

CREDIT OPINION

6 December 2022

Update



Send Your Feedback

RATINGS

IKB Deutsche Industriebank AG

Domicile	Duesseldorf-Ger, Germany
Long Term CRR	A3
Туре	LT Counterparty Risk Rating - Fgn Curr
Outlook	Not Assigned
Long Term Debt	Withdrawn
Туре	Senior Unsecured - Fgn Curr
Outlook	Not Assigned
Long Term Deposit	Baa1
Туре	LT Bank Deposits - Fgn Curr
Outlook	Stable

Please see the <u>ratings section</u> at the end of this report for more information. The ratings and outlook shown reflect information as of the publication date.

Contacts

Andrea Wehmeier +49.69.70730.782 VP-Senior Analyst

andrea.wehmeier@moodys.com

Alexander Hendricks, +49.69.70730.779
CFA

Associate Managing Director alexander.hendricks@moodys.com

» Contacts continued on last page

CLIENT SERVICES

Americas	1-212-553-1653
Asia Pacific	852-3551-3077
Japan	81-3-5408-4100

IKB Deutsche Industriebank AG

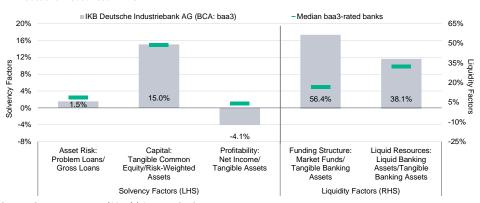
Update to credit analysis

Summary

IKB's Baa1 deposit and issuer ratings reflect the bank's baa3 Baseline Credit Assessment (BCA) and the application of our Advanced Loss Given Failure (LGF) analysis to its liabilities, which results in a very low loss given failure and two notches of rating uplift. IKB's ratings do not benefit from any government support uplift because of its small size in the context of the German banking sector.

IKB's baa3 BCA reflects the bank's market position as a specialised lender in the German medium-sized and large company¹ market, its good asset quality and sound capitalisation. It further reflects the fact that the bank's strong focus on those customers results in a quasi-monoline business model because of its strong reliance on corporate lending for its revenue. IKB's profitability is still volatile, although the bank revamped its business model and accomplished significant cost cutting while simultaneously extensively de-risking its balance sheet. Despite a high reported market funding dependence, the underlying funding risks are much lower because of its strong reliance on development bank funding.

Exhibit 1
Rating Scorecard - Key financial ratios
IKB Deutsche Industriebank AG



Sources: Company reports and Moody's Investors Service

Credit strengths

- » Sound capitalisation
- » Limited reliance on confidence-sensitive market funding because of the use of development bank programmes as a key funding source after deposits

» Good asset risk profile following balance-sheet de-risking

Credit challenges

- » Monoline business model with a focus on larger Mittelstand lending in Germany
- » Regulatory-imposed capital add-on results in profit volatility
- » High asset encumbrance limits freely available liquidity buffers
- » Increasing importance of sustainable finance, which could attract new competition into IKB's core competence

Outlook

The stable rating outlook reflects our expectation that IKB's core fundamentals will remain stable over the next 12 to 18 months, despite a deterioration in the operating environment.

Factors that could lead to an upgrade

- » An upgrade of IKB's ratings could be prompted by a higher BCA or by a higher rating uplift from our Advanced LGF analysis for the deposit and issuer ratings as a result of a higher volume of instruments designed to absorb losses in issuance.
- » An upgrade of IKB's baa3 BCA could be prompted by a significant increase in its capitalisation, beyond the bank's current targets, and significantly increased profitability. Alternatively, IKB's BCA could be upgraded if the bank substantially diversifies its business and customer lines without taking undue strategic and operational risks as a result of such a shift.

Factors that could lead to a downgrade

- » A downgrade of IKB's issuer and deposit ratings could be prompted by a BCA downgrade or a weaker result from our Advanced LGF analysis as a result of a decline beyond our expectations in instruments designed to absorb losses in case of failure.
- » IKB's BCA could be downgraded in case of a combined deterioration in solvency metrics, with risk-weighted capitalisation declining significantly from improved levels, the bank's underlying profitability plummeting on a sustained basis and a marked increase in asset risk.

This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the issuer/deal page on https://ratings.moodys.com for the most updated credit rating action information and rating history.

Key indicators

Exhibit 2
IKB Deutsche Industriebank AG (Consolidated Financials) [1]

	06-22 ²	12-21 ²	12-20 ²	03-20 ²	03-19 ²	CAGR/Avg.3
Total Assets (EUR Billion)	15.4	16.0	16.9	16.6	16.1	(1.2)4
Total Assets (USD Billion)	16.1	18.1	20.7	18.2	18.1	(3.2)4
Tangible Common Equity (EUR Billion)	1.2	1.5	1.4	1.4	1.4	(3.7)4
Tangible Common Equity (USD Billion)	1.3	1.7	1.8	1.5	1.5	(5.6) ⁴
Problem Loans / Gross Loans (%)	1.5	1.9	1.4	1.4	1.5	1.5 ⁵
Tangible Common Equity / Risk Weighted Assets (%)	15.0	18.6	16.2	12.0	12.1	14.8 ⁶
Problem Loans / (Tangible Common Equity + Loan Loss Reserve) (%)	10.2	10.1	7.6	8.7	9.5	9.2 ⁵
Net Interest Margin (%)	1.1	1.1	0.7	1.2	1.2	1.0 ⁵
PPI / Average RWA (%)	3.5	1.4	1.1	1.1	0.8	1.6 ⁶
Net Income / Tangible Assets (%)	-4.1	0.6	0.5	0.5	0.3	-0.5 ⁵
Cost / Income Ratio (%)	40.7	72.3	81.1	91.2	90.4	75.1 ⁵
Market Funds / Tangible Banking Assets (%)	57.4	56.4	53.7	51.7	48.3	53.5 ⁵
Liquid Banking Assets / Tangible Banking Assets (%)	36.4	38.1	44.3	37.5	31.4	37.6 ⁵
Gross Loans / Due to Customers (%)	205.3	203.4	167.3	176.4	174.2	185.3 ⁵

^[1] All figures and ratios are adjusted using Moody's standard adjustments. [2] Basel III - fully loaded or transitional phase-in; LOCAL GAAP. [3] May include rounding differences because of the scale of reported amounts. [4] Compound annual growth rate (%) based on the periods for the latest accounting regime. [5] Simple average of periods for the latest accounting regime. [6] Simple average of Basel III periods.

Sources: Moody's Investors Service and company filings

Profile

Headquartered in Düsseldorf, Germany, IKB Deutsche Industriebank AG (IKB) is a commercial bank that specialises in lending to medium-sized and large corporates, and is active in the German market. It provides a host of financial services to German corporate clients, ranging from business loans to development bank loans (its niche), particularly from <u>Kreditanstalt für Wiederaufbau</u> (KfW, Aaa stable²).

The bank started as a real estate financing entity in 1924 and developed into its current role as a corporate lender from the 1970s. IKB was weakened by the 2008-09 financial crisis and was subsequently bailed out by a consortium consisting of KfW and several other banks. Since then, the bank's balance sheet has been extensively de-risked and its business has refocused on corporate lending. IKB is fully owned by the private equity firm Lone Star Funds.

The bank focuses on corporate customers, and further provides advisory services plus selected primarily deposit-focused services for retail customers. It currently operates from six branches in Berlin, Düsseldorf, Frankfurt, Hamburg, Munich and Stuttgart.

Weighted Macro Profile of Strong+

IKB's activities are mostly based in the German market, and its remaining exposures are within Europe and North America. The assigned Macro Profile is Strong+, in line with the <u>Strong+</u> Macro Profile of Germany.

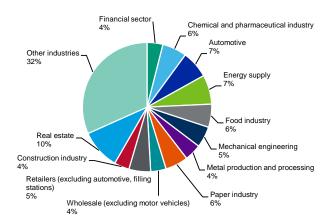
Detailed credit considerations

Asset risk is solid, although sector concentration in Mittelstand implies increased exposure to the economic cycle

We assign a baa2 Asset Risk score to IKB, four notches below the a1 initial score. The assigned score reflects the bank's concentration in Mittelstand lending, particularly in Germany; market risks related to its securities portfolio, with significant derivatives exposures that add to earnings volatility; and our expectation of a rise in nonperforming loans (NPLs) in 2023, although from a low level.

IKB's asset risk is driven by its focus on corporate Mittelstand lending in Germany, with the assigned Asset Risk score reflecting our view on the underlying credit quality of the sector, and the concentration of IKB's lending book within the Mittelstand sector. We expect the Mittelstand sector to be particularly weakened by the current economic downswing because smaller companies are more exposed to the economic cycle. Therefore, NPLs within IKB's existing lending book are likely to increase from the current, low levels, though IKB is taking measures to limit the effect, including a more selective new business and tight monitoring of particularly exposed, energy intense sectors like chemicals or metals.

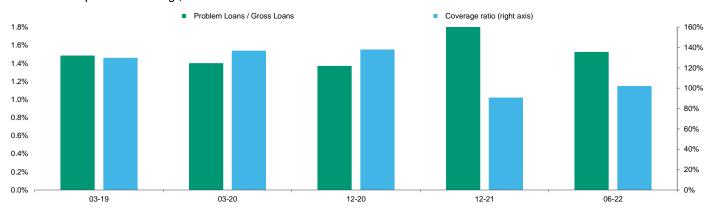
Exhibit 3
IKB's loan book by sector
As of June 2022



Source: Company's half-year report (June 2022) p.24

As of 30 June 2022, NPLs were a still-solid 1.5% of gross loans (according to our definition), slightly down from 1.9% as of December 2021. IKB's asset quality has improved in recent years, as reflected in its declining ratio of NPLs to gross loans. The improvement was driven by the de-risking of IKB's balance sheet, with a shift from international to domestic lending and a renewed focus on Mittelstand lending.

Exhibit 4
IKB has reduced its NPL stock and kept it stable
NPL stock developments and coverage, 2019-H1 2022



Sources: Company reports and Moody's Investors Service

The assigned Asset Risk score also reflects the bank's relatively high market risk, particularly related to its large derivatives portfolio, exposing the bank to highly volatile fair value developments, especially in a more adverse market environment, as illustrated in the first six months of 2022. Given re-evaluation needs within its sizeable fixed income portfolio as a consequence of rising rates, the bank consequently reduced its fixed income portfolio by €0.7 billion to €2.8 billion as of June 2022.

Capital is still solid

We assign an a3 Capital score to IKB, three notches below the aa3 initial score. The assigned score reflects the bank's overall solid capital levels after the release of €345 million in capital reserves to cover evaluation losses as half-year 2022 and our expectation that the capital ratios will stabilise at 13%-14%. The assigned score takes into account the bank's strong leverage ratios — a tangible common equity (TCE) leverage ratio of 7.8% and a regulatory leverage ratio of 6.4% as of 30 June 2022.

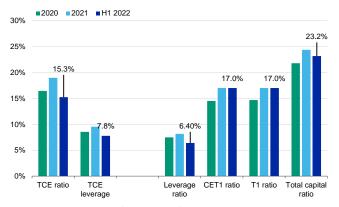
IKB's capitalisation levels have fallen in 2022, with TCE of 15.3% as of June 2022, from 19.0% in 2021, but are still up from levels of around 12% as of March 2020 and 2019. The Common Equity Tier 1 (CET1) capital ratio was 17.0% as of June 2022, while the total capital ratio was 23.2%, providing a substantial buffer against regulatory requirements. Regulatory capital ratios are higher than our TCE, because IKB used an option to include unrealized evaluation gains for the regulatory capital calculations.

IKB does not plan to pay dividends for the time being because it received a capital add-on by the German regulator Bafin in spring 2022 because of shortfalls with respect to the orderly conduct of business. The bank's SREP requirements now stand at 8.15% for CET1, 10.02% for Tier 1 and 12.52% for total capital, with the add on at 225bps for CET1, 300 bps for Tier 1 and 400 bps for total capital.

During the first half 2022, the bank has reduced its risk-weighted assets (RWA) by slowing loan growth, further supported by still positive rating migrations. Given the expected slowdown in economic growth for 2023, we expect RWA to increase, particularly for corporates that are challenged by higher energy costs and operating costs because of inflation, weakening their profitability and ability to service debt.

Exhibit 5

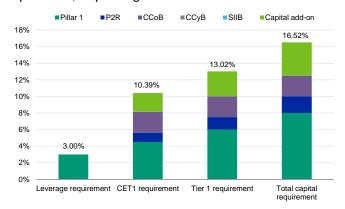
IKB's capitalisation declined in H1 2022



TCE = Tangible common equity (our calculation); CET1 = Common Equity Tier 1 capital; T1 = Tier 1 capital.

Sources: Company reports and Moody's Investors Service

Exhibit 6
IKB's H2 2022 capital ratios exceed regulatory minimal requirements, despite a significant add on



CCOB = Capital conservation buffer; CCyB = Countercyclical capital buffer; SIIB = Systemically important institutions buffer.

Source: Company reports

The implementation of the internal ratings-based models has led to a reduction in the current high density of RWA. As of 30 June 2022, the bank's RWA compared with total assets was 51%, still high compared with those of its peers, but down from an extraordinary 69% as of March 2020. The implementation of the internal ratings-based models should also provide some buffer against the potential strain from downward rating shifts in its lending book as a result of the economic downswing. Upcoming regulatory changes to capital regulation, such as the implementation of the output floor, are not likely to strain IKB's capital ratios.

Tight cost controls helped improve profitability

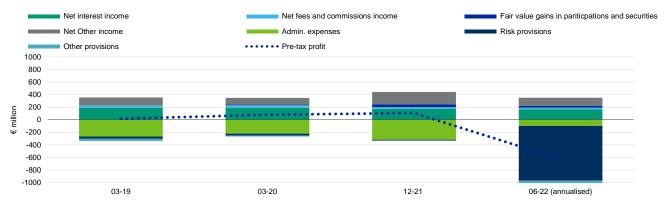
We assign a ba2 Profitability score to IKB, seven notches above the initial score. The bank's net income as a percentage of its tangible banking assets fell to -4.1% as of June 2022 because the bank was confronted with a €436 million loss in its fixed income book, and closed interest positions in interest rate swaps, partially compensating for the losses. We regard the loss as non-recurring and expect the bank's profitability to recover in 2023, with the renewed profit volatility reflecting efforts to reduce certain risk positions.

The underlying, improved cost structure, with annual personnel expenses down by almost 50% since 2017 and a less-expensive capital structure as of March 2020, provides the bank with the potential to recover its earnings power if risks from the volatile market environment and rising rates are managed adequately. However, an expected increase in risk costs because of the economic downswing and our expectation that the bank's cost base will somewhat deteriorate because of higher administration costs will prevent a return to previous profitability levels.

Exhibit 7

IKB's profitability structure at a glance (in € million)

Rising rates caused signficant re-evaluation losses in 2022



IKB switched its reporting period to the calendar year in 2020, with the 2020 result based on April-December financials. Sources: Company reports and Moody's Investors Service

For the six months that ended June 2022, the bank reported a consolidated net profit of €30 million, slightly down from €47 million over the same period in 2021. Net interest income decreased by 8% to €83 million from €90 million as of the end of June 2022, while fee and commission income of €13 million remained broadly stable. We, however, adjust the bank's profitability downwards for its drawing of €345 million of reserves to cover losses in the fixed income portfolio of €436 million, leading to an overall significant loss of €314 million in the first half of 2022.

Personnel expenditure was €46 million, slightly up from that during the same period in the previous year (€41 million). Total administrative expenses were €80 million, up 9.6% from €73 million over the same period in 2021, reflecting IKB's efforts to deal with the capital add-on imposed by Bafin.

Limited dependence on market funding and strong recourse to secured funding

We assign IKB an a3 score for Funding Structure, nine notches above the b3 initial score, reflecting the bank's strong access to and use of development bank funding, a source that we do not deem confidence sensitive, and our expectation of a decrease in reliance on market funding in the future.

IKB's liability structure consisted of €8.6 billion due to financial institutions as of half-year 2022, including €5.1 billion in funding provided by development banks. Deposits contributed another €4.3 billion, with a significant share of corporate deposits (including promissory notes), which we deem more confidence sensitive than retail deposits. However, the term structure of deposits and the KfW funding remains a balancing factor. Deposits and development bank funding are accomplished by €0.3 billion in senior unsecured liabilities and €0.8 billion in subordinated liabilities.

Exhibit 8
IKB's funding structure relies heavily on development bank funds



*Market funds ratio = Market funds/total banking assets. Sources: Company reports and Moody's Investors Service

The bank also has recourse to €3.4 billion in secured European Central Bank (ECB) funding as another important funding source. Although we do not deem this confidence sensitive, the bank's asset encumbrance is relatively high as a consequence.

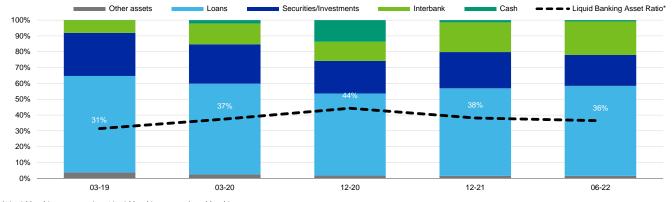
Liquidity is adequate with significant liquid resources encumbered, mirroring IKB's funding structure

We assign IKB a ba1 score for Liquidity, six notches below the a1 initial score, reflecting the bank's sizeable asset encumbrance with adequate freely available liquidity.

Although the bank's liquidity resources are high, as reflected in a liquidity ratio of 36.4% of tangible assets as of June 2022, freely available liquidity is substantially lower, given the high asset encumbrance because of its significant portion of secured funding via the ECB, with a significant portion of repo-eligible liquid assets pledged to the ECB.

Dues from financial institutions were €3.3 billion as of June 2022, while the largely central bank-eligible securities portfolio contributed €3.3 billion. Given the bank's limited market funding reliance, its liquidity is adequate, reflected in IKB's liquidity coverage ratio of 244% as of the end of June 2022. The bank's Moody's-adjusted loan-to-deposit ratio of 202% overstates the potential refinancing risks because a significant portion of IKB's loan portfolio is funded via matched development bank loans, reflected in the reported loan-to-deposit ratio of 90% as of 30 June 2022.

Exhibit 9
IKB's liquid resources are strained by asset encumbrance



*Liquid banking asset ratio = Liquid banking assets/total banking assets. Sources: Company reports and Moody's Investors Service

Monoline adjustment

The bank's strong focus on (larger) Mittelstand customers results in limited business diversification and a quasi-monoline business model because of its strong reliance on corporate lending for its revenue and profit. Although IKB's niche bank position provides differentiation from competition, for example, it has a strong market presence in dedicated development banks' loan programmes, it exposes the bank more strongly to the economic cycle than banks with a better balanced customer profile.

We consider Mittelstand lending particularly exposed to the effects of the coronavirus pandemic-related downturn. IKB's high reliance on corporate-related earnings streams exposes it to shocks that are likely to hurt its income statement, and potentially its capital base, in an adverse scenario.

Business diversification is an important gauge of a bank's sensitivity to stress in a single business line. It is related to earnings stability in the sense that earnings diversification across distinct and relatively uncorrelated lines of business increases the reliability of a bank's earnings stream and its potential to absorb shocks affecting a business line.

To reflect the risks stemming from IKB's Mittelstand-focused business model, we apply a one-notch negative qualitative adjustment for lack of business diversification, which leads to a baa3 BCA from the bank's baa2 Financial Profile score.

ESG considerations

In line with our general view of the banking sector, IKB has low exposure to environmental risks³ (see our environmental risks heat map for further information).

For social risks⁴, we also place IKB in line with our general view of the banking sector, which indicates moderate exposure (see our <u>social risks heat map</u>).

Corporate governance⁵ is highly relevant for IKB, as it is to all banks. Corporate governance weaknesses can lead to a deterioration in a company's credit quality, while governance strengths can benefit its credit profile. Governance risks are largely internal rather than externally driven. Corporate governance remains a key credit consideration and requires ongoing monitoring.

Support and structural considerations

Affiliate support is low

There is a low probability that IKB's owner, Lone Star Funds, will support the bank in case of need, which does not result in any uplift for IKB's ratings. Support from its owner is reflected in its degree of involvement in IKB's strategy, management and operations, but we do not expect further capital injections, in case of need.

Government support considerations

Since the introduction of the Bank Recovery and Resolution Directive (BRRD), we have selectively assigned moderate expectations of government support in the event of need. Because of its small size relative to the German banking system and its limited degree of interconnectedness, we continue to assume a low probability of government support to IKB, which does not result in any rating uplift.

Loss Given Failure (LGF) analysis

IKB is subject to the BRRD, which we consider an operational resolution regime. Therefore, we apply our Advanced LGF analysis, where we consider the risks faced by the different debt and deposit classes across the liability structure should the bank enter resolution. In line with our standard assumptions, we assume a residual tangible common equity of 3%, as well as asset losses of 8% of tangible banking assets in a failure scenario. We also assume a 25% runoff of junior wholesale deposits and a 5% runoff of preferred deposits. Moreover, we assign a 25% probability to junior deposits being preferred to senior unsecured debt. We apply a standard assumption for European banks that 26% of deposits are junior.

For IKB's deposits and issuer ratings, our LGF analysis indicates a very low loss given failure, leading to two notches of rating uplift from its baa3 Adjusted BCA.

Counterparty Risk Ratings (CRRs)

IKB's CRRs are A3/P-2

The CRRs are three notches above IKB's baa3 Adjusted BCA, based on the extremely low loss given failure from the moderate volume of instruments that are subordinated to CRR liabilities. IKB's CRRs do not benefit from government support, in line with our support assumptions on deposits.

Counterparty Risk (CR) Assessment

IKB's CR Assessment is A3(cr)/P-2(cr)

IKB's CR Assessment is three notches above the baa3 Adjusted BCA, based on the buffer against default provided to the senior obligations represented by the CR Assessment by more subordinated instruments, primarily senior unsecured debt and junior deposits. Because the CR Assessment captures the probability of default on certain senior operational obligations, rather than expected loss, we focus purely on subordination and take no account of the volume of the instrument class.

Methodology and scorecard

Methodology

The principal methodology used in rating IKB was the Banks Methodology, published in July 2021.

About Moody's Bank Scorecard

Our scorecard is designed to capture, express and explain in summary form our Rating Committee's judgement. When read in conjunction with our research, a fulsome presentation of our judgement is expressed. As a result, the output of our scorecard may significantly differ from that suggested by raw data alone (though it has been calibrated to avoid the frequent need for strong divergence). The scorecard output and the individual scores are discussed in rating committees and may be adjusted up or down to reflect conditions specific to each rated entity.

Rating methodology and scorecard factors

Exhibit 10

IKB Deutsche Industriebank AG

Pactor	Macro Factors		"					
Solvency Asset Rick Problem Loans / Gross Loans 1.5% a1 baa2 Sector concentration Market risk Capital	Weighted Macro Profile Strong +	100%						
Asset Risk	Factor			-	Assigned Score	Key driver #1	Key driver #2	
Asset Risk	Solvency							
Capital Tangible Common Equity / Risk Weighted Assets 15.0% aa3								
Capital Tangible Common Equity / Risk Weighted Assets 15.0% aa3	Problem Loans / Gross Loans	1.5%	a1	\leftrightarrow	baa2	Sector concentration	n Market risk	
Basel III - fully loaded Profitability	Capital							
Net Income / Tangible Assets		15.0%	aa3	\leftrightarrow	a3			
Combined Solvency Score baa1 baa2								
Liquidity Funding Structure Market Funds / Tangible Banking Assets 56.4% b3	Net Income / Tangible Assets	-4.1%	caa3	$\uparrow \uparrow$	ba2	Return on assets	Expected trend	
Funding Structure Market Funds / Tangible Banking Assets \$6.4% \$b3 ↑↑ \$a3 Extent of market funding reliance Equit Report of Funding relianc	Combined Solvency Score		baa1		baa2			
Expected trends Family	Liquidity							
Expected trends Family	Funding Structure							
Liquid Banking Assets / Tangible Banking Assets 38.1% a1 ↓↓ ba1 Asset encumbrance Stock of liquid assets Combined Liquidity Score ba1 baa2 baa3		56.4%	b3	$\uparrow \uparrow$	a3		Expected trend	
Combined Liquidity Score								
Financial Profile	Liquid Banking Assets / Tangible Banking Assets	38.1%	a1	$\downarrow\downarrow$	ba1	Asset encumbranc	e Stock of liquid ass	
Qualitative Adjustments Adjustment Business Diversification -1 Opacity and Complexity 0 Corporate Behavior -0 Total Qualitative Adjustments -1 Sovereign or Affiliate constraint Aaa BCA Scorecard-indicated Outcome - Range baa2 - ba1 Assigned BCA baa3 Affiliate Support notching 0 Adjusted BCA baa3 Balance Sheet in-scope (EUR Million) vs in-scope (EUR Million) ts in-scope (EUR Million) th in-scope (EUR Million)	Combined Liquidity Score		ba1		baa2			
Business Diversification	Financial Profile				baa2			
Opacity and Complexity	Qualitative Adjustments				Adjustment			
Corporate Behavior Corporate Behavior Corporate Behavior Total Qualitative Adjustments Covereign or Affiliate constraint	Business Diversification				-1			
Total Qualitative Adjustments	Opacity and Complexity				0			
Sovereign or Affiliate constraint BCA Scorecard-indicated Outcome - Range baa2 - ba1	Corporate Behavior				0			
Second S					-1			
Assigned BCA Affiliate Support notching Adjusted BCA Balance Sheet in-scope (EUR Million)	Sovereign or Affiliate constraint				Aaa			
Affiliate Support notching Adjusted BCA baa3 Balance Sheet in-scope (EUR Million) % in-scope (EUR Million) at-failure (EUR Million) % at-failure (EUR Million) Other liabilities 9,598 62.2% 10,041 65.1% Deposits 4,339 28.1% 3,896 25.3% Junior deposits 1,128 7.3% 8.46 5.5% Junior senior unsecured bank debt 273 1.8% 273 1.8% Dated subordinated bank debt 674 4.4% 674 4.4% Preference shares (bank) 75 0.5% 75 0.5% Equity 463 3.0% 463 3.0% Total Tangible Banking Assets 15,422 100.0% 15,422 100.0% Debt Class De Jure waterfall Notching output LGF Assigned Additional Preliminary Notching Vs. Adjusted Banking Assets Notching Assetsment Additional Preliminary Notching Vs. Notching Assessment Notching Assessment Adjusted Banking Assetsment 15.1% 15.1% 15.1% 15.1% 3 3					baa2 - ba1			
Balance Sheet in-scope (EUR Million) % in-scope (EUR Million) at-failure (EUR Million) % at-failure (EUR Million) Other liabilities 9,598 62.2% 10,041 65.1% Deposits 4,339 28.1% 3,896 25.3% Preferred deposits 3,211 20.8% 3,050 19.8% Junior deposits 1,128 7.3% 846 5.5% Junior senior unsecured bank debt 273 1.8% 273 1.8% Dated subordinated bank debt 674 4.4% 674 4.4% Preference shares (bank) 75 0.5% 75 0.5% Equity 463 3.0% 463 3.0% Total Tangible Banking Assets 15,422 100.0% 15,422 100.0% Debt Class De Jure were fall volume + ordination volume + ordinat					baa3			
Selance Sheet Sin-scope (EUR Million)					0			
Clumbridish	Adjusted BCA				baa3			
Other liabilities 9,598 62.2% 10,041 65.1% Deposits 4,339 28.1% 3,896 25.3% Preferred deposits 3,211 20.8% 3,050 19.8% Junior deposits 1,128 7.3% 846 5.5% Junior senior unsecured bank debt 273 1.8% 273 1.8% Dated subordinated bank debt 674 4.4% 674 4.4% Preference shares (bank) 75 0.5% 75 0.5% Equity 463 3.0% 463 3.0% Total Tangible Banking Assets 15,422 100.0% 15,422 100.0% Debt Class De Jure waterfall volume + ordination vo	Balance Sheet						% at-failure	
Deposits 4,339 28.1% 3,896 25.3% Preferred deposits 3,211 20.8% 3,050 19.8% Junior deposits 1,128 7.3% 846 5.5% Junior senior unsecured bank debt 273 1.8% 273 1.8% Dated subordinated bank debt 674 4.4% 674 4.4% Preference shares (bank) 75 0.5% 75 0.5% Equity 463 3.0% 463 3.0% Total Tangible Banking Assets 15,422 100.0% 15,422 100.0% Debt Class De Jure waterfall Instrument Sub- Instrument Sub- volume + ordination volume + ordinati	Out II Little				62.20/			
Preferred deposits 3,211 20.8% 3,050 19.8% Junior deposits 1,128 7.3% 846 5.5% Junior senior unsecured bank debt 273 1.8% 273 1.8% Dated subordinated bank debt 674 4.4% 674 4.4% Preference shares (bank) 75 0.5% 75 0.5% Equity 463 3.0% 463 3.0% Total Tangible Banking Assets 15,422 100.0% 15,422 100.0% Debt Class De Jure waterfall De Facto waterfall Notching LGF Assigned Additional Preliminary Notching LGF Notching LGF Notching Notching LGF Notching Notching Notching LGF Notching Notching Notching Notching LGF Notching Notc								
Junior deposits 1,128 7.3% 846 5.5% Junior senior unsecured bank debt 273 1.8% 273 1.8% Dated subordinated bank debt 6674 4.4% 6674 4.4% Preference shares (bank) 75 0.5% 75 0.5% Equity 463 3.0% 463 3.0% Total Tangible Banking Assets 15,422 100.0% 15,422 100.0% Debt Class De Jure waterfall De Facto waterfall Notching Instrument Sub- Instrument Sub- Instrument Sub- Volume + ordination volume + ordination volume + ordination subordination								
Dated subordinated bank debt 273 1.8% 273 1.8% 274 1.8% 275 1.8%	<u>-</u>							
Dated subordinated bank debt 674								
Preference shares (bank) 75 0.5% 75 0.5% Equity 463 3.0% 463 3.0% Total Tangible Banking Assets 15,422 100.0% 15,422 100.0% Debt Class De Jure waterfall Instrument Sub- Instrument Sub- Sub- Volume + ordination volume + ordination subordination Notching Suidance notching Volume + Ordination volume + ordination volume + ordination subordination Notching Suidance notching Volume + Ordination volume + Ordi	<u>=</u>							
Total Tangible Banking Assets 15,422 100.0% 15,422 100.0%								
Total Tangible Banking Assets 15,422 100.0% 15,422 100.0%								
Debt Class De Jure waterfall De Facto waterfall Sub- mistrument Sub- motor wolume + ordination volume + ordination subordination Sub- motor wolume + ordination Sub- motor wolume + ordi								
Instrument Sub- Instrument Sub- De Jure De Facto Guidance notching Assessment		watorfall						
volume + ordination volume + ordination subordination Guidance notching vs. Assessment Subordination subordination subordination Vs. Adjusted BCA Vs. Adjusted BCA								
subordination subordination vs. Adjusted BCA Counterparty Risk Rating 15.1% 15.1% 15.1% 15.1% 3 3 3 0 a3 Counterparty Risk Assessment 15.1% 15.1% 15.1% 3 3 3 3 0 a3 (cr) Deposits 15.1% 9.6% 15.1% 9.6% 2 2 2 2 0 baa1					-			
Adjusted BCA Counterparty Risk Rating 15.1% 15.1% 15.1% 15.1% 3 3 3 0 a3 Counterparty Risk Assessment 15.1% 15.1% 15.1% 3 3 3 3 0 a3 (cr) Deposits 15.1% 9.6% 15.1% 9.6% 2 2 2 2 0 baa1	· ·					6 7336331		
Counterparty Risk Rating 15.1% 15.1% 15.1% 3 3 3 3 0 a3 Counterparty Risk Assessment 15.1% 15.1% 15.1% 3 3 3 3 0 a3 (cr) Deposits 15.1% 9.6% 15.1% 9.6% 2 2 2 2 0 baa1	Adjusted							
Counterparty Risk Assessment 15.1% 15.1% 15.1% 3 3 3 3 0 a3 (cr) Deposits 15.1% 9.6% 15.1% 9.6% 2 2 2 2 0 baa1	Counterparty Risk Rating 15.1%	15.1%	15.1%	15.1%	3 3		0 a3	
Deposits 15.1% 9.6% 15.1% 9.6% 2 2 2 0 baa1	· · · · · ·							
							,	
	<u>-</u>							

Instrument Class	Loss Given Failure notching		Preliminary Rating Assessment	Government Support notching	Local Currency Rating	Foreign Currency Rating
Counterparty Risk Rating	3	0	a3	0	A3	A3
Counterparty Risk Assessment	3	0	a3 (cr)	0	A3(cr)	
Deposits	2	0	baa1	0	Baa1	Baa1
Senior unsecured bank debt	2	0	baa1	0	Baa1	Baa1

[1] Where dashes are shown for a particular factor (or sub-factor), the score is based on non-public information.

Source: Moody's Investors Service

Ratings

Exhibit 11

Category	Moody's Rating
IKB DEUTSCHE INDUSTRIEBANK AG	
Outlook	Stable
Counterparty Risk Rating	A3/P-2
Bank Deposits	Baa1/P-2
Baseline Credit Assessment	baa3
Adjusted Baseline Credit Assessment	baa3
Counterparty Risk Assessment	A3(cr)/P-2(cr)
Issuer Rating	Baa1
ST Issuer Rating	P-2
Source: Moody's Investors Service	

Endnotes

- 1 or larger Mittelstand
- 2 The rating shown here is KfW's deposit rating/debt rating and outlook.
- 3 Environmental risks can be defined as environmental hazards encompassing the impacts of air pollution, soil/water pollution, water shortages, and natural and human-made hazards (physical risks). Additionally, regulatory or policy risks, like the impact of carbon regulation or other regulatory restrictions, including the related transition risks like policy, legal, technology and market shifts, which could impair the evaluation of assets, are an important factor. Certain banks could face a higher risk from concentrated lending to individual sectors or operations exposed to the aforementioned risks.
- 4 Social risk considerations represent a broad spectrum, including customer relations, human capital, demographic and societal trends, health and safety, and responsible production. The most relevant social risks for banks arise from the way they interact with their customers. Social risks are particularly high in the area of data security and customer privacy, which are partially offset by sizeable technology investments and banks' long track record of handling sensitive client data. Fines and reputational damage because of product mis-selling or other types of misconduct is a further social risk. Societal trends are also relevant in a number of areas, such as shifting customer preferences toward digital banking services increasing information technology costs, ageing population concerns in several countries affecting demand for financial services or socially driven policy agendas that may translate into regulations that affect banks' revenue bases.
- 5 Corporate governance is a well-established key driver for banks and related risks are typically included in our evaluation of the banks' financial profile. Further, factors such as specific corporate behaviour, key person risk, insider and related-party risk, strategy and management risk factors, and dividend policy may be captured in individual adjustments to the BCA.

© 2022 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved. CREDIT RATINGS ISSUED BY MOODY'S CREDIT RATINGS AFFILIATES ARE THEIR CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND MATERIALS, PRODUCTS, SERVICES AND INFORMATION PUBLISHED BY MOODY'S (COLLECTIVELY, "PUBLICATIONS") MAY INCLUDE SUCH CURRENT OPINIONS. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT OR IMPAIRMENT. SEE APPLICABLE MOODY'S RATING SYMBOLS AND DEFINITIONS PUBLICATION FOR INFORMATION ON THE TYPES OF CONTRACTUAL FINANCIAL OBLIGATIONS ADDRESSED BY MOODY'S CREDIT RATINGS. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS, NON-CREDIT ASSESSMENTS ("ASSESSMENTS"), AND OTHER OPINIONS INCLUDED IN MOODY'S PUBLICATIONS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S PUBLICATIONS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS, INC. AND/OR ITS AFFILIATES, MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS DO NOT COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS, ASSESSMENTS AND OTHER OPINIONS AND PUBLISHES ITS PUBLICATIONS WITH THE EXPECTATION AND UNDERSTANDING THAT EACH INVESTOR WILL. WITH DUE CARE. MAKE ITS OWN STUDY AND EVALUATION OF EACH SECURITY THAT IS UNDER CONSIDERATION FOR PURCHASE. HOLDING, OR SALE,

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS, AND PUBLICATIONS ARE NOT INTENDED FOR USE BY RETAIL INVESTORS AND IT WOULD BE RECKLESS AND INAPPROPRIATE FOR RETAIL INVESTORS TO USE MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS OR PUBLICATIONS WHEN MAKING AN INVESTMENT DECISION. IF IN DOUBT YOU SHOULD CONTACT YOUR FINANCIAL OR OTHER PROFESSIONAL ADVISER.

ALL INFORMATION CONTAINED HEREIN IS PROTECTED BY LAW, INCLUDING BUT NOT LIMITED TO, COPYRIGHT LAW, AND NONE OF SUCH INFORMATION MAY BE COPIED OR OTHERWISE REPRODUCED, REPACKAGED, FURTHER TRANSMITTED, TRANSFERRED, DISSEMINATED, REDISTRIBUTED OR RESOLD, OR STORED FOR SUBSEQUENT USE FOR ANY SUCH PURPOSE, IN WHOLE OR IN PART, IN ANY FORM OR MANNER OR BY ANY MEANS WHATSOEVER, BY ANY PERSON WITHOUT MOODY'S PRIOR WRITTEN CONSENT.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS ARE NOT INTENDED FOR USE BY ANY PERSON AS A BENCHMARK AS THAT TERM IS DEFINED FOR REGULATORY PURPOSES AND MUST NOT BE USED IN ANY WAY THAT COULD RESULT IN THEM BEING CONSIDERED A BENCHMARK.

All information contained herein is obtained by MOODY'S from sources believed by it to be accurate and reliable. Because of the possibility of human or mechanical error as well as other factors, however, all information contained herein is provided "AS IS" without warranty of any kind. MOODY'S adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MOODY'S considers to be reliable including, when appropriate, independent third-party sources. However, MOODY'S is not an auditor and cannot in every instance independently verify or validate information received in the rating process or in preparing its Publications.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability to any person or entity for any indirect, special, consequential, or incidental losses or damages whatsoever arising from or in connection with the information contained herein or the use of or inability to use any such information, even if MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers is advised in advance of the possibility of such losses or damages, including but not limited to: (a) any loss of present or prospective profits or (b) any loss or damage arising where the relevant financial instrument is not the subject of a particular credit rating assigned by MOODY'S.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability for any direct or compensatory losses or damages caused to any person or entity, including but not limited to by any negligence (but excluding fraud, willful misconduct or any other type of liability that, for the avoidance of doubt, by law cannot be excluded) on the part of, or any contingency within or beyond the control of, MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers, arising from or in connection with the information contained herein or the use of or inability to use any such information.

NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, TIMELINESS, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY CREDIT RATING, ASSESSMENT, OTHER OPINION OR INFORMATION IS GIVEN OR MADE BY MOODY'S IN ANY FORM OR MANNER WHATSOEVER.

Moody's Investors Service, Inc., a wholly-owned credit rating agency subsidiary of Moody's Corporation ("MCO"), hereby discloses that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by Moody's Investors Service, Inc. have, prior to assignment of any credit rating, agreed to pay to Moody's Investors Service, Inc. for credit ratings opinions and services rendered by it fees ranging from \$1,000 to approximately \$5,000,000. MCO and Moody's Investors Service also maintain policies and procedures to address the independence of Moody's Investors Service credit ratings and credit rating processes. Information regarding certain affiliations that may exist between directors of MCO and rated entities, and between entities who hold credit ratings from Moody's Investors Service and have also publicly reported to the SEC an ownership interest in MCO of more than 5%, is posted annually at www.moodys.com under the heading "Investor Relations — Corporate Governance — Director and Shareholder Affiliation Policy."

Additional terms for Australia only: Any publication into Australia of this document is pursuant to the Australian Financial Services License of MOODY'S affiliate, Moody's Investors Service Pty Limited ABN 61 003 399 657AFSL 336969 and/or Moody's Analytics Australia Pty Ltd ABN 94 105 136 972 AFSL 383569 (as applicable). This document is intended to be provided only to "wholesale clients" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document from within Australia, you represent to MOODY'S that you are, or are accessing the document as a representative of, a "wholesale client" and that neither you nor the entity you represent will directly or indirectly disseminate this document or its contents to "retail clients" within the meaning of section 761G of the Corporations Act 2001. MOODY'S credit rating is an opinion as to the creditworthiness of a debt obligation of the issuer, not on the equity securities of the issuer or any form of security that is available to retail investors.

Additional terms for Japan only: Moody's Japan K.K. ("MJKK") is a wholly-owned credit rating agency subsidiary of Moody's Group Japan G.K., which is wholly-owned by Moody's Overseas Holdings Inc., a wholly-owned subsidiary of MCO. Moody's SF Japan K.K. ("MSFJ") is a wholly-owned credit rating agency subsidiary of MJKK. MSFJ is not a Nationally Recognized Statistical Rating Organization ("NRSRO"). Therefore, credit ratings assigned by MSFJ are Non-NRSRO Credit Ratings. Non-NRSRO Credit Ratings are assigned by an entity that is not a NRSRO and, consequently, the rated obligation will not qualify for certain types of treatment under U.S. laws. MJKK and MSFJ are credit rating agencies registered with the Japan Financial Services Agency and their registration numbers are FSA Commissioner (Ratings) No. 2 and 3 respectively.

MJKK or MSFJ (as applicable) hereby disclose that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by MJKK or MSFJ (as applicable) have, prior to assignment of any credit rating, agreed to pay to MJKK or MSFJ (as applicable) for credit ratings opinions and services rendered by it fees ranging from JPY100,000 to approximately JPY550,000,000.

MJKK and MSFJ also maintain policies and procedures to address Japanese regulatory requirements.

REPORT NUMBER

1343098

Contacts

Gerson Morgenstern +49.69.70730.796

Associate Analyst

gerson.morgenstern@moodys.com

CLIENT SERVICES

 Americas
 1-212-553-1653

 Asia Pacific
 852-3551-3077

 Japan
 81-3-5408-4100

 EMEA
 44-20-7772-5454



13