads, the lowest CDS spread lies at 11.8 bps (ING Bank) whilst the highest spread lies at 117.8 bps (HCOB), 10.0x higher
 - Across 5-year CDS spreads, the lowest CDS spread lies at 38.0 bps (ING Bank) whilst the highest spread lies at 185.1 bps (RBI), 4.9x higher
 - Across 10-year CDS spreads, the lowest CDS spread lies at 55.2 bps (ING Bank) whilst the highest spread lies at 218.4 bps (RBI), 4.0x higher
 - Across S&P ratings, the highest rating is AA (Bayern LB, LBBW, NORD/LB and Helaba) whilst the lowest rating is BBB (UniCredit)
- The relationship between backward- and forward-looking indicators has weakened over the last quarter, whereby the correlation & explanatory power decreased to an R² of 4%. HCOB and RBI are the largest outliers in 1Q24, suggesting these institutions show a higher probability of a future rating downgrade (displaying higher CDS spreads than their current rating would indicate)

Individual bank findings

- Despite solid fundamentals, German HCOB shows the highest CDS spreads in 1Q24, reflecting overall investor caution in relation to higher perceived risk, asset-based lending activities (especially commercial real estate and shipping finance)
- Austrian RBI shows very high CDS spreads in 1Q24 as investors continue to evaluate the full impact of the ongoing sale / spin-off of its highly profitable Russia business as well as the high exposure to Rene Benko's Signa Group (now in insolvency proceedings)



Combined Ranking Overview (Market & Fundamental) Q1 2024

FCF allocated scores of 1 (low) to 22 (high) to the 22 banks, based on the **Market View** (CDS spread & volatility, public credit rating) and the **Fundamental View** (profitability, equity, liquidity and non-per

forming loan ratios) The combination of both single scores

results in a **Combined View**, giving an indication on the banks' expected future stability, crisis resistance and overall wholesale funding costs – across maturities, rating agencies and fundamental criteria

Bayern LB (score 97.3) heads the league table, whereas Deutsche Bank ranks 22nd (40.2)

Rank	Trend	Bank	Country	CDS 1Y	CDS 5Y	Market View CDS 10Y	Rating	Market View			Fun	damental	View		Fundamental	Combined	Delta vs Market
Q12024	vs. Q42023			Score	Score	Score	Score	Score	RoE	RoA	Tier 1 Cap	% NPL	Cost Eff.	LCR	View Score	Total Score	View
1		Sayern LB		13	16	17	19	49.3	16	12	17	19	10	22	48.0	97.3	2
2		ING ಖ		22	22	22	11	55.0	22	15	6	14	13	7	38.5	93.5	-1
3	>	J.P.Morgan		18	20	19	2	39.7	21	22	15	21	12	2	46.5	86.2	4
4	\			21	21	19	11	51.7	12	6	2	10	11	14	27.5	79.2	-2
5	>			8	12	11	11	31.7	19	20	17	11	16	11	47.0	78.7	7
6		📣 Santander	\$	20	16	12	11	42.7	15	13	4	2	17	17	34.0	76.7	0
7	\	LB≣BW		7	13	19	19	44.7	13	11	8	20	6	3	30.5	75.2	-2
8	\	DZ BANK		6	12	20	11	35.7	10	7	1	22	22	13	37.5	73.2	1
9	>			11	16	17	7	35.7	14	14	12	13	7	12	36.0	71.7	0
10	>	UniCredit		16	6	6	1	19.0	20	19	19	9	19	17	51.5	70.5	9
11	>	Crédit 🖧 Mutuel		11	13	14	11	36.0	1	9	20	6	14	16	33.0	69.0	-3
12		НЅВС		20	10	7	2	26.0	17	17	16	12	15	4	40.5	66.5	4
13	\			17	19	16	11	45.0	7	5	10	5	4	5	18.0	63.0	-9
14	\	使 · · · · · · · · · · · · · · · · · · ·	*)	9	6	4	11	23.0	11	16	5	17	21	6	38.0	61.0	3
15		Raiffeisen Bank		2	2	2	2	5.3		21	21	4	18	21	51.5	56.8	6
16	>	COMMERZBANK 스		13	11	9	2	23.0	9	10	14	15	9	9	33.0	56.0	1
17	>	NORD/LB		4	5	7	19	29.7	4	1	8	8	8	20	24.5	54.2	-3
18	\	Helaba		3	4	7	19	28.3	2	4	7	18	1	15	23.5	51.8	-3
19	~			15	14	14	7	35.0	5	3	3	16	2	1	15.0	50.0	-8
20	\			13	13	11	7	31.3	3	2	11	3	4	10	16.5	47.8	-7
21	<u>\</u>	Gommercial Bank			2	2	2	4.7	6	18			20		43.0	47.7	1
22	-	Deutsche Bank		7	5	4	7	16.7		8	13	7	3	8	23.5	40.2	-2

Source: S&P Capital IQ as of March 31st, 2024

Notes: Please see Appendix for a detailed overview of the market & fundamental data.

Market view score & fundamental view score are scaled down to achieve a 50/50 weight for the total score



Combined Ranking Overview (Market & Fundamental)

LTM Development

German BayernLB secures the top of the league table once again, replacing LBBW at the top of the rankings from 2Q23 onwards

American J.P.Morgan and Austrian Erste Group continue their upward trajectory with J.P.Morgan climbing six ranks since 2Q23 to third place in the latest ranking and Erste Group Bank improving by seven ranks to fifth place within the same time period

	Q2 2023		Q3 2023		Q4 2023		Q1 2024
1.	Bayern LB	·····1.··•	Bayern LB	·····1.··►	Bayern LB	1.	Bayern LB
2.	LB ≡ BW	2.	ING ಖ	2.	ING 🍌	2.	ING ಖ
3.	Helaba 🛓 😑	3.		3.		3.	J.P.Morgan
4.	ING ಖ	4.	LB Ξ BW	4.	LB = BW	4.	
5.	💩 Santander	5.	Helaba 🛓	5. 🗸	J.P.Morgan	5.	
6.		6.	🕹 Santander		ð Santander	6.	📣 Santander
7.	DZ BANK	7.	DZ BANK	····· 7 .	DZ BANK	····· 7.	LB≣BW
8.	ABN·AMRO		J.P.Morgan•	8		8.	DZ BANK
9.	J.P.Morgan•	9. 🔻	ERSTE 🚔	9.	BNP PARIBAS	9.	ABN·AMRO
10.		10.	Crédit 🕹 Mutuel	10.	ABN·AMRO	10.	💋 UniCredit
11.	Crédit 🖧 Mutuel		ABN·AMRO	11.	● ¥ ⑧ 銀行 BANK OF CHINA	11.	Crédit 🖧 Mutuel
12.	ERSTE STORE	12.	● ¥ 国 縦 行 BANK OF CHINA	12.	HSBC	12.	Нѕвс
13.	BNP PARIBAS	13.	5 BNP PARIBAS	13.	💋 UniCredit	13.	BNP PARIBAS
14.	HSBC	14.	HSBC		Helaba 🛓	14.	
15.	💋 UniCredit	15.	💋 UniCredit	15.	Crédit 🖧 Mutuel	15.	Raiffeisen Bank
16.	Raiffeisen Bank International	16.	X Raiffeisen Bank	16.	Raiffeisen Bank	16.	COMMERZBANK 스
17.	Commercial Eank	17.	Commercial Eank	17.	Commercial Bank	17.	NORD/LB
18.		18.		18.	COMMERZBANK 스	18.	Helaba 🛓
19.		19.		19.		19.	
20.	COMMERZBANK 스	20.	NORD/LB	20.		20.	
21.	NORD/LB	21.	COMMERZBANK 🛆	21.	NORD/LB	21.	Commercial Eank
22.	Deutsche Bank 🖊	22.	Deutsche Bank 🖊	22.	Deutsche Bank 🖊	22.	Deutsche Bank 🖊



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10-Year CDS Spreads Overview & Historical Analysis

man Institutions Dec-1	4 Dec-15	D: 40										ar Changes	(111 70)	Volatility	2 Lo	ng-Term Ratin	93
1.0		Dec-16	Dec-17	Dec-18	Dec-19	Dec-20	Dec-21	Dec-22	Dec-23	Mar-24	Δ 21-24	∆ 22-24	∆ 23-24	90 Days	S&P	Moody's	Fitch
ern LB 77.2	75.8	68.6	32.9	38.3	35.3	64.4	37.4	57.2	43.1	51.2	36.8%	-10.5%	18.8%	3.1%	-	Aa2	Α
merzbank 83.6	90.6	117.3	54.5	124.7	35.2	38.7	44.4	85.9	64.2	52.9	19.1%	-38.4%	-17.7%	1.9%	A-	A2	-
sche Bank 79.	96.5	162.3	72.4	204.6	60.9	54.5	45.8	123.0	89.0	75.5	64.9%	-38.6%	-15.1%	1.7%	A	A1	A
Bank 75.9	78.1	78.6	70.2	66.1	62.0	62.5	33.6	57.7	53.1	55.2	64.3%	-4.2%	4.1%	2.4%	A+	Aa2	AA
burg Commercial 193.8	187.0	172.1	147.6	149.0	109.0	75.2	66.1	198.5	146.9	193.1	192.4%	-2.7%	31.4%	3.8%	-	A3	-
ba 58.3	58.2	52.3	46.2	46.9	42.3	56.0	39.7	67.3	67.1	94.4	137.7%	40.3%	40.6%	3.1%	-	Aa2	AA-
W 61.4	64.8	50.0	36.6	38.8	48.0	46.9	33.1	48.3	51.1	54.8	65.5%	13.5%	7.2%	2.8%	-	Aa2	Α
D/LB 104.6	114.1	115.8	72.8	93.5	67.2	95.1	69.2	109.0	99.0	89.4	29.2%	-18.0%	-9.7%	3.1%	-	Aa2	А
58.3	58.2	50.0	32.9	38.3	35.2	38.7	33.1	48.3	43.1	51.2	19.1%	-38.6%	-17.7%	1.7%			
193.8	187.0	172.1	147.6	204.6	109.0	95.1	69.2	198.5	146.9	193.1	192.4%	40.3%	40.6%	3.8%			
ian 78.4	84.3	97.2	62.4	79.8	54.5	59.2	42.1	76.6	65.7	65.4	64.6%	-7.4%	5.6%	3.0%			
n 91.8	95.7	102.1	66.6	95.3	57.5	61.7	46.2	93.4	76.7	83.3	76.2%	-7.3%	7.4%	2.8%			
ia	Sche Bank 79.7 ank 75.9 purg Commercial 193.8 pa 58.3 V 61.4 D/LB 104.6 193.8 193.8 ana 78.4	Sche Bank 79.7 96.5 ank 75.9 78.1 purg Commercial 193.8 187.0 pa 58.3 58.2 V 61.4 64.8 D/LB 104.6 111.1 58.3 58.2 193.8 193.8 187.0 114.1 58.3 58.2 193.8 193.8 187.0 187.0 an 78.4 84.3	Sche Bank 79.7 96.5 162.3 ank 75.9 78.1 78.6 purg Commercial 193.8 187.0 172.1 pa 58.3 58.2 52.3 V 61.4 64.8 50.0 D/LB 104.6 114.1 115.8 58.3 58.2 50.0 193.8 193.8 187.0 172.1 an 78.4 84.3 97.2	Sche Bank 79.7 96.5 162.3 72.4 ank 75.9 78.1 78.6 70.2 purg Commercial 193.8 187.0 172.1 147.6 pa 58.3 58.2 52.3 46.2 V 61.4 64.8 50.0 36.6 D/LB 104.6 114.1 115.8 72.8 193.8 58.2 50.0 32.9 193.8 187.0 172.1 147.6 an 78.4 84.3 97.2 62.4	Sche Bank 79.7 96.5 162.3 72.4 204.6 ank 75.9 78.1 78.6 70.2 66.1 purg Commercial 193.8 187.0 172.1 147.6 149.0 pa 58.3 58.2 52.3 46.2 46.9 V 61.4 64.8 50.0 36.6 38.8 D/LB 104.6 114.1 115.8 72.8 93.5 193.8 187.0 172.1 147.6 204.6 an 78.4 84.3 97.2 62.4 79.8	Sche Bank 79.7 96.5 162.3 72.4 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95.1 69.2 3.1 193.8 187.0 172.1 147.6 204.6 109.0 95.1 69.2 an 78.4 84.3 97.2 62.4 79.8 54.5 59.2 42.1	Sche Bank 79.7 96.5 162.3 72.4 204.6 60.9 54.5 45.8 123.0 ank 75.9 78.1 78.6 70.2 66.1 62.0 62.5 33.6 57.7 purg Commercial 193.8 187.0 172.1 147.6 149.0 109.0 75.2 66.1 198.5 pa 58.3 58.2 52.3 46.2 46.9 42.3 56.0 33.1 48.3 O/LB 104.6 114.1 115.8 72.8 93.5 67.2 95.1 69.2 109.0 S6.3 58.2 50.0 32.9 38.3 35.2 33.1 48.3 O/LB 104.6 114.1 115.8 72.8 93.5 67.2 95.1 69.2 109.0 193.8 187.0 172.1 147.6 204.6 109.0 95.1 69.2 198.5 an 78.4 84.3 97.2 62.4 79.8 54.5	Sche Bank 79.7 96.5 162.3 72.4 204.6 60.9 54.5 45.8 123.0 89.0 ank 75.9 78.1 78.6 70.2 66.1 62.0 62.5 33.6 57.7 53.1 purg Commercial 193.8 187.0 172.1 147.6 149.0 109.0 75.2 66.1 198.5 146.9 pa 58.3 58.2 52.3 46.2 46.9 42.3 56.0 39.7 67.3 67.1 V 61.4 64.8 50.0 36.6 38.8 48.0 46.9 33.1 48.3 51.1 D/LB 104.6 114.1 115.8 72.8 93.5 67.2 95.1 69.2 109.0 90.0 36.8 58.2 50.0 32.9 38.3 35.2 38.7 33.1 48.3 43.1 193.8 187.0 172.1 147.6 204.6 109.0 95.1 69.2 198.5	Sche Bank 79.7 96.5 162.3 72.4 204.6 60.9 54.5 45.8 123.0 89.0 75.5 ank 75.9 78.1 78.6 70.2 66.1 62.0 62.5 33.6 57.7 53.1 55.2 purg Commercial 193.8 187.0 172.1 147.6 149.0 109.0 75.2 66.1 198.5 146.9 193.1 pa 58.3 58.2 52.3 46.2 46.9 42.3 56.0 39.7 67.3 67.1 94.4 V 61.4 61.4 50.0 36.6 38.8 48.0 46.9 33.1 48.3 51.1 54.8 OLB 104.6 114.1 115.8 72.8 93.5 67.2 95.1 69.2 109.0 89.4 OLB 104.6 114.1 115.8 72.8 93.5 67.2 95.1 69.2 109.0 89.4 JB3.8 58.2 50.0	Sche Bank 79.7 96.5 162.3 72.4 204.6 60.9 54.5 45.8 123.0 89.0 75.5 64.9% ank 75.9 78.1 78.6 70.2 66.1 62.0 62.5 33.6 57.7 53.1 55.2 64.3% purg Commercial 193.8 187.0 172.1 147.6 149.0 109.0 75.2 66.1 198.5 146.9 193.1 192.4% pa 58.3 58.2 52.3 46.2 46.9 42.3 56.0 39.7 67.3 67.1 94.4 137.7% V 61.4 61.4 50.0 36.6 38.8 48.0 46.9 33.1 48.3 51.1 54.8 65.5% D/LB 104.6 114.1 115.8 72.8 93.5 67.2 95.1 69.2 109.0 89.4 29.2% D/LB 104.6 114.1 115.8 72.8 38.7 33.1 48.3 43	Sche Bank 79.7 96.5 162.3 72.4 204.6 60.9 54.5 45.8 123.0 89.0 75.5 64.9% -38.6% ank 75.9 78.1 78.6 70.2 66.1 62.0 62.5 33.6 57.7 53.1 55.2 64.3% -4.2% purg Commercial 193.8 187.0 172.1 147.6 149.0 109.0 75.2 66.1 198.5 146.9 193.1 192.4% -2.7% pa 58.3 58.2 52.3 46.2 46.9 42.3 56.0 39.7 67.3 67.1 94.4 137.7% 40.3% V 61.4 64.8 50.0 36.6 38.8 48.0 46.9 33.1 48.3 51.1 54.8 65.5% 13.5% D/LB 104.6 114.1 115.8 72.8 93.5 67.2 95.1 69.2 109.0 89.4 29.2% +18.0% D/LB 104.6	Sche Bank 79.7 96.5 162.3 72.4 204.6 60.9 54.5 45.8 123.0 89.0 75.5 64.9% -38.6% -15.1% ank 75.9 78.1 78.6 70.2 66.1 62.0 62.5 33.6 57.7 53.1 55.2 64.3% -4.2% 4.1% purg Commercial 193.8 187.0 172.1 147.6 149.0 109.0 75.2 66.1 198.5 146.9 193.1 192.4% -2.7% 31.4% ya 58.3 58.2 52.3 46.2 46.9 42.3 56.0 39.7 67.3 67.1 94.4 137.7% 40.3% 40.6% V 61.4 64.8 50.0 36.6 38.8 48.0 46.9 33.1 48.3 51.1 54.8 65.5% 13.5% 7.2% OLB 104.6 114.1 115.8 72.8 93.5 67.2 95.1 69.2 109.0 99.0 89.4 29.2% 18.0% -9.7% OLB 104.6 114.1	Sche Bank 79.7 96.5 162.3 72.4 204.6 60.9 54.5 45.8 123.0 89.0 75.5 64.9% -38.6% -15.1% 1.7% ank 75.9 78.1 78.6 70.2 66.1 62.0 62.5 33.6 57.7 53.1 55.2 64.3% -4.2% 4.1% 2.4% purg Commercial 193.8 187.0 172.1 147.6 149.0 109.0 75.2 66.1 198.5 146.9 193.1 192.4% -2.7% 31.4% 3.8% va 58.3 58.2 52.3 46.2 46.9 42.3 56.0 39.7 67.3 67.1 94.4 137.7% 40.3% 40.6% 3.1% vA 61.4 64.8 50.0 36.6 38.8 48.0 46.9 33.1 48.3 51.1 54.8 65.5% 13.5% 7.2% 3.1% vA 104.6 114.1 115.8 72.8 93.5 67.2 95.1 69.2 109.0 99.4 29.2% 18.0% 14.7%	Sche Bank 79.7 96.5 162.3 72.4 204.6 60.9 54.5 45.8 123.0 89.0 75.5 64.9% -38.6% -15.1% 1.7% A ank 75.9 78.1 78.6 70.2 66.1 62.0 62.5 33.6 57.7 53.1 55.2 64.3% -4.2% 4.1% 2.4% A+ purg Commercial 193.8 187.0 172.1 147.6 149.0 109.0 75.2 66.1 198.5 146.9 193.1 192.4% -2.7% 31.4% 3.8% - va 58.3 58.2 52.3 46.2 46.9 42.3 56.0 39.7 67.3 67.1 94.4 137.7% 40.3% 40.6% 31.8% - V 61.4 64.8 50.0 36.6 38.8 48.0 46.9 33.1 48.3 51.1 54.8 65.5% 13.5% 7.2% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8%	Sche Bank 79.7 96.5 162.3 72.4 204.6 60.9 54.5 45.8 123.0 89.0 75.5 64.9% -38.6% -15.1% 1.7% A A1 ank 75.9 78.1 78.6 70.2 66.1 62.0 62.5 33.6 57.7 53.1 55.2 64.3% -4.2% 4.1% 2.4% A+ Aa2 purg Commercial 193.8 187.0 172.1 147.6 149.0 109.0 75.2 66.1 198.5 146.9 193.1 192.4% -2.7% 31.4% 3.8% - A3 pa 58.3 58.2 52.3 46.2 46.9 42.3 56.0 39.7 67.3 67.1 94.4 137.7% 40.3% 40.6% 3.1% - Aa2 va 61.4 61.4 50.0 36.6 38.8 48.0 46.9 33.1 48.3 51.1 54.8 52.2 13.5% 7.2% 2.4% .4% .42 V 61.4 61.4 114.1 115.8 7

	ec-22 Dec-23 Mar-24	 3-Year Changes (Δ 21-24 Δ 22-24 	in %) Volatility	2 Lo	ong-Term Ratin	gs
(i.e. deterioration) in	ec-22 Dec-23 Mar-24	A 24 24 A 22 24				
		LI 21-24 LI 22-24	Δ 23-24 90 Days	S&P	Moody's	Fitch
ADIN AIVIRU 02.1 00.2 03.4 43.0 04.0 19.0 21.2 39.4	59.4 51.4 45.0	14.1% -24.4%	-12.6% 1.6%	A	Aa3	A+
CDS spreads, in Bank of China 120.1 130.4 142.4 66.1 81.8 35.5 34.3 56.6	94.1 70.2 81.1	43.4% -13.8%	15.6% 1.3%	A+	Aa3	A
particular driven by	63.2 48.3 42.6	26.4% -32.6%	-11.9% 1.5%	A+	Aa3	AA-
Credit Agricole 70.3 70.6 73.7 19.8 65.0 23.1 27.7 30.9	55.9 44.6 39.6	28.1% -29.3%	-11.2% 1.7%	A+	Aa3	AA-
	63.3 74.5 44.6	12.5% -29.5%	-40.1% 6.8%	A+	Aa3	AA-
into likraine and the	62.5 62.4 48.3	21.9% -22.7%	-22.7% 2.5%	A+	A1	A
TODC 02.1 03.1 01.2 30.3 91.3 00.2 44.1 45.0	91.6 60.3 52.8	15.7% -42.3%	-12.4% 1.5%	A-	A3	A+
insolvencies of SVB ING Bank 54.8 52.4 64.4 16.9 39.1 19.6 21.4 23.8	44.4 35.3 31.3	31.5% -29.5%	-11.2% 1.5%	A+	A1	AA-
and L.S. nigh inflation	79.5 44.4 41.5	-13.7% -47.8%	-6.5% 2.0%	A-	A1	AA-
	63.7 54.3 46.6	30.2% -26.8%	-14.1% 1.6%	A	A1	A+
	186.9 185.0 181.5	368.8% -2.9%	-1.9% 0.8%	A-	A1	-
Aconomic lincertainty	67.9 52.2 43.6	15.6% -35.7%	-16.3% 1.6%	A+	A2	A-
	68.7 57.1 48.9	32.1% -28.9%	-14.4% 1.4%	A	A1	A
	121.9 75.1 65.4	-3.6% -46.3%	-13.0% 1.4%	BBB	Baa1	BBB
	44.4 35.3 31.3	-13.7% -47.8%	-40.1% 0.8%			
Max 239.6 211.5 173.8 66.1 177.4 76.3 71.2 67.8 1	186.9 185.0 181.5	368.8% -2.9%	15.6% 6.8%			
	65.8 55.7 45.8	24.1% -29.4%	-12.5% 1.6%			
Helaba's ratings were Mean 93.9 95.2 94.9 37.6 74.7 39.2 38.2 41.0	80.2 65.4 58.0	44.5% -29.5%	-12.3% 1.9%			

upgraded by Moody's					10)-Year Price	Developm	ent (in bps)					1 3-Ye	ar Changes (in %)	Volatility	Lo	ong-Term Ratin	igs
by one notch, and	All Institutions	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18	Dec-19	Dec-20	Dec-21	Dec-22	Dec-23	Mar-24	Δ 21-24	Δ 22-24	∆ 23-24	90 Days	S&P	Moody's	Fitch
NORD/LB's rating	Min	52.1	41.9	24.0	16.9	38.3	19.6	21.2	23.8	44.4	35.3	31.3	-13.7%	-47.8%	-40.1%	0.8%			
Ū,	Max	239.6	211.5	173.8	147.6	204.6	109.0	95.1	69.2	198.5	185.0	193.1	368.8%	40.3%	40.6%	6.8%			
was upgraded by four	Median	76.6	77.0	82.9	41.2	71.0	39.7	44.1	39.5	67.6	58.7	52.0	29.7%	-27.8%	-11.6%	1.7%			
notches in	Mean	93.2	95.4	97.5	48.2	82.2	45.8	46.7	42.9	85.0	69.5	67.2	56.0%	-21.4%	-5.1%	2.2%			

recognition of their	_				10)-Year Price	Developm	ent (in bps)	1				3-Ye	ar Changes ((in %)	Volatility	Lo	ong-Term Ratir	ngs
improved solvency	5-Year Govt. Interest Rates	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18	Dec-19	Dec-20	Dec-21	Dec-22	Dec-23	Mar-24	Δ 21-24	∆ 22-24	Δ 23-24	90 Days	S&P	Moody's	Fitch
,	EU Central Government Bond	7.1	1.7	-47.3	-16.6	-26.3	-44.6	-72.4	-47.9	245.1	188.4	229.9	580.3%	-6.2%	22.0%	1.7%	AA+	Aaa	AAA
profiles	United Kingdom Government Debt	113.1	125.6	48.0	72.0	90.7	60.6	-11.2	73.1	366.3	336.3	380.5	420.5%	3.9%	13.1%	1.4%	AA	Aa3	AA-

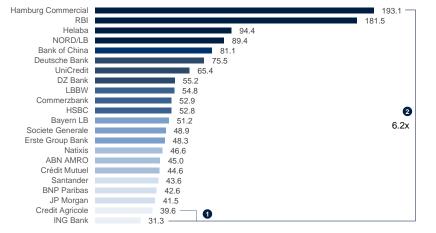
Notes: All calculations based on mid prices

* A change in Long-Term Ratings is indicated with color (upgrade / neutral / downgrade)



- Based on the latest 5-year CDS spreads, the (implied) most solvent banks are Dutch ING Bank and French Credit Agricole with CDS spreads below 40 bps
- The ratio between the least and most solvent bank increased from 5.2x (in 4Q23) to 6.2x (193.1 bps vs. 31.3 bps)
- Majority of banks experienced lower CDS spreads than 12 months prior. The largest improvements in CDS spreads were seen with German Deutsche Bank, Italian UniCredit and Austrian Erste Group Bank

CDS Mid-Price as of 31/03/2024 (in bps)



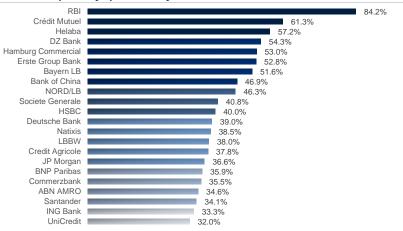
Long-Term Rating* as of 31/03/2024



12 Month Change in CDS Mid-Price (in bps)



3 Month (90 days) Volatility as of 31/03/2024



Source: S&P Capital IQ as of March 31st, 2024

Note: All calculations based on mid prices, *S&P Rating notches (institutions without S&P Rating converted using best available Moody's or Fitch rating)



5-Year CDS Spreads

36 Month Spread Development of German vs. Foreign Institutions





5-Year CDS Spreads

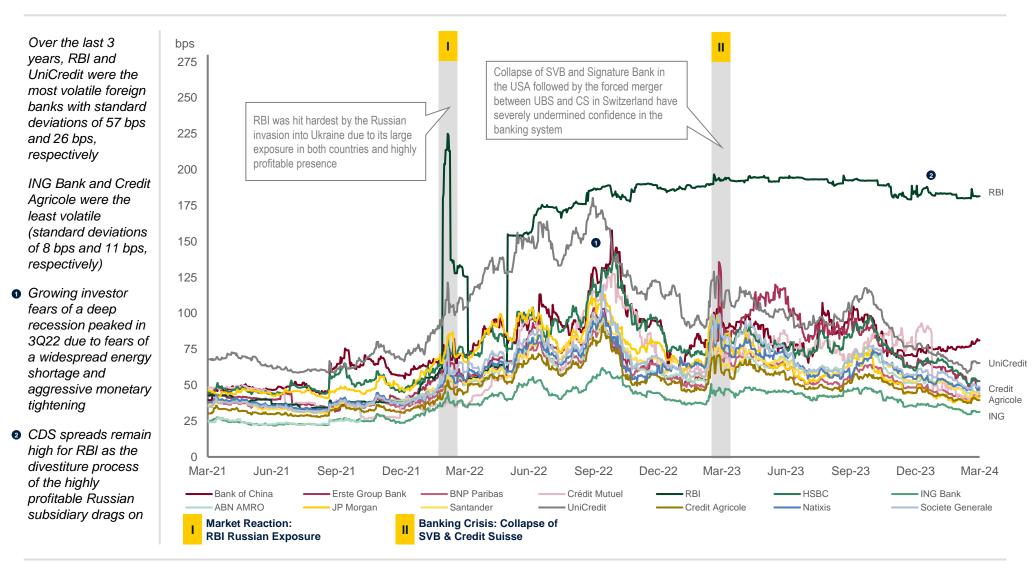
36 Month Spread Development of German Institutions



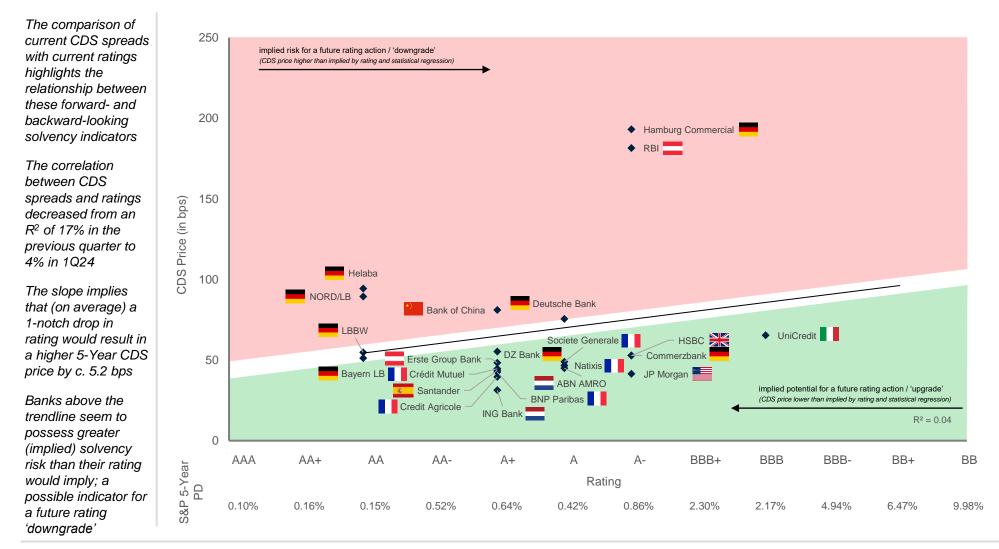


5-Year CDS Spreads

36 Month Spread Development of Foreign Institutions



F C F Stream CDS Spreads CDS vs. Rating for 5 Year Spreads



Source: S&P Capital IQ as of March 31st, 2024

Note: All calculations based on mid prices; rating according to S&P Rating notches, if available. Institutions without S&P Rating converted using best available Moody's or Fitch rating; S&P 5-Year PD represents the 5-year probability of default for each respective rating notch





Market Ranking Overview Q1 2024

FCF allocated scores of 1 (low) to 22 (high) to all banks to determine the market's view on each bank, based on:

- i. 1-Year CDS spread;
- ii. 5-Year CDS spread;
- iii. 10-Year CDS spread;
- iv. Public ratings (Fitch, Moody´s, S&P)

The combined Weighted CDS and Rating Score result in an overall rank in the League Table, providing an indication on the banks' expected future stability and crisis resistance across maturities

The market views ING Bank (55.0) on the top of the ranking, whereas HCOB ranks last (4.7)

d scores	Rank	Trend	Bank	Country		CDS	1Y			CDS	5Y			CDS 1	ΙΟΥ		CDS	Ratin	g	Total
22 (high)	Q1 2024 v	rs. Q4 2023			Last Price	Rank Score	90-Day Ø Price	Rank Score	Last Price	Rank Score	90-Day Ø Price	Rank Score	Last Price	Rank Score	90-Day Ø Price	Rank Score	Weighted CDS Score	Last Rating	Rank Score	Overall Rank
0	1		ING ಖ		10.5	22	11.8	22	31.3	22	38.0	22	51.4	22	55.2	22	44.0	5	11	55.0
e v on	2	>			14.1	21	17.2	21	39.6	21	46.7	21	66.8	20	70.6	18	40.7	5	11	51.7
ased on:	3	\	Bayern LB		27.5	10	23.5	16	51.2	12	47.1	20	73.4	14	69.8	19	30.3	3	19	49.3
S spread;	4	1	🛃 BNP PARIBAS		19.7	17	22.0	17	42.6	19	50.6	18	69.4	15	75.0	16	34.0	5	11	45.0
S spread;	5	\	LB≣BW		35.9	6	33.4	8	54.8	9	54.5	17	67.7	17	69.0	20	25.7	3	19	44.7
DS	6		📣 Santander		15.6	19	17.5	20	43.6	18	57.0	14	74.8	11	86.1	13	31.7	5	11	42.7
gs (Fitch,	7	>	J.P.Morgan		17.5	18	21.0	18	41.5	20	49.4	19	64.0	21	72.7	17	37.7	7	2	39.7
& <i>P)</i>	8	>	Crédit 🖧 Mutuel		23.3	13	29.7	9	44.6	17	68.2	9	69.2	16	94.9	11	25.0	5	11	36.0
ed	9	\	DZ BANK		42.4	5	40.1	6	55.2	8	56.1	16	67.6	18	68.7	21	24.7	5	11	35.7
DS and e result	9	~	ABN·AMRO		26.4	11	29.4	10	45.0	16	56.3	15	67.5	19	78.7	15	28.7	6	7	35.7
rank in	11	\			21.9	15	25.7	14	46.6	15	57.5	13	74.7	13	83.2	14	28.0	6	7	35.0
Table,	12	>			29.0	9	36.1	7	48.3	14	68.1	10	74.7	12	97.0	10	20.7	5	11	31.7
the	13	\			22.8	14	27.6	12	48.9	13	60.8	12	84.1	10	91.9	12	24.3	6	7	31.3
cted	14	\	Helaba 🛓		58.9	4	49.1	4	94.4	3	78.2	7	111.8	5	97.7	9	10.7	3	19	29.7
y and	15	~	NORD/LB		72.3	3	73.2	3	89.4	4	92.8	4	101.9	7	105.7	7	9.3	3	19	28.3
nce rities	16		Нѕвс		15.0	20	21.0	19	52.8	11	69.9	8	96.5	8	111.6	6	24.0	7	2	26.0
	17		COMMERZBANK 스		24.7	12	26.4	13	52.9	10	67.6	11	89.4	9	103.0	8	21.0	7	2	23.0
/iews 5.0) on	17	\	● 章 圖 錄 行 BANK OF CHINA		32.1	7	28.8	11	81.1	5	79.6	6	120.7	3	119.4	4	12.0	5	11	23.0
e.e/ en	19		💋 UniCredit		20.1	16	23.7	15	65.4	7	82.1	5	102.1	6	116.6	5	18.0	9	1	19.0
reas	20	\	Deutsche Bank 🚺		31.5	8	41.9	5	75.5	6	96.1	3	115.0	4	134.5	3	9.7	6	7	16.7
last	21	~	Raiffeisen Bank		101.3	2	102.7	2	181.5	2	185.1	1	215.5	2	218.4	1	3.3	7	2	5.3
	22	\	Hamburg Commercial Bank		136.4	1	117.8	1	193.1	1	157.0	2	224.0	1	189.4	2	2.7	7	2	4.7
	~~~~~~~~~						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~~~~~~~~~~		~~~~~~	~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~					~~~~~



## Market Ranking Overview

LTM Development

The Dutch ING Bank claims the top of the league table, after replacing Bayern LB at the top of the ranking from 1Q24

In the last quarter, German Helaba saw a significant decline in its ranking, dropping six places from its position in the previous quarter. American J.P. Morgan improved its ranking, ending the quarter on rank 7.

	Q2 2023		Q3 2023		Q4 2023		Q1 2024
1.	<b>Bayern LB</b>	1.	♦> Bayern LB	1.	Bayern LB		
2.	Helaba 🛓 🕨	2.	ING 🂫	2.	(ING 🄊 🕨	2.	
3.	ING	3.	Helaba 🛓 🔍	3.	LB <b>Ξ</b> BW	3.	♦> Bayern LB
	LB <b>≡</b> BW	4.	LBEBW			4.	BNP PARIBAS
5.	DZ BANK			5.	BNP PARIBAS	5.	LB≣BW
6.		6.	<b>DZ BANK</b>	····. 6.	🕹 Santander	6.	🜢 Santander
7.	🛃 BNP PARIBAS	7.	🗂 BNP PARIBAS	7.	<b>DZ BANK</b>	7	J.P.Morgan
	📣 Santander	8.	🜢 Santander	8. 🎽	Helaba 🛓 🍬		Crédit 🖧 Mutuel
9.	ABN·AMRO	9.		9. 🛒	J.P.Morgan	9.	DZ BANK
10.	Crédit 🖧 Mutuel	10.	Crédit 🖧 Mutuel	.10.		•	ABN·AMRO
		11.	ABN·AMRO		ABN·AMRO	¹ , 11.	
12.		12.	SOCIETE GENERALE	12.		12.	
13.		13.	J.P.Morgan	13.	🕒 ¥圓銀行 BANK OF CHINA	13.	SOCIETE
14.	J.P.Morgan	14.	(中)	14.		14. 🎽	Helaba 🛓
15.		15.		15.	Crédit 🖧 Mutuel	15.	NORD/LB
16.	Нѕвс	16.	HSBC	16.	HSBC	16.	HSBC
17.	NORD/LB	17.	NORD/LB	17.	COMMERZBANK 스	17.	COMMERZBANK 스
18.	COMMERZBANK 스	18.		18.	NORD/LB		
19.	💋 UniCredit	19.	💋 UniCredit	19.	Deutsche Bank 🖊	19.	💋 UniCredit
20.	Deutsche Bank	20.	Deutsche Bank		💋 UniCredit	20.	Deutsche Bank 🖊
21.	Commercial Bank	21.	Commercial Eank	21.	Commercial Bank	21.	Raiffeisen Bank
22.	Raiffeisen Bank	22.	Raiffeisen Bank	22.	Raiffeisen Bank	22.	Commercial Bank



# Fundamental Ranking Overview Q1 2024

#### FCF allocated

scores of 1 (low) to 22 (high) to the 22 banks, based on:

- i. Return-on-Equity (RoE)
- ii. Return-on-Assets (RoA);
- iii. Tier-1 Capital Ratio
- iv. Percentage of Non-Performing-Loans of Total Loans;
- v. Cost Efficiency (Cost-Income Ratio) vi. Liquidity Coverage Ratio

The equal weighting of the fundamental scores results in the Total Overall Score in the League Table

The ranking provides a key indication for each banks' stability and solvency based on the most recent fundamental performance

RBI (103.0) leads the ranking, whereas Natixis is last (30.0)

	Rank	Trend	Bank	Country	Return on	Equity Rank	Return on A	Assets Rank	Tier 1 Capit	al Ratio Rank	% Non-perf	<b>. Loans</b> Rank	Cost Effic	iency Rank	Liquidity Co	verage Rank	Total Overall	Delta vs Market
N) to	Q12024	vs. Q4 2023			RoE	Score	RoA		Tier 1 Ratio	Score	% NPL	Score	CIR	Score	LCR	Score	Rank	View
22	1		Raiffeisen Bank		13.4	18	1.3	21	19.1	21	3.0	4	43.1	18	192.5	21	103.0	20
on:	1		💋 UniCredit		14.9	20	1.2	19	17.8	19	2.4	9	39.7	19	161.0	17	103.0	18
quity	3	<b>\</b>	<b>A</b> Bayern LB		12.6	16	0.6	12	17.4	17	0.7	19	56.2	10	195.5	22	96.0	0
sets	4	>			14.6	19	1.2	20	17.4	17	2.1	11	47.6	16	141.8	11	94.0	8
	5		J.P.Morgan		16.0	21	1.3	22	16.6	15	0.5	21	54.0	12	112.0	2	93.0	2
l Ratio; of Non-	6	<b>\</b>	Hamburg Commercial Bank		5.9	6	0.9	18	20.5	22	4.1	1	39.0	20	168.3	19	86.0	16
oans of	7	-	Нѕвс		13.0	17	0.8	17	16.9	16	2.0	12	48.5	15	131.8	4	81.0	9
CV/	8	~	ING		17.6	22	0.8	15	14.1	6	1.8	14	51.6	13	134.0	7	77.0	-7
cy e Ratio)	9	<b>\</b>	<b>●</b> 章 圖 銀 行 BANK OF CHINA	*)	9.3	11	0.8	16	13.8	5	1.3	17	28.5	21	133.5	6	76.0	8
erage	10	>	DZ BANK		8.2	10	0.4	7	0.0		0.0	22	0.0	22	145.3	13	75.0	-1
	11				11.5	14	0.7	14	15.7	12	1.8	13	60.7	7	144.0	12	72.0	2
ghting ental	12	<b>\</b>	<b>♦</b> Santander	*	12.1	15	0.7	13	13.8	4	3.3	2	44.1	17	161.0	17	68.0	-6
in the	13	<b>\</b>	Crédit 🖧 Mutuel		0.0	1	0.4	9	18.2	20	2.8	6	51.3	14	153.3	16	66.0	-5
Score	13		COMMERZBANK 스		6.9	9	0.4	10	16.5	14	1.7	15	57.4	9	141.1	9	66.0	4
Table	15	<u> </u>	LB≣BW			13	0.5	11	15.2	8	0.6	20	65.6	6	129.2	3	61.0	-10
ovides	16	<b>\</b>			9.5	12	0.3	6	13.2	2	2.2	10	55.4	11	147.9	14	55.0	-14
n for ability	17		Helaba		4.6	4	0.2	1	15.2	8	2.5	8	59.4	8	176.9	20	49.0	-3
based	18	~	Deutsche Bank		6.6	8	0.4	8	16.1	13	2.8	7	75.1	3	135.0	8	47.0	2
cent	18		NORD/LB		4.1	2	0.2	4	14.9		0.8	18	97.6		150.2	15	47.0	
	20	<b>\</b>			6.6	7	0.3	5	15.3	10	2.8	5	67.5	4	132.3	5	36.0	-16
ads					4.6	3	0.2	2	15.6		3.2	3	67.5	4	141.4		33.0	
hereas	22		<b>MATIXIS</b>		5.4	5	0.2	3	13.6	3	1.3	16	75.5	2	110.2	1	30.0	-11
(30.0)			BEYOND BANKING															

Source: S&P Capital IQ as of March 31st, 2024

Notes: Fundamental performance criteria are based on latest LTM figures. If no recent data was available, the latest FY figures were considered



## Fundamental Ranking Overview

**LTM Development** 

The Austrian RBI continues to lead the fundamental ranking table for a fifth quarter in a row

The German DZ Bank shows the most positive development over the last quarter, gaining 5 places from rank 15 in 4Q23 to rank 10 in 1Q24

The French Credit Agricole falls back from rank 9 in 4Q23 to 16 in 1Q24

	Q2 2023		Q3 2023		Q4 2023		Q1 2024
1.	Raiffeisen Bank	······1:►	Raiffeisen Bank	1>	Raiffeisen Bank	······1 <u>·</u> ····Þ	Raiffeisen Bank
2.	Commercial Eank	2.	UniCredit	2.	Bayern LB		UniCredit
3.	💋 UniCredit	3.	♦ Bayern LB	3.	💋 UniCredit	3.	♦> Bayern LB
4.	♦> Bayern LB	4.	Commercial Commercial Bank	4.	Commercial Bank	4.	
5.		5.		5.	J.P.Morgan	5.	J.P.Morgan
	J.P.Morgan	6.	J.P.Morgan	6.	ERSTE	6.	Commercial Eank
7.	HSBC	7.	HSBC	7.	HSBC	7.	НЅВС
8.	● ¥圓銀行 ВАКК ОР СИЛА	8.	● ¥ ⑧ 線行 BANK OF CHINA	8.	🕒 ¥ 創 錄 行 BANK OF CHINA	8.	ING ಖ
9.	💩 Santander	9. 🧹		9>		9.	● ¥ ⑧ 錄 行 BANK OF CHINA
	ABN·AMRO	10.	📣 Santander	10.	🕹 Santander	10. 🦼	🗖 DZ BANK
11.	Crédit 🖧 Mutuel	<u></u> 11.	ING ಖ	11.		11.***	
	LB <b>Ξ</b> BW	. 12.	ABN·AMRO	12.	Crédit 🖧 Mutuel	12.	📣 Santander
13.	ING ಖ		Crédit 🔥 Mutuel	13.	ING 脸	. 13.	Crédit 🖧 Mutuel
	Helaba 🛓 🦯		LB <b>Ξ</b> BW	14.	LB≣BW		COMMERZBANK 스
15.		15. 🔻	DZ BANK	15. 💌	<b>DZ BANK</b>	15.	LB <b>Ξ</b> BW
16.			COMMERZBANK 스	16.	COMMERZBANK 스	16.	
17.	DZ BANK	17.	Helaba 🛓 🗯	17.	Helaba 🛓	17.	Helaba   🛓
	Deutsche Bank 🖊	18.	NORD/LB	18.	NORD/LB	18.	Deutsche Bank 🖊
19.	5 BNP PARIBAS	19.	SOCIETE GENERALE	19.	BNP PARIBAS		NORD/LB
20.	NORD/LB	20.	Deutsche Bank 🖊		Deutsche Bank 🖊	20.	
21.	SOCIETE GENERALE	21.	T BNP PARIBAS	21.		21.	SOCIETE
22.		22.		22.		22.	



#### **Credit Default Swaps**

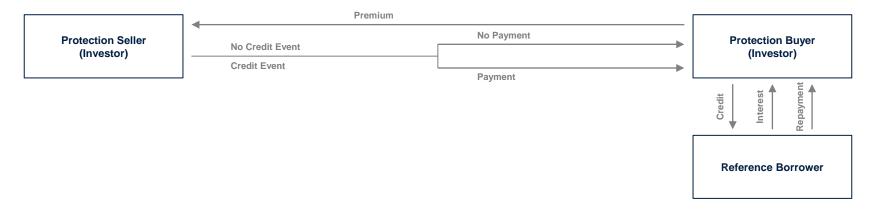
Credit Default Swaps (CDS) are, in simplest terms, very much like insurance policies. The main difference between a classical insurance policy and a CDS is that those buying the CDS can trade in and out of their contracts.

A CDS is a privately negotiated contract in which one party, the Protection Buyer (the one seeking to shed the risk, for example a lender to a bank), pays a fee (also premium or 'spread') to the Protection Seller (the one taking on the risk, for example specialized financial institutions) for protection against a loss that may be incurred from the exposure to a loan in case of unforeseen developments (e.g., non-repayment of / default on the loan). The development is known as a credit event, indicating that the borrower (the reference entity) on which the CDS contract is written is unable to pay its debts. If such a credit event occurs, the Protection Seller will make a payment to the Protection Buyer of the contract.

For example: A typical contract provides for the Protection Buyer to pay the Protection Seller 500 bps per year (5.0% p.a.) for protection against a default of Bank A on its senior debt. The contract's notional size is for EUR 10m. This means that the Protection Buyer pays EUR 500,000 per year (4 quarterly payments of EUR 125,000). If another bank, Bank B, has a CDS spread priced at 250 bps (2.5% p.a.), Bank B is perceived to have a lower credit risk than Bank A.

The higher the credit risk of a bank (as seen in the CDS spread), the greater the funding costs that a bank incurs will be. Funding costs represent the rate at which the bank is able to borrow from the institutional / inter-bank market (funding cost risk premium). As a direct consequence, the funding cost risk premium has a direct impact on the rates that a bank will charge its clients: Bank B will be able to offer i) cheaper, longer financing conditions and ii) greater flexibility during periods of stress with their clients (corporates), ceteris paribus.

Aside from the direct impact on banks' lending rates, the CDS spread is also a good proxy of a banks' current / future behavior towards its corporate clients in times of market (macro) or client specific (micro) volatility / stress.





## **Background Information**

The FCF Bank Monitor highlights the key developments of German and foreign banks most active in the German and Austrian midcap financing market

The FCF Bank Monitor outlines several key factors that should be considered when selecting banks during a (re)financing of existing financial liabilities

#### **Background Information**

- CDS spreads of banks reveal two fundamental market principles that have significant implications for borrowers:
  - Solvency / crisis resistance: CDS spreads put a price on the future solvency of a bank according to all information currently available in the market and signal the bank's ability to remain operational in periods of crisis / illiquid markets.
    - > Banks with lower, more stable CDS spreads should respond less erratically during periods of stress with their borrowers (i.e., breach of covenant), ceteris paribus
  - Refinancing costs / ability to lend at low rates: CDS spreads indicate the perceived solvency of banks, hence their future ability to refinance in the future (funding costs). Consequently, banks with lower, more stable CDS spreads generally have to pay lower risk premia as part of their funding costs, enabling them to offer cheaper, longer financing conditions to their customers / borrowers, ceteris paribus
- Reference bonds of banks and their corresponding CDS spreads are strongly impacted by regulatory changes / events:
  - In '18, the SAG was modified to also allow German commercial banks to issue 'preferred' bonds as of May '19
    - The corresponding reference CDS spreads of German commercial banks (e.g., Deutsche Bank, Commerzbank) decreased sharply in May '19 and can now be compared 'like-for-like' with their European competitors





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