



RATING METHODOLOGY

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Rating Methodology Gaming

This rating methodology replaces the *Gaming Methodology* published in October 2020. We have reordered and have made editorial updates to various sections of the methodology, and we have changed the presentation of the scorecard. These updates do not change our methodological approach.

Scope

This methodology applies to companies globally that are primarily* engaged in the ownership and operation of gaming outlets, including casinos, online gaming and sports betting.

Companies that are primarily engaged in the manufacture and distribution of gaming products and technology, such as slot machines and lottery terminals, are rated under our methodology for business and consumer services.¹

*The determination of a company's primary business is generally based on the preponderance of the company's business risks, which are usually proportionate to the company's revenues, earnings and cash flows.

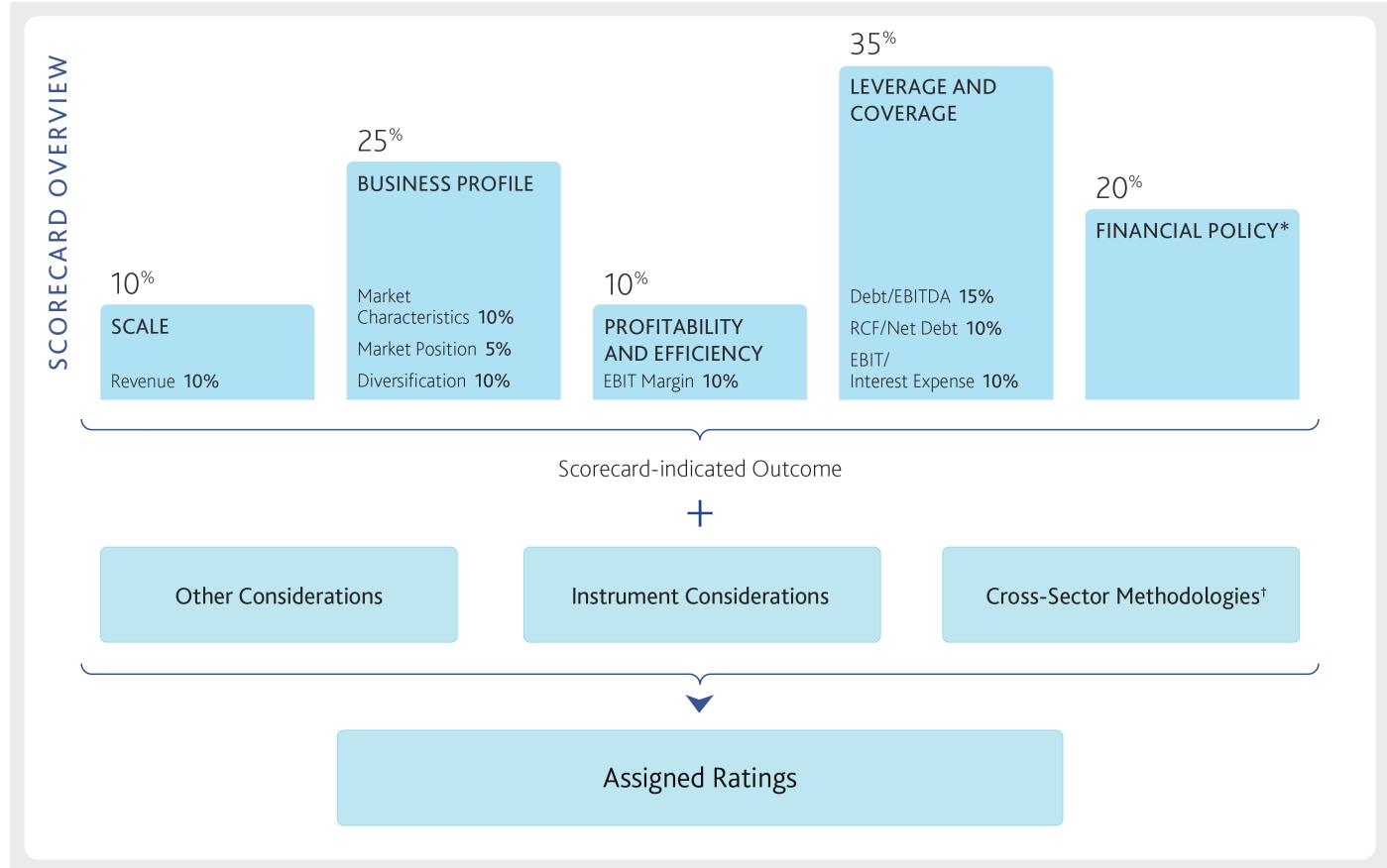
Rating approach

In this rating methodology, we explain our general approach to assessing credit risk of issuers in the gaming industry globally, including the qualitative and quantitative factors that are likely to affect rating outcomes in this sector. We seek to incorporate all material credit considerations in ratings and to take the most forward-looking perspective that visibility into these risks and mitigants permits.

The following schematic illustrates our general framework for the analysis of gaming companies, which includes the use of a scorecard.² The scorecard-indicated outcome is not expected to match the actual rating for each company. For more information, see the "Other considerations" and "Limitations" sections.

Exhibit 1

Illustration of the gaming methodology framework



*This factor has no sub-factors.

[†]Some of the methodological considerations described in one or more cross-sector rating methodologies may be relevant to ratings in this sector. A link to a list of our sector and cross-sector methodologies can be found in the "Moody's Related Publications" section.

Source: Moody's Investors Service

Gaming scorecard

For general information about how we use the scorecard and for a discussion of scorecard mechanics, please see the "Using the scorecard to arrive at a scorecard-indicated outcome" section. The scorecard does not include or address every factor that a rating committee may consider in assigning ratings in this sector. Please see the "Other considerations" and "Limitations" sections.

Exhibit 2

Gaming scorecard

		BUSINESS PROFILE (25%)				PROFITABILITY and EFFICIENCY (10%)		LEVERAGE and COVERAGE (35%)			FINANCIAL POLICY (20%)	
		Revenue (USD Billion) ^[1] (10%)	Market Characteristics (10%)	Market Position (5%)	Diversification (10%)	EBIT Margin ^[2] (EBIT / Revenue) (10%)	Debt / EBITDA ^[3] (15%)	RCF / Net Debt ^[4] (10%)	EBIT / Interest Expense ^[5] (10%)		Financial Policy (20%)	
Aaa	≥ \$50	Gaming demand exceeds supply by a very wide margin and is expected to continue to grow; all gaming facilities are located in close proximity to extremely high-density population areas; regulatory framework is fully developed, extremely predictable and stable, and very unlikely to change, including through legislation.	Company captures all of the market share in all of the markets in which it operates.	Very wide geographic diversification of gaming facilities globally; cash flow contribution is well-balanced across properties, revenue sources and delivery channels (e.g., physical facilities, online gaming, sports betting).	≥ 60%	≤ 0.5x	≥ 75%	≥ 25x			Expected to have extremely conservative financial policies (including risk and liquidity management); very stable metrics; essentially no event risk that would cause a rating transition; and public commitment to a very strong credit profile over the long term.	
Aa	\$20 - \$50	Gaming demand exceeds supply by a very wide margin; most gaming facilities are located in close proximity to very high-density population areas; regulatory framework is fully developed, very predictable and stable, and unlikely to change, including through legislation.	Company captures almost all of the market share in the key markets in which it operates.	Wide geographic diversification of gaming facilities globally; cash flow contribution is well-balanced across properties, revenue sources and delivery channels (e.g., physical facilities, online gaming, sports betting).	45% - 60%	0.5x - 1x	55% - 75%	15x - 25x			Expected to have very conservative financial policies (including risk and liquidity management); stable metrics; minimal event risk that would cause a rating transition; and public commitment to a strong credit profile over the long term.	
A	\$10 - \$20	Gaming demand exceeds supply; most gaming facilities are located in close proximity to high-density population areas; regulatory framework is fully developed, predictable and stable, and unlikely to change, including through legislation.	Company captures a very large market share in the key markets in which it operates.	Wide geographic diversification of gaming facilities across countries within a region; cash flow contribution is well-balanced across properties, revenue sources and delivery channels (e.g., physical facilities online gaming, sports betting).	35% - 45%	1x - 2x	40% - 55%	8x - 15x			Expected to have predictable financial policies (including risk and liquidity management) that preserve creditor interests; although modest event risk exists, the effect on leverage is likely to be small and temporary; strong commitment to a solid credit profile.	
Baa	\$5 - \$10	Gaming demand is equal to supply; gaming facilities are primarily located in close proximity to high-density population areas; regulatory framework is fully developed, somewhat predictable and stable, and has a low probability of change, including through legislation.	Company captures a large market share in the key markets in which it operates.	Wide geographic diversification of gaming facilities across jurisdictions within a country; cash flow contribution is moderately balanced across properties, revenue sources and delivery channels (e.g., physical facilities online gaming, sports betting).	25% - 35%	2x - 3x	25% - 40%	5x - 8x			Expected to have financial policies (including risk and liquidity management) that balance the interests of creditors and shareholders; some risk that debt-funded acquisitions or shareholder distributions could lead to a weaker credit profile.	

SCALE (10%)		BUSINESS PROFILE (25%)				PROFITABILITY and EFFICIENCY (10%)		LEVERAGE and COVERAGE (35%)			FINANCIAL POLICY (20%)		
						Revenue (USD Billion) ^[1] (10%)	Market Characteristics (10%)	Market Position (5%)	Diversification (10%)	EBIT Margin ^[2] (EBIT / Revenue) (10%)	Debt / EBITDA ^[3] (15%)	RCF / Net Debt ^[4] (10%)	EBIT / Interest Expense ^[5] (10%)
Ba	\$1.5 - \$5	Gaming demand is equal to or modestly less than supply; some gaming facilities are located in close proximity to high-density population areas; regulatory framework is well-developed, although less predictable and stable, or the possibility of unfavorable legislation exists.	Company captures a moderate market share in the key markets in which it operates.	Moderately wide geographic diversification of gaming facilities across jurisdictions within a country; cash flow contribution is somewhat balanced across properties, revenue sources and delivery channels (e.g., physical facilities, online gaming, sports betting).	15% - 25%	3x - 4.5x	15% - 25%	2x - 5x					Expected to have financial policies (including risk and liquidity management) that tend to favor shareholders over creditors; above-average financial risk resulting from shareholder distributions, acquisitions, or other significant capital structure changes.
B	\$0.5 - \$1.5	Gaming demand is modestly less than supply; gaming facilities are primarily located in close proximity to moderate-density population areas; regulatory framework is developed, but less predictable and stable, or the regulatory environment is consistently challenging and politically charged; likelihood of unfavorable legislation exists.	Company captures a modest market share in the key markets in which it operates.	Narrow geographic diversification of gaming facilities across jurisdictions within a country; cash flow contribution is somewhat unevenly distributed across properties, revenue sources and delivery channels (e.g., physical facilities, online gaming, sports betting).	10% - 15%	4.5x - 6x	5% - 15%	1x - 2x					Expected to have financial policies (including risk and liquidity management) that favor shareholders over creditors; high financial risk resulting from shareholder distributions, acquisitions, or other significant capital structure changes.
Caa	\$0.25 - \$0.5	Gaming demand is less than supply; gaming facilities are primarily located in close proximity to low-density population areas; regulatory framework is not developed, is unclear, or is undergoing substantial change, or regulatory body appears unsupportive, uncertain, or highly unpredictable; likelihood of unfavorable legislation is high.	Company captures a limited market share in the market(s) in which it operates.	Very narrow geographic diversification of gaming facilities across jurisdictions within a country; cash flow contribution comes largely from one or two properties, revenue sources and delivery channels (e.g., physical facilities, online gaming, sports betting).	5% - 10%	6x - 8x	2% - 5%	0.5x - 1x					Expected to have financial policies (including risk and liquidity management) that create elevated risk of debt restructuring in varied economic environments.
Ca	< \$0.25	Gaming demand significantly less than supply; all gaming facilities are located in close proximity to low density population areas; regulatory framework or regulatory body carry extremely high risk for business continuity.	Company captures very little market share in the market(s) in which it operates.	No geographic diversification of gaming facilities across jurisdictions within a country; cash flow contribution comes largely from one property, revenue source or delivery channel (e.g., physical facilities, online gaming, sports betting).	< 5%	> 8x	< 2%	< 0.5x					Expected to have financial policies (including risk and liquidity management) that create elevated risk of debt restructuring even in healthy economic environments.

[1] For the linear scoring scale, the Aaa endpoint value is \$100 billion. A value of \$100 billion or better equates to a numeric score of 0.5. The Ca endpoint value is zero. A value of zero equates to a numeric score of 20.5.

[2] For the linear scoring scale, the Aaa endpoint value is 75%. A value of 75% or better equates to a numeric score of 0.5. The Ca endpoint value is 0%. A value of 0% or worse equates to a numeric score of 20.5.

[3] For the linear scoring scale, the Aaa endpoint value is zero. A value of zero equates to a numeric score of 0.5. The Ca endpoint value is 12x. A value of 12x or worse equates to a numeric score of 20.5, as does a negative Debt/EBITDA value.

[4] For the linear scoring scale, when net debt is positive, the Aaa endpoint value is 100%. A value of 100% or better equates to a numeric score of 0.5. The Ca endpoint value is 0%. A value of 0% or worse equates to a numeric score of 20.5. When net debt is negative and RCF is positive, the numeric score is 0.5. When net debt is negative and RCF is negative or zero, the numeric score is 20.5.

[5] For the linear scoring scale, the Aaa endpoint value is 35x. A value of 35x or better equates to a numeric score of 0.5. The Ca endpoint value is zero. A value of zero or worse equates to a numeric score of 20.5.

Source: Moody's Investors Service

Discussion of the scorecard factors

In this section, we explain our general approach for scoring each scorecard factor or sub-factor, and we describe why they are meaningful as credit indicators.

Factor: Scale (10% weight)

Why it matters

Scale is an important indicator of the overall depth of a company's business and its success in attracting a variety of customers, as well as its resilience to shocks, such as sudden shifts in demand or rapid cost increases.

Large-scale gaming companies tend to have greater market share and better access to capital compared with smaller-scale companies. Large companies may also benefit from economies of scale with respect to research and development expenses and corporate overhead. Companies with greater scale generally have lower earnings volatility relative to smaller companies because of the lower risk that a single customer can "take the house" for a large sum with a few significant bets.

A larger scope of operations can reduce a company's reliance on a particular jurisdiction or market. In markets with high barriers to entry, scale may provide a competitive advantage. However, in many regional and local gaming markets, the competitive advantage gained by scale may not be as important because of already low competition.

How we assess it for the scorecard

REVENUE:

Scale is measured (or estimated in the case of forward-looking expectations) using total reported revenue in billions of US dollars.

Factor: Business Profile (25% weight)

Why it matters

The business profile of a gaming company is important because it greatly influences its ability to generate sustainable earnings and operating cash flows. Core aspects of a gaming company's business profile are the characteristics of the markets in which it operates, including the regulatory environment; its market position; and its geographic and revenue diversification.

This factor comprises three qualitative sub-factors:

Market Characteristics

The characteristics of the markets in which a gaming company operates, and the markets from which it draws customers, are important because they reflect the level of demand for gaming products relative to the supply of customers in the overall market. The competitive and regulatory environments of a market typically affect a company's ability to grow and maintain market share, expand its customer base, generate revenue and remain profitable. A gaming company that operates in or draws customers from one or more markets located near a large, densely populated area has a larger base of potential customers and typically has a long and consistent history of strong demand for its product offerings. A gaming company that operates in or draws customers from a sparsely populated market is likely to have a smaller customer base, with gaming facilities that are not conveniently located or easily accessible. A gaming company's ability to capture market share is also dependent on the supply of competitor gaming facilities within the markets in which it operates. A gaming company whose demand exceeds the market supply is in a better position to grow and maintain market share compared with one where supply exceeds demand.

The regulatory framework greatly influences the operating environment of a gaming market. A stable, well-developed regulatory framework that is unlikely to change generally provides a gaming company with greater predictability, allowing it to develop long-term planning to maintain its competitive strength. A regulatory framework that is not fully developed or is unclear, unpredictable or is undergoing substantial change, or a regulatory body that appears unsupportive poses a greater risk to a gaming company's business continuity because of the uncertain operating environment such conditions create. Unfavorable legislative initiatives in the jurisdictions in which a gaming company operates could result in significant negative consequences, such as higher taxes or other restrictions that reduce operating margins or the authorization of additional gaming venues that create increased competition. A regulatory framework may also influence competitive dynamics, i.e., the supply of gaming facilities within the markets in which a gaming company operates.

Market Position

A gaming company's market position is a meaningful indicator of its resilience to economic downturns and intensifying competition. A leading market position may indicate that a company's investments in its facilities and technology are translating into competitive advantages and may provide insight into the extent of its different product offerings. Gaming companies that have stronger market positions tend to be more profitable and generally have more resources to maintain or expand their customer base compared with companies that have weaker market positions. Profitability can vary from one market to another, but it tends to be higher over time in key markets where a company has a leading market position.

Diversification

A gaming company's geographic and product diversification are important because they can mitigate adverse economic trends or changes in consumer habits that affect specific regions or types of delivery channels (e.g., physical facilities or online gaming). Geographic diversification can also mitigate the adverse effects of regulatory changes within a particular market because a company with greater diversity may be able to offset any lost business by relying on markets outside of the affected jurisdiction. A company that offers a broad array of products may appeal to a larger customer base, and a diversified company is more likely to generate stable cash flow across its properties, revenue sources and delivery channels than one that has a narrow geographic or product focus.

How we assess it for the scorecard

Scoring for this factor is based on three sub-factors: Market Characteristics; Market Position; and Diversification.

MARKET CHARACTERISTICS:

Scoring for this sub-factor is based on demand relative to supply on a current and forward-looking basis, the proximity of gaming facilities to densely populated areas and the stability and predictability of the regulatory framework.

In assessing demand, we consider a gaming company's revenue growth. Stable or upward revenue growth typically indicates that demand for a gaming company's product offerings is meeting or exceeding the supply of customers within its markets. Declines in revenue for one or more gaming companies within a market is typically an indicator that the market is saturated, and that there may be weak demand relative to supply.

Our assessment of gaming demand is based on a qualitative assessment of monthly, annual and multi-year trends in gaming revenue. Where available, we rely on information reported by gaming authorities and gaming companies.

We consider the likelihood of ongoing demand for a gaming company's product offerings through a qualitative assessment of population statistics and demographic data in or near the markets in which it operates and from which it attracts customers.

In assessing the regulatory environment in which a gaming company operates, we consider the track record of the regulatory bodies responsible for gaming in each of a gaming company's markets. We assess how fully developed the regulatory framework is, its stability and predictability, and the likelihood that legislative or other changes could alter the competitive landscape in a given market. We also typically assess whether a regulatory regime favors existing market participants or new entrants. Political and cultural changes may also affect the stability and predictability of the regulatory environment, and changes in the regulatory frameworks of neighboring jurisdictions may influence a gaming company's competitive environment in its own market.

MARKET POSITION:

In assessing market position, we consider how much of the market share a company captures in the markets in which it operates. We typically consider the amount of revenue it collects in a market relative to the market's total gaming revenue, where such data is reported by third-party government or industry entities. We may also consider win per unit, which is an industry metric that shows the average amount of income generated by each slot machine, casino table or gaming device. In markets where aggregated market share data is not reported, we typically use audited financial reports of market participants to estimate the market's total gaming revenue and arrive at a gaming company's market position based on its revenue relative to the total estimated market revenue. For a company that operates in more than one market, our assessment typically centers on the key markets that represent a significant share of a company's revenue.

DIVERSIFICATION:

Scoring for this sub-factor is based primarily on the breadth of a gaming company's geographic presence as well as its cash flow contributions from different revenue sources and delivery channels (e.g., physical facilities or online gaming).

We assess a gaming company's geographic diversification by the number of its gaming facilities and whether they are dispersed across multiple global regions, across countries within a broad geographic region, or across state or local jurisdictions within a country. Companies with operations that are diversified globally typically receive higher scores for this sub-factor than companies whose facilities are largely concentrated in one region, country, or state or local jurisdiction.

In assessing diversification across revenue sources and delivery channels, we consider a gaming company's range of distinct product offerings and their proportionate contribution to the company's revenue base and cash flow. A gaming company's product offerings may include traditional on-site casino gaming, online gaming, sports betting or other gaming delivery channels. A company may also offer non-gaming amenities, such as hotels, restaurants, retail stores, convention centers and other types of entertainment, that appeal to a wider array of customers and supplement gaming revenue.

Generally, we do not expect a given company's business profile to exactly match each of the attributes listed for a given scoring category. We typically assign each sub-factor score based on the alpha category for which the company has the greatest number of characteristics. However, there may be cases in which one characteristic is sufficiently important to a particular company's credit profile that it has a large influence on the sub-factor score.

Factor: Profitability and Efficiency (10% weight)

Why it matters

Profits matter because they are needed to generate sustainable cash flow and maintain a competitive position, which includes investing in gaming facilities, technology, and marketing and rewards programs to attract customers. The ability to sustain high profitability is generally a strong indicator of operating efficiency and substantial competitive advantages. The gaming industry generally has had very high profitability relative to other sectors.

How we assess it for the scorecard

EBIT MARGIN:

We use EBIT Margin, which is the ratio of earnings before interest and taxes (EBIT) to revenue.

Factor: Leverage and Coverage (35% weight)

Why it matters

Leverage and cash flow coverage measures provide important indications of a gaming company's financial flexibility and long-term viability, as well as its ability to sustain its competitive position, invest in growth and meet debt service obligations.

This factor comprises three quantitative sub-factors:

Debt / EBITDA

The ratio of total debt to earnings before interest, taxes, depreciation and amortization (Debt/EBITDA) is an indicator of debt serviceability and financial leverage. The ratio is commonly used in this sector as a proxy for comparative financial strength.

RCF / Net Debt

The ratio of retained cash flow to net debt (RCF/Net Debt) is an indicator of a company's cash generation (before working capital movements and capital expenditures, and after dividend payments) relative to its net debt (total debt minus cash and cash equivalents).

EBIT / Interest Expense

The ratio of earnings before interest and taxes to interest expense (EBIT/Interest Expense) is an indicator of a company's ability to meet its interest obligations.

How we assess it for the scorecard

Scoring is based on three sub-factors: Debt/EBITDA; RCF/Net Debt; and EBIT/Interest Expense.

DEBT / EBITDA:

The numerator is total debt, and the denominator is EBITDA.

RCF / NET DEBT:

The numerator is retained cash flow, and the denominator is net debt (total debt minus cash and cash equivalents).

EBIT / INTEREST EXPENSE:

The numerator is EBIT, and the denominator is interest expense.

Factor: Financial Policy (20% weight)**Why it matters**

Financial policy encompasses management and board tolerance for financial risk and commitment to a strong credit profile. It is an important rating determinant, because it directly affects debt levels, credit quality, the future direction for the company and the risk of adverse changes in financing and capital structure.

Financial risk tolerance serves as a guidepost to investment and capital allocation. An expectation that management will be committed to sustaining an improved credit profile is often necessary to support an upgrade. For example, we may not upgrade the ratings of a company that has built flexibility within its rating category if we believe the company will use that flexibility to fund a strategic acquisition, cash distribution to shareholders, spin-off or other leveraging transaction. Conversely, a company's credit rating may be better able to withstand a moderate leveraging event if management places a high priority on returning credit metrics to pre-transaction levels and has consistently demonstrated the commitment to do so through prior actions. Liquidity management³ is an important aspect of overall risk management and can provide insight into risk tolerance.

Many gaming companies have historically used acquisitions to spur revenue growth, expand business lines, consolidate market positions, advance cost synergies or seek access to new technology.

How we assess it for the scorecard

We assess the issuer's desired capital structure or targeted credit profile, its history of prior actions, including its track record of risk and liquidity management, and its adherence to its commitments. Attention is paid to management's operating performance and use of cash flow through different phases of economic and industry cycles. Also of interest is the way in which management responds to key events, such as changes in the credit markets and liquidity environment, legal actions, competitive challenges or regulatory pressures. Considerations include a company's public commitments in this area, its track record for adhering to commitments and our views on the ability of the company to achieve its targets.

When considering event risks in the context of scoring financial policy, we assess the likelihood and potential negative impact of M&A or other types of balance-sheet-transforming events. Management's appetite for M&A activity is assessed, with a focus on the type of transactions (i.e., core competency or new business) and funding decisions. Frequency and materiality of acquisitions and previous financing choices are evaluated. A history of debt-financed or credit-transforming acquisitions will generally result in a lower score for this factor. We may also consider negative repercussions caused by shareholders' willingness to sell the company.

We also consider a company's and its owners' past record of balancing shareholder returns and debtholders' interests. A track record of favoring shareholder returns at the expense of debtholders is likely to be viewed negatively in scoring this factor.

Other considerations

Ratings may reflect consideration of additional factors that are not in the scorecard, usually because the factor's credit importance varies widely among the issuers in the sector or because the factor may be important only under certain circumstances or for a subset of issuers. Such factors include financial controls and the quality of financial reporting; corporate legal structure; the quality and experience of management; assessments of corporate governance as well as environmental and social considerations; exposure to uncertain licensing regimes; and possible government interference in some countries. Regulatory, litigation, liquidity, technology and

reputational risk as well as changes to consumer and business spending patterns, competitor strategies and macroeconomic trends also affect ratings.

Following are some examples of additional considerations that may be reflected in our ratings and that may cause ratings to be different from scorecard-indicated outcomes.

Regulatory Considerations

Companies in the gaming sector are subject to varying degrees of regulatory oversight. Effects of these regulations may entail limitations on operations, higher costs, and higher potential for technology disruptions and demand substitution. Regional differences in regulation, implementation or enforcement may advantage or disadvantage particular issuers.

Our view of future regulations plays an important role in our expectations of future financial metrics as well as our confidence level in the ability of an issuer to generate sufficient cash flows relative to its debt burden over the medium and longer term.

Regulatory considerations also play a key role in our assessment of an issuer's Business Profile, as noted above. For instance, regulatory authorities may issue additional gaming licenses within a jurisdiction that increase competitive forces for a gaming company. In some circumstances, regulatory considerations may also be a rating factor outside the scorecard, for instance when regulatory change is swift.

Environmental, Social and Governance Considerations

Environmental, social and governance (ESG) considerations may affect the ratings of issuers in the gaming sector. For information about our approach to assessing ESG issues, please see our methodology that describes our general principles for assessing these risks.⁴

Social risks to gaming may emerge as consumer preferences evolve and demographics change, which may reduce demand for traditional gaming venues, such as casinos. Consumers, under pressure from weak growth in disposable personal income and increasing living expenses, may limit spending on gaming, a highly discretionary form of entertainment.

Social attitudes toward gambling addiction may increase pressure on gaming companies to adopt more socially responsible measures. Gaming operators may also face reputational risk if they appear to minimize problem gambling or if they appear to market products to vulnerable customers.

Government anti-money laundering efforts may add to gaming companies' compliance costs, thereby pressuring margins. Governments may increase taxes on gaming companies to compensate for reduced tax income elsewhere, resulting in lower profitability.

Financial Controls

We rely on the accuracy of audited financial statements to assign and monitor ratings in this sector. The quality of financial statements may be influenced by internal controls, including the proper tone at the top, centralized operations, and consistency in accounting policies and procedures. Auditors' reports on the effectiveness of internal controls, auditors' comments in financial reports and unusual restatements of financial statements or delays in regulatory filings may indicate weaknesses in internal controls.

Management Strategy

The quality of management is an important factor supporting a company's credit strength. Assessing the execution of business plans over time can be helpful in assessing management's business strategies, policies and philosophies and in evaluating management performance relative to performance of competitors and our projections. Management's track record of adhering to stated plans, commitments and guidelines provides insight into management's likely future performance, including in stressed situations.

Excess Cash Balances

Some companies in this sector may maintain cash balances (meaning liquid short-term investments as well as cash) that are far in excess of their operating needs. This excess cash can be an important credit consideration; however, the underlying policy and motivations of the issuer in holding high cash balances are often as or more important in our analysis than the level of cash held. We have observed significant variation in company behavior based on differences in financial philosophy, investment opportunities, availability of committed revolving credit facilities and shareholder pressures.

Most issuers need to retain some level of cash in their business for operational purposes. The level of cash required to run a business can vary based on the region(s) of operation and the specific sub-sectors in which the issuer operates. Some issuers have very predictable cash needs and others have much broader intra-period swings, for instance related to mark-to-market collateral requirements under hedging instruments. Some companies may hold large levels of cash at times because they operate without committed, long-term bank borrowing facilities. Some companies may hold cash on the balance sheet to meet long-term contractual liabilities, whereas other companies with the same types of liabilities have deposited cash into trust accounts that are off balance sheet. The level of cash that issuers are willing to hold can also vary over time based on the cost of borrowing and macroeconomic conditions. The same issuer may place a high value on cash holdings in a major recession or financial crisis but seek to pare cash when inflation is high. As a result, cash on the balance sheet is most often considered qualitatively, by assessing the issuer's track record and financial and liquidity policies rather than by measuring how a point-in-time cash balance would affect a specific metric.

Across all corporate sectors, an important shareholder-focused motivation for cash holdings, sometimes over very long periods, is cash for acquisitions. In these cases, we do not typically consider that netting cash against the issuer's current level of debt is analytically meaningful; however, the cash may be a material mitigant in our scenario analyses of potential acquisitions, share buybacks or special dividends. Tax minimization strategies have at times been another primary motivation for holding large cash balances. Given shareholder pressures to return excess cash holdings, when these motivations for holding excess cash are eliminated, we generally expect that a large portion of excess cash will be used for dividends and share repurchases.

By contrast, some companies maintain large cash holdings for long periods of time in excess of their operating and liquidity needs solely due to conservative financial policies, which provides a stronger indication of an enduring approach that will benefit creditors. For instance, some companies have a policy to routinely pre-fund upcoming required debt payments well in advance of the stated maturity. Such companies may also have clearly stated financial targets based on net debt metrics and a track record of maintaining their financial profile within those targets.

While the scorecard in this methodology uses certain leverage and coverage ratios with total (or gross) debt, we do consider excess cash holdings in our rating analysis, including in our assessment of the financial and liquidity policy. For issuers where we have clarity into the extent to which cash will remain on the balance sheet and/or be used for creditor-friendly purposes, excess cash may be considered in a more quantitative manner. While we consider excess cash in our credit assessment for ratings, we do not typically adjust the balance sheet debt for any specific amount because this implies greater precision than we think is appropriate for the uncertain future uses of cash. However, when cash holdings are unusually large relative to debt, we may refer to debt net of cash, or net of a portion of cash, in our credit analysis and press releases in order to provide additional insight into our qualitative assessment of the credit benefit. Alternatively, creditor-friendly use of cash may be factored into our forward view of metrics, for instance when the cash is expected to be used for debt-repayment. We may also cite rating threshold levels for certain issuers based on net debt ratios, particularly when these issuers have publicly stated financial targets based on net debt metrics. In cases where we believe that cash on the balance sheet does not confer meaningful credit support, we are more likely to cite gross debt ratios in our credit analysis, press releases and rating threshold levels.

Even when the eventual use for excess cash is likely to be for purposes that do not benefit debtholders, large holdings provide some beneficial cushion against credit deterioration, and cash balances are often considered in our analysis of near-term liquidity sources and uses. Such downside protection is usually more important for low rated companies than for highly rated companies due to differences in credit stability and the typically shorter distance from potential default for issuers at the lower end of the ratings spectrum.

Liquidity

Liquidity is an important rating consideration for all gaming companies, although it may not have a substantial impact in discriminating between two issuers with a similar credit profile. Liquidity can be particularly important for companies in highly seasonal operating environments where working capital needs must be considered, and ratings can be heavily affected by extremely weak liquidity. We form an opinion on likely near-term liquidity requirements from the perspective of both sources and uses of cash. For more details on our approach, please see our liquidity cross-sector methodology.⁵

Additional Metrics

The metrics included in the scorecard are those that are generally most important in assigning ratings to companies in this industry; however, we may use additional metrics to inform our analysis of specific companies. These additional metrics may be important to our forward view of metrics that are in the scorecard or other rating factors.

For example, free cash flow is not always an important differentiator of credit profiles. Strong companies with excellent investment opportunities may demonstrate multiyear periods of negative free cash flow while retaining solid access to capital and credit, because these investments will yield stable cash flows in future years. Weaker companies with limited access to credit may have positive free cash flow for a period of time because they have curtailed the investments necessary to maintain their assets and future cash-generating prospects. However, in some cases, free cash flow can be an important driver of the future liquidity profile of an issuer, which, as noted above, can have a meaningful impact on ratings.

Non-Wholly Owned Subsidiaries

Some companies in the gaming sector choose to dilute their equity stake in certain material subsidiaries, for example through an initial public offering, which may in some cases negatively impact future financial flexibility. While improving cash holdings on a one-off basis, selling minority interests in subsidiaries may have a negative impact on cash flows available to the parent company that may not be fully reflected in consolidated financial statements.⁶ The parent's share of dividend flows from a non-wholly owned subsidiary is reduced, and minority stakes can increase structural subordination, since dividend flows to minority interest holders are made before the cash flows are available to service debt at the parent company. While less frequent, sale of a minority stake may be accompanied by policies protective of the subsidiary that further limit the parent's financial flexibility, for instance restrictions on cash pooling with other members of the corporate family, limitations on dividends and distributions, or arms-length business requirements. Minority stakeholders may have seats on the board of the subsidiary. In many cases, we consider the impact of non-wholly owned subsidiaries qualitatively. However, in some cases we may find that an additional view of financial results, such as analyzing cash flows on a proportional consolidation basis, may be very useful to augment our analysis based on consolidated financial statements. When equity dilution or structural subordination arising from non-wholly owned subsidiaries is material and negative, the credit impact is captured in ratings but may not be fully reflected in scorecard-indicated outcomes.

For companies that hold material minority interest stakes, consolidated funds from operations typically includes the dividends received from the minority subsidiary, while none of its debt is consolidated. When such dividends are material to the company's cash flows, these cash flows may be subject to interruption if they are required for the minority subsidiary's debt service, capital expenditures or other cash needs. When minority interest dividends are material, we may also find that proportional consolidation or another additional view of financial results is useful to augment our analysis of consolidated financials. We would generally also consider structural subordination in these cases.⁷ When these credit considerations are material, their impact is captured in ratings but may not be fully reflected in scorecard-indicated outcomes.

Event Risk

We also recognize the possibility that an unexpected event could cause a sudden and sharp decline in an issuer's fundamental creditworthiness, which may cause actual ratings to be lower than the scorecard-indicated outcome. Event risks — which are varied and can range from leveraged recapitalizations to sudden regulatory changes or liabilities from an accident — can overwhelm even a stable, well-capitalized firm. Some other types of event risks include M&A, asset sales, spin-offs, litigation, pandemics, significant cyber-crime events and shareholder distributions.

Parental Support

Ownership can provide ratings lift for a particular company in the gaming sector if it is owned by a highly rated owner(s) and is viewed to be of strategic importance to those owners. In our analysis of parental support, we consider whether the parent has the financial capacity and strategic incentives to provide support to the issuer in times of stress or financial need (e.g., a major capital investment or advantaged operating agreement), or has already done so in the past. Conversely, if the parent puts a high dividend burden on the issuer, which in turn reduces its flexibility, the ratings would reflect this risk.

Government-related issuers may receive ratings uplift due to expected government support. However, for certain issuers, government ownership can have a negative impact on the underlying Baseline Credit Assessment.⁸ For example, price controls, onerous taxation and high distributions can have a negative effect on an issuer's underlying credit profile.

Cyclical Sectors

Scorecard-indicated outcomes in cyclical sectors such as gaming may be higher than the rating at the top of the economic cycle and lower than the rating at the bottom of the cycle. While using annual financials in the scorecard typically provides very useful insights into recent or near-term results, ratings may also reflect our expectations for the progression of yearly results over a longer period that may include a full economic cycle. However, cyclical itself poses many different types of risks to companies, and cycles do not reverse themselves with predictable regularity. A cyclical sector may also be affected by a secular decline or expansion. These considerations may be incorporated qualitatively in ratings.

Using the scorecard to arrive at a scorecard-indicated outcome

1. Measurement or estimation of factors in the scorecard

In the "Discussion of the scorecard factors" section, we explain our analytical approach for scoring each scorecard factor or sub-factor,⁹ and we describe why they are meaningful as credit indicators.

The information used in assessing the sub-factors is generally found in or calculated from information in the company's financial statements or regulatory filings, derived from other observations or estimated by Moody's analysts. We may also incorporate non-public information.

Our ratings are forward-looking and reflect our expectations for future financial and operating performance. However, historical results are helpful in understanding patterns and trends of a company's performance as well as for peer comparisons. Financial ratios,¹⁰ unless otherwise indicated, are typically calculated based on an annual or 12-month period. However, the factors in the scorecard can be assessed using various time periods. For example, rating committees may find it analytically useful to examine both historical and expected future performance for periods of several years or more.

All of the quantitative credit metrics incorporate our standard adjustments¹¹ to income statement, cash flow statement and balance sheet amounts for items such as underfunded pension obligations and operating leases. We may also make other analytical adjustments that are specific to a particular company.

2. Mapping scorecard factors to a numeric score

After estimating or calculating each factor or sub-factor, each outcome is mapped to a broad Moody's rating category (Aaa, Aa, A, Baa, Ba, B, Caa or Ca, also called alpha categories) and to a numeric score.

Qualitative factors are scored based on the description by broad rating category in the scorecard. The numeric value of each alpha score is based on the scale below.

Exhibit 3

Aaa	Aa	A	Baa	Ba	B	Caa	Ca
1	3	6	9	12	15	18	20

Source: Moody's Investors Service

Quantitative factors are scored on a linear continuum. For each metric, the scorecard shows the range by alpha category. We use the scale below and linear interpolation to convert the metric, based on its placement within the scorecard range, to a numeric score, which may be a fraction. As a purely theoretical example, if there were a ratio of revenue to interest for which the Baa range was 50x to 100x, then the numeric score for an issuer with revenue/interest of 99x, relatively strong within this range, would score closer to 7.5, and an issuer with revenue/interest of 51x, relatively weak within this range, would score closer to 10.5. In the text or table footnotes, we define the endpoints of the line (i.e., the value of the metric that constitutes the lowest possible numeric score, and the value that constitutes the highest possible numeric score).

Exhibit 4

Aaa	Aa	A	Baa	Ba	B	Caa	Ca
0.5-1.5	1.5-4.5	4.5-7.5	7.5-10.5	10.5-13.5	13.5-16.5	16.5-19.5	19.5-20.5

Source: Moody's Investors Service

3. Determining the overall scorecard-indicated outcome

The numeric score for each sub-factor (or each factor, when the factor has no sub-factors) is multiplied by the weight for that sub-factor (or factor), with the results then summed to produce an aggregate numeric score. The aggregate numeric score is then mapped back to a scorecard-indicated outcome based on the ranges in the table below.

Exhibit 5

Scorecard-indicated outcome

Scorecard-indicated outcome	Aggregate numeric score
Aaa	x ≤ 1.5
Aa1	1.5 < x ≤ 2.5
Aa2	2.5 < x ≤ 3.5
Aa3	3.5 < x ≤ 4.5
A1	4.5 < x ≤ 5.5
A2	5.5 < x ≤ 6.5
A3	6.5 < x ≤ 7.5
Baa1	7.5 < x ≤ 8.5
Baa2	8.5 < x ≤ 9.5
Baa3	9.5 < x ≤ 10.5
Ba1	10.5 < x ≤ 11.5
Ba2	11.5 < x ≤ 12.5
Ba3	12.5 < x ≤ 13.5
B1	13.5 < x ≤ 14.5
B2	14.5 < x ≤ 15.5
B3	15.5 < x ≤ 16.5
Caa1	16.5 < x ≤ 17.5
Caa2	17.5 < x ≤ 18.5
Caa3	18.5 < x ≤ 19.5
Ca	19.5 < x ≤ 20.5
C	x > 20.5

Source: Moody's Investors Service

For example, an issuer with an aggregate numeric score of 11.7 would have a Ba2 scorecard-indicated outcome.

In general, the scorecard-indicated outcome is oriented to the corporate family rating (CFR) for speculative-grade issuers and to the senior unsecured rating for investment-grade issuers. For issuers that benefit from rating uplift from parental support, government ownership or other institutional support, we consider the underlying credit strength or Baseline Credit Assessment for comparison to the scorecard-indicated outcome. For an explanation of the Baseline Credit Assessment, please refer to *Rating Symbols and Definitions* and to our cross-sector methodology for government-related issuers.¹²

Assigning issuer-level and instrument-level ratings

After considering the scorecard-indicated outcome, other considerations and relevant cross-sector methodologies, we typically assign a CFR to speculative-grade issuers or a senior unsecured rating for investment-grade issuers. For issuers that benefit from rating uplift from government ownership, we may assign a Baseline Credit Assessment.¹³

Individual debt instrument ratings may be notched up or down from the CFR or the senior unsecured rating to reflect our assessment of differences in expected loss related to an instrument's seniority level and collateral. The documents that provide broad guidance for such notching decisions are the rating methodology on loss given default for speculative-grade non-financial companies, the methodology for notching corporate instrument ratings based on differences in security and priority of claim, and the methodology for assigning short-term ratings.¹⁴

Key rating assumptions

For information about key rating assumptions that apply to methodologies generally, please see *Rating Symbols and Definitions*.¹⁵

Limitations

In the preceding sections, we have discussed the scorecard factors and many of the other considerations that may be important in assigning ratings. In this section, we discuss limitations that pertain to the scorecard and to the overall rating methodology.

Limitations of the scorecard

There are various reasons why scorecard-indicated outcomes may not map closely to actual ratings.

The scorecard in this rating methodology is a relatively simple tool that can be used in most cases to approximate credit profiles of companies in this sector and to explain, in summary form, many of the factors that are generally most important in assigning ratings to these companies. Credit loss and recovery considerations, which are typically more important as an issuer gets closer to default, may not be fully captured in the scorecard. The scorecard is also limited by its upper and lower bounds, causing scorecard-indicated outcomes to be less likely to align with ratings for issuers at the upper and lower ends of the rating scale.

The weights for each factor and sub-factor in the scorecard represent an approximation of their importance for rating decisions across the sector, but the actual importance of a particular factor may vary substantially based on an individual company's circumstances.

Factors that are outside the scorecard, including those discussed above in the "Other Considerations" section, may be important for ratings, and their relative importance may also vary from company to company. In addition, certain broad methodological considerations described in one or more cross-sector rating methodologies may be relevant to ratings in this sector.¹⁶ Examples of such considerations include the following: how sovereign credit quality affects non-sovereign issuers, the assessment of credit support from other entities, the relative ranking of different classes of debt and hybrid securities, and the assignment of short-term ratings.

We may use the scorecard over various historical or forward-looking time periods. Furthermore, in our ratings we often incorporate directional views of risks and mitigants in a qualitative way.

General limitations of the methodology

This methodology document does not include an exhaustive description of all factors that we may consider in assigning ratings in this sector. Companies in the sector may face new risks or new combinations of risks, and they may develop new strategies to mitigate risk. We seek to incorporate all material credit considerations in ratings and to take the most forward-looking perspective that visibility into these risks and mitigants permits.

Ratings reflect our expectations for an issuer's future performance; however, as the forward horizon lengthens, uncertainty increases and the utility of precise estimates, as scorecard inputs or in other considerations, typically diminishes. Our forward-looking opinions are based on assumptions that may prove, in hindsight, to have been incorrect. Reasons for this could include unanticipated changes in any of the following: the macroeconomic environment, general financial market conditions, industry competition, disruptive technology, or regulatory and legal actions. In any case, predicting the future is subject to substantial uncertainty.

Moody's related publications

Credit ratings are primarily determined through the application of sector credit rating methodologies. Certain broad methodological considerations (described in one or more cross-sector rating methodologies) may also be relevant to the determination of credit ratings of issuers and instruments. A list of sector and cross-sector credit rating methodologies can be found [here](#).

For data summarizing the historical robustness and predictive power of credit ratings, please click [here](#).

For further information, please refer to *Rating Symbols and Definitions*, which is available [here](#).

Moody's Basic Definitions for Credit Statistics (User's Guide) can be found [here](#).

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Endnotes

- [1](#) A link to a list of our sector and cross-sector methodologies can be found in the "Moody's related publications" section.
- [2](#) In our methodologies and research, the terms "scorecard" and "grid" are used interchangeably.
- [3](#) Liquidity management is distinct from the level of liquidity, which is discussed in the "Other considerations" section.
- [4](#) A link to a list of our sector and cross-sector methodologies can be found in the "Moody's related publications" section.
- [5](#) A link to a list of our cross-sector methodologies can be found in the "Moody's related publications" section.
- [6](#) For example, in the case of an equity stake reduction in a subsidiary down to 75%, in the parent's financial statements, all revenue and EBITDA of the subsidiary would typically still be consolidated at the group level.
- [7](#) Proportional consolidation brings a portion of the minority subsidiary's debt onto the balance sheet, but this debt is structurally senior to debt at the parent company, because it is closer to the assets and cash flows of the minority subsidiary.
- [8](#) For an explanation of the Baseline Credit Assessment, please refer to *Rating Symbols and Definitions* and to our cross-sector methodology for government-related issuers. A link to a list of our sector and cross-sector methodologies and a link to *Rating Symbols and Definitions* can be found in the "Moody's related publications" section.
- [9](#) When a factor comprises sub-factors, we score at the sub-factor level. Some factors do not have sub-factors, in which case we score at the factor level.
- [10](#) For definitions of our most common ratio terms, please see *Moody's Basic Definitions for Credit Statistics (User's Guide)*. A link can be found in the "Moody's related publications" section.
- [11](#) For an explanation of our standard adjustments, please see the cross-sector methodology that describes our financial statement adjustments in the analysis of non-financial corporations.
- [12](#) A link to a list of our sector and cross-sector methodologies and a link to *Rating Symbols and Definitions* can be found in the "Moody's related publications" section.
- [13](#) For an explanation of the Baseline Credit Assessment, please refer to *Rating Symbols and Definitions* and to our cross-sector methodology for government-related issuers. A link to a list of our sector and cross-sector methodologies and a link to *Rating Symbols and Definitions* can be found in the "Moody's related publications" section.
- [14](#) A link to a list of our sector and cross-sector rating methodologies can be found in the "Moody's related publications" section.
- [15](#) A link to *Rating Symbols and Definitions* can be found in the "Moody's related publications" section.
- [16](#) A link to a list of our sector and cross-sector methodologies can be found in the "Moody's related publications" section.

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